

SEPTEMBER 1980

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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

SEPTEMBER 1980

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
ALABAMA										
Selma, Dallas County	1	3:30p	**400	50	0	0	5	0	Tornado	
									Small tornado touched down briefly at the Selma Mall and nearby Selma High School. Several air conditioners were ripped from roofs and a portion of the overhang roofing in the mall was torn away. One of the large air conditioners landed in an adjoining parking lot. A visitor's box at the high school baseball field was torn apart.	
Boykin, Wilcox County	2	4:30p			0	0	5	0	Lightning	
									Lightning struck one of the buildings comprising the Boykin Elementary School, starting a fire which destroyed the building, including all equipment, supplies and books.	
Eufaula, Barbour County	6	2:30p			0	0	4	0	High winds	
									High winds in a severe thunderstorm destroyed a boat shed and overturned several boats at the Eufaula Boat Club. Trees were uprooted and power lines downed in Eufaula. Seven plate glass windows were broken at Eufaula High School.	
Talladega County	10	3:50p			0	0	4	0	Lightning	
									A fire started by lightning caused heavy damage to a rural residence near Talladega.	
Dothan, Houston County	10	8:30p	3	50	0	0	5	0	Tornado	
									Small tornado touched down in Pine Hill Subdivision and moved along intermittent path to Southland Subdivision. Five houses sustained major damage and about 30 houses had minor damage - mostly roof type. Numerous trees were snapped. A radio tower toppled and a seven ton steel tank was rolled 15 feet.	
Bessemer, Jefferson County	17	7:15a			0	0	0	0	Funnel Cloud	
									Jefferson County Sheriff's Department reported funnel cloud in Rock Creek Community, just southwest of Bessemer.	
Birmingham, Jefferson County	17	7:45a			0	0	0	0	Funnel Cloud	
									Birmingham Fire Department reported a funnel cloud almost down to the ground in the Ensley area.	
Birmingham, Jefferson County	17	7:00a-9:00a			0	0	5	0	High winds	
									High winds from severe thunderstorms produced damage in much of greater Birmingham area. Trees were snapped and uprooted. Power lines were downed. Some structural damage was reported - mainly from falling trees.	
Pike County	17	3:00p			0	0	0	0	Funnel Cloud	
									A funnel cloud was reported by the public near Brundidge, moving toward the east at 20 mph.	
Cullman County	25	Morning			0	0	5	0	Flash Flood	
									More than nine inches of rain within a twelve hour period did extensive damage to roads and property in the City of Cullman and other parts of the county. Some Cullman streets were impassable, many cars stalled, water seeped into many basements, and several downtown buildings and business establishments were flooded. There was considerable damage to many county roads and bridges.	
ALASKA										
Southcentral	1	14:30 ADT			0	1	0	0	High Wind	
									Local strong and gusty winds following a strong cold frontal passage were reported from areas near Palmer. Winds estimated up to 90 mph toppled a tree into a party of hunters seriously injuring one person.	
ARIZONA										
Cottonwood Yavapai County	4	3:30 p.			0	0	5	0	Wind	
									A sudden, violent dust devil ripped a path through part of the city and caused over \$50,000 damage. The hardest hit was a metal building that was destroyed. A restaurant lost part of its roof and a large part of an outdoor theater screen was torn away.	
Franklin Greenlee County	9	8:30 p.			3	0	4	0	Flash Flooding	
									An infant girl and her 2-year old brother drowned after they were swept from their mother's arms by the raging water of Railroad Wash. A 1-year old sister also drowned as they were trying to reach the highway on higher ground a short distance from their mobile home. They were caught in a very sudden surge of water that had built up as a result of 4 inches of rain upstream in New Mexico during the afternoon and evening.	
Safford Area Graham County	10				0	0	5	0	Flooding	
									Flooding on the Gila River washed out several approaches to bridges. The flooding was the result of heavy rains of 4 inches upstream in New Mexico during the afternoon and evening of the 9th. The crest reached Safford about noon on the 10th and by the morning of the 11th the river was almost back to normal.	
ARKANSAS										
Just South of Hot Springs - Garland County	2	12:00 p.			0	0	5	0	High Winds	
									Thunderstorms produced high winds which damaged or destroyed a marina, private boats, autos, and other businesses on Lake Hamilton. Damage was estimated at over 200 thousand dollars.	
Near Bigelow - Perry County	3	5:00 p.	**	250	25	0	0	4	0	Tornado
									Small tornado moving east-northeast touched down briefly and destroyed a plant which manufactured mobile and modular homes. Damage was estimated at 15 thousand dollars.	
Carlisle - Lonoke County	17	2:00 a.			0	0	5	0	Lightning	
									Lightning caused a fire which heavily damaged a furniture and hardware store plus an adjoining warehouse.	
All of Arkansas	Mid-June to Mid-September				136	?	8	9	Heat Wave and Drought	
									The summer of 1980 was the hottest and driest on record in Arkansas. The heat wave started in earnest the 24th of June when Waldron (Scott County) was the first place in the state to report a 100 degree temperature. The highest temperature recorded was 113 degrees at Alicia (Lawrence County) on the 16th of July.	
									The temperature reached or exceeded 100 degrees on 41 days in Little Rock. Little Rock reported 30 consecutive days (June 30 - July 19) with maximums of 100 degrees or more with ten of those days' maximums (July 9 - July 18) being 105 degrees or more. This broke the old record of ten consecutive days of 100 degrees or more maximum that was set back in 1954.	
									Rainfall totaled 1.2 inches in Little Rock during June, July, and August of 1980 versus normal rainfall of nine and one-half inches for the three months.	
									Agricultural and poultry industries were especially hard hit. Estimated crop damage included:	
									Soybeans 65% loss/500 million dollars	
									Cotton 60% loss/126 million dollars	
									Grain Sorghum 85% loss/48 million dollars	
									Corn 85% loss/4 million dollars	
									Hay 60% loss/4 million dollars	
									Pasture 85% loss/16 million dollars	
									Estimated drought losses in excess of 868 million dollars did not include timber, poultry, and livestock.	
									Poultry industry damages exceeded 35 million dollars. Losses included ten million broiler chickens and one million breeder hens. The President of the United States declared the entire state of Arkansas to be a disaster area.	
									A record number of forest and grass fires caused four million dollars damage. This did not include homes, barns, and equipment lost. Timber losses included 51 thousand acres burned in July and August.	
									One hundred thirty-six deaths were related directly to the heat. The heat was also a contributing factor in twelve more deaths. Percentages of heat-related deaths by age group were: ages 14 and under - 1%, ages 15 to 24 - 12%, ages 24 to 34 - 3%, ages 35 to 44 - 4%, ages 45 to 54 - 10%, ages 55 to 64 - 19%, ages 65 to 74 - 26%, ages 75 to 84 - 23%, and ages 85 and above - 13%.	
									Water shortages became critical and widespread. Numerous towns as well as families hauled drinking water. Many industries had to shut down or curtail operations. Berryville (Carroll County) was one of the areas hardest hit. Estimates of economic losses related to water shortages and to missed employee wages are not included. Estimated of total damages and losses, due to the heat wave and drought exceed one billion dollars.	
CALIFORNIA										
NORTHERN & CENTRAL									NONE REPORTED	
CALIFORNIA										
SOUTHERN Mono County	13	0830-0845PDT							Strong Winds	
									Mammoth Airport reported gusts to 65-70 kts from the south.	

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SEPTEMBER 1980

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	
COLORADO											
Teller County	2	1530			0	0	3	0			Dust devil
	A strong dust devil near Florissant destroyed a small horse barn, a lean-to, and about 20 feet of fence on a farm.										
Larimer County	19	0915			0	0	0	0			High wind
	Winds gusted to 60 mph at Buckhorn Mountain, 15 miles west southwest of Fort Collins.										
CONNECTICUT											
Darien	2nd	8-10 PM			0	0	5	0			Lightning, wind
Greenwich	A home in Greenwich was struck and burned, and in Darien an attic was gutted. In New Canaan a house sustained a mighty blow as an explosion and fire destroyed a kitchen wall. In Norwalk a high school roof collapsed and a large sailboat being overhauled on land was blown over by wind. Witnesses indicated a "small twister" but it was not confirmed. In Stamford several electrical transformers were destroyed and in Stratford another attic was burned out.										
Seymour	14	?			0	2	0	0			Lightning
	When lightning struck a tree about 100 feet away two people were knocked to the ground as they watched the storm. Only a sore chest and arms were the result.										
Statewide	17-18	Late PM Early AM			1	0	3	0			Lightning
	Lightning caused extensive power outages throughout the state. In Bridgeport two buildings were hit, and sustained roof fires. In Danbury lightning made a small hole in a house roof and damaged the attic. In Manchester a strong hit caused considerable roof damage. Two residences were struck in Milford. One house lost a bedroom and its attic and the other its roof. In New Canaan several minor hits were scored. In Windsor a bolt hit a house ignited a television and caused a living room fire. This fire apparently caused the death of a 60 year old woman who was alone in bed.										
DELAWARE											
	NONE REPORTED										
FLORIDA											
Lee County	1	2:00PM EST			0	0	0	0			Waterspouts
	Waterspouts were reported near Boca Grande moving west.										
Manatee County	2	2:55PM EST	2	30	0	0	4	0			Tornado, wind
	At least one tornado touched down in Bradenton as severe thunderstorms accompanied by gusty winds moved through the area causing moderate damage in 3 mobile home parks. 14 mobile homes were reported damaged in one park, and one mobile home was blown off its foundation while another lost its roof in a second park. Two construction trailers were damaged near the second park. No injuries were reported. Property damage was estimated near \$12,000 by a Manatee County Civil Defense official.										
Manatee County	6	8:00PM EST			0	0	0	0			Funnel cloud
	A funnel cloud aloft over Bradenton was observed for 5 minutes.										
Monroe County	7	5:25 to 5:30PM EST			0	0	0	0			Waterspouts
	Waterspouts were observed about 15 miles northwest of Key West International Airport and between Sugar Loaf Key and Bay Point.										
Dade County	8	9:30AM EST			0	0	0	0			Waterspouts
	A large waterspout was reported by the Florida Marine Patrol 7 miles east of Bakers' Haulover inlet in northeastern Dade County. At 9:35 PM EST, the public reported a small waterspout east of Miami Beach.										
Broward County	9	2:30 - 3:00 PM EST	1	30	0	0	4	0			Tornado, severe thunderstorm
	A tornado touched down in Miramar during a severe thunderstorm uprooting about 150 trees and damaging several houses. A car and a van on Pembroke Road were hit by fallen trees. The severe thunderstorm also produced hail in the area. No injuries were reported.										
Dade County	9	2:30 to 4:00 PM EST			0	0	4	0			Severe thunderstorms, hail, funnel cloud
	Severe thunderstorms moved southward through the county accompanied by marble-sized hail and gusty winds to 55 mph. A funnel cloud aloft was reported over southwest Miami at 2:55 PM. A number of trees were uprooted, power lines blown down, and patio screens blown out, with South Dade apparently the hardest hit area. No injuries were reported.										
FLORIDA (continued)											
Monroe County	11	2:14 PM EST			0	0	0	0			Waterspout
	A waterspout was observed about 4 miles northwest of Key West International Airport.										
Monroe County	12	11:17 AM EST			0	0	0	0			Waterspout
	A waterspout was observed 10 miles southwest of Key West International Airport.										
Duval County	14	10:15 AM EST			0	0	0	0			Funnel cloud
	A funnel cloud aloft was reported 2 miles east of Neptune Beach.										
Hardee County	15	3:30 PM EST	1/2	30	0	0	4	0			Tornado
	A tornado touched down inolfo Springs uprooting numerous large trees, several of which fell on two automobiles and one mobile home. No injuries were reported, and no structures sustained significant damage. One witness reported seeing a funnel cloud.										
Duval County	18	4:00 PM EST			0	0	0	0			Waterspout
	A waterspout was reported near the Jacksonville Naval Air Station as a band of thunderstorms were moving through the area.										
Monroe County	26	4:02 PM EST			0	0	0	0			Waterspout
	A waterspout was observed about 3 miles north-northwest of Key West International Airport.										
Monroe County	27	11:45 AM EST			0	0	0	0			Waterspout
	A waterspout was observed 10 miles west-northwest of Key West moving toward the west.										
Escambia and Santa Rosa Counties	30	7:00 - 9:00 AM EST			0	0	0	0			Funnel clouds, waterspout
	Funnel clouds aloft were reported near the coastal sections around 7 AM EST associated with a line of thunderstorms moving through the area. A waterspout moving toward the northeast was reported over the Gulf 16 miles south of Ft. Pickens in Escambia County about 8:15 AM EST.										
GEORGIA											
Fulton County	03	9:00 p			0	0	5	0			Wind
	The Fulton County Airport tower in northwest Atlanta recorded a wind gust of 56 knots from an intense thunderstorm. Ten single-engine airplanes were blown around and damaged, and a hangar door was ripped off by the strong winds. In adjacent areas, a mobile home was flipped over, and many power lines were knocked down.										
Telfair County	06	4:30 p			0	0	3	0			Wind
	Strong winds from a thunderstorm near Milledgeville uprooted several large oak trees, one of which fell on top of a pickup truck, damaging it.										
Candler County	07	7:30 p			0	0	3	0			Wind
	A heavy thunderstorm with strong winds blew away the frame of a chicken house, and flattened a shed. The damage occurred in the Shadrock area just west of Metter off State Road 46.										
Appling County	08	3:05 p			0	0	3	0			Wind & Hail
	A tin barn near Baxley was destroyed by strong winds from a thunderstorm. Pieces of tin were found scattered up to a quarter mile away. Golf-ball size hail also fell in the area.										
Bacon County	08	3:50 ?			0	0	5	0			Wind
	A strong thunderstorm packing high winds and heavy rain destroyed 5 chicken houses, trapping 90,000 laying hens underneath the collapsed buildings. The damage occurred just west of Alma off State Road 32.										
Chatham County	08	10:30 p			0	0	5	0			Wind
	A downburst from a severe thunderstorm did considerable damage to the Georgia Ports Authority loading dock. One crane weighing about 750 tons was moved about 350 feet down a rail track which it normally moves on. The crane was in a locked position at the time and was loading a container which weighed about 50 tons. Two smaller cranes weighing nearly 100 tons each were also damaged. Five large trailer size containers were blown several hundred feet into a pile. A ship at the dock with wind equipment recorded winds of 110 knots before the wind dower was blown away. Nobody on the dock at the time saw or heard anything that would indicate a tornado. The dock is located in Garden City, two miles east of Savannah.										

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GEORGIA (continued)									
Carroll County	10	5:00 p			0	0	4	4	Wind & Hail
									Strong winds and large hail along with vivid lightning from a cluster of strong thunderstorms over the entire county resulted in scattered damage in portions of the county. At the Carrollton Airport, winds estimated at 60 knots flipped over several small aircraft. In Villa Rica, a roof was torn off the back porch of a house. Two thousand bushels of apples were lost when high winds stripped the trees near Whiteburg. Golf-ball size hail was also reported at several locations in the county. In addition, several cattle were killed by a lightning bolt near Roopville.
Houston County	10	8:50 p			0	0	5	0	Lightning
									Lightning from a thunderstorm struck a garage in Warner Robins resulting in a fire that destroyed several customized racing cars.
HAWAII									
HAWAII ISLAND									
	20-22	Midnight-late eve.					5	0	Heavy Rain
									Heavy rain caused landslides, closed highways, plugged culverts, flooded streets in Houtown Hill and affected to a lesser extent other flood-prone localities in Mountain View, Kurtistown, Pahoa and Kaunua areas -- all on the windward (eastern) side of Hawaii Island. Most of the damage occurred in downtown Hilo and included the interiors of three homes, minor damage to the exteriors of 12 others and heavy inventory losses to 2 firms in Hilo's industrial district. No report of crop or other agricultural damage was received. Damage totalled about \$70 thousand, including \$35 thousand in cleanup costs.
OAHU									
	26	3:40 pm							Funnel Cloud
									Several persons reported seeing a small funnel descending from a dark cloud about 10 miles west southwest of Hickam AFB. It lasted about 5 minutes and at no time was observed to reach the ground.
IDAHO									
Rockford-Pingree Area, Bingham County	10	7:00p			0	0	0	5	Hail
									One inch-sized hailstones caused extensive damage to some 2,000 acres of grain and hay.
Mud Lake-Montevieu Area, Jefferson County	10-13	--			0	0	0	6	Hail, Heavy Rain
									Heavy rains and hailstorms caused approximately one million dollars in damage to hay and grain crops.
Thomas Creek Drainage, Custer County	10-13	--			0	0	5	0	Heavy Rain, Flash Flooding
									Heavy rains and flash flooding carried debris and trees down the Thomas Creek drainage and left them piled 12-15 feet high in the Creek bed. The storms washed out a small dam, destroyed a bridge, and damaged many trails. Most of the damage is blamed on last year's Mortar Creek Fire, a 60,000 acre blaze that stripped the two drainages of vegetation and made them vulnerable to erosion.
Eastern Idaho	13-14	--			0	0	0	6	Heavy Rain
									Heavy rainstorms caused at least \$500,000 in damage to wheat and barley crops.
ILLINOIS									
Central and Southern sections	1	12am-4am			0	0	5	4	Wind
									Very strong winds accompanied thunderstorms that moved through the central and southern sections of the state during the early morning hours. At 12:30am a wind gust of 61 knots was reported at Colchester in McDonough County, at 1:22am a 50 knot wind was reported at Pleasant Valley in Peoria County, and at 1:30am a 52 knot wind was reported at Canton in Fulton County. The wind caused building damage, uprooted trees which crushed parked cars, and broke power lines. At 3am 2 steel grain bins were destroyed at Trenton in Tazewell County. Rather severe tree and building damage occurred in Eureka in Woodford County, at Highland in Madison County, at Kimmunity at Marich County, and at Glasford in Peoria county. In Grundy County a farm suffered \$20,000 damage as out-buildings were destroyed. Crop damage was severe in local areas.
Nettle Creek Township, Grundy County	1	midnight	1	100	0	0	4	4	Hail
									Large hail covered the ground several inches deep in a localized area. Crop damage was severe, but property damage due to the hail was minor.
Entire state	2	1am-4am			0	8	5	4	Wind
									Thunderstorms with powerful winds traveled over scattered areas of Illinois in the morning causing tree and building damage. At 3am the high winds uprooted trees which crushed several cars and a pick-up truck in Christopher, Franklin County. Building damage also occurred. In Lincoln, Logan County, building and tree damage was common. A 20ft high concrete wall under construction in Elk Grove Village, Cook County blew over injuring 8 workmen. Power failures occurred throughout the northeast area.

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ILLINOIS (continued)									
Essex, Kankakee County	2	1:00am			0	0	5	0	Lightning
									Lightning struck a church steeple and a TV tower in Essex.
Southern two-thirds of state	6	4-10pm	?	?	0	0	5	5	Wind and Hail
									Thunderstorms with winds up to 60 knots hit the southern two-thirds of the state during the afternoon and evening hours. Trees were uprooted and the strong winds caused building and out-building damage. In Beardstown, Cass County, and in Troy, Madison County, damage was rather severe. In Sandoval, Marion County, 2 grain storage bins under construction blew over. In Auburn, Sangamon County, trees were uprooted crushing cars and roofs. 7 of 20 grain storage bins blew over and were destroyed. A large amount of grain was lost. In Rushville, in Schuyler County, a 54 knot wind was reported at 9pm and at 7:50pm a 54 knot wind gust was reported at Cahokia in St. Clair County. In Mornmouth, Warren County, a 80ft section of a tent blew down.
Northeast and Central sections	7	afternoon			0	0	5	5	Wind
									Hail up to 1 3/4 inches in diameter fell on localized areas causing minor damage. At 4:40pm 1 3/4 inch hail was reported at Vermont in Fulton County, at 9:33pm 3/4 inch hail was reported near Clinton in Clinton County, and at 9:42pm 1 3/4 inch hail was reported at Mekanada in Jackson County.
Schaumburg, Cook County	7	afternoon			0	0	4	0	Lightning
									Lightning struck a home in Schaumburg causing a fire.
Northeast section	8	morning			0	0	5	3	Flooding
									Heavy rains caused some flooding in the northeastern sections of Illinois. In DeKalb, DeKalb County, and in Buffalo Grove, Lake County, the flooding caused building damage. In Grundy County a bridge and a road were washed out and 5 families were unable to leave the area of their homes due to the washed-out bridge.
Joliet, Will County	8	1:10am	10	1800	0	0	0	3	Hail
									Hail fell in a path 10 miles long and about 1,800 yards wide near Joliet in Will County. Some crop damage was reported.
Central and South-Central sections	16	5pm-10pm			0	0	5	4	Wind
									During the evening hours strong winds accompanied thunderstorms that moved through the central and south-central areas of the state. In Pekin, Tazewell County, the wind uprooted trees, damaged roofs and caused crop damage. Windows blew in at Peoria, Peoria County. Shelby County suffered out-building damage and in Hillsboro, Montgomery County, trees blocked streets. Power failures occurred in Royal Lake in southern McCoupin County. Two mobile homes were destroyed and 5 overturned. A 50 knot wind was recorded in the area.
East Peoria, Tazewell County	16	5:25pm	0.8	16	0	0	0	0	Tornado
									A tornado touched down near East Peoria and traveled 0.8 of a mile to Sunnyland (also in Tazewell County). About 20 trees were uprooted and the tornado made a 16 ft high dirt hill.
Latham, Logan County and Warrensburg, McLean County	16	6:15pm	?	?	0	0	0	0	Tornadoes
									Two tornadoes were reported to have touched down between Latham in Logan County and Warrensburg in McLean County. No damage was reported.
Southern third	22	4pm-7pm	?	?	0	0	4	3	Wind, Hail, and Heavy Rain
									Thunderstorms with heavy rain, hail, and high winds entered the southern areas of Illinois during the afternoon and evening hours. At 4:30pm a 52 knot gust was reported at East Cahondelet in St. Clair County, at 6:07pm 1 3/4 inch hail was reported at near Oraville in Jackson County, at the same time a 52 knot wind was reported at the same place. At 6:35pm a 87 knot wind was reported at the Olney-Noble Airport in Richland County, and at the same time a 87 knot wind was also reported at Fairfield in Wayne County. The powerful wind caused trees to be uprooted and also caused damage to out-buildings. Fallen trees blocked highway 159 in St. Clair County. Windows blew in and power failures were common in this area.
Richton Park, Cook County	22	2:28pm	?	?	0	0	4	0	Tornado
									A tornado briefly touched down destroying a pavilion in a park.

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INDIANA									
6 miles ENE Evansville Vanderburgh County	9	550P	-	-	0	0	-	-	Wind
Wind estimated 50-60 mph. Tree limbs down.									
LaPorte County	22	Afternoon	-	-	1	-	-	-	Wind
Truck driver killed when winds "sucked his rig out of control".									
South Bend, Mishawaka St. Joseph County	22	338P-400P	-	-	0	14	5	0	Wind, 3/4" hail
Numerous trees down. Widespread power outages. Damage to 6 to 8 houses. Injuries mostly minor with just one person hospitalized. Hail reported up to 3/4".									
Damage to Michiana Regional Airport:									
Parking booth blown over onto Volkswagen									
Hangar doors damaged									
Antennas blown over on TRACON building									
Plastic skylight blown off new terminal building									
Door to Kerns Hangar shattered causing damage to aircraft inside									
High winds pulled aircraft tie-downs from the ground causing extensive damage to both wings of one aircraft									
High winds pushed a Twin Beech across ramp into a fence damaging the tail and the right engine									
Winds blew one aircraft into another									
Total estimated in St. Joseph County: \$125,000									
Elkhart Mun. Airport Elkhart County	22	410P-415P	-	-	0	0	6	0	Wind
Tower personnel abandoned tower when wind gusts reached 98 mph. Several "H" hangars damaged or destroyed. Six planes damaged.									
Lafayette Tippecanoe County	22	430P	-	-	0	0	-	-	Wind
Wind gusts to 56 mph at Purdue Airport									
Elkhart County	22	Afternoon	-	-	0	0	?	?	Wind
Many trees uprooted. Several homes damaged.									
Peru, Grissom AFB Miami County	22	Afternoon	-	-	0	0	-	-	Wind, funnel cloud
Many trees uprooted. Power lines down.									
Warren Huntington County	22	600P	-	-	0	0	?	?	Wind, lightning
Winds overturned mobile home. Lightning set home on fire, damage to kitchen and porch.									
3 miles SW Princeton Gibson County	22	605P	-	-	0	0	-	-	Funnel cloud
Evansville Vanderburgh County	22	605P	-	-	0	0	-	-	Funnel cloud
Elnora Daviess County	22	610P	-	-	0	0	-	-	Funnel cloud
Patoka Gibson County	22	610P	-	-	0	0	?	?	Wind
Trees uprooted									
5 miles N Evansville Vanderburgh County	22	630P	-	-	0	0	-	-	Funnel cloud
IOWA									
Lakota Kossuth County	3	800P	.3	30	0	0	4	0	Tornado
A weak tornado touched down the SW edge of Lakota destroying a barn and a number of outbuildings before lifting and dissipating.									
1/2 Mile East of Lakota-Kossuth County	3	800P	1	30	0	0	4	4	Tornado
A weak tornado touched down on the east edge of Lakota and moved southeast cutting a swath through two bean fields before lifting.									
1 Mile NE Buffalo Center - Winnebago County	3	840P	.2	30	0	0	4	0	Tornado
A weak tornado touched down twisting off a tree, then destroyed a clay block corn crib before lifting and dissipating.									
IOWA (continued)									
O'Brien and Clay Counties	20	300-340P	-	-	0	0	5	7	Severe Storm (Wind Hail)
A severe storm formed in O'Brien County, moved east through Clay County. This storm produced a tornado (recorded separately), high winds and hail. High winds of 70 MPH blew down trees that fell on power lines and houses in Frimghar and Spencer. The hail severely damaged bean crops that were about to be harvested. Total damage to crops were estimated at around 8 million dollars.									
Monona, Crawford, North Calhoun, Poca- hontas, and Buena Vista Counties	20	345-440P	-	-	0	0	6	5	Severe Storm
A severe storm formed in Eastern Nebraska and moved northeast. The storm produced winds up to 75 MPH which blew down trees which fell on power lines, houses, and cars. Damage was reported in Onawa, Mapleton, Ida Grove, Nemaha, Newell, Storm Lake, Pocahontas, Fondra and Roll. Many outbuildings on many farms were also destroyed. Hail, the size of baseballs, damaged crops in NW Crawford County. In Ricketts every north and west window was broken as well as several cars' windshields were cracked.									
Spencer - Clay County	20	430P	1.5	300	0	0	4	0	Tornado
A strong tornado (F2) touched down in an industrial park and completely levelled several metal warehouse buildings before lifting and dissipating.									
2 Miles West Luverne Kossuth County to 3 Miles North Goodell Hancock County	20	535-615P	28	80	0	0	6	5	Tornado
Strong Tornado (F2) touched down on a road and picked up a car and turned it completely around. Tornado moved east picking up and rolling grain bins and damaged a roof at Luverne. Tornado moved NE, twisting off many trees and damaging many farm outbuildings and barns before lifting and dissipating.									
1 Mile South Leland - Winnebago County to 1 Mile South Lake Mills to just 1 Mile South of Emmons in Worth County	20	610-636P	13	60	0	0	6	5	Tornado
A strong tornado (F2) touched down and moved NE destroying crops and damaging 40 farms. Many outbuildings and barns on these farms were completely destroyed and many farm houses sustained damage. One house 1 Mile South of Lake Mills had the roof torn off.									
KANSAS									
Republic County	1	12:00 a - 1:00 a.	-	-	0	0	4	5	Wind, Hail
A narrow band of severe thunderstorms moved across southern Republic County with high winds and golf ball size hail. The main damage occurred in a strip 3 to 4 miles wide and about 10 miles long, east from near Norway to just west of Agenda. Crop damage was estimated at \$60,000. Property damage was \$25,000, which occurred to two trailer houses and a home.									
Butler, Douglas, Johnson, Leavenworth, Coffey, Doniphan, Miami, and Anderson Counties	12	4:30 p - 9:00 p	-	-	0	0	6	0	Wind, Hail
Scattered severe thunderstorms developed late afternoon from near Topeka to southwest of Wichita and moved eastward producing local strong damaging wind and spotty large hail with the most intense in counties as indicated in the left column. Between 4:30 p and 4:45 p, high winds blew over farm buildings and sheds near Augusta with winds measured at 70 miles per hour at the Augusta Airport. Considerable tree, property and power line damage occurred in El Dorado at 6:30 p and Garnett at 6:30 p. Damage of over \$150,000 occurred around 6:30 p south of Eudora to Vinland resulting from considerable property damage to 10 area farms and other residences and outbuildings. Widespread property, tree and powerline damage occurred from Bonner Springs to Kansas City, Kansas where total damage was over 1/4 million dollars. At least 50 homes were damaged in the Kansas City, Kansas area alone with the hardest hit area in a 60 block zone from 72nd to 78th Street, parallel to State Street. Considerable property and tree damage occurred in the Mathena and Troy vicinities between 7:30 and 8:00 p. Other significant wind damage was also reported at Burlington and Paola. Damage was mostly from wind, but golf ball size hail was reported at Lawrence at 6:25 p.									
Reno County	15	4:00 p	-	-	0	0	3	0	Wind
Near Haven, strong winds from a thunderstorm removed a roof from a farm home.									
Marion County	15	5:15 p	-	-	0	0	4	0	Wind
Destructive winds from strong thunderstorms overturned a mobile home and damaged a shed at Tulsa, 3 miles south of Marion.									
Greenwood County	15	6:45 p	-	-	0	0	4	0	Wind
The intense thunderstorms moved east and 20 miles north of Eureka. Thirty Light Company poles were blown down affecting power in 5 counties overnight.									
Clay County	16	10:37 a	-	-	0	0	0	0	Hail
Golf ball size hail at Clay Center.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1980

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	PROPERTY	CROPS	
KENTUCKY Jefferson Cy	9	7PM EDT						4			SVR TSTM
		The KY State Police reported 2 trailers overturned near Prospect.									
Henderson KY	22	7PM CDT						4			SVR TSTM
		Winds estimated at 60 to 70 mph destroyed a couple of mobile homes on the East side of the city of Henderson.									
Laurel Cy	17	5 AM						4			SVR TSTM
		High winds tore the roof off of a mobile home at Londbn.									
Oldham Cy	22	5 PM	1	30	0	0	5	4			TORNADO
		A tornado severely damaged a farm at Dempliytown and then moved in an easterly direction to Buchner where it extensively damaged one home and some farm buildings.									
LOUISIANA Gulf of Mexico, south of Grand Isle	5	3-3:30 PM CDT			1	3	6	0			Tropical Storm Danielle
		High winds and waves from the storm caused a jack-up barge to collapse. Four men were thrown into the water, however only three rescued. The fourth man was apparently killed. Some beach erosion also occurred with this storm.									
Franklin Parish	8	5:30 PM CDT			0	0	4	0			Lightning
		Lightning struck the roof of a house in Winnsboro causing a fire which did considerable damage to the roof and attic. Some water damage also occurred to the interior of the house due to heavy rain.									
St. Landry Parish	11	4:30 PM CDT			0	0	4	0			Lightning
		Lightning reportedly caused a wood frame building outside the city of Eunice to catch on fire.									
Claiborne Parish	24	Morning			0	0	4	0			Lightning
		Lightning struck the porch of a house in Raynesville, setting the rafters on fire. In addition, the lightning ruined the air conditioner and several other appliances in the home.									
MAINE Southern & Central	2	6-Midnt			0	0	0	5	C		Rain, Wind, Hail, Lightning
		Thunderstorms produced strong winds, heavy rains, and numerous lightning strikes. This resulted in local urban flooding, power outages, large hail reported at Sebago and Augusta. Strong winds took trees and power lines down in many communities. Lightning strikes set many fires, most of them small. But in Skowhegan, a storage building containing two rototillers, three lawnmowers, farm tractor machinery, and tools was completely destroyed. In Belgrade, one building burned flat, another received \$10,000 damage.									
Searsport, Waldo County	14	10:30-11p			0	0	3	0			Lightning
		A bolt of lightning struck a house blasting drywall from framing of an interior wall, tearing casing off a door, and knocking out electricity in the neighborhood.									
Camden & Rockport, Knox County	22	3:30-4:30p			0	0	3	0			Lightning
		Thunderstorm passing through the Camden-Rockport area produced numerous lightning strikes. In Camden, lightning hit a house causing a small fire in the cellar. At Rockport, a bolt of lightning struck the Police Department red network alarm system, touching off several alarms.									
MARYLAND & D.C. Craysonville, Queen Annes County	5	7:00 a-8:00 a			0	0	0	0			Rain
		Very heavy shower activity...some amounts in the 100-year-storm category...as 4.13 inches reported in the Craysonville area. Up to 3 inches of rain occurred at other observation stations in the central Eastern Shore region. No damage of significance was apparent.									
MASSACHUSETTS Cheimsford Littleton Tewksbury	1	evening			0	3	4	0			Lightning
		In Cheimsford seven buildings were hit - two of which sustained serious damage. In Littleton a house sustained eight thousand dollars damage from an attic blaze. A bolt struck a Tewksbury house zapping a woman using the telephone and shocking her two daughters as blasts emerged from the electrical boxes flying all about the house.									
Bernardston Pownal	2	evening			0	0	4	0			Lightning, wind
		In Bernardston lightning blew a chimney out and in Pownal wind blew down a large tree onto a home's addition which housed a pottery kiln.									
Acushnet Fitchburg Hampden Paxton Uxbridge Westfield	18	11-2 AM			0	0	3	0			Lightning
		As a man retired to bed in Acushnet, he felt lightning shock and found a house wall on fire. In Fitchburg a phone booth was blown up by lightning. In Hampden two houses and a VFW Post were hit and sustained minor damage. A house in Paxton was struck and sustained an attic fire. As an Uxbridge couple rose out of bed to view the storm lightning struck and burned their bed. Two garages were ignited in Westfield.									
MICHIGAN Twin Lakes, Houghton County.	3	night				1					Lightning
		Man electrocuted while using telephone.									
Area bounded by Cedar River, Iron River, Ontonagon, Calumet, Ishpeming, and Crystal Falls.	8	8:00PM-midnight						4			Thunderstorms
		Boathouse destroyed at Hancock. Highway washout and mudslide near Crystal Falls. Minor wind and lightning damage to trees, power lines and buildings throughout area. Tornadoes listed below were part of this storm.									
2 S L'Anse, Baraga County	8	9:20PM			0	0	0				Tornado
		Narrow path of extreme damage through forest, with some trees twisted out of ground, found several days later. Time estimated from radar data.									
3 W Witch Lake, Marquette County	8	10:45PM			0	0	2				Tornado
		Cabin damaged and over 40 acres of trees destroyed. No one witnessed the storm. Time estimated from radar data.									
Just west of Suttons Bay, Leelanau county.	9	1:30AM						5			Lightning
		Barg filled with equipment and antiques burned.									
East Mancelona, Antrim county.	9	4:00AM						4			Lightning
		House burned.									
Area south of Grand Haven, Ithaca, Caro, and Port Huron.	22	1:45PM-6:00PM			0	6	6				Thunderstorms
		Two persons injured in falling mobile home at Constantine. Two persons picked up and dropped by wind at Camden. Two persons struck by flying objects near Monroe. Highest wind and greatest damage in northern Allegan county. 80 mph wind at Saugatuck. Winds elsewhere mostly 50 to 65 mph. School partly unroofed at Hillsdale. Aircraft flipped over at Tecumseh. Factory unroofed at Adrian. Window washers' scaffold torn from Renaissance center tower in Detroit - Power outages, downed trees, minor damage to buildings and vehicles throughout area. Lightning and waterspout listed below was part of this storm.									
3 N Lyons, Ionia County	22	7:30AM									Lightning
		Barr and contents burned.									
1 N Saugatuck, Allegan County	22	1:45PM									Waterspout
		Observed by baster over mouth of Kalamazoo River.									
Spring Lake, Ottawa County	22	afternoon			1	0	0				Lightning
		Power for respirator interrupted. Patient died.									
MINNESOTA Kittson County	5	12:00 p	8	*1	0	0	5	5			Hail
		Hail to tennisball size accompanied by winds in excess of 70 mph caused extensive damage over the county. In the Kennedy area, many business places received roof damage, and nearly every automobile, trailer, camper and boat in the storm's path was damaged. There was extensive damage to farm outbuildings in northern sections of the county, where at least five barns were destroyed by the strong winds.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MINNESOTA (continued)									
Melrose Stearns County	3	5:49 p	1	150	0	0	6	0	Tornado
	This tornado was first observed as a funnel in the Meire Grove vicinity five miles southwest of Melrose. Moving from southwest to northeast, the twister first touched down on a turkey farm in the suburbs, swept diagonally across Meadowlark Country Club, through town and exited on the northeast corner of the community, near the senior high school. The duration was approximately four to five minutes. Sirens alerted residents five minutes before the touchdown so there were no injuries. However, a filling station was demolished, six business sites heavily damaged, and there was damage to nearly 100 homes and apartment buildings as the tornado blew off roofs, broke windows, uprooted trees and knocked down power lines. Estimated damage was \$2.5 million.								
Duluth vicinity St. Louis County	3	6:00 p	?	?	0	0	4	0	Wind
	Winds clocked as high as 65 mph hit the Duluth area. The most severe part of the storm passed through the area to the north and west of the airport. Damage was confined mainly to power blackouts and downed trees, but there was also minor flooding due to heavy rains.								
Freeport Stearns County	3	6:03 p	?	?	0	0	1	0	Tornado (0-0-0)
	Tornado moving from southwest to northeast touched down briefly at Freeport, returned to cloud, and dissipated.								
Avon Stearns County	3	6:10 p	?	?	0	0	1	0	Tornado
	Tornado, moving from southwest to northeast touched down briefly at Avon, and continued northeast as a funnel cloud over St. Stephen.								
St. Cloud Stearns County	3	6:36 p	5	60	1	15	7	0	Tornado
	A tornado, moving from southwest to northeast, first touched down at a mobile home park, Bel Clark Acres, located five miles southwest of St. Cloud. Returning aloft for two miles, the tornado again touched down at Angus Acres, a subdivision three miles southwest of St. Cloud, at 6:40 pm. At this point, the tornado again returned to the cloud, continuing northeast for two miles more before touching down once again in western St. Cloud at 6:44 pm. The tornado then skipped across, partially aloft, through northeastern St. Cloud. Damage was extensive and included the following: At Bel Clark Acres, 15 mobile homes were destroyed and many others damaged, there was 1 death and 15 injuries; at Angus Acres in Waite Park, 165 homes were damaged with 6 single family homes, 14 mobile homes and 16 apartments destroyed; in St. Cloud 60 homes were damaged. Total dollar amount in damages in the St. Cloud metropolitan area was nearly \$9 million.								
Foley Vicinity Benton County	3	6:40 p	1	50	0	0	5	0	Wind
	Winds in excess of 70 mph caused extensive damage on several area farms. These downburst winds were undoubtedly continuations of the Stearns county tornados to the southwest, but did not touch ground as a tornado and never came nearer than 10 feet from the ground. Damage was confined to farm outbuildings and houses. Dozens of trees were uprooted or broken.								
Wright County	3	7:00 p	?	?	0	1	5	0	Wind
	Winds in the 70 to 80 mph range caused damage over much of the county. Heaviest damage was confined to Buffalo, consisting of fallen trees and branches, twisted docks, mangled tennis court fence and damage to roofing. The roof of a hay shed was blown off by high winds in nearby Monticello, and deposited 50 to 75 yards away. As the winds hit the Ostego area in northern Wright county at approximately 7:15 pm, roofs were ripped off of several houses and a trailer home flattened. An occupant of the trailer received a cut lip requiring several stitches, but there were no other injuries. In the Maple Lake Area, several trees were snapped off and shingles torn off a church.								
Hutchinson vicinity McLeod county	3	7:05 p	?	?	0	0	5	0	Wind
	Winds exceeding 70 mph caused extensive damage to Hutchinson area farm buildings. Destroyed were a wooden silo, a garage, a corn crib and a shed. Damage was also heavy on neighboring farms with many trees and branches broken.								
Faribault Vicinity Rice County	3	8:25 p	4	*1	0	0	0	5	Hail
	Widespread hail of golfball size accompanied by winds exceeding 50 mph caused extensive crop damage as far north as Dundas in northern Rice county.								
MINNESOTA (continued)									
Hastings Dakota County	3	8:30 p	?	?	0	0	5	0	Wind
	Winds estimated at 80 mph destroyed a school bus garage in the city of Hastings. Strong winds blew the pole building off its foundation collapsing the side walls and settling the roof down upon 18 school buses parked within. There was minor damage to some of the buses but the building was a total loss. There was also scattered damage, mainly trees, throughout the city, and some reports of damage at the Hastings Marina. Power was interrupted for as many as 2500 customers when a Northern States Power feeder line was downed during the storm.								
Martin and Faribault Counties	3	8:45 p	4	50	0	0	5	0	Wind
	Winds estimated at between 70 and 80 miles an hour began in east Martin county and moved eastward into Faribault county. A barn was blown apart near Granada, some boards of which were stuck into the ground. A few fences and trees were blown over. At Huntley, there were downed power and telephone poles as the storm continued eastward. In Faribault county, as the wind passed over a basement home, ashes were sucked from the fireplace and a locked door was pushed in; it's locking device splintering the door frame. At this same building site, a section of the roof was removed and water damage resulted. Eight large oak trees were toppled. Winds apparently continued eastward through southern Minnesota counties.								
Minneapolis/St. Paul Metropolitan Area	19	3:30 p	?	?	0	1	6	0	Hail
	A thunderstorm with golfball to baseball sized hail, and winds greater than 50 mph battered the Twin Cities Metropolitan Area late Friday afternoon. Damage to cars was extensive with numerous reports of cracked and shattered windshields, as well as body damage. There was 75 to 95 percent damage to St. Paul greenhouses due to broken or cracked glass. Northern States Power reported power outages to 6,000 to 7,000 customers. Stillwater was one of the hardest hit areas where more than a dozen large trees fell on homes, destroyed porches and cans, knocked down wires and blocked streets. A St. Paul jogger caught in the storm had a cut head and bloody face as a result of the pelting hail.								
Wabasha, Houston and Winona Counties	20	6:30 pm	?	?	1	0	6	4	Flash Flood, High Wind, Hail
	A low pressure area moving east into Minnesota merged with another low pressure area moving northeast from Iowa on Saturday the 20th. Almost continuous rain fell in southeast Minnesota producing flash flooding over much of southern Wabasha, Winona and Houston counties. Eight to 11 inches were estimated, most of it falling in a 2-hour period Saturday night. Water roared down gulleys and valleys swelling and overrunning the creeks. The flash flooding destroyed seven bridges, two dams, two houses and one barn. Sections of highway pavement were washed out, mud slides were extensive and many culverts were washed out. Six Winona county highways were impassable. One fatality - a 65 year old man was swept away by flood waters when he went down to a creek to watch the flooding. Damage to public property was estimated at one million dollars in Houston and Winona counties.								
Blue Earth, Waseca and Freeborn Counties	20	7:00 p	?	?	0	0	4	3	Strong wind and rain
	Thunderstorms with strong winds and rain damaged farm houses and buildings. Falling trees knocked out electrical power for up to 9 hours in several communities. Waseca county reported an estimated \$7,150 in damages.								
MISSISSIPPI									
Mississippi Sound	17	720a			0	0	0	0	Waterspout
	A waterspout was reported by Harrison County Civil Defense 3 miles south of Ocean Springs.								
St. Louis Bay	17	845a			0	0	0	0	Waterspout
	A waterspout was reported 3 miles north of Bay St. Louis.								
MISSOURI									
Sullivan County, MO Nodaway County, Platte County, Daviess and Grundy County	2	7:45PM (Evening hours)				1			Severe thunderstorm
	Severe thunderstorms with funnel cloud reports were common across portions of NW Missouri. However, damage was light. High winds downed a large tree limb which caused minor injuries to a woman in Osmond, Missouri in Sullivan County. Heavy rains of 2.00 to 3.25 inches fell in Daviess and Grundy County with no serious flooding. Farm buildings were damaged near Pattonsburg, Missouri.								

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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	
MISSOURI (continued)									
Benton County, Sedalia County, Pettis County, Johnson County and Camden County	2	8:15 PM							Severe thunderstorm
									Severe thunderstorms with high winds produced golf ball size hail at Green Ridge, Missouri with several trees blown down. Scattered power outages were reported. Sixty (60) MPH winds in Sedalia, Missouri at 8:15PM. Golf ball size hail 5 miles south of Camden, Missouri at 5:30PM.
Marion County	5	7-9:00AM Midmorn- ing			0				Severe thunderstorm
									A line of severe thunderstorms downed trees and power lines around Hannibal, Missouri.
Pike County	5	8:30AM							Severe thunderstorm
									High winds downed trees and power lines in Louisiana, Missouri.
Barry County	8	4:30PM Afternoon							Severe thunderstorm
									Thunderstorms with high winds moved across a rural area just east of Monett, Missouri downing trees and ripping roofs from farm buildings. A mobile home was overturned east of Monett.
North Central, MO Livingston County Grundy County Linn County	12	Evening							
									Thunderstorms and high winds moved across north central Missouri causing power outages and downed tree limbs. Some damage to buildings.
Jackson County Platte County Buchanan County Andrew County Ray County DeWitt County	12	6:00PM Night			4				Severe thunderstorm
									Thunderstorms and high winds caused damage to buildings, smashing windows and uprooting trees in the Kansas City and St. Joseph, Missouri Area. Four members of the Handy S. Myers family reported minor injuries when high winds demolished their mobile home in rural Savannah, Missouri. Eighty (80) to ninety (90) MPH winds were reported in St. Joseph. High winds damaged small buildings and downed trees in and around Gallatin, Missouri.
Cooper County	16	Afternoon							Severe thunderstorm
									High winds damaged trees in the Booneville, Missouri Area.
Callaway County Camden County	16	Evening							Severe thunderstorm
									Thunderstorms with high winds downed trees, limbs and power lines around Fulton, Missouri with minor damage. Golf ball size hail in northern Camden County.
Boone County	16	Evening							
									Baseball size hail just east of Columbia, Missouri. Tree limbs down in Columbia.
Howell County	16	7:50PM							Severe thunderstorm
									Windstorm blows large tree into house near West Plains, Missouri. Minor damage in the area.
St. Louis Area St. Louis County Jefferson County St. Charles County Warren County	16	Night							Severe thunderstorm
									Thunderstorms produced wind gusts to 65 MPH in the Greater St. Louis Area downing trees and power lines. Other minor wind damage was reported in the Penton and Festus, Missouri Area. Marble to golf ball size hail at Warrenton, Missouri.
St. Louis Area St. Louis County	22	Late Afternoon			2				Severe thunderstorm
									Severe thunderstorms moved thru the southern portion of the Greater St. Louis Area downing tree limbs, trees and power lines. Roads were closed due to tree limbs and wires. Roofs were blown off buildings in the suburb of New Haven. A young woman and her 2 year old daughter were slightly injured when a large tree was toppled onto their car by strong winds in Oakville, Missouri.
St. Louis Area Jefferson County	22	4:30PM							Severe thunderstorm
									A south county (St. Louis) shopping center was damaged by the high winds. Downed trees blocked several roads and bridges in St. Louis County.
St. Francois County	22	Late Afternoon							Severe thunderstorm
									Extensive wind damage to a service station in Bonne Terre, Missouri.
Franklin County	22	3:30PM							Severe thunderstorm
									Wind damage at New Haven, Missouri.
Dent County	22	3:30PM							Severe thunderstorm
									Golf ball size hail Dent County.
Polaski County	22	Afternoon							Severe thunderstorm
									Two dozen vehicles were damaged by a wind and hail storm at Fort Leonard Wood, when the roof blew off a warehouse. Trees were uprooted or damaged during the storm.

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	
MONTANA									
Lake County	13	Evening	-	-	0	0	5	0	Strong Winds
									Strong winds caused six foot waves to smash boating docks and sink boats on Flathead Lake
NEBRASKA									
Knox, Antelope, and Pierce Counties	1	7:15 PM			0	0	4	4	Damaging Winds and Hail
									High winds and three quarter inch hail downed trees and power lines and damaged crops especially around Creighton.
Madison County	1	7:40 PM			0	0	3	3	Damaging Winds
									Wind gusts to around 65 m.p.h. in thunderstorms downed power lines and caused some crop damage around Norfolk.
Dixon County	3	7:30 PM			0	0	?	?	High Winds
									Winds gusts to 60 m.p.h. in thunderstorms around Ponca. No damage was reported.
Douglas County	5	1:15 AM			0	0	2	2	Hail
									Three quarter inch hail fell in and north of Omaha causing minor crop and property damage.
Gage County	12	6:20 PM			0	0	0	4	Hail
									Hail up to 1 inch in diameter fell just north of Beatrice northeast across the county. Damage to crops only.
Lancaster County	16	9:00 PM			0	0	4	0	Lightning
									Fire started by lightning damaged a home in Lincoln.
Wayne, Thurston, and Gering Counties	19	10:40 PM			0	1	5	7	Damaging Winds and Hail
									High winds in thunderstorms blew down storage bins and farm buildings, tore roofs off of homes, rolled over two trucks and downed trees and utility lines. Hail with the storm dented cars and farm equipment and broke windows. Most concentrated damage was in a swath from 5 miles west of Pender thru Walt Hill. A truck driver was injured near Pender when his truck was overturned by the wind.
Gering County	20	3:00 PM			0	0	3	2	Damaging Winds
									Thunderstorm winds downed trees and utility lines in and around Wisner.
Dodge County	20	3:35 PM			0	0	3	2	Damaging Winds
									Winds estimated to 70 m.p.h. caused scattered property damage around Fremont.
NEVADA									
Mesquite	9	1630			0	0	5	5	Severe Thunder- storm
									Heavy rain and strong winds (Reported to be Hurricane force)
NEW HAMPSHIRE									
Statewide	2	6-11p			0	0	0	C	Rain, Wind, Hail, Lightning
									Thunderstorms produced strong winds, heavy rains, and numerous lightning strikes. This resulted in local urban flooding and power outages. Hardest hit were Grantham, Cornish, and Dorchester. Hurricane force wind and marble-sized hail took trees and power lines down in Grantham. In Cornish, a windstorm with hail larger than half dollars took the roof off a barn, ruining the hay in the barn. The wind tore the bottom of a silo out of 8 inches of cement and crumbled sections of the metal structure. At Dorchester, high winds damaged roofs, moved buildings off foundations, and uprooted trees. Lightning strikes set many fires, most of them minor. But in Bristol a sawmill burned to the ground with damage approximately \$250,000. In Newport, a barn 70' x 13' burned flat.
Plaistow, Rockingham County	25	2-2:30a			0	0	4	0	Lightning
									Lightning bolt hit an underground conduit supplying the main power to Timberland High School. The entire cable had to be replaced which necessitated school being closed for one day.
NEW JERSEY (Coastal)									
	15	a.m.			0	0	0	0	Thunderstorm
									The rain accompanied by a thunderstorm was the first precipitation in the area in nearly a month. The lack of rain has caused the reservoirs to fall to such a low level that a state of emergency was declared with strict controls of water usage.
NEW MEXICO									
Southeastern New Mexico, mainly Eddy County	25- 26	Continuous			0	0	?	?	Heavy rain, flooding rain
									Continuous moderate to heavy rain disrupted traffic and activities over a wide area. Two-day rainfall totals ranged from more than three inches in Carlsbad area to more than eight inches at Queen Ranger Station in Ogdalup Mountains. All arroyos and normally dry water courses were bankful and many roads and streets impassable. A few evacuations in rural areas.

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					KILLED	INURED	PROPERTY	CROPS	
NEW YORK COASTAL Extreme Southeast, Nassau, Suffolk Co., Metropolitan Area	17-18	p.m. a.m.			0	0	0	0	Sudden downpour, lightning, windy
	The parched metropolitan area and surrounding areas got its biggest downpour measuring almost an inch of rain since August 2nd when only twenty-four hundredths of an inch fell. The overnight total of one and a half inches of rain was not enough to solve the problem. Residents of upstate Rockland and parts of New Jersey are under strict conservation orders banning them from washing cars, watering lawns, or serving water in restaurants unless requested. The lack of rain does not seriously affect the city of New York because it has larger and more numerous reservoirs.								
NEW YORK CENTRAL AREA WIDE	1	7A-11A 9P-10:30P			0	0	4	°C	THUNDERSTORMS
	EARLY MORNING AND LATE EVENING THUNDERSTORMS CAUSED MANY PROBLEMS. LIGHTNING, STRONG WINDS AND HEAVY RAIN CAUSED MANY DOWNED TREES AND POWERLINES WITH NUMEROUS POWER OUTAGES. HEAVY RAIN TOTALED ALMOST TWO INCHES IN MANY AREAS FOR THE TWENTY-FOUR HOUR PERIOD. MANY STORM SEWERS COULD NOT HANDLE THE HEAVY RAIN IN THE CLOUD BURSTS AND CAUSED FLOODING OF SEVERAL BUSINESSES AND PRIVATE HOMES								
AREA WIDE	2	3P-9P			0	5	5	°C	THUNDERSTORMS
VERY HEAVY THUNDERSTORMS WITH HEAVY RAIN AND WINDS GUSTING TO 50 MPH UPROOTED AND TOPPLED MANY TREES. IN ADDITION, FREQUENT LIGHTNING CAUSED POWER OUTAGES, HOUSE FIRES AND INJURED SEVERAL PEOPLE. ONE MAN WAS STRUCK BY LIGHTNING IN SYRACUSE, ONONDAGA COUNTY AS HE WAS REPAIRING A TRAILER. A WOMAN IN TICONDEROGA, ESSEX COUNTY, HAD A CB MIKE EXPLODE IN HER HAND DUE TO LIGHTNING. A WOMAN TALKING ON A TELEPHONE IN SARATOGA COUNTY WAS INJURED WHEN LIGHTNING HIT THE PHONE LINE. ANOTHER MAN IN THE SAME COUNTY WAS HIT BY LIGHTNING WHILE IN HIS BASEMENT, AND THROWN TWENTY-FIVE FT.									
SEVERAL AUTOS AND PRIVATE HOMES WERE DAMAGED BY FALLEN TREES. A SCHOOL ROOF IN DUTCHESS COUNTY WAS SEVERELY DAMAGED BY THE STRONG WINDS AND FURTHER DAMAGE RESULTED FROM THE HEAVY RAIN. A TREE FELL ON A TRAILER IN ONONDAGA COUNTY, INJURING A WOMAN INSIDE. HAY WAGONS AND SMALL BUILDINGS IN SOME AREAS WERE ALSO OVERTURNED BY THE WIND. HAIL WAS REPORTED IN SPOTTY LOCATIONS. HEAVY RAIN COLLECTED ON THE ROOF OF A BUILDING IN WHITEHALL, WASHINGTON COUNTY, CAUSING IT TO COLLAPSE UNDER THE WEIGHT OF THE WATER, DUMPING WATER AND DEBRIS INTO TWELVE APARTMENTS.									
NEW YORK WESTERN Mayville in Chautau- qua County	9/2	9AM							4 Lightning
	A strong lightning bolt struck a tree and ploughed a furrow as it followed the tree's roots which extended to a house 35 feet away. It then entered an electrical outlet, scorched the walls and floors where electrical lines ran. It blew out a window, knocked down the clockboards, TV and stereo. The effect of the bolt was felt 3/4 of a mile away.								
Phelps in Ontario County	9/2	Afternoon			1		3		Wind
A severe thunderstorm with strong winds toppled a tree which fell atop a car with passengers. A child was severely injured and two others suffered shock.									
Castile in Wyoming County and Portland Chautauqua County	9/2	Early morning						4	Lightning
Lightning ignited and leveled barns.									
Dunkirk & Fredonia in Chautauqua County	9/2	Early morning						4	Lightning
Lightning struck transformer fuses and electrical lines and caused blackouts to many residential areas.									
Buffalo, Sweethome, Cheektowage in Erie County	9/14	Morning						4	Rain & Lightning
A thunderstorm with heavy rain and lightning ignited a house fire in Buffalo. Basement flooding resulted in many homes due to the heavy rain.									
Rochester in Monroe County	9/14	Morning						4	Lightning
Lightning struck and downed power lines and rendered 9500 consumers without power for several hours.									
Kiantone, Gerry & Gusti in Chautauqua County	9/14	Morning						3	Lightning
There were power outages to many electrical consumers for several hours due to broken power lines.									
NORTH CAROLINA		SEE END OF TABLE							
NORTH DAKOTA Crystal (Pembina County)	8	9:00 a CST			0	0	4	5	Wind
	Winds of 60 to 70 mph uprooted or broke several hundred trees, broke windows, and damaged many sunflower fields.								
OHIO Lorain County	4	115pm			0	0	4	0	High Winds
	A thunderstorm with 60 mph winds crossed the county doing considerable damage in the southern half of the county. Trees and lines were downed and several roofs were damaged.								
Franklin and Licking Counties	4	315pm			0	0	5	0	High Winds
A thunderstorm with 60 to 65 mph winds crossed these counties downing trees and lines and damaging several buildings. Hardest hit were the Columbus and Newark areas.									
Morgan County	4	4pm			0	0	4	0	High Winds, Lightning
Trees and utility lines were downed by 60 mph winds which accompanied a thunderstorm that crossed the county. Lightning strikes started several fires in the county.									
Hillsboro, Highland County	9	545pm			0	0	5	0	High Winds, Heavy Rain
Winds to 65 mph and over 1 1/2 inches of rain accompanied a thunderstorm in this area. The winds downed trees and lines and took off 4 roofs. Heavy rain flooded several streets and basements.									
Muskingum County	9	7pm			0	3	5	0	High Winds
A thunderstorm with strong winds damaged several homes along SR 146 near Zanesville. Also a mobile home travelling along SR 146 was overturned by the wind injuring its three occupants.									
Ottawa, Erie, Huron and Lorain Counties.	13	3pm - 4pm			0	0	5	0	High Winds, Lightning
A line of severe thunderstorms with 60 mph winds and frequent lightning strikes crossed these counties. Numerous trees and lines were downed and several buildings were damaged.									
Trumbull County	13	410pm			0	0	4	0	High Winds
A thunderstorm with 60 mph winds downed trees and lines and damaged four homes.									
OKLAHOMA Near Collinsville, Tulsa County	1	3:00 p.			0	1	4	0	Wind
	Winds likely in excess of 50 knots caused damage in an area centered 3 miles south of Collinsville on US highway 169. Plate-glass windows and a door at a service station were broken. The front porch of a lumber store was torn off. Several storage sheds were damaged or destroyed. One man was injured in his pickup when it was blown into a lumber yard. A parked and empty semi-trailer was blown over on its side. A church and several mobile homes also sustained damage.								
Near Jones, Oklahoma County	1	4:30 p.							Funnel cloud
Bixby, Tulsa County	2	5:30 a.- 6:00 a.			0	2	0	0	Lightning
Two teenagers received minor injuries when they were struck by separate lightning bolts. Both were standing next to an automobile during a strong electrical storm.									
Sulphur, Murray County	2	4:00 p.			0	3	5	0	Lightning
A probable lightning caused fire destroyed 75 percent of a one-story elementary school building. The fire occurred two hours after classes were ended, however three firemen received minor injuries in fighting the fire.									
Near Fort Sill Army Base, Comanche County	8	2:55 p.- 3:00 p.	2 1/2	50	0	0	0	0	Tornado
Fort Sill Army Base Tower personnel observed a small tornado touch down in open country approximately 6 miles east of the Tower. The tornado moved toward the north and was on the ground 5 minutes. No damage occurred.									
Near Pawhuska, Osage County	9	2:00 p.			0	0	4	5	Lightning
A lightning caused fire destroyed a pole barn and 40,000 bales of hay on a ranch approximately 2 miles southeast of Pawhuska.									
Near Coweta, Wagoner County	16	5:00 p.- 6:00 p.	2 1/2	*1/4	0	0	5	0	Tornado, wind
A probable tornado touched down about 8 miles north-northeast of Coweta at approximately 5:25 p.m. and moved toward the east-north-east. Light to moderate tree damage covered a width of up to 1/2 mile along sections of the 2 1/2 mile path length. One home was destroyed and others severely damaged. Six homes or outbuildings received lesser damage. Straight or possibly tornadic winds uprooted a business 2 miles north of Coweta at 3:13 p.m.									
Vinita, Craig County	16	5:00 p.			0	0	4	0	Wind
Strong winds partially uprooted a radio station building. Several outbuildings or storage sheds were damaged. Several trees were uprooted.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1980

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	
OKLAHOMA (continued)									
Shidler, Osage County	24	10:30 p.			0	0	4	0	Wind
			Strong thunderstorm winds caused scattered damage including one business damaged, one garage destroyed, one storage shed destroyed, two trees uprooted and power line damage. A number of homes received minor damage.						
Pashuska, Osage County	24	11:10 p.			0	0	?	0	Hail
			Hailstones up to golf ball size. No damage reported.						
Bartlesville, Washington County	24-25	11:30 p. - 24th - 12:30 a. - 25th			0	0	5	0	Wind, hail
			One business and a city-owned stadium sustained heavy roof damage. Contents of a downtown department store were damaged when plate glass windows blown out. An airplane was flipped over at the airport. Numerous homes and businesses sustained minor damage. Power lines damaged by large broken tree limbs. Winds were estimated at 70 m.p.h. and damage was spread throughout the city. Golf ball size hail was also reported.						
Near Wright City, McCurtain County	28	12:45 p.			1	0	4	0	Flash flood
			A woman was drowned when the car in which she was riding stalled on a bridge covered by flood waters two feet deep. The car was swept into the creek despite the efforts of a pickup which tried to push the stalled car across the bridge. The death occurred on Cypress Creek. Rainfall totals over a 3-day period in the area ranged from 9 to 12 inches.						
Nowata, Nowata County	28	11:50 p.			0	0	?	0	Hail
			Hailstones ranged up to one inch in diameter. No damage reported.						
OREGON									
Eugene (livestock Lane Co. market)	6	3 PM						4	Whirlwind
Harney County	6-7							UNK UNK	Lightning Fires
Central Oregon (near Bend) Deschutes County	18	Early morning						UNK UNK	Lightning killed a horse and caused numerous small fires
PACIFIC									
			NO DATA RECEIVED						
PENNSYLVANIA									
EASTERN									
Northern half plus Cumberland and Franklin Counties	2	4 PM to 11 PM EDT			0	0	4	0	Wind, Electrical, Heavy Rain
			Although thunderstorms moved across most of Eastern Pennsylvania, damage was mostly confined to the north and Franklin and Cumberland Counties. Wind gusts brought down trees and tree limbs which damaged utility lines, buildings and at least one automobile. Lightning also damaged utility lines as well as starting several fires. Over 5 thousand customers had their power interrupted. Heavy rain-fall caused roadway flooding in some sections, especially in the Williamsport area.						
Southeast Penna.	14-15	10 PM to 1 AM EDT			0	0	5	0	Electrical, Wind
			Southeast Pennsylvania from Lancaster to Northampton Counties and southeast was hit by thunderstorms. Lightning resulted in at least 10,000 power interruptions and several building fires. A barn and a large supply of straw and hay were destroyed in one fire near Mohrville, Berks County. There also was a minor fire caused by lightning in a home in Shickshimy, Luzerne County. Wind gusts destroyed several barns and smaller buildings on a farm near Maytown, Lancaster County.						
Northeast bounded by Bucks to Berks to Columbia to Bradford Counties	17	7 PM to 11:30 PM EDT			0	0	4	0	Wind, Electrical, Heavy Rain
			Lightning strikes caused power outages and several fires leaving one barn completely gutted. Near Barto, Berks County, lightning striking in a pasture killed 3 pigs and a horse. Heavy downpours accompanied the thunderstorms in a few locations resulting in spotty roadway flooding. Although wind damage was only spotty, considerable damage occurred along a six-mile path in West Rockhill and Hilltown townships in Bucks County. Quite a few trees were uprooted, a farm building and a garage had portions of their roofs blown off and a building in a commercial orchard was almost completely destroyed. In addition to these areas, some tree damage also was reported in the Gettysburg area.						
PENNSYLVANIA WESTERN			NONE REPORTED						
PUERTO RICO									
Jayuya	27	4:00 p. - 6:00 p.			0	0	5	0	Flash Flood
			A number of convective thunderstorms formed during the late afternoon over the central interior border areas. One of the stronger cells remained stationary just south of Jayuya and dumped 4.30 inches of rain over the town in a little over an hour. A cooperative observer located closer to the ridges reported 8.69 inches for a 24 hour total the next morning. A small creek running into the Rio Grande del Jayuya went out of its banks for about an hour. Water entered several small houses near the creek and some furnishings were damaged. Heavy erosion also fell several utility poles and considerable damage was sustained by coffee plantations in the area. A number of landslides occurred.						
RHODE ISLAND			NONE REPORTED						
SOUTH CAROLINA									
Marion, Marion County	3	1745					4		Windstorm
			Strong winds associated with a thunderstorm caused significant roof damage to one home and knocked a tree down on a fence. Also several trees were uprooted or snapped off a few feet above the ground. Some of the trees caused minor problems to several homes.						
Kiawah Island, Beaufort County	6	Late PM (After-noon)			1	1			Lightning
			Two men and their wives standing under a shed at a golf course during a thunderstorm. The lightning appeared to hit the men simultaneously. Their wives went around to the other side and were not harmed. They did not see the lightning.						
Draytonville Community, Cherokee County	8	2030					1 5		Windstorm
			A severe thunderstorm moved through this area with very strong winds that did extensive structural damage to a mobile home that had tie downs and major damage to a turkey farm. Trees were uprooted and one man was injured in the mobile home as he was pinned in a chair when a wall fell on him. He suffered puncture wounds, multiple cuts and bruises and chest pains.						
Sumter, Sumter County	17	1625 & 2030					4		Lightning
			Lightning caused two fires in the Sumter area. Two homes received significant structural damage with minor damage to the contents.						
Statewide	28-29-30	Continuing							Minor Flooding
			Five inches to seven inches of rain fell over the state in just over 72 hours. River flooding was at a minimum in most cases due to pre-existing dry conditions.						
SOUTH DAKOTA									
9 Miles Southwest of Hudson, Union County	3	620 PM							Hail
			Golf ball sized hail. No damage reported.						
Alcester, Union County	3	635 PM							Hail
			Golf ball sized hail. No damage reported.						
Vermillion, Clay Co.	6	800 PM							Hail
			Golf ball sized hail.						
Extreme Northeast corner of Roberts Co.	27	Late Afternoon					4		Hail
			Golf ball sized hail. Some crop damage.						
TENNESSEE									
Seymour, Sevier County	1	5:00 p.					4		Winds
			Winds with a thunderstorm damaged two buildings of the Seymour High School and disrupted electric power to an estimated 2500 persons. The school buildings were also damaged by rains which fell after the damage was done to the roofs.						
Cookeville, Putnam County	4	Aftn					4		Lightning
			Lightning was believed the cause of a fire at a home in Cookeville. The lightning apparently traveled into the house through a large television antenna in top of the house. The fire was confined to the attic, but caused extensive damage. Winds with the same thunderstorm downed a large tree causing traffic problems for a short time.						

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					KILLED	INJURED	PROPERTY	CROPS		
TENNESSEE (continued)										
Jackson, Madison County	4	1:30 p.					3		High winds	
									A thunderstorm produced wind gusts estimated to 70 miles an hour as it moved across McKellar Field (Jackson Airport). Several airplanes were damaged, and one hangar door was blown from its mountings damaging an auto parked nearby.	
Lewisburg, Marshall County	4	4:00 p.					4		Lightning	
									A thunderstorm sparked three house fires in an hour.	
Bristol, Sullivan County, and Bristol, VA, Washington County	4	5:00 p.					5		Flash flooding, hail	
									A thunderstorm struck the Bristol area bringing winds, hail, and heavy rain that caused extensive flooding in the downtown area of Bristol, VA. Beaver Creek, which runs through downtown Bristol, rose rapidly, setting off the flash flood alarm. The creek crested around 5 feet. Some of the worst damage occurred in Mobile Mansions Park where flood waters ripped up chunks of asphalt and carried cars 200 to 300 feet along the street. One resident of the park reported hail to 1-1/2 inches in diameter at the peak of the storm. In North Bristol, Kingtown Creek swept out of its banks into a residential section. A church suffered heavy damage when 26 inches of water inside the building knocked one wall about three feet off the foundation.	
Martin, Weakley County	7	12:15 a.				?	?		Hail, winds, lightning, minor flooding	
									One-inch hail and winds estimated to 45 miles an hour were reported in Martin with a thunderstorm. Lightning with the storm destroyed a chimney on a house and caused two tree fires. Heavy rains which accompanied the thunderstorm caused minor flooding in Martin when rains could not runoff properly.	
Northeast Lincoln County	23	3:30 p.							Funnel cloud, hail	
									A funnel cloud was observed in northeast Lincoln County moving northeast. The same storm also dropped marble-size hail in Lotts, a small community in Moore County near the Lincoln County line.	
Winchester, Franklin County	23	3:30 p.					3		Hail, wind	
									Winds and half-inch hail accompanied heavy rains with a thunderstorm Tuesday afternoon. Though the winds were estimated below 40 miles an hour, several power poles were downed by trees which fell during the storm.	
Athens, McMinn County	23	Late Aftn					5		High wind	
									A thunderstorm produced high winds causing trees to fall and destroying several roofs. Most heavily damaged was the Plastic Industries building. The Athens Stone Works sustained some roof damage and windows were also broken. Trees became victims of the high winds pulling down power lines as they fell. Several homes were damaged when trees fell onto them.	
Vann Town and Lincoln Community, Lincoln County	24	12:30 p.					?		Lightning	
									Lightning was blamed for fires at two residences. Both fires were described as causing minor damage.	
Greeneville, Greene County	24	7:00 p.					4		Heavy rains	
									Heavy rains with a thunderstorm overloaded the drainage system in Greeneville causing flooding of several downtown businesses. The heavy rains were also blamed for the cave-in of a concrete wall at the public swimming pool.	
TEXAS										
NORTHERN										
15 Southwest Vernon, Wilbarger County	1	5:30 p.				0	0	3	0	Windstorm
									Thunderstorm winds toppled power line poles and blew over out-buildings near the community of Lockett.	
Groesbeck, Limestone County	1	6:15 p.				0	0	3	0	Windstorm
									A portion of a roof on a dance hall was ripped off by thunderstorm gusts. No other damage was reported.	
Hamlin, Jones County	1	Evening				0	0	3	0	Windstorm
									Strong thunderstorm winds destroyed several storage sheds and some maintenance equipment at the cemetery on the southeast side of Hamlin.	
Duncanville, Dallas County	2	8:45 p.				0	0	4	0	Lightning
									Lightning caused a major fire and \$14,000 damage to a Duncanville home.	
TEXAS (continued)										
NORTHERN										
Concho and McCulloch Counties	8	Morning				0	0	5	0	Flash Floods
									As a result of several days of heavy rain, scattered flash flooding occurred mainly in southern Concho and southwestern McCulloch Counties. The rains were generally beneficial but some scattered rural ranch damage was reported. Some areas reported as much as 8 inches of rain with most stations reporting 4 to 5 inches.	
1 W Benbrook, Tarrant County	8	3:50 p.				0	0	0	0	Funnel Cloud
									Police reported that the funnel cloud dissipated without touching down.	
Concho and Runnels Counties	9	Day				0	0	?	?	Flash Floods
									The remnants of Tropical Storm Danielle continued to plague west-central Texas on September 9th. Rainfall amounts of up to 9 inches filled drought-stricken lakes and stock tanks but some damage also occurred to area roads and several homes. An unknown number of livestock drowned in the flash flood waters. At least one bridge was washed out in Concho County.	
Wolf City, Hunt County	17	Midnight				0	0	5	0	Lightning
									Lightning struck and set fire to a garage which housed four school buses. The garage and buses were destroyed, resulting in a loss of about \$70,000.	
Pilot Point, Denton County	17	Midnight				0	0	5	0	Lightning
									Lightning set fire to and burned one home to the ground in Pilot Point. The fire spread to an adjacent house and gutted the contents.	
Longview area, Gregg County	18	3:00 p-6:00 p				0	0	4	0	Windstorm
									A series of thunderstorms caused scattered, mostly minor wind damage to the Longview area. The roof of an apartment building was partially removed and numerous reports of sign, power line, and tree damage were received.	
South Jericho Community, Shelby County	18	Evening				0	0	4	0	Windstorm
									Thunderstorm winds destroyed a large broiler house and uprooted trees on a farm in South Jericho. Several cattle were killed by falling trees.	
Northern Denton County	18	7:45 p-8:45 p				0	0	4	0	Windstorm and Funnel Cloud
									A funnel cloud was sighted between Pilot Point and Mustang at 7:45 p.m. Thunderstorm-spawned winds damaged several farms from 8:30 p.m. until about 8:45 p.m. in the Krum area. One farm home received minor damage while several barns were heavily damaged by the winds.	
Wichita Falls, Wichita County	23	4:30 a.				0	0	2	0	Lightning
									Lightning caused a \$500 fire in the attic of a southeastern Wichita Falls home.	
Honey Grove, Fannin County	25	2:00 a.				0	0	4	0	Lightning
									A lightning-set fire destroyed a home on Route 1, South of Honey Grove.	
Carrollton, Dallas County	25	2:05 p.				1	0	0	0	Lightning
									Fourteen-year old Daryl Ellis was struck and killed by lightning while walking from a school bus stop to his home. Nobody witnessed the strike but a very loud clap of thunder was heard. Also, the commonly seen "dendritic tree", a reddened leaf-shaped burn area was noted on the victims body. Ellis was still alive when found 30 minutes after the strike, but he died shortly thereafter in a hospital.	
Talco, Titus County	25	Afternoon				0	0	4	0	Windstorm and Lightning
									Thunderstorm winds partially unroofed a home in Talco. Minor damage also resulted from several lightning strikes to Talco area homes. Marble size hail accompanied the storm but apparently did little or no damage.	

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (continued)									
NORTHERN Northern and Western North Texas	26-29				0	0	7	7	Flooding
	<p>Scattered thunderstorm activity on the 24th and 25th turned to general rains across all of North Texas on the 26th through the 29th. The steady rains were accompanied by occasional heavy thunderstorm activity. Rainfall amounts of 4 to 7 inches were common over North Texas, with accumulative totals of 10 to 14 inches being reported at some points in a belt from west and north of Abilene, into the Wichita Falls area, and eastward along the Red River Valley. The rainfall was extremely beneficial after the hottest and one of the driest summers of record in North Texas. Lakes, stock ponds and fields all benefited from the rains. However, heavy damage also occurred. Heavy flood and flash flood damage was reported in Haskell, Jones, and Throckmorton Counties on the 27th and 28th, with creek floodwaters receding slowly on the 29th and 30th. However, river flooding continued on these dates in western North Texas. Most of the damage in these counties was to agricultural interests and rural roads. Heavy damage to homes occurred in Hamlin (Jones County) on Sunday the 29th, with some home flooding damage also occurring in Stamford (Jones County) and the Lake Stamford (Haskell County) area. Minor damage resulted in other areas, including Taylor and Coleman Counties.</p> <p>Flooding also affected areas from near Graham (Young County) northward to Wichita Falls with minor flood problems arising from Wichita Falls eastward along the Red River border counties. Over 13 inches of rain fell in the Wichita Falls area and some flooding damaged homes in the Holiday Creek area on the 27th and 28th.</p> <p>Further south and east, minor creek and urban flooding affected the Dallas/Fort Worth area and surrounding counties also on the 27th and 28th. Accumulative rainfall amounts in the Dallas/Fort Worth metropolplex were generally in the 5 to 8 inch range. By late on the 28th and the 29th, the heavy rains moved into northeast Texas. Some additional flooding, mostly of a light to moderate nature, occurred with these rains on the 29th, particularly in Bowie and Cass Counties.</p>								
TEXAS SOUTHERN					NO DATA RECEIVED				
TEXAS WESTERN Tahoka, Lynn County	1	5:30p			0	0	?	?	Hailstorm
	<p>A cold front weakened as it moved southeastward across the Texas Panhandle into the South Plains. By late afternoon it became stationary along a line from Plains to Plainview to Childress, with showers developing along the southern end of the front. Very strong thunderstorms first appeared in northeastern Terry County and moved slowly eastward. As they crossed the City of Tahoka near 5:30 p.m., they began to produce marble-sized hail. The hail covered a strip from 6 miles east of Tahoka to near Grassland, some 12 miles to the east. Spotty rains were reported to have been as heavy as 4 inches in portions of the hail path, but no flooding or flood damage was noted. No damage estimates were available.</p>								
Southern West Texas	8-10				0	0	7	6	Flooding
	<p>Late on the evening of the 8th, the remains of Tropical Storm Dohielle entered the southeastern portion of Western Texas. This storm system had already produced very widespread heavy rains from the Texas Coastline across South and Central Texas. Rain developed just southeast of San Angelo in the eastern portion of the Concho Valley approximately 8 a.m. on the morning of the 9th. Light to moderate rain continued sporadically through the remainder of the day, tapering off in the Concho Valley area during the afternoon of the 9th. The first reports of flooding came from Coke County where very heavy rain caused extensive flooding near midnight on the 9th.</p> <p>The flooding, in turn, caused the city water line in Robert Lee to rupture, cutting off most drinking water to the city. Mountain Creek crested at 15 feet with water causing considerable damage at the city golf course. Minor damage was reported to several homes in the northern portion of the city and Highways 208 and 158 were closed for several hours.</p> <p>As the rain area expanded, flooding began in Tom Green County at about 9 a.m. on the morning of the 9th. Three to 4 inch rains had been reported generally around the county at this time with an additional 3 to 4 inches to fall by early evening. More than 75 roads and low water crossings in Tom Green County were flooded with several farm roads remaining closed through the 10th.</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	
TEXAS (continued)									
WESTERN									
	<p>Telephone lines to nearly 2,000 people were out and rescue operations to numerous stranded motorists were made very difficult by the loss of communications. City shelters were made available to a number of citizens. As runoff from Pecan Creek continued into Lake Nasworthy, flood gates had to be opened. A very dangerous situation developed when a school bus from Christoval became stranded in southern Tom Green County on Susan Peak Road. The bus had approximately 20 aboard. Fortunately, the water receded and no one was hurt. Among the more travelled highways flooded by the high water were FM1223, FM380, FM388, FM853, FM765, FM2084, FM684, Texas Highways 158 and 208 and U.S. 87.</p> <p>The rain area spread further northwestward during the day of the 9th, with over 9 inches of rain reported in Mitchell County, with the south and east portions of the county reporting the most devastating damage. One woman escaped unhurt when her car was washed up against a fence near Loraine. An empty school bus was also stranded on a bridge near Colorado City but no damage occurred. The extensive and intensive rain caused a 19-foot rise on Lake Champion and for the first time, Big Silver Creek went over the bridge across it. Highway 208, FM982 and FM544 were blocked near Loraine with considerable damage reported to Highway 208. An electric company truck was swept away by flooding waters near China Grove, but no one was injured. Lightning strikes caused power outages over much of Colorado City and heavy damage was reported to cotton crops near the city.</p> <p>In Nolan County, to the east, 10 inch rains forced the evacuation of some 300 residents of Roscoe. A church was flooded and the water supply damaged. An even more significant problem occurred when the flooding waters threatened the city sewage system and portable toilets had to be brought into the city. Estimates of half a million dollars damage were received from Nolan County with 85 homes seriously damaged and another 460 slightly damaged. Numerous roads were closed including a portion of Interstate 20 near Roscoe.</p> <p>By the morning of the 9th, flooding had also developed west of the San Angelo area to near Midland. Seven inch rains were reported in Crane County with a bank, a church and several schools flooded. In addition, numerous cars were stalled in the high water.</p> <p>To the north of Crane County, Howard, Glasscock and Martin Counties reported general rains of 5 inches by midday on the 9th. The earliest flooding was reported at 8:40 a.m. on Highway 821 near Porsan in the southeast portion of Howard County. Street flooding was also reported in Big Spring, Howard County; Stanton, Martin County; and in Garden City, Glasscock County. Heaviest rains reported were 10 inches just south of Garden City where extensive erosion of the soil occurred.</p> <p>During the afternoon of the 9th and the morning of the 10th, widespread 5 to 6 inch rains developed in Midland, Ector and Andrews Counties. Only brief flooding in the rural portion of Southeastern Andrews County was reported, although considerable urban flooding occurred in both Midland and Ector Counties. Several cars were stalled in the City of Midland when Wadley-Barron and Cowden Park flooded. Most major streets in Midland were flooded briefly. No flooding of homes occurred. Odessa was not so fortunate as some 40 homes were flooded and a trailer park and housing addition were virtually buried by tons of debris. Several families were evacuated near Highway 385, south of Odessa. Two families living south of Odessa were evacuated by boat. Their pet dog, refusing to leave, drowned. Several motorists were stranded in Odessa with damage reported to at least 10 cars, 4 mobile homes and 5 welding rigs. Portions of Tom Green, Maskingum, Diddle, West County Road and Andrews Streets suffered the worst flooding.</p> <p>Four to 8 inch rains were also estimated to have occurred in the Big Bend Park area, according to satellite photographs, on the night of the 9th. No flooding was reported and no damages were indicated.</p>								
Seminole, Gaines County	25	11:15a	1	20	0	0	0	0	Tornadoes (3)
	<p>An amateur radio operator observed a small funnel cloud at the base of a small thunderstorm 12 miles west of Seminole. The funnel was rapidly joined by two others, forming a cluster of three. After a period of 2 to 3 minutes, the three funnels dipped downward becoming a cluster of three small, rope-shaped tornadoes. They were in open country and caused no known damage. The three dissipated after approximately 2 minutes. A brief period of heavy rain accompanied the tornadoes.</p>								
El Paso, El Paso County	25	3:00p			0	0	4	0	Flooding
	<p>An upper-level low pressure area situated to the southwest of El Paso for over 24 hours caused widespread light rain and rain showers over the city for several hours. Although total rainfall was between 1 and 2 inches, runoff produced flooding in the northeastern portion of the City. Mesa Street and Socorro Road along with Highway 20 were underwater. A few cars were stalled along a portion of Highway 20 in the Lower Valley. There was also some minor house flooding and one trailer park reported water 3 to 4 feet deep.</p>								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1980

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)									
WESTERN									
Post, Garza County	27	1:30p			0	0	4	0	Lightning
Lightning struck an electric substation inside a manufacturing plant at Post knocking a bridge mill out of operation. Nearly 160 employees were laid off for three days. A number of small fires were also started by the lightning.									
Fisher, Mitchell, Nolan, Scurry Counties	24-29				0	0	6	5	Flooding
A weak and shallow cold front moved southward into the Texas Panhandle on the morning of the 24th. It continued to weaken as it moved southward, finally becoming stationary in extreme southwestern Texas. Low-level winds remained southerly even after frontal passage, overrunning the colder air mass and causing widespread light to moderate rain and rain showers. Particularly hard hit by the rain were the Counties of Fisher, Mitchell, Nolan and Scurry. Previous heavy rains during September 9 and 10 had caused flooding and some of the effects were still visible as the second period of heavy rain developed. The rain began to fall in the four county area on the night of the 24th, with the first report of problems coming from the City of Roscoe on the morning of the 27th. Rainfall amounts appear to have been rather uniform, with less than one-half inch reported on the 24th and between 2 inches and 2.50 inches on each of the 25th, 26th, 27th and 28th. The rains ended on the 29th.									
The sewage system in the City of Roscoe which had been threatened by rising waters on September 9th was once again in danger of being contaminated. Volunteers were recruited from the surrounding area to aid in raising the sandbag dikes. The additional rain caused another \$250,000 damage to the sewage system while the erosion of farmland cost \$325,000 in damages. An additional 50 homes were flooded and several residents were evacuated in Roscoe. The sewage system was finally repaired and ready for use at the beginning of October.									
Damage in Fisher County was generally confined to roads and bridges with the total damage figure estimated at \$750,000. Minor damage was reported to stock tanks and to the soil due to erosion.									
Scurry County reported \$400,000 damage to agriculture, mainly due to diversion terracing and tanks and small dams washed away. Some soil erosion also was reported.									
The worst damage in this latest heavy rain event occurred in Mitchell County, as a result of 7 to 9 inch rains over the county area, the Colorado River, Morgan, Wild Horse and Willow Creeks swelled out of their banks on the morning of the 29th. Water from Lake Colorado City flowed over the emergency spillway. The Colorado River crested at 28 feet above normal at 3 p.m. on the 29th. The flooding ended at 1:30 p.m. on the afternoon of the 30th. Water threatened a bridge over Cherry Creek where Interstate 20 crosses Morgan Creek. Numerous streets and highways were flooded, including FM1982, FM163, Highway 80 and Interstate 20. Some 30 miles of the Interstate sustained damage. Portions of Front Street in Colorado City were inundated and streets in the Sand's area and at Cypress and 16th Street were flooded. Several homes were damaged on Cherry Creek and a mobile home park on Lake View Avenue was inundated. In all, some 75 to 80 homes were damaged. Several motorists were stranded as underpasses and streets flooded during the morning and evening at Colorado City. Estimates of flooding damages were put at \$500,000 with agriculture losses due to crop damage and soil erosion to run much higher.									
UTAH									
Garfield, Iron and Washington Counties	7-11								Flooding
Heavy rains on saturated ground caused flooding with some associated flash flooding. Damage was confined to roadways and some support structures and bridges.									
Garfield - \$52,000									
Iron and Washington - \$15,000									
VERMONT									
Rutland, Windsor and Orange Counties	2	6p-			0	1	5	3	THUNDERSTORMS
THUNDERSTORMS WITH HEAVY RAIN AND STRONG WINDS MOVED THROUGH CENTRAL VERMONT, FLATTENING SEVERAL HUNDRED ACRES OF WOODLAND, DAMAGING NUMEROUS HOUSES AND ONE AIRPLANE, BLOWING OVER A SILO, AND INJURING A TENT CAMPER. MANY AREAS WERE WITHOUT POWER BECAUSE OF FALLEN TREES AND POWERLINES. THE TENT CAMPER, INJURED BY A FALLING TREE, WAS A WOMAN AT A CAMPGROUND IN RUTLAND COUNTY. A CORNFIELD WAS ALSO FLATTENED BY THE WIND WHICH WAS UNOFFICIALLY CLOCKED AT 60 MPH. SEVERAL AUTOS, IN ADDITION, WERE REPORTED DAMAGED BY FALLEN TREES.									
VIRGINIA									
Southwestern	2	Evening			0	0	5	0	Rain
Up to 2 inches of rain in less than one hour fell in some sections. Local flash flooding caused damage to businesses and homes, along with some washed-out roads.									
Suffolk	7	Morning			0	0	5	0	Lightning
Three yearling horses were struck and killed by lightning as they stood in an open field.									
Northern	14	Afternoon & Evening			0	7	5	0	Wind, Hail
In the Tenth Legion community, Rockingham County, farm buildings were demolished by winds during a severe thunderstorm, accompanied by marble-sized hail, around 1:30PM. In Fairfax County 15 units of an apartment building were damaged as winds blew out windows, tore out balconies and sent 7 persons to hospital treatment of minor injuries, as winds gusted to 64 mph around 5:30PM. Fallen trees damaged property and disrupted power over sections of Fairfax and Arlington Counties, and also in the Richmond area.									
Prospect (nr), Prince Edward County	17	6:50 p			0	0	4	0	Lightning
Lightning apparently set fire to electrical wires with the resulting fire gutting a pre-Civil War home. The family dog was electrocuted, but otherwise there were no injuries.									
VIRGIN ISLANDS									
NONE REPORTED									
WASHINGTON									
NO REPORT RECEIVED									
WEST VIRGINIA									
Statewide	2	aftn. & eve.			0	0	3	3	Thunderstorm winds
Heavy thunderstorms produced large amounts of rain, small hail and strong winds in many areas. A 55 mph wind gust was reported at Martinsburg in the eastern panhandle where power was interrupted for several hundred people.									
Northern W. Va.	4	aftn. & eve.			0	0	3	2	Thunderstorm winds
A line of strong thunderstorms entered northwestern counties during the late afternoon reaching the northern mountains before dissipating late Thursday evening. High winds uprooted several trees. Urban flooding and scattered power outages were also reported.									
Raleigh county	4	800pm			0	0	0	0	Hail
An isolated thunderstorm dropped 3/4 inch hail at Cabell Heights, 6 miles west of Beckley.									
Northern W. Va. Randolph county	14	eve. 14 700pm			0	0	3	0	Thunderstorms Hail
Heavy thunderstorms moved across northern counties Sunday evening. Scattered power outages and urban flooding were reported in Randolph county. 3/4 inch hail fell both at the airport and in the town of Elkins.									
WISCONSIN									
Waunakee, Dane County	01	0015			0	0	5	0	Electrical
A large modern barn was destroyed by lightning caused fire.									
Northeastern Douglas County	03	2100	8	80	0	0	4	?	Tornado
A tornado dipped down 1 1/2 miles south of Highway 2 on Highway 53, damaged many trees and moved north-eastward. It then damaged a mobile home, house and two barns near Highway 8 and County Road R, 8 miles to the northeast. The track was irregular and continuous only for a small part of the 8 mile track.									
Burnett County	03	2130			0	1	5	0	Wind
High winds swept the county causing damage mainly in the Webster area. One barn was destroyed, injuring one person.									
12 South of New Richmond, St. Croix County	03	2230			0	0	5	0	Wind
High winds destroyed a mobile home and large barn. Five farm animals were killed.									
River Falls, Pierce County	03	2240			0	0	5	0	Wind
Winds, estimated at 80 mph, damaged the roofs of 12 houses and destroyed 3 barns.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1980

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)									
Rice Lake, Barron County	03	2325			0	0	?	?	Wind
									50 to 70 mph winds were reported by police.
Blair and Southern Trempealeau County	04	0005-0020			0	0	4	?	Wind, Hail
									60 mph winds and golf ball sized hail damaged trees and broke many windows.
South Half of Richland County	07	0100-0120			0	0	4	?	Wind, Hail
									70 mph winds and small hail downed power lines across the south half of Richland County, especially in Richland Center.
Arena area, Iowa County	07	0130			0	0	4	?	Wind, Hail
									70 mph winds and golf ball sized hail damaged trees and broke windows.
Waukesha, Waukesha County	07	0300			0	0	5	0	Electrical
									Lightning caused fire destroyed a house.
Janesville area, Rock County	07	0700-0800			0	0	5	0	Electrical
									Intense lightning storm resulted in 10 house fires.
Strongs Prairie Township, Adams County	07	Morning			0	0	4	0	Electrical
									Lightning killed a herd of 25 dairy cattle.
Montello, Marquette County	07	Morning			0	0	4	0	Electrical
									Fires caused by lightning destroyed two buildings.
Saratoga, Wood County	08	2330			0	0	5	?	Wind
									High winds toppled trees which damaged 10 houses and 6 garages, mainly in the Crescendo Courts area.
Southern Portage County	08	2350			0	0	4	?	Wind
									40 to 70 mph winds damaged hundreds of trees in forests in the vicinity of Bancroft in southern Portage County.
Oshkosh, Winnebago County	09	0000-0200			0	0	4	0	Wind
									50-80 mph winds downed many trees and caused 1-4 hour power outages.
Plymouth, Sheboygan County	13	0030			0	0	5	0	Electrical
									A large modern barn was destroyed by a lightning caused fire.
Twin Lakes Park, Kenosha County	16	1330			0	0	5	0	Electrical
									Lightning caused house fire.
Southern Jackson County	20	0210			0	0	5	?	Wind, Hail
									70 mph winds and golf ball sized hail were reported from numerous rural locations across southern portions of the county. Many trees and power cables were downed.
Mindoro, LaCrosse County	20	1930			0	0	3	?	Wind, Hail
									Damaging winds broke many trees. Hail up to 1/2 inch broke several windows.
Marathon County	20	2100-2200			0	0	5	0	Electrical
									Two large, modern barns were destroyed by lightning caused fire.
Hollandale, Iowa County	20	2200			0	0	5	0	Electrical
									A large, modern barn was destroyed by lightning caused fire.
Mattoon, Shawano County	20	2315	.5	?	0	0	5	?	Tornado
									A tornado damaged several buildings, then disappeared.

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)									
Wisconsin Rapids, Wood County	20	2350			0	0	5	0	Electrical
									House fire caused by lightning.
									Much above normal July rainfall and record heavy rainfall in August set the stage for major flooding across west central and southwestern Wisconsin in September when locally excessive rainfalls occurred again on the following dates: 3, 4, 7, 8, 13, 16, 19, and 20. Minor river and stream flooding occurred in Buffalo, Clark, Dunn, Jackson, LaCrosse, Monroe, Taylor, Trempealeau and Vernon Counties on the 4, 8, and 14. Then, 5 to 9 inches of rain deluged the same area on the 19 and 20 and significant flood and flash-flood conditions developed. Private roadways suffered the most damage, but county and state highways also suffered. Mud slides, soil erosion, agricultural losses due to ponding of water in fields, and flooded buildings (mainly in Black River Falls, Galesville and Owen) added to the damage total. One drowning death occurred in Sparta (Monroe County) on the 20th. Dollar damage by county: Buffalo \$100,000; Clark \$1,900,000; Dunn \$200,000; Jackson \$420,000; La Crosse \$770,000; Monroe \$450,000; Taylor \$1,500,000; Trempealeau \$140,000; and Vernon \$30,000.
Southwest and South Central	04 08 16 19 20				1	0	6	6	Flooding and Flash Flooding
WYOMING									
Yellowstone Park	2	?			0	0	0	0	Winds
									Yellowstone Park officials reported winds averaging 94 mph on Mount Holmes in west Yellowstone Park. No damages were reported.
Crook County	11	5:00 p.			0	0	6	0	Hail
									Golf ball-size hail, 2 to 5 inches deep in places, devastated the Moorcroft area in about twenty minutes. Schools, dwellings, businesses and automobiles suffered great damages. Trees were stripped and gardens were destroyed.
NORTH CAROLINA									
Winston Salem, Foreyth Co.	24	8:40 P.M.			0	6	5	0	Wind/Hail
									A severe thunderstorm moved northeast through downtown Winston Salem. Winds were estimated at 75 mph, with 1/2 inch hail. Six minor injuries occurred and a part of a roof from a building was blown into the front of a bus. Power outages from downed power lines and some lowland flooding occurred during heavy rains.

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
					KILLED	INJURED	PROPERTY	CROPS	
THE FOLLOWING ARE LATE REPORTS, CORRECTIONS, AND DELETIONS:									
LATE REPORTS COLORADO									
AUGUST 1980									
Prowers County	30	1900			0	0	4	5	Hail
An intense hailstorm hit an area in Prowers County north of Lamar. The hail damaged several cars, trucks, and homes, and destroyed roofs of two buildings at the Lamar feed yards, while knocking out 60 windows on the premises. Many crops in the area were wiped out by the storm, which had hailstones up to golf ball size.									
OKLAHOMA									
Antlers area, Pushmataha County	27	4:00 p.			0	0	4	0	Wind
A grocery store and its contents were heavily damaged. Several barns were destroyed. Some trees uprooted.									
OREGON									
NONE REPORTED									
TENNESSEE									
Alexandria, DeKalb County	29	1:45 p.	3/4	40	0	0	4		Tornado
A small tornado struck quickly damaging several buildings along Main Street and through the square. Damage was heaviest at the old school gymnasium, but most of the buildings along Main Street suffered broken windows or torn roofs and trees were uprooted. On the square, parts of the roofs of several businesses were blown off. Several cars parked near these businesses were damaged by flying debris.									
WISCONSIN									
Southern Green and Southern Rock Counties	02	0850-0930			0	0	5	?	Wind
60-80 mph winds broke down trees and power lines. 6 houses and 4 barns sustained major damage in the Durand and Lake Somerset areas. (Green County)									
Pleasant Prairie, Kenosha County	02	0945	2	1200	0	0	5	5	Hail
1/2 to 2 inch hail bombed the town and surrounding fields. Many aluminum-sided structures were dented, and 16 windows were broken. Peppers, corn, soybean and tomato crops were destroyed.									
Ozaukee, Waukesha, Milwaukee, Walworth, Jefferson, Racine, and Kenosha Counties	04	1700-2030			0	1	6	?	Wind, Hail, Rain Electrical
Four waves of severe thunderstorms swept the area. 50 to 80 mph winds were general, with some higher gusts in a few places. Hundreds of trees and power lines were downed. All counties reported 1/2 to 1 1/2 inch hail in numerous locations. 93 mph winds at Waukesha Airport at 1740 demolished 2 hangars and 17 small airplanes. 3 homes in Waukesha City and 2 homes in Milwaukee were partially unroofed by winds. 92 mph winds were recorded at Kenosha Airport at 2020. Four inches of rain in 4 1/2 hours produced minor flash flooding in Waukesha and northern Milwaukee Counties. 2 house fires in Waukesha and 1 in Milwaukee were attributed to lightning. A falling tree injured one person in Ottawal Township (Waukesha County).									
Northern Milwaukee, Milwaukee County	04	1730	.01	20	0	0	5	0	Tornado
A brief tornado touched down at 9363 N. 75th Street and destroyed the roof and steeple of a church.									
Fond du Lac, Fond du Lac County	04	2020	.4	35	0	0	5	0	Tornado
A tornado damaged an apartment complex in southeastern Fond du Lac at 526 Sherwood Avenue, moved northeast about 1,000 feet damaging several houses, then lifted.									
3 Miles East of Janesville Airport, Rock County	04	1937			0	0	?	?	Funnel Aloft
Waterford, Racine County	06	2330			0	1	0	0	Electrical
Lightning struck a camp site injuring one person.									
LATE REPORTS WISCONSIN (continued)									
AUGUST 1980									
Northwestern Wisconsin	06	1800-2230			2	0	6	4	Wind
50 to 90 mph winds occurred in numerous scattered locations across Sawyer, Burnett, Washburn, Polk, Barron, Rusk, St. Croix, Dunn, Chippewa, Taylor, Eau Claire and Clark Counties. About 125 rural structures were damaged. The south half of Washburn County was hardest hit. 80 to 90 mph winds struck the area from Highway 63 just south of Shell Lake eastward to Birchwood between 2000 and 2050. A barn collapsed and killed one man near Cobmer, 9 miles east of Siren in Burnett County at 2100. Another man was electrocuted at 2040 by fallen power lines in Birchwood (Washburn County). About 60 head of livestock were killed in Polk, Barron and Rusk Counties.									
Boulder Junction, Vilas County	07	0300			1	0	?	?	Wind
A girl was crushed by a tree which fell during a heavy thunderstorm.									
Dodge and Northern Jefferson Counties	07	0400-0500			0	0	5	?	Wind
50 to 80 mph winds pulled down about 500 trees in the two county area. 30 houses and many cars sustained damage. Beaver Dam and Watertown reported the greatest damage.									
Dodge, Columbia Counties	07	1130-1230			0	0	5	5	Wind
70 mph winds caused damage to many rural structures and to the county tobacco crops. The Princeton and Redgranite areas were hardest hit.									
Lebanon Area, Dodge County	07	1250	5	?	0	0	5	?	Tornado
A tornado moved from just north of Watertown to Highway MM just west of Lebanon. Several barns and homes were damaged.									
Washington, Waukesha Counties	07	1410-1440			0	0	4	?	Wind, Hail
Winds estimated at 70 mph and 3/4 inch hail hit scattered areas of the counties. Many trees and power lines were downed.									
Vernon County	07	1600			0	0	?	4	Wind, Hail
1/2 to 1 1/2 inch hail and 60 mph winds between Viroqua and Westby damaged tobacco crops.									
Richland Center Area, Richland County	07	1610			0	0	?	?	Wind, Funnel Aloft
40 to 60 mph winds damaged roofs in Richland Center, and a funnel cloud was sighted just south of Richland Center.									
Southern Wisconsin	07-08	1900-0400			0	0	4	5	Wind, Hail, Electrical, Rain
Clusters of thunderstorms, producing strong winds and hail, moved across the south third of the state. Minor river and stream flooding occurred in Sauk, Columbia, Richland, Iowa, Grant and Crawford Counties. Tree and crop damage occurred in scattered areas of Sauk, Columbia, Dane, Dodge, Jefferson, Waukesha and Milwaukee Counties. Lightning caused 6 house and barn fires in Dale County.									
Crawford, Vernon Counties	08	0800-1200			0	0	?	?	Rain
Minor flooding occurred along creeks and streams. Numerous county roads were closed by high water.									
Baraboo Area, Sauk County	08	0320			0	0	3	?	Wind
70 mph winds downed trees and power lines.									
Western Pierce County	10	2055			0	0	5	4	Wind, Hail
Damaging winds and 1/2 to 1 inch hail swept across Oak Grove and Diamond Bluff Townships. Numerous rural structures were damaged, and the corn crop was hit hard.									
Soldiers Grove Crawford County	10	2230			0	0	5	0	Electrical
Fire caused by lightning destroyed a church.									
Shawano, Brown, Kewaunee, Door Counties	19	0000-0230			0	0	6	?	Wind, Rain, Electrical
Winds of 40 to 70 mph, 1-4 inches of rain, and intense lightning racked the area. A large barn and 2 houses were destroyed by lightning caused fires and 6 cattle were killed by lightning. Flash flooding resulted in numerous minor highway washouts in Brown County. Several minor landslides occurred in the hilly town of Kewaunee (Kewaunee County).									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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	
LATE REPORTS WISCONSIN (continued)									
AUGUST 1980									
Buffalo, Trempealeau, Monroe, Jackson, Wood Counties	19	0215-0330			0	1	5	5	Wind, Rain, Electrical
50 to 80 mph winds and 1-3 inches of rain struck scattered sections of the counties. Sparta and Tomah (Monroe County) and Marshfield (Wood County) were hardest hit with 70-80 mph winds. A Sparta man was seriously burned by a fallen power line.									
6 South of Eagle River, Oneida County	19	0330			0	0	4	0	Electrical
Lightning killed 9 horses.									
3 West of Livingston, Grant County	19	0330	.8	?	0	0	5	?	Tornado
A tornado touched down on County Highway 8, 3 miles west of Livingston, destroyed 2 houses, 2 barns and several smaller structures. The tornado moved northeast and disappeared.									
Medford, Taylor County	19	2345			0	0	5	?	Wind, Funnel Aloft
High winds toppled hundreds of trees and damaged 6 buildings. 12 funnel clouds were sighted by numerous residents.									
Marshfield Area, Wood County	20	0030			0	0	4	?	Wind
40 to 80 mph winds damaged many trees, and power lines and one barn. Electric outages of 1 to 4 hours occurred.									
Wood County	20	1830-1850			0	0	?	?	Wind
Many trees down in forested rural sections of western Wood County at 1830 and in eastern Wood County at 1850.									
Frederic, Burnet County	24	0550			0	0	4	0	Electrical
A house was destroyed by a lightning-induced fire.									
Colfax, Dunn County	24	Afternoon			0	0	5	0	Electrical
Four cattle were killed by lightning.									
Waunakee, Dane County	30	2030			0	0	5	0	Electrical
A large modern barn and farm equipment were destroyed by a lightning-caused fire.									
August rainfall ranged from 4 to 8 inches across southern Wisconsin, 7 to 14 inches in central sections, and 3 to 8 inches in the north. Several locations established new August rainfall records. Rivers in central and southwestern areas remained high during the entire month, and exceeded flood stage on the following dates: 7, 8, 9, 10, 11, 12, 13, 19, 25, 26 and 27.									
CORRECTIONS NEBRASKA									
JUNE 1980									
Hall and Hamilton Counties	3	7:30 PM -10:30 PM			5	200	8	6	Tornadoes
A series of 7 tornadoes caused widespread destruction from 4 miles northwest of Grand Island southeast thru Grand Island to south of Phillips. In Grand Island where the 5 deaths and the majority of the injuries occurred, 700 businesses and homes were destroyed and 8000 suffered moderate to heavy damage. Heaviest destruction in Grand Island was concentrated along South Locust Street where cars were flung into the air. hail to 1 1/2 inches accompanied the tornadoes. Forty farms suffered damage to property and crops mainly in a 16 square mile area northwest of Grand Island to near and south of Phillips.									
The thunderstorm system which spawned the 7 erratic moving tornadoes was complex and very slow moving holding in the area nearly 3 hours.									
The following information is regarding the seven tornadoes mentioned above.									
Hall County	3	7:45 PM	7	700	1	25	6		Tornado
A tornado touched down 3 miles north of Prairie Creek and moved south into the southern portion of the Capital Heights area of Grand Island before lifting.									
Hall County	3	8:00 PM	1	150	0	5	4		Tornado
A tornado formed 1 mile north of Soldiers and Sailors Cemetery and moved northeast and made a turn to the south before lifting.									

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	
CORRECTIONS NEBRASKA (continued)									
JUNE 1980									
Hall County	3	8:05 PM	3.7	500	1	40	7		Tornado
The tornado touched down 1 mile north and 8/10 miles east of Soldiers and Sailors Cemetery. It moved north then made a U-turn to the south hitting the Veterans Home area then moved southeast lifting at some railroad tracks.									
Hall County	3	8:46 PM	2.5	100	0	0	4		Tornado
A tornado touched down 1 mile northwest of the Highway 34 Bridge moved southwest 1 mile and then turned north crossing and ending 1 mile north of Highway 34.									
Hall County	3	9:16 PM	5.6	1700	3	110	8		Tornado
The tornado touched down 1 mile east of Eagle Lake moved west along Bismarck Road then south to Locust then veered southeast and east ending 2 miles north of Highway 34 Bridge. This was the strongest tornado with winds to 250 m.p.h.									
Hall County	3	9:25 PM	4	1700	0	18	6		Tornado
The tornado touched down 2 miles north of Highway 34 Bridge moved west, turned south then back east ending 1 mile south of the bridge before lifting.									
Hall and Hamilton Counties	3	10:00 PM	13.4	2000	0	2	6		Tornado
A tornado touched down 3 miles south of Highway 34 Bridge and moved east to 7 miles east of the bridge or south of the Phillips area. The path was erratic with a number of loops.									
KENTUCKY									
JULY 1980									
Shelby Cy	10	11:00 AM EDT			2	2			Tstm
Two men were killed and 2 others were injured when lightning struck during a cattle show at the Shelby County Fairgrounds.									
Lawrence, Johnson, Martin, Floyd & Pike Cys	12	7 PM EDT			1	5	4		Svr Tstm
Winds estimated at 100 mph caused extensive property damage thru these 5 counties. This was the same storm that originated at Columbus, Ohio. One home was destroyed by lightning. One man in Floyd County struck by lightning was hospitalized.									
PENNSYLVANIA									
WESTERN									
AUGUST 1980									
Mercer and Forest Counties	2	6:30 pm	2	?	0	1	4	0	Tornado and strong winds
Near Sheakleyville a confirmed tornado destroyed 2 mobile homes, killed chickens and 2 horses, uprooted trees, destroyed barns, and broke windows in homes. One person was injured, but not seriously. A half hour later strong winds near Newmanville ripped to pieces 3 trailers and a boat.									
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								
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.									
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