

JANUARY 1978

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STORM DATA



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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL / NATIONAL CLIMATIC CENTER
DATA SERVICE / ASHEVILLE, N.C.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF 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								KILLED	INJURED	PROPERTY	CROPS						
ALABAMA											ARKANSAS														
Houston County	25	2:00p	-	-	0	0	4	0		High winds and Heavy rain	5 Miles North of Forrest City - St. Francis County	7	2:13 a.			0	0	3	0	Hail	Heavy thunderstorms produced golf ball sized hail. Several automobiles sustained damage.				
Bibb County	25	4:30p	-	-	0	0	0	0		High winds	Prattville - Grant County	7	1:00 p.			0	0	0	0	Hail					
Bibb County	25	5-5:30p	-	-	0	0	5	0		High winds										Heavy thunderstorms moving northeastward produced golf ball sized hail. No damage was reported.					
Jefferson County	25	5:30pm	-	-	1	0	0	0		High winds	Pine Bluff and Altheimer - Both in Jefferson County	7	1:45 p.			0	0	2	0	Hail	Heavy thunderstorms moving northeastward produced hail as large as golf balls. Minor damage was reported.				
Montgomery County	25	5:43p	-	-	0	0	0	0		High winds	Just East of Sheridan - Grant County	7	1:50 p.			0	0	0	0	Hail					
Jefferson County	26	6-7:00a	-	-	2	0	0	0		Ice and snow										Heavy thunderstorms produced walnut-sized hail. No damage was reported.					
Geneva County	27	11:00p	-	-	0	0	5	0		Flooding from Heavy Rain	Southeastern Woodruff County, Northwestern St. Francis, Cross Counties	7	3:32 p. to 4:38 p.	41	150	1	9	6	0	Tornado	A tornado touched down five miles west and one mile south of Hunter, and moved northeastward at 40 MPH. Three mobile homes were destroyed and one person was injured in Hunter. Spotted areas of damage occurred over the next twenty miles. The tornado then destroyed several farm homes and outbuildings before moving through a mobile home park located two miles south of Wynne at 4:15 P.M. One fatality and eight injuries occurred in and around the park. Damage in the Wynne area included: 28 mobile homes destroyed, 22 mobile homes damaged, 8 frame homes destroyed, and 12 vehicles destroyed. The tornado then moved on and produced spotted areas of damage before dissipating one mile west of Parkin. Damage over the tornado's path was estimated at over 1.1 million dollars.				
ALASKA																									
Kodiak Island	8				0	0	5	0		Coastal Flood	1 Mile Southeast of Newport - Jackson County	7	3:47 p.			0	0	0	0	Hail	Heavy thunderstorms produced one inch hail. No damage was reported.				
South Central	21				4	1	0	0		Avalanches	Western Little Rock - Pulaski County	7	3:48 p.			0	0	0	0	Hail	Heavy thunderstorms produced one inch hail. No damage was reported.				
										Well below normal temperatures in south central Alaska during November and the first part of December, 1977 caused the formation of well-developed hard frost in the snowpack in south central Alaska mountains. Rapid warming followed by about a foot of snowfall in the mountains Jan 20-21 caused a massive and sudden outbreak of large, naturally triggered avalanches in south central Alaska mountains. 4 mountain climbers were lost and 1 injured on Jan. 21 as a large avalanche swept down Taylor Creek Pass, about 30 miles southeast of Anchorage, at 11AM AST. Avalanche activity in south central Alaska was high for several days thereafter; on the night of Jan. 23-24, the Richardson Highway was closed by snow slides 29 miles out of Valdez.	Western Hot Springs - Garland County	7	4:03 p.			0	0	0	0	0	0	0	0	Hail	Strong thunderstorms produced golf ball sized hail. No damage was reported.
										15 Miles Southwest of Little Rock - Pulaski County	7	4:20 p.			0	0	0	0	0	Hail	Strong thunderstorms produced one inch hail. No damage was reported.				
										Over Lake Hamilton - Garland County	7	4:25 p.									Funnel Cloud	A funnel cloud moving northeastward was sighted by the Garland County Sheriff.			
										North Little Rock - Pulaski County	7	4:30 p.			0	0	2	0	0	Hail	Heavy thunderstorms produced golf ball sized hail that covered the ground in places. Minor damage was reported.				
										10 Miles Northeast of Little Rock - Pulaski County	7	4:35 p.									Funnel Cloud	A funnel cloud moving northeastward was reported by the police.			
										Morgan Exit of Interstate 40 - Pulaski County	7	5:05 p.			0	0	0	0	0	Hail					
										Grant, Jefferson, Pulaski, Lonoke Counties	7	5:10 p. to 6:10 p.	35	50	0	0	3	0	0	Tornado	Heavy thunderstorms produced three-quarter inch hail. No damage was reported.				
																				A tornado touched down 5 miles west of Sheridan and moved northeastward at 35 MPH. It tracked just north of Radfield in Jefferson County and dissipated just south of Kao in Lonoke County. Luckily the storm's track was in a very sparsely populated area, and thus, only tree and power line damage resulted.					
ARIZONA																									
Phoenix Maricopa County	10	3:00-6:00 p.			0	0	5	0		Wind, Flooding, Hail															
Tucson Pima County	15	Afternoon-Evening			2	0	5	0		Flooding															
Maricopa County	10-20				0	0	0	5		Flooding															

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					KILLED	INJURED	PROPERTY	CROPS		
ARKANSAS (continued)										
3 Miles North of the North Little Rock Airport - Pulaski County	7	5:25 p.			0	0	0	0		Hail
					Heavy thunderstorms produced golf ball sized hail. No damage was reported.					
Western Saline County	7	5:35 p.			0	0	0	0		Hail
					Strong thunderstorms produced golf ball sized hail. No damage was reported.					
Jacksonville - Pulaski County	7	5:37 p.			0	0	0	0		Hail
					Strong thunderstorms produced golf ball sized hail. No damage was reported.					
Viny Ridge - Eastern Saline County	7	5:45 p.			0	0	3	0		Hail
					Strong thunderstorms produced hail up to four inches in diameter. Several greenhouses were damaged.					
Northwestern Jefferson County	7	6:00 p. to 6:09 p.	3	25	0	0	0	0		Tornado
					A tornado touched down near Redfield and moved along the ground for about 3 miles. Luckily, it struck in a very sparsely populated area and there was only tree damage reported.					
Near Caldwell - St. Francis County	7	6:20 p.								Funnel Cloud
					Two funnel clouds moving northeastward were reported by the local police.					
Camden - Ouachita County	7	7:05 p.	2	100	0	0	5	0		Tornado
					A tornado touched down and moved toward the northeastern portion of the town. Several homes, outbuildings, and vehicles along with the hospital and radio station were damaged. Movement of the storm was to the northeast. Damage was estimated at over 75 thousand dollars.					
	7	7:05 p.	1	50	0	0	3	0		Tornado
					A second tornado touched down in the western portion of the town almost simultaneously. Movement of the storm was to the northeast. Only minor damage occurred with this storm.					
West Memphis - Crittenden County	7	8:36 p.			0	0	0	0		Hail
					Strong thunderstorms produced three-quarter inch hail. No damage was reported.					
ARKANSAS (continued)										
Entire State	11-31				11	?	7	8		Winter Storms
					Arctic air spilling south from Canada and a series of winter storms during the last three weeks of the month made January one of the worst winter months in many years for Arkansas.					
					A major winter storm moved into Arkansas early on the 11th and continued into the morning of the 12th. Freezing rain and sleet covered the southern third of the state with 1 to 4 inches of ice. Over 150 chicken houses collapsed and millions of chickens were killed or died of exposure. The central part of the state received a mixture of sleet and snow with accumulations of 3 to 6 inches, causing the collapse of numerous covered boat docks, carports, store awnings, and greenhouses. Northern sections of the state recorded 2 to 8 inches of snow.					
					A cold front moving through on the night of the 13th brought light snow to the northern two-thirds of the state. Most amounts were in the 1/2 inch to 1 inch range.					
					On the night of the 15th, freezing rain glazed roads across the northern half of Arkansas. The storm continued in the same area throughout the day on the 16th with the freezing rain changing to snow. Snowfall was generally in the 1 to 3 inch range, although several places along the northern border received 4 to 6 inches.					
					Yet another winter storm entered southern Arkansas at midday on the 18th and spread across the state during the next 24 hours. Snow fell in all areas with heaviest amounts, 3 to 6 inches, along the western border. Elsewhere, totals were generally 1 to 3 inches.					
					Scattered snow developed on the 21st. The majority of the measurable amounts were in the southern half of the state with totals of 1/2 to 1 inch.					
					On the 24th, another band of snow moved southeastward across the state. Significant amounts were reported across the northern two-thirds and generally ranged from 1 to 3 inches, although isolated totals reached 7 inches.					
					Late on the 29th, wintry precipitation developed again and continued until the afternoon of the 30th. Snow fell in the northern half of the state with amounts of 1/2 to 1 inch. The south received a mixture of freezing rain, sleet, and snow.					
					The last day of the month found snow spreading northeastward across the state. Amounts up to 2 inches fell in the south, tapering off to less than an inch in central sections. The snow changed to freezing drizzle in most places before ending.					
					Driving conditions were extremely hazardous during the periods of precipitation. In addition, re-freezing of melted snow and ice caused traveling difficulties on several other nights.					
					Eleven known storm related fatalities occurred with possibly several others not being publicized; total number of storm related injuries is unknown.					
					Twenty-six counties in southern and southwestern Arkansas, and 6 counties in eastern Arkansas were declared disaster areas due to the winter storms. Property damage totalled over 20 million dollars, with an additional 20 million dollars in damage to roadways. Another 60 million dollars in agricultural revenues will be lost because of the long length of time it will take to rebuild the poultry houses, etc. So total loss due to the storms will be around 100 million dollars.					
CALIFORNIA										
NORTHERN & CENTRAL										
NONE REPORTED										
CALIFORNIA										
SOUTHERN										
Santa Barbara County										
Santa Ynez Valley	16									Heavy wind-blown rain and lightning hit the Santa Ynez Valley, causing brief power failure and several road closures due to landslides.
Los Angeles County	4									A funnel cloud touched down momentarily near San Dimas, damaging a roof. Winds at 80 mph were reported near Glendale and in the San Gabriel Valley.

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					KILLED	INJURED	PROPERTY	CROPS	
COLORADO									
Mountains	23-24				0	0	0	0	Heavy snow
	Heavy snow fell over the Rocky Mountains, mainly over the central and southern mountains. Many highways were closed and some travelers were stranded. Some snow amounts reported: Leadville, 24 inches; Durango, 20 inches; Lake Isabel, 10 inches; Vail Ski Area, 14 inches; Rabbit Ears Pass, 19 inches; Copper Mountain, 9 inches; Breckenridge, 11 inches; Berthoud Pass, 9 inches; Red Mountain Pass, 7 inches; Elkton, 13 inches; Rye, 8 inches; Fort Collins, 7 inches.								
Northeast Plains	25	all day			0	0	0	0	Blizzard
	Local blizzard conditions forced closing of schools in many towns in Weld County. There were some overturned trucks on I-25 highway near Boulder, where ground blizzards were reported in the afternoon with winds around 45 mph.								
CONNECTICUT									
Statewide	9	All Day			0	0	5	0	Wind, rain
	High winds belted the state bringing down wires and trees. A large tower marking the defunct A.C. Gilbert "Erector Set" Company was blown down. There were wind gusts to 60 MPH and minor flooding both coastal and inland.								
Central and Eastern	14	Morning			0	0	4	0	Ice storm
	1/2" of ice coated surfaces causing wires and trees to fall.								
Northwest	18	4:20AM			0	0	7	0	Heavy snow
	Hartford Civic Center Coliseum collapsed due to heavy accumulation of snow, ice and water on roof which was the size of two football fields. Only 6 hours before there were 5,000 people inside. There were no injuries. 6 to 10 inches fell in northwestern portions of the state.								
Statewide	18-20	All Day			1	0	5	0	Heavy snow
	The following is a list of buildings which experienced major or total roof damage due to added weight of ice, snow and rain. Griswold: Large factory Jewett City: Man killed as factory fell apart. Manchester: K-Mart Middlefield: Concrete products and a structure housing a restored biplane fell. South Windsor: Supermarket Tolland: Cowbarn								
Statewide	20				0	4	6	0	Heavy snow
	12 to 16 inches blasted the state again. It was the first time banks closed since the 1969 snows. About 75 major buildings collapsed in addition to those listed above. Winds gusted 60 to 70 MPH along the coast as the strongest Northeast in decades hit the state. 24 hour snowfall amount records were broken. Farmington Polo Ground lost a building to heavy snow and roof collapse. 3 people were slightly injured. A girl in King's Department Store was injured as a huge roof fell on her.								
Statewide	25				0	0	5	0	Heavy rain river flood
	A driving rain storm brought extensive highway and urban flooding. Tens of buildings continued to collapse as rain added weight to roofs. In eastern portions of the state brooks and rivers overflowed and caused evacuations in Westbrook, Chester, Lime, Jewett City and Mansfield.								
DELAWARE									
Statewide	9-10				0	0	3	0	Wind, Snow
	Rain changed to snow as strong cold front brought rapidly-falling temperatures during the morning of the 9th. Hazardous road conditions followed. Wind chill factor down to minus 29 degrees as winds gusted to 40 mph on the 10th.								
Statewide	13								Snow
	Four-inch snowfall resulted in scores of traffic accidents with some injuries.								
DELAWARE (continued)									
Statewide	20				0	0	0	0	Snow
	Up to 7 inches of snow paralyzed the northern portion of the state. Over the southern sections, 2 to 4 inches of snow became mixed with rain.								
Statewide	26				0	0	5	0	Wind
	Intense low pressure system with winds gusting to 60 mph or more resulted in widespread damage. Numerous trees, weakened by recent rain, fell onto power lines and property; small buildings were carried away; and water forced over bulkheads caused several families to be evacuated in coastal sections.								
FLORIDA									
Dover, Hillsborough County	8	5:20PM EST	8.0	100	0	2	5	0	Tornado ⁶
	A tornado first observed near Bloomingdale did not produce damage until it moved northeast into the Dover area. There it destroyed 4 concrete block homes and 5 mobile homes. There was major damage to 6 other homes as well as several automobiles. Two people received minor injuries. Damage estimated \$350,000.								
Windermere, Orange County	8	6:17PM EST	2.0	100	0	0	5	0	Tornado
	A tornado moved from Lake Butler into the Windermere area producing severe damage to a large lake front home and destroyed the roofs of 5 other homes. Several boat houses and boats were severely damaged. Total damage estimated \$200,000.								
Lockhart, Orange County, - Sanford, Seminole County	8	6:35PM EST	18.0	200	0	23	6	0	Tornado
	A large tornado moved through the Rose Mobile Home Park near Lockhart (7 miles northwest of Orlando) destroying 17 trailers, with major damage to 60 others. 23 people were injured of which 8 were hospitalized. The tornado continued into Seminole County and passed southeast of Sanford causing some damage to homes and boats along the St. Johns river. Total damage in Orange and Seminole counties was estimated \$1,000,000, mostly in the Rose trailer park.								
Miami, Dade County	8	9:10PM EST	4.0	10	0	0	4	0	Wind/Funnelcloud
	An apparent funnel cloud aloft moved along an east-northeast course for a distance of 4 miles through western Miami. There was some wind damage at more than a dozen locations and reports of roaring noises. Damage was confined to a number of large trees blown down, ripped aluminum window awnings and bent TV antennas. Several cars were overturned and a few plate glass windows were blown out in a shopping center. Damage was estimated \$15,000.								
Melbourne, Cocoa County	13	1:39PM EST	2.0	20	0	0	4	0	Tornado
	A small tornado touched down briefly in Palm Bay and Melbourne damaging 6 mobile homes. Damage was estimated \$10,000.								
Fort Lauderdale, Broward County	13	2:00PM EST			0	2	5	0	Windstorm
	A squall line moved through the Fort Lauderdale area accompanied by 75 mph winds and heavy rains. A dozen small planes were damaged at Fort Lauderdale International Airport. Numerous signs were blown down and many trees sprouted with some boat and small trailer damage. Two people were slightly injured. Estimated total damage was \$100,000.								
Middleburg, Clay County	19	9:32AM EST	0.5	20	0	0	4	0	Tornado
	A tornado touched down near Middleburg destroying a large chicken house on an egg farm. Damage was estimated \$10,000.								
Tampa, Hillsborough County	19	1:50PM EST	1.0	50	0	0	4	0	Tornado
	A tornado moved through the Town 'N' Country subdivision area northwest of Tampa International Airport. Damage to 40 houses was mostly light. A number of trees were uprooted and fences blown down. Damage was estimated \$25,000. There were several reports of strong winds and funnel clouds in Hillsborough County but no significant damage occurred.								
Orlando, Seminole County	19	2:30PM EST	0.5	20	0	0	5	0	Tornado
	A small tornado struck the Sundance apartments in northeast Orlando causing \$150,000 damage.								
New Smyrna Beach, Volusia County	19	3:30PM EST			0	0	4	0	Windstorm
	A squall line moved through the New Smyrna Beach area with gusts to 75 mph at the local Coast Guard office. Extensive minor damage was reported mainly to small boats, awnings, and porches. Some plate glass breakage also occurred. Damage was estimated \$25,000.								

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IOWA									
Northern and Eastern	26-27	1:00 P-11:00 P			1	1	3	0	Wind - Cold
	Winds gusting to 50 MPH whipped powder dry snow already on the ground into huge drifts to 13 ft. high. Extreme cold pushed wind chill factor to 70 degrees below zero. The drifts closed most roads including I-35. Thousands of trucks and cars were stalled with many going into ditches. An elderly woman and her husband went into a ditch near Clara. They left the car and began walking. He was found in a snow bank and was hospitalized in Ford Dodge. The woman was found dead in another snow bank.								
KANSAS									
STATEWIDE			NONE REPORTED						
KENTUCKY									
STATEWIDE					5	7	7	6	Severe Winter Weather
	A series of major winter storms made January 1978 the worst month of winter weather on record. During the last two weeks, much of Kentucky received 2 feet of snow. On the 25th and 26th, blizzard conditions were produced by a low with a central pressure of 28.66 inches.								
	On the 26th, state police closed all roads except over the extreme Southeastern Counties. At least five people were killed because of exposure...falls or heart attacks caused by snow shoveling.								
	Most businesses were closed on the 26 and 27th. The National Guard was used during that period and also between the 16th - 20th. Schools were closed for much of the month.								
LOUISIANA									
Caddo Parish	7	5:20 PM	1/8	75	0	0	3	3	Tornado & Hail
	Two funnels were spotted in Shreveport. One touched down as a tornado twisting the tops off of some 80 or 90 trees in a wooded section southeast of the airport. No other wind damage was reported, however, hail up to three-quarters of an inch in diameter damaged some roofs in the Broadmore section of town.								
Webster-Claiborne Parishes	7	5:50 PM			0	0	3	0	Wind & Hail
	High winds and hail were spotted along a path from 8 miles south of Cotton Valley to near Haynesville.								
Calcasieu	16	3-3:30 PM			0	0	5	0	Windstorm
	Winds knocked over large signs, damaged roofs and mobile home in Sulphur. Helicopter was blown against hangar and badly damaged, and Cessna crop duster was demolished at Iowa.								
Southern Parishes	25	Afternoon			0	0	6	0	High Winds & Heavy Rains
	A squall line moved across the state with strong winds reported at many places. Gusts to 45 mph were registered in Lafourche Parish and 65 knots offshore. Winds knocked down the new \$150,000 scoreboard at Cajun Field in Lafayette; capsized and sank an oil rig and barge at the mouth of Bayou Lafourche; blew metal panels off an office building in New Orleans. Lightning burned a house in Kenner and Slidell. Excessive rains caused flooding of homes in Kenner and Slidell.								
MAINE									
Statewide	8-9				0	4	7	0	Winter Coastal Storm
	A raging coastal southeast storm dumped 1 to 3 inches of rain over the state. Hardest hit was the coast. High tides and storm surge levelled the coast from Kittery to Eastport. Winds were in excess of 75 mph as storm force winds were general along the coast (70 at Augusta and Sanford, 60 at Portland). Highest tides in more than 50 years coincided with the spring tide, pushing them over 13 feet. (13.7 at Wiscasset.) Winds knocked down limbs, cutting power, disrupting phone service and flooding roads. Boats were sunk, capsized, and lost and docks ripped away. Severe flooding and ice jams. Portland had lowest pressure ever in January. Damage estimated over 5 million dollars. Scores of storm related injuries.								
Statewide	11				0	0	4	0	Blizzard
	Wind driven snow caused blizzard conditions. Wind reported 55 to 70 mph. Tree damage, power outages, and traffic mishaps with moderate to severe glazing reported. Heavy snow with high water content caused structural damage. Ice jams continued flooding of rivers. 10 to 20 inches of snow measured over the state.								
MAINE (continued)									
Statewide	20				0	0	4	0	Blizzard
	Snow of blizzard proportions dumped heavy, drifting snow across the state. Wind whipped snow lowered visibility to near zero. Many traffic mishaps. Winds up to 50 mph were reported. Coastal area hardhit again. Fishing vessel lost at sea.								
Statewide	25-26				0	0	4	0	Southeast Rain Storm
	Heavy rain lashed the state leaving 1 to 2 inches of rain adding to swollen rivers and streams. High winds lashed the coast with heavy seas just off the coast. Heavy snow caused collapse of roofs. Urban flooding and flash flooding reported on rivers and streams. Winds of more than 50 mph reported.								
MARYLAND & D.C.									
Entire Area	9-10				1	6	5	0	Wind, Snow
	Strong cold front moved across area during early morning of 9th. Rapidly-falling temperatures changed rain over to snow, making roads hazardous. Six to eight inches of snow fell over western counties and high winds made road clearing difficult. East of the mountains snow amounts were only an inch or two, but winds gusting up to 50 mph or more created near blizzard conditions. In Cecil County a 7-car pile-up occurred when blowing snow suddenly reduced visibility to zero. Five injuries resulted as cars ran into other stopped vehicles. Numerous minor traffic accidents reported over entire area along with variety of wind-caused damage from fallen trees or structural wind damage. Dropped power lines also responsible for many outages. In Cambridge, Dorchester County, a 12-foot chimney fell through the roof of a department store during the early morning of the 9th, doing considerable damage to merchandise. Very cold air combined with strong winds produced wind chill factor in the mid to 30 degree range as temperatures dropped from near 60 degrees to the teens by evening on the 9th. Policemen on duty at Baltimore fire suffered frostbite; while an East Baltimore man died of exposure during the night of the 10th.								
Entire Area	13-14				0	0	3	0	Snow, Glaze
	Snow began during early morning of the 13th with initially, 3 to 5 inches accumulation over much of the area - except 1 or 2 inches over the Eastern Shore. A changeover to freezing rain and sleet followed the night of the 13th and into the 14th east of the mountains, while an additional 8 to 12 inches of new snow fell over Allegany and Garrett Counties. Numerous minor traffic accidents occurred and ice-coated tree limbs and power lines caused outages.								
Entire Area	17-18						4	0	Snow, Freezing rain, Sleet
	Low pressure moved from Tennessee Valley northeastward across the mid Atlantic region, bringing 8-12 inches of new snow over Allegany and Garrett Counties; 1 to 2 inches over much of the east portion, except a band of 4 to 6 inch accumulation over the Harford-Cecil County section. East of the mountains snow changed to rain late on 17th, followed by freezing conditions early on the 18th. icy roads responsible for hundreds of auto accidents, including one fatality in Baltimore area.								
Central and Western & District of Columbia	19-20				0	0	3	0	Snow
	The fourth major snowstorm of the month, beginning the evening of the 19th and continuing on the 20th, brought an additional 10 to 13 inches of new snow to the 20 inches already on the ground. State of emergency declared for Allegany County, with City of Cumberland all but immobilized by the 31-inch accumulation. Over the remaining area, from 4 to 10 inches of new snow reported, except mostly sleet fell over St. Marys and Calvert Counties and rain on the Eastern Shore. Motorists in metropolitan areas found themselves stranded for many hours in stalled traffic. In Largo, Prince Georges County, a huge 75,000 square-foot tent housing a boat show collapsed under the weight of the snow. Minor damage was done to several boats.								
Entire Area	26				1	0	6	0	Wind, Rain, Flooding
	Intense low pressure center moved north-northeastward from the lower Mississippi Valley, accompanied by near record low pressure readings. Early morning squall was followed by cold frontal passage, resulting in considerable damage from flooding, tree fall, or structural wind damage. Gusts to 60 mph were common, with winds of 80-90 mph reported over sections of the Eastern Shore. In Glen Arm, Baltimore County, a woman was killed when muddy bank gave way as she was backing car out of driveway.								

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					KILLED	INURED	PROPERTY	CROPS	
MASSACHUSETTS All State Mostly coastal areas	9	All Day			0	0	6	0	Wind, heavy rain, flooding
									An intense winter storm passing to the west of New England brought southerly gales gusting to 74 MPH at Chatham, MA. Tides of 3 to 5 feet above normal at times of high tide caused extensive coastal flooding. Homes were flooded to the extent of one foot of water across ground floors. Inches of rain brought much urban inland flooding. The New Bedford Hurricane Barrier reported a gust to 82 MPH. High tides caused some evacuation in Marion, Mattapoisett, New Bedford and Wareham. Roofs were blown off hundreds of buildings. A metal church steeple 150' high blew off a Framingham church.
									In Fairhaven three large mobile homes and a cottage were destroyed by wind. Provincetown suffered the most flooding damage. It was figured at about one million. Seas broke across downtown streets. In Gloucester a seawall and a footbridge were partly washed out and there was extensive beach erosion and road washout.
All Areas	13	All Day			0	0	0	0	Heavy snow, sleet
									6 to 10 inches fell as the season's first major snowstorm. Nearly a foot covered the Berkshires.
Southeastern areas	14	All Day			0	0	4	0	Ice Storm
									About one inch of ice piled up as the season's first glaze coated the area. A roof on a house collapsed but caused no injury.
Western areas	18	All Day			0	0	5	0	Heavy snow and rain
									Nearly 6 inches of snow piled up throughout the west. In southern and eastern portions rains of 2 to 4 inches were absorbed by the snow. Highway and urban flooding resulted. In Hudson a large greenhouse collapsed due to snow laden roof. In Salem a factory roof fell. There were minor bruises but no injuries.
All Areas	20	All Day			0	5	6	0	Blizzard
									A record setting storm brought one to two feet of snow statewide. A freighter was driven aground in Boston Harbor as strong winds slipped her moorings. Plum Island and Nahant were cut off by high tides and snow drifts. Hundreds of cars were abandoned on major highways. Boston broke the all time 24 hour snowfall record as they tallied a total of 21 inches. Gusts to 62 MPH were recorded. All forms of transportation shut down.
									The succession of snow, sleet and rainstorms caused an unprecedented number of roofs to cave in. Miraculously there were only 5 injuries all of which occurred at a supermarket in Milford. These injuries were minor. The following is a list of locations and buildings each of which sustained moderate to heavy damage. Auburn: Large barn Ayer: Industrial plant East Longmeadow: Shaker Bowling Alley Fitchburg: Factor and Auto Sales Showroom Foxboro: Department Store Gardner: Factory Holliston: Lumber Company Ipswich: Horse stable Leominster: Apartment house and barn Milford: Supermarket Millis: Oil Company Nashoba: Skating rink Northampton: State hospital Norton: Large storage shelter Shrewsbury: Auto body shop Spencer: Bank Sturbridge: Auto museum Westfield: Auto showroom West Springfield: Medical building Williamsburg: Flea market Worcester: Quonset hut
Statewide	26	All Day			0	0	5	0	High wind
									Winds gusting to 60 MPH knocked down trees, blew over signs and broke windows.
MICHIGAN									
									2 MI. north of Indian River Cheboygan
									12 noon 2 to 2 pm
					0	1	4		Blowing Snow
									Near zero visibilities caused a 35 car pile up on I-75. One man was injured when his head hit the windshield of his car.
State Wide	9	Daytime			0	5	4		Blizzard
									Cold temperatures and 45-55 mph winds combined with ground snow cover to drift many roads shut. Hundreds of people were forced to leave their cars and seek shelter. Scattered damage to window glass and signs occurred throughout the area. A bus was blown off the road near Escanaba injuring two people. Three other injuries occurred when drivers hit other cars and pedestrians because they could not see. Two students were treated for frost bite on the Michigan State campus at Lansing. Berrien and Van Buren were the hardest hit counties.
3 E Lawrence Van Buren	20	Daytime			2	0	3		Blowing Snow
									A woman became temporarily blinded by blowing snow causing her car to cross the center line and collide head on with another vehicle. She and her daughter were killed.
State Wide	26,27				5	1	7		Blizzard and Heavy snow.
									A massive low pressure area packing 50 to 70 mph winds and blinding snows moved through the area. 12 to 34 inches of snow was dumped during a two day period. Winds piled the snow into drifts as high as 50 feet stranding thousands of travelers and virtually bringing the state economy to a halt. 120,000 cars and trucks were abandoned including some trucks loaded with live cattle and hogs. Many rural farms were snow bound for up to 4 days. 3 people died of exposure and a fourth was hospitalized for frostbite. One man died after being hit by a car whose driver was blinded and a baby died when its parents were unable to reach a hospital. An 806 foot Lake freighter was blown aground in the St. Mary's river near Sault Ste. Marie and a maritime academy vessel was sunk while chained to the pier at Traverse City. 38 buildings across the Lower Peninsula suffered partial or total roof collapse including 6 manufacturing plants, 7 warehouses, 4 schools, 2 bowling alleys, a hockey rink in Mount Clemens, and a theater in Hamazoo.
MINNESOTA									
Shieldsville Vicinity Rice County	26	7:44AM	-	-	1	1	0	0	Snowstorm
									19-year old man killed in traffic accident caused by zero visibility due to snow and blowing snow. His pickup collided head-on with car on Highway 21, just east of Shieldsville. Occupant of car treated for minor injuries.
MISSISSIPPI									
North, Central	19,20				0	0	1	0	Snowstorm
									Early on the morning of the 19th, snow began falling in extreme north Mississippi while freezing rain was occurring elsewhere over the state except rain over the southeastern areas. A low pressure system in the Gulf of Mexico moved northeastward across the Florida panhandle spreading snow south and east across Mississippi during the afternoon. A band of heavy snow fell across the state from Rolling Fork northeastward to Columbus where up to 5 inches accumulated. Elsewhere over northern and central sections 2 to 4 inches were common. Less than one inch fell across many southern counties. The larger cities in northern and central Mississippi were nearly paralyzed when the snow turned to ice during the night. Many roads were closed and travel became nearly impossible until mid morning on the 20th. Traffic accidents were near epidemic proportions. Little damage was directly attributed to the snowfall, but the economic impact of the storm was estimated to be in the millions.
MISSOURI									
Southern Half of State	2nd half of month		?	?	0	0	3	0	Heavy Snow
									Heavy snowfall of more than a foot in places on the 16th plus additional smaller amounts thereafter, caused numerous awnings and light roofing to collapse under the weight. Other minor damage was caused when roofs covered with snow began leaking as the snow melted.
MONTANA									
Lake County	18	1:30 PM	-	-	-	-	5	-	Heavy Snow
									A steel structured recreational center collapsed after receiving more than a foot of snow on the roof.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEBRASKA Southwest Nebraska	15-16	Evening to Morning			0	0	0	0	Heavy Snow
					Heavy snow from 4 to 6 inches fell over an area south of a line from Ogallala, North Platte to Red Cloud. Five inches were reported at Imperial and Benkelman with 4 inches at McCook.				
NEVADA					NONE REPORTED				
NEW HAMPSHIRE Statewide	8-9				1	5	6	0	Winter Storm
					A severe southeast coastal storm battered the state with heaviest damage on the 9th. Coastal areas were most severely hit with tides 2 to 4 feet above normal. Severe coastal flooding and battery. Heavy structural damage. Roads and seawalls were destroyed. 1 to 3 inches of rain caused flooding along rivers and streams where ice jams complicated things. Mouth swept away by the rain-swollen Oliverian River. Power outages caused by tree damage and water. Extensive urban flooding. Cold snap caused severe icing of roads with associated traffic mishaps. Several persons injured along coastal communities during the storm battery. Winds were measured 50+ mph and estimated 60-70 mph along the coast.				
Statewide	20				0	0	4	0	Blizzard
					Wind whipped snow with a foot or more around the state. Coast lashed by 50-60 mph winds. Some coastal flooding and damage. Trees down, power and telephone lines down. Many traffic mishaps related to the storm.				
Statewide	25				0	0	4	0	Rain and Snow
					High winds and rain whipped across the state. Floods caused road and highway damage. Many cellars flooded with much urban flooding. Some structural damage from snow covered roofs weighted by the rains.				
NEW JERSEY State	8-9				0	0	?	0	Wind
					An intensifying storm moving northward near the coastline cause southerly winds of 40 to 60 mph along the coast and 20 to 40 mph over the inland areas. Tides ranged 1 to 2 feet above normal. A wind shift early on the 9th brought very cold air across the state, but high speeds continued. These winds caused record low tides along much of the Jersey shore. Damage was limited to downed trees and power lines.				
Northern Half	13-14				0	0	?	0	Ice Storm
					Light snow spread over the state during the early morning hours of the 13th. By late afternoon this had changed to rain over the southern half of the state and to freezing rain in the northern sections. Three inches of snow had accumulated in the north. The freezing rain accumulated on all exposed surfaces. All highway traffic was perilous. Falling trees cut power lines resulting in outages for over 100,000.				
State	17-18				0	0	?	0	Snow, Ice
					Snow began during the early morning hours of the 17th then changed to rain over the southern portion and freezing rain over north sections by mid-afternoon. Snow accumulations were 2 inches in the south and 2 to 4 inches in the north. Freezing rain continued until the early morning hours of the 18th. The freezing rain hampered road travel, but not to the extent of the storm four days earlier.				
State	19-20				2	0	?	0	Snow
					Snow began falling across the state near sundown on the 19th. Precipitation changed to rain over the extreme south shortly after midnight, but continued as snow in other areas into the afternoon of the 20th. Snow accumulation was only 2 inches in the extreme south but increased to 12 inches in south-central sections and 12 to 15 inches over the north. Traffic throughout most of the state was at a virtual standstill. Many businesses were closed for one day or more. Two died from carbon monoxide poisoning in a car stalled in deep snow at Stillwell.				
NEW YORK COASTAL Entire Area	8-9				0	0	?	0	Wind
					An intensifying storm moving northward along the east coast caused southeasterly winds 35 to 50 mph in the coastal areas of Long Island. Winds shifted to westerly but maintained the high speeds early on the 9th then decreased slowly late in the day. Extensive beach erosion was experienced along both the north and south shores of Long Island with the south winds. Two summer homes in Westhampton Beach, LI were destroyed and 20 others damaged by beach erosion. Power outages due to falling trees breaking lines were experienced on Long Island and in Rockland County.				
Entire Area	12-14				0	0	?	0	Ice Storm
					Light snow began over the area near daybreak on the 13th, accumulating about 3 inches by late afternoon. The snow then changed to ice pellets and freezing rain. This continued until the early morning hours of the 14th. Ice accumulated on all road surfaces, power lines, and trees. In some areas the ice was a half inch thick. Falling trees caused extensive power outages throughout the area. Hardest hit was Long Island where some areas were without electricity for nearly a week.				
Entire Area	17-18				0	0	?	0	Ice Storm
					Snow began falling shortly after daybreak, but quickly changed to rain along the immediate coastal area, and to freezing rain inland. It ended during the morning of the 18th. This storm did little additional damage, but slowed the cleanup and repairs caused by the storm four days earlier.				
Entire Area	19/20				0	0	?	0	Snow
					Snow began near sundown on the 19th and continued until the afternoon of the 20th. Midtown Manhattan reported 13.6 inches of snow. Bronx and Central Long Island had 18 inches. Snowfall amounts decreased to 12 inches northward over northern sections of Westchester County and to 8 inches over northwest sections of Rockland County. This was the heaviest snowfall in the area in 9 years. Most business houses were closed for at least one day. Most major highways on Long Island were closed to traffic. Movement of all road traffic was hazardous and in most cases impossible.				
NEW YORK CENTRAL ALBANY, SCHENECTADY, SARATOGA, WASHINGTON KENNSELAEER COUNTIES	1-2				0	FEW	4	0	SNOW
					Low pressure near Chicago on the 1st brought a few inches of snow to East Central New York with several accidents caused by slippery roads, injuries were few and generally minor.				
AREAWIDE	7-11				0	*	6	0	SNOW, RAIN, BLIZZARD
					A major storm that moved from Oklahoma thru Tennessee, Central New York and into Quebec, brought New York State a wide variety of severe weather. A few inches of snow on the 7th changed to heavy rain on the 8th. Temperatures fell 40-50 degrees in a few hours following a cold front on the 9th and resulted in blizzard conditions on the 9th and 10th.				
					Light snow caused several minor accidents with few injuries on the 7th. On the 8th heavy rain with up to 5" in the Catskills, caused widespread and mostly minor flooding. This closed schools in Chenango County. 123 cars were flooded and damaged at Albany Airport. Ice jams on the Mohawk river caused overflows near Rotterdam on the 5. Telco and electric service interrupted to some 800-1000 persons in the Capital District due to flooding. High winds and rain in Hudson Valley felled many trees, washed out roads and caused creek flooding.				
					On the 9th, strong winds along and following a cold frontal passage created much damage to telephone and electric wires with isolated blackouts reported in Orange County and near Ogdensburg. A house trailer was overturned near Esperance and another near Delhi thrown 40 ft. and demolished with three occupants injured. A house at Valton was blown off its foundation and damaged badly. Blizzard conditions caused several accidents and closed many schools and roads. One person was killed and 3 injured in a blizzard-caused auto accident in Fulton County. The accidents near Little Falls caused 3 injuries. Blizzard conditions continued on the 10th.				
AREAWIDE	13-15				0	*	4	0	SNOW AND FREEZING RAIN
					A storm over Texas on the 12th reached Florida on the 13th and moved up the Coast to near Long Island on the 14th. It brought up to a foot of snow to Southeastern New York with lesser amounts elsewhere. Freezing rain followed the snow and caused havoc on the highways. Interstate highway 187 was closed on the 14th with multiple accidents. A crash in Dutchess County killed one man and injured 4 others. 15 people were injured in the Catskills area and several in Saratoga.				
NEW MEXICO					NONE REPORTED				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEW YORK (continued)									
CENTRAL									
AREAWIDE	17-18				0	*	5	3	SNOW & FREEZING RAIN
	<p>The third major storm this month moved from Texas on the 16th thru the Carolinas to Eastern Long Island on the 18th. It caused heavy snow over upstate sections and rain and freezing rain in the lower Hudson Valley. Snow amounts ranged from 6-12 inches generally except near 20 south of Rochester. The lower Hudson Valley had a few inches of snow before changing over to freezing rain and rain. Most of the schools were closed over the entire area. Roads were slippery in general, but very hazardous with several serious accidents in the lower Hudson Valley. Many accidents also occurred in the Eastern Southern Tier area with one fatality in Broome County. Many injuries from numerous minor accidents. A man in Binghamton died shoveling snow. A man was killed near Poughkeepsie when a roof he was working on collapsed under the weight of the snow. Some roads were closed and there were some scattered power outages across the area.</p>								
AREAWIDE	20-21				0	*	6	4	SNOW
	<p>The fourth major storm this month originated in the Central Gulf of Mexico on the 19th, moved past Eastern No. Carolina on the 20th and just South of Nantucket on the 21st. This storm path resulted in another widespread snowstorm with amounts of 5-6 inches in the St. Lawrence Valley to a foot or more in the Adirondacks and 8-15 in. in Southeastern New York. Most of the schools, as well as some stores, industries and Government offices were closed by this storm. The heavy snow load added to previous snows, collapsed roofs of barns, garages, showrooms and recreational halls in many areas, but mainly in Southeastern Counties. A man died shoveling snow in the AuSable Forks area and another in Utica. Highways were hazardous in general and all roads were closed in Cortland, Tioga and Broome counties. States of emergencies were declared for many areas including Broome, Dutchess and Columbia Counties.</p>								
AREAWIDE	25-27				0	FEW	5	5	WIND, & FREEZING RAIN
	<p>The fifth major storm this month moved from Texas on the 24th thru Tennessee and Northward across Lake Erie on the 26th. It was one of the most intense storms of record and while its effects on the Ohio Valley were about the most damaging of record, it brought only blustery winds, freezing rain and rain to Eastern New York. Rain totaling 1-2 inches caused ice to buckle and jam on streams and some flash flooding ensued. Ice jam flooding at Prattsville caused one farmer to lose 46 head of cattle. Most other flooding was minor with little damage. Strong winds caused many trees to topple and this resulted in downed wires and power outages in scattered areas.</p>								
NEW YORK WESTERN									
	NO REPORT RECEIVED								
NORTH CAROLINA									
Rowan	8	5:30 P	1/2	20	0	0	4	3	Tornado
	A tornado touched down briefly in Salisbury, damaging several buildings, houses, utility lines and trees.								
Durham County	9	3:15 A							Hail
	Golf ball sized hail fell in Durham. No damage reported.								
Carteret	869						5		Wind - Beach erosion
	High winds coupled with abnormal high tides eroded beaches at the western tip of Bogus Banks on Emerald Isle. There was damage to several buildings and some underground utility lines.								
Central Piedmont	12&13				?		7		Ice
	An ice storm caused damage to trees, utility lines and some houses and other buildings. Ice laden trees broke utility lines and service was out in some areas for parts of 3 days. There were many automobile accidents with many injured and some killed. Also, some people were injured by falling trees. The counties most affected were: Caswell, Rockingham, Orange, Durham, Alamance, Guilford, Forsyth, Rowan, Davidson, Randolph, Chatham, Moore, Montgomery and Stanley.								
Central Piedmont	19&20						7		Ice
	A second ice storm within a week caused considerable damage to trees, utility lines, houses and other buildings. Long electrical outages left a few areas short of water. There were many injuries and a few deaths from automobile accidents. The counties most affected were: Warren, Vance, Granville, Person, Caswell, Rockingham, Forsyth, Guilford, Alamance, Orange, Durham, Chatham, Randolph, Davidson, Davie, Rowan, Iredell, Catawba, Lincoln, Cleveland, Gaston, Lee, Moore, and the northern parts of Montgomery and Stanley.								
NORTH CAROLINA (continued)									
Most of N.C.	25 & 26				1	over 10	7		Wind
	<p>Late on the 25th and early on the 26th, strong gusty winds developed across North Carolina causing \$11,000,000 damage. Damage was widespread from the eastern slopes to the coast. Most extensive damage was to trees & utility lines. High gusts of around 85 mph were recorded at Hickory and the Greenville-Pitt airports. Some of the damage by county: Yadkin \$1,874,184; Catawba \$893,264; Iredell \$375,000; Duplin \$150,000; Jones \$400,000; Franklin \$119,632; Moore \$90,000; Nash over \$450,000; and Edgecomb over \$450,000. One man was killed in Winston-Salem when the car he was driving was hit by a falling tree. Ten or more others were injured by flying debris and damaged mobile homes.</p>								
NORTH DAKOTA									
North Dakota	24-25				2	-	?	-	Blizzard
	<p>Intensifying storm moved from Lake Winnipeg area across Minnesota to the Great Lakes. Snowfall generally light. Strong northerly wind gusting over 50 mph. Visibilities in blowing snow near zero much of state. Wind chills 60-70 degrees below zero. Many roads closed due to heavy drifting.</p>								
OHIO									
Entire State	8-9				4	25	6	0	Lightning, Heavy Snow, High Winds
	<p>Rain began during the early morning hours on the 8th. The rain changed to snow during the morning as temperatures fell and winds increased. Temperatures dropped steadily through the 9th falling below zero. Winds increased on the 8th and remained strong through the 9th creating blizzard conditions in many areas of the state. Lightning was reported during the early morning hours on the 8th and several lightning strikes started fires. Many roads, schools, and businesses were closed and the National Guard was called to rescue stranded motorists. Many cases of frostbite and exposure were reported. A 29 year old Cincinnati man slipped on ice striking his head on a building. He was knocked unconscious and froze to death. A 53 year old Stark county man collapsed and died from heart problems and exposure while trying to free his car from a snow drift. An 86 year old Andover man went outside and became lost in zero visibility from snow and froze to death. In Ross county a 14 year old boy fell 10 feet into a ravine and froze to death in a snowbank.</p>								
Southern Third of State	17	all day			0	0	4	0	Heavy Snow.
	Up to 15 inches of snow fell in the southern counties closing roads schools and businesses. Numerous utility outages were caused by the heavy snow.								
Entire State	20				0	5	6	0	Heavy Snow
	Up to 18 inches of snow fell throughout the state. Road, schools and businesses closed and travel was hazardous. Many motorists were stranded. Several frostbite cases were reported. A number of roofs and awnings collapsed from the weight of the snow. One awning collapsed on a 46 year old Hamilton woman injuring her.								
Entire State	26-27				51	Num-erous	9	8	SEVERE BLIZZARD
	<p>The worst blizzard of the century moved into Ohio during the early morning hours of the 26th. Snowfall in excess of 10 inches was blown into drifts up to 25 feet deep. Winds averaged 50 to 70 mph an hour and peak gusts were in excess of 100 mph an hour. Winds subsided somewhat late in the day on the 26th but remained strong through the 27th. Visibilities were near zero much of the 26th and 27th. Temperatures were in the 40s just prior to the blizzard and dropped steadily to below zero by the night of the 26th. Some flooding occurred in southeast Ohio during the early morning hours of the 26th before temperatures dropped below freezing. One death was caused by flooding. An elderly man drowned in water in his basement. The strong winds, low visibilities, drifting snow, and cold temperatures disrupted utilities, stranded travelers and hampered rescue activities. Two storm-related deaths were from structures being blown down or collapsing from the weight of the snow. Twenty-two deaths were from people walking out of doors seeking help, either from homes with no heat or stranded vehicles. There were a few freak accidents. A man froze walking to a doctor's appointment, another man froze while working on a chicken coop, and a woman froze while walking her dog. Thirteen people were found frozen in stranded vehicles. Thirteen more people were found frozen in unheated houses. The storm caused tremendous economic losses throughout the state. The agricultural industry lost over \$60 million dollars in lost production and livestock deaths.</p>								
OKLAHOMA									
	NONE REPORTED								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OREGON									
Willamette Valley	2	6			5		UNK		Freezing rain, icy roads
Columbia Gorge	3								
Coast	5								High winds
Condon area	14	6			0		UNK	5	Freezing rain
Gilliam, Wheeler, Morrow counties	15								
Jackson County	18				0	0	UNK		High winds
PACIFIC									
Eniwetok and Wake Islands	10-12				0	0	5		Tropical Storm Nadine
<p>Large low pressure disturbance formed in Marshall Islands in cyclonically-turning surface wind flow into Tropical Cyclone Bob in Southern Hemisphere. Several days later on 8th, first warning issued for Tropical Depression southeast of Ujelang. Slowly moving north, it intensified to Tropical Storm Nadine on 10th about 75 miles southwest of Eniwetok. Continuing north and passing west of Eniwetok, Nadine turned northeast aiming straight for Wake Island. It passed about 100 miles south-southeast of Wake into a weak frontal zone northeast of Wake. On Eniwetok, damages from estimated peak gusts of 70 mph and storm wave action not known. On Wake, at weather station, on 12th, lowest sea level pressure 29.40 inches and peak gust 64 mph. Storm wave damages confined to south side of Wake and Wilkes Islands.</p>									
PENNSYLVANIA									
EASTERN									
Eastern	1	Noon to 2			0	0	2	0	Snow
<p>Light snow with accumulations of 1 to 4 inches fell over Eastern Pennsylvania. Some sleet and freezing rain mixed with the snow at times. Very hazardous driving conditions resulted and caused numerous automobile accidents.</p>									
Eastern	8	7 AM to 9							Heavy Rain, Wind Snow
<p>Heavy rains and quite mild temperatures caused snow melt with the result being road and stream flooding, many basements flooded and a few bridges washed out. Strong winds with gusts of 40 to 60 mph downed trees, limbs and power lines. Also damaged roofs. Falling trees damaged buildings and automobiles. Over 10,000 customers lost electrical power. Rapidly falling temperatures, as much as 20 degrees in a few hours, changed the rain to snow, and froze the water on roadways, trees, utility lines and buildings. Snow accumulations ranged from a light dusting south up to four inches north. The snow and freezing water caused treacherous driving conditions and countless traffic accidents resulted. A dozen or more injuries were sustained in these accidents, a few of them rather severe. At least 2 accidents were caused by high wind gusts causing the driver to lose control of the vehicle, injuries resulted.</p>									
Eastern	13	4 AM to 14			0	0	6	0	Snow, Ice Storm
<p>Snow began early on the 13th and continued off and on through most of the 14th. Snow accumulations were 2 to 5 inches south and 5 to 16 inches north. Some sleet and freezing mixed with the snow in all but northwest sections and the precipitation changed to all rain or freezing rain in the southeast. The area from the Philadelphia suburbs north and west to the Allentown area, Reading area, Lancaster area, and York area was especially hard hit by freezing rain. A glaze 1/2 to 1 inch thick was deposited on trees, bushes, utility lines and anything else that was exposed. The weight of ice caused extensive damage to trees and shrubbery as well as to utility lines. Falling trees and tree limbs damaged automobiles and buildings and brought down utility lines. Over 200,000 customers had electrical power interrupted and hundreds lost telephone service. The damage was so extensive that in some isolated cases customers were without power for 48 hours or more. Trees and tree limbs continued to fall for a day or two after the freezing rain ended. Many roads were closed for a time due to trees or large limbs blocking the roadway. Slippery roadways caused many automobile accidents resulting in 2 deaths and many injuries. Fortunately only a few of the injuries were serious.</p>									
PENNSYLVANIA (continued)									
EASTERN									
Eastern	16	7 PM EST to 7 AM EST			0	0	5	0	Heavy Snow Heavy Rain
<p>Snow began at night on the 16th and continued into the 17th. The snow became mixed with sleet and freezing rain late in the day and changed to rain southern sections at night. The precipitation changed back to all snow northern areas the night of the 17th but continued as rain, heavy at times, south. Snow accumulations reached 5 to 10 inches south and 8 to 12 inches north. The weight of the new snow and ice on ice and snow remaining from the previous storm brought down trees, tree limbs and utility lines. Around 15,000 customers had power outages. Several buildings had their roofs collapse under the weight of accumulated snow and ice. The heavy rain in the south caused considerable roadway flooding and some stream flooding.</p>									
Eastern	19	2 PM to 20			0	1	6	0	Heavy Snow Wind
<p>Snow and ice on roadways caused numerous traffic accidents which resulted in injuries and at least 2 deaths.</p> <p>Heavy snow mixed at times with sleet and freezing rain resulted in new accumulations of 9 to 16 inches. This on top of snow and ice from two other storms within the week brought the total accumulation on the ground to 2 feet or more in many areas. Winds which gusted to 35 to 50 MPH caused near blizzard conditions and 6 to 10 feet drifts in some sections. Many roads were closed for a time and some secondary roads for several days. Many roads, when opened, had only one lane for some time. The heavy accumulation of snow and ice on roofs caused roofs to collapse or be damaged throughout Eastern Pennsylvania. Roofs on buildings of all types, porch roofs and marquees fell victim. Roofs on greenhouses, garages, storage buildings, homes, industrial buildings, barns, supermarkets and other large stores gave way. Damage to individual buildings was as much as \$500,000. One woman was injured when a portion of her trailer home collapsed. Some of the roofs collapsed a day or two after the storm had ended. About 25 head of cattle were killed when various barn roofs collapsed. The gusty winds added to the stress on buildings and contributed to some of the damage. Aside from many stranded vehicles due to deep snow drifts, traffic accidents accounted for many injuries and at least 2 deaths. The snow and some ice on trees and utility lines resulted in power interruption to about 10,000 customers. At least 4 deaths were attributed to heart attacks with the victims shoveling or traveling in the snow.</p>									
Eastern	24	11 PM to 26			1	11	6	0	Heavy Rain, Wind
<p>Freezing rain began during the night of the 24th to 25th then changed to rain before noon on the 25th. The rain was heavy at times and combined with very mild temperatures and high winds during the night of the 25th to 26th to melt most of the heavy snow that was on the ground. The result was widespread basement, roadway and stream flooding. Nearly all low-lying spots on roadways were flooded and the water reached 2 to 4 feet in some locations and also in some basements. Many vehicles became stalled in the deep water on roadways and a few hundred people had to evacuate homes near streams. There were road washouts, mudslides and basement walls collapsed. The weight of the rain water saturating the snow already on roofs caused many to collapse. The buildings ranged from small storage sheds and garages to large retail stores and manufacturing plants. Nine people were injured when the roof of a lingerie manufacturing plant collapsed and a woman was injured when a snow covered awning fell on her. Rainfall amounts were mainly in the 1.5 to 3 inch range. The high winds gusting to 55 to 65 MPH damaged roofs, overturned house trailers and also brought down trees, tree limbs and utility lines. One tree fell on a house and injured a man inside. In Philadelphia a large crane was blown over and killed a man in a small building nearby. Nearly 40,000 customers had electrical power interrupted and over 1,000 lost telephone service for a time.</p>									
PENNSYLVANIA									
WESTERN									
Western Pennsylvania	8-9				0	?	?	0	Snow, wind
<p>Rain changed to snow on the 8th and strong winds developed the following day. Four to ten inches of snow fell closing many school systems. One motorist died when his car skidded off a snow-covered road and struck a utility pole in the Pittsburgh area. Two Erie county men died of heart attacks while shovelling snow. About 50 persons were stranded on Erie county roads and spent the night of the 8th in temporary community shelters. Wind gusts of 60 mph were recorded at the Erie Airport at 12:44 am on the 9th, while the Greater Pittsburgh International Airport recorded a peak wind gust of 44 mph at 8:46 pm on the 9th.</p>									
Western Pennsylvania	16-17				0	?	?	0	Snow
<p>Heavy snow, up to 17 inches, closed schools and made travel hazardous. A warehouse roof in Blair county collapsed due to the weight of accumulated snow.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
PENNSYLVANIA (continued)									
WESTERN Western Pennsylvania	20-21				0	?	8	0	Snow
	<p>A foot or more of snow fell over much of the area. At least four men died of heart attacks while shovelling snow. Hanger roofs at Remick Airport (Russellton) and also at the Allegheny County Airport (Pittsburgh) collapsed due to the weight of two feet of snow. Seven aircraft were either destroyed or heavily damaged. 15 to 20 barn roofs throughout Western Pennsylvania collapsed under the weight of heavy snow. Roofs of various structures (house porches, businesses, fairground buildings and warehouses) gave way also during this two day period. A 120 foot long section of a roof of a farm livestock building in Bedford county collapsed and injured 12 cattle. The Pennsylvania State University main campus closed due to the heavy snowfall. This was the university's first snow closing in 12 years.</p>								
Western Pennsylvania	26				0	?	8	0	Wind, snow
	<p>High winds, snow, and blowing snow along with plunging temperatures combined to produce near blizzard conditions across the region. Peak wind gusts of 68 mph (4:42 am) at the Greater Pittsburgh International Airport and 78 mph (8:25 am) at the Erie Airport were recorded. Four large plate glass windows were blown in at a Sears store in Oil City and merchandise in the store was damaged. The roof of a United Parcel Service building in Seneca was blown off. In the vicinity of Hillwood City, siding was blown off a manufacturing plant while high winds also demolished a mobile home and heavily damaged the roofs of two homes. In Butler county strong winds destroyed two mobile homes. High winds and heavy snow cover combined to collapse the roof of a furniture warehouse in McConnellsburg (Pulton county). In general, many business and residential structures sustained damages due to the high winds throughout Western Pennsylvania. Widespread electrical outages resulted when power lines and poles were downed and transformers damaged. At least 80,000 customers were without electrical power at some time during the day in the Allegheny county region. Widespread school closings occurred, and travel was hazardous due to the high winds, snow, and blowing snow especially in the northwestern portion of Western Pennsylvania.</p>								
PUERTO RICO									
Vieques Passage	7	7:00 a.			0	0	0	0	Waterspout
Vieques Passage	30	6:50 p.			0	0	0	0	Waterspout
RHODE ISLAND									
Statewide	9	All Day			0	0	6	0	Wind, heavy rain
	<p>Strong southeasterly gales brought the highest tides in a decade. 50 people outside the New Bedford hurricane barriers were evacuated. The closing of the barrier kept 2 feet of water out of downtown New Bedford. Trees, power lines and plate glass windows succumbed to the high winds which gusted to 76 knots. The radio tower of a Providence Station toppled into the Seekonk River. There was extensive damage at most marinas as high waves battered floats and docks. In Charlestown and Misquamicut Beach several cottages were destroyed by waves. A large lobster boat was sunk as waves lashed it against a dock. A large greenhouse was destroyed by wind in Middletown.</p>								
Statewide Hope Valley North Stonington Richmond	14				0	0	7	0	Ice storm
	<p>Heavy glaze broke trees and power lines leaving plumbing to freeze in unheated houses. 120,000 customers lost power. This was the worst ice storm in 30-50 years.</p>								
Statewide	20	All Day			0	0	5	0	Heavy snow
	<p>A powerful northeast coastal storm blanketed the state with 15 to 20 inches. A state of emergency was declared by the Governor as the snow brought Rhode Island to a standstill. Several more large sized flat roofs fell in.</p>								
SOUTH CAROLINA									
Eastern	8-9	Night			3	1	5	1	High Winds
	<p>High winds associated with a rapid moving cold front caused considerable minor wind damage mostly in eastern South Carolina. Falling trees damaged utilities in Union, Kingstree, Myrtle Beach, Charleston and a number of other areas. A tug boat was swamped near south end of St. Helena's Island drowning 3 people and injuring 11.</p>								
SOUTH CAROLINA (continued)									
Northwestern	13	A.M.			0	0	4	0	Snow, Sleet, Freezing Rain
	<p>A winter storm moved from Gulf of Mexico north-eastward up the eastern coast. One to two inches of snow and ice in northwestern South Carolina caused considerable minor damage to utilities.</p>								
Statewide	25-26				2	2	6	2	High Winds, Flash Flooding
	<p>A very intense winter storm developed in the Gulf Coast area and moved northwestward with center passing just west of Appalachians causing winds of 60 to 70 mph across S.C. between 9 P.M. and midnight with winds occasionally above 40 kts on 26th. Lowest pressure in many years at most reporting points. Rains of 2 to 4 inches on already soaked soils produced flash flooding in higher elevations of northwestern South Carolina. A weather related death occurred in Aiken and near Woodruff. Also 2 people injured in Cherokee Co. when mobile home overturned. Extensive wind damage to trees, utilities, roofs, and many farm and other small buildings throughout state. Several marinas damaged on lakes in state.</p>								
Statewide	26-31				0	0	5	0	Flooding
	<p>Moderate to heavy lowland flooding developed along most major rivers late in the month. River swamplands flooded disrupting lumbering and other woodland activities.</p>								
SOUTH DAKOTA									
South Dakota	25 & 26				1	0	?	0	Blizzard
	<p>Light to moderate snowfall driven by strong gusty winds brought blizzard conditions to most of South Dakota. Winds gusting to near 40 MPH blocked nearly all roads stranding many motorists throughout the state. Snow accumulation was mostly less than four inches. One fatality was attributed to the storm, when a 71 year old woman wandered away from a nursing home in Mobridge. Loss of livestock cannot be assessed at this time.</p>								
TENNESSEE									
Memphis International Airport, Shelby County	6	3:31 a.							Hail
	<p>Hail, some measuring one inch in diameter fell during a thunder-storm between 3:29 a. - 3:33 a.</p>								
Savannah, Hardin County	7	6:40 p.	1	100			5		Tornado
	<p>There was a half mile trail of destruction and damage. The tornado caused minor damage in the Coffee Landing area and crossed the river, touching down again near Cravens Road, then jumped to near the Cerro Gordo area. A house, along with outbuildings, was destroyed. Several garages and cars were damaged and trees, too, were uprooted and power lines snapped.</p>								
Brighton, Holly Grove Road Area, Tipton County	7	7:30 p.	3	100			5		Tornado
	<p>Nine houses were heavily damaged and three mobile homes destroyed. The tornado first touched down on the Brighton-Holly Grove Road about one mile west of Brighton where a barn was destroyed. It then skipped along for about 3 miles. Trees were twisted like tooth picks.</p>								
Kingston, Roane County	17	2:30 p.			1	4			Ice and snow
	<p>One person was killed and four injured when the roof of the Penn Dixie Cement Corporation Building collapsed. The added weight from the accumulation of ice and snow has been cited as the possible cause of the cave-in.</p>								
Johnson City, Washington County	26	12:45 a.					4		High wind
	<p>High winds tore a hole in the fabric-air-pressure-supported roof of the Milligan College's Steve Lacy Fieldhouse. The fiberglass dome is teflon coated. A very strong low pressure system was moving through the area, and strong winds had buffeted the dome for quite a while. One gust of wind was measured at 70 mph. The strong wind and rapid drop in atmospheric pressure and temperature contributed to the depressurization of the building.</p>								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS NORTHERN									
North Texas									Cold Temperatures, Snow, and Ice Storms.
									After mild weather during the first week of January, very cold weather moved into North Texas on the 8th and continued through the end of the month. For the second consecutive year, the mean January temperature at the Dallas/Fort Worth Airport was a record low (33.8 degrees F.). Similar records were set in other portions of North Texas. In a 7 day period from January 16 through January 23, the temperature at the Dallas/Fort Worth Airport did not rise above freezing, another new record. Damaging ice and snow storms occurred on the 11th, 18th, and 21st days of the month:
North Texas	11	All Day			0	0	6	5	Freezing Rain and Ice Storm
									Freezing rain and sleet began shortly after midnight and continued through much of the day. Many business and schools were closed over North Texas because of very hazardous driving conditions. Heaviest damage appeared to be in Northeast Texas, particularly in Panola, Bowie, Cass, Titus, Smith, Red River, Wood, Franklin, and Camp Counties. A number of collapsed roofs and poultry sheds were reported in these counties. Throughout North Texas, numerous traffic accidents were caused by the ice-covered roads.
North Texas	18	All Day			1	0	6	4	Ice and Snow Storm
									Freezing rain during the morning turned to snow around noon before ending during the evening. Most of the precipitation was confined to an area bounded by Wichita Falls, Waco, Longview, and the Red River. Snow amounts were generally from 2 to 3 inches with 4 to 7 inches falling along and south of the Red River from north of Fort Worth to Paris. Seven inches fell at Lake Texoma. Building damage was not as heavy as with the January 11th storm, but road damage and automobile accidents were common. Many water mains reportedly broke in the Dallas/Fort Worth area. One person was killed in an ice-related traffic accident in Tarrant County.
North Texas	21	All Day			0	0	4	?	Snowstorm
									The third major winter storm of January began when a 75 to 100 mile wide band of snow moved into the San Angelo area during the early morning. Up to 8 inches of snow fell in the San Angelo area. The storm moved northeast, across the Dallas/Fort Worth area and into northeast Texas near Texarkana. Most snow amounts were from 1 to 3 inches, but a band of 4 to 5 inch amounts extended from the heavy snow center near San Angelo through southern portions of the Dallas/Fort Worth Metroplex. Damage was mostly confined to additional street and highway cracking and a few automobile accidents.
TEXAS SOUTHERN									
TEXAS HILL COUNTRY	11	Morning			0	0	?	?	Glaze ice
									Light freezing rain fell and formed a glaze during the early morning hours causing hazardous driving conditions throughout an area from San Antonio to Austin and northward across the Texas Hill Country to Junction. No damage reported.
TEXAS WESTERN									
									NONE REPORTED
UTAH									
									NONE REPORTED
VERMONT									
AREAWIDE	7-10				0	?	4	0	SNOW AND WIND
									A storm that moved Northward through the upper Champlain Valley on the 7th brought light snow on the 7th and snow and rain on the 8th and 9th. Following the passage of this intense storm center, temperatures plummeted rapidly. Wind gusts were damaging. Several accidents on slick roads were reported on the 9th, but no major injuries were sustained. A roof was blown off a building at Manchester Depot and a power outage was caused by wind damage at Sugarbush on the 10th.
AREAWIDE	14-15				0	?	4	0	SNOW AND WIND
									A storm that moved Northward along the Atlantic Coast on the 14th and 15th brought nearly a foot of snow to Southern Counties and only a few inches to the far north. High winds were damaging in Burlington where power outages occurred. Roads were slippery with several accidents but few major injuries. A bus overturned at Searsburg.
VERMONT (continued)									
AREAWIDE	17-18				0	?	3	0	SNOW
									A storm that moved from coastal New England on the 18th, to Nova Scotia on the 19th, brought 6 to 12 inches of snow to Vermont. Roads were generally treacherous while secondary roads were closed. Bus and plane travel was delayed or cancelled. Many schools were closed. No major accidents were reported.
AREAWIDE	21				0	?	5	4	SNOW AND WIND
									A coastal storm that moved past Hancock on the 21st to the Canadian Maritimes on the 22nd gave Vermont up to a foot or more of snow. Scores of minor accidents occurred. Power outages resulted from high winds. Heavy snow loads caused a few roofs to collapse. An arena roof valued at \$33,000 collapsed at Marlboro. A large barn collapsed at Irasburg. Most of the car accidents resulted in minor injuries but a few serious ones were also reported.
AREAWIDE	25-27				0	?	5	0	FREEZING RAIN
									An intense storm that moved Northward through Western New York on the 26th brought around an inch of freezing rain and rain to Vermont. A number of car accidents ensued and two persons were killed in the major ones. Several others had minor injuries, but only a few seriously. One tractor-trailer knocked down two power poles and electric service was interrupted to about 1500 customers in and around Strafford. The rain caused some ice jam flooding and minor urban flooding where poor drainage was a factor.
VIRGINIA									
Entire State	8-9				0	0	4	0	Wind, Snow, Rain, Flooding
									Intense low pressure system moved into the northeastern states and carried a strong cold front through the mid Atlantic area. Six to seven inches of snow fell over the extreme southwest portion of the state, while heavy rains in advance of the frontal zone resulted in flooding over the central and lower eastern shore areas and forced the closing of many secondary roads. Winds gusting to 50 mph also caused a portion of a building to collapse in Culpeper and toppled a three-story office building under construction in Fairfax County.
North, Central, West Portions	12-14				0	0	4	0	Snow, Sleet, Freezing Rain
									Snow began the evening of the 12th over the extreme southwestern sections, continuing over the remaining portion on the 13th, with a secondary fall the evening of the 13th to the morning of the 14th. Snow depths ranged from 8 to 12 inches over the western counties with heaviest amounts over Allegheny and Bath Counties. East of the mountains snow totaled 4 to 8 inches. In the Richmond area snow was less, but accumulation of sleet and freezing rain caused serious problems to power facilities, with some 71,000 people having interruptions in power service.
Central & West Central	17				0	0	3	0	Glaze, Snow
									Freezing rain and sleet caused widespread power outages over the central counties of the state due to ice-laden trees and electrical lines. To the west precipitation was in the form of snow, with an additional 7 to 12 inches bringing accumulative totals to around 20 inches.
Statewide	19-20				1	1	6	0	Winter Storm
									Third major storm in a week paralyzed a large portion of the state. Precipitation was in the form of snow over west and northern sections, freezing rain and sleet over south central and heavy rain in the Tidewater area. Amounts of new snow ranged from 4 to 8 inches east of the mountains to around one foot over the higher elevations and in the Charlottesville area. Accumulative snow of 30 inches reported in west central counties. Clarkburg and Richmond had devastating ice storms with major power disruption and tree damage. Many small buildings had roofs collapse due to snow accumulation, while a store in Winchester was evacuated when roof was observed to sag six inches. Several injuries attributed to traffic accidents, with one man injuring an ankle when a roof fell. At least one death was attributed to exertion while shovelling snow.
Chase City (6E), Mecklenburg County	26	1:00 a	1/10	15	0	0	4	0	Tornado
									Tornado, moving southwest to northeast, apparently dipped down to ground briefly, and ripped 2/3 of roof off Mecklenburg Academy. A football field pressbox, opened to the oncoming prevailing wind, and nearby trees were undamaged. Witness a half mile away from the school said he heard noise such as made by a freight train or low-flying jet. Estimated damage to roof: \$25,000.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
VIRGINIA (continued)										
Stafford County	26	2:00 a	3/4	250	1	10	5	0		Tornado
	Tornado first touched down at housing project on Quantico Marine Base, where it completely destroyed 13 duplex units, badly damaged 15 units and inflicted minor damage upon 13 other units. A total of 53 families were affected in the project, with only five persons receiving minor cuts, bruises and/or gas inhalation which did not require hospital treatment. Several witnesses reported a roaring noise similar to a train passing by. One or two others said they saw the funnel skipping along, illuminated by lightning flashes. The tornado apparently continued in a northward direction down a wooded gully, bowed out a 12-foot section of cyclone fence, and then struck a trailer court. The first mobile home in the line was pushed into the adjoining one and then lifted and demolished, with pieces strewn back to the south. The family of six was tossed in all directions. Three required hospital treatment while the body of the 3-year-old boy, missing for eight hours, was found under debris. Two persons in the adjoining trailer received minor injuries. Damage to the housing project estimated at \$250,000; damage to trailer park, \$20,000.									
Statewide	26				0	2	6	0		Wind
	Very intense low pressure system lashed the state, with 50 to 60 mph winds beginning early in the morning and continuing most of the day. In the vicinity of the Chesapeake Bay Bridge-Tunnel gusts of 80 to 90 mph reported. Widespread variety of damage from collapsed buildings, downed trees and power lines, and upset mobile homes with at least two persons receiving wind-related injuries.									
Central, Northern and Southern Sections	26-28				0	0	6	0		Flooding
	Prolonged rains, coupled with melting snow caused flooding of many streams and rivers. Mudslides, washouts and bridge destruction closed some 500 roads over the state, with some of most serious flooding in the Scottsville area.									
VIRGIN ISLANDS										
	NONE REPORTED									
WASHINGTON										
	NONE REPORTED									
WEST VIRGINIA										
Statewide	8th evening	9th and early morning			0	0	0	0		Heavy Snow
	Heavy snow blanketed the state causing traffic mishaps and delays. Average snow depths around the state ranged from 4 to 10 inches.									
West, Northwest, Southwest, Northern Panhandle, North Central	19th	Both	20th	Days	0	0	5	0		Very Heavy Snow
	An intense winter storm developed over northwest Florida then moved north northeast passing across West Virginia. Very heavy snow fell across the western half of the state. Cities and towns were paralyzed. Many roofs and awnings collapsed under the weight of nearly two feet of snow. 15.8 inches fell in a 24 hour period at Charleston for the most snow in a 24 hour period. Twenty four inches on the ground was the greatest snow depth on record. Generally, storm totals ranged from 12 to 18 inches with 20 to 30 inches reported in sections of Boone, Logan, and Mingo counties.									
Statewide	26th	Both	27th	Days	1	2	7	0		Flooding
	Rapidly developing low pressure over Alabama moved northward passing west of the state on the 25th and 26th. The combination of rain, warm temperatures, and high winds contributed to a rapid snowmelt. Ten rivers exceeded flood stage. The most serious flooding occurred along the Little Kanawha and the lower Tug Fork Rivers. Initial estimates along the Little Kanawha list flood damage in excess of \$700,000. At least six bridges in the state road system were washed out. Statewide, 3,000 persons were forced to evacuate their homes. A man of the Laurel Park area of Harrison County fell into the swift moving waters of the Tug Fork River and drowned. Two men were treated for exposure when a rescue boat they were in capsized.									
WEST VIRGINIA (continued)										
Statewide	26th	Day-light into early evening hours			0	0	5	0		Windstorm
	Intense storm moved north through Ohio. Winds gusts averaged 55 to 65 miles per hour across the state. Winds gusted to 75 miles per hour at Clarksburg. Numerous power lines were downed. Several roofs were blown off. Many were damaged.									
WISCONSIN										
Southeast	25-27				1	?	?	0		Heavy snow and blizzard
	A deep low pressure system tracking northeastward from the Gulf of Mexico to Lake Huron during the 25th and 26th resulted in heavy snow with blizzard conditions across the southeast half of Wisconsin. The storm described by the Wisconsin press as "The Blizzard of 78" dumped from 6 to 12 inches of snow in the south and east with 1 to 3 inch totals in the northwest. Milwaukee's total of 11.8 inches was greatest for a major reporting point. Northwest winds of 25 to 35 mph were reported during the 26th with gusts up to 58 mph logged at both Green Bay and Madison. The combination of high winds and snow resulted in numerous highway closings in the southeast with 5 to 15 foot drifts reported across primary and secondary roads by mid day. State police requests for no travel were ignored in many instances as numerous multi-car accidents were reported south and east of a line from Dubuque, Iowa to Green Bay, Wisconsin. Visibility was reported near zero in this area. By nightfall of the 26th, stranded travelers were reportedly filling up schools, churches, motels, and restaurants over much of southeast Wisconsin. In addition to numerous secondary school closings, the University of Wisconsin at both the Madison and Milwaukee locations suspended classes on the 26th. Milwaukee's Mitchell Field was also closed on the 26th which sent scores of additional stranded travelers in search for rooms. In rural Dshkosh in Winnebago County a tragic exposure death occurred when a 27 year old woman lost her bearings while traveling by snowmobile to a neighbor's home during the afternoon of the 26th. Zero visibility was reported in the area at the time of the incident. By the morning of the 27th additional problems developed as blocked highways forced farmers to dump hundreds of thousands of pounds of milk. At the same time this was occurring, snowmobilers were reportedly transporting groceries and milk to communities isolated by the enormous drifts built by the storm. The "Blizzard of 78" will be remembered by Wisconsin residents for the massive traffic tie-ups it caused as well as its effect on many a community's snow removal budgets which were reportedly wiped out for the entire 77-78 season.									
WYOMING										
	NONE REPORTED									

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	

THE FOLLOWING ARE LATE REPORTS, CORRECTIONS, AND DELETIONS:

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
LATE REPORTS PACIFIC									
DECEMBER 1977									
Marshall Islands	24-27				?	?	??	C	Typhoon Mary
<p>Wotho Island experienced gusts to 80 mph and sustained heavy damage to crops. Ujae Atoll reported damage to 77% of crop. Other atolls damaged by Mary included Ubarik, Rongorik, Rongelap, Ailinginae, Likiep, Lae, Ujelang and northern part of Kwajalein.</p>									
CORRECTIONS COLORADO									
MAY 1977									
Baca County	18	1300-1400	42	50-590	0	0	6	?	Tornado
<p>The track of this tornado began in Oklahoma, passing near the town of Keyes. The track started northeasterly, but became northerly before crossing a point 4 miles west of the Kansas border on highway 51 after it entered Baca County in Colorado. (A weaving path was observed slightly after the tornado began moving to the north.) The track was lost about 3 miles east of Stonington, north of the Cimarron River. The cyclonically rotating tornado averaged about 1/3 miles wide in the area of most destruction--from 2 miles south to 1 mile north of highway 51. At crossing the Cimarron River, the tornado was only 50 yards wide. The tornado passed a point 2 miles south of highway 51 at 1340 MST. A dark streak was indicated in the rotation core. Some of the damage was F3 and F4, but part was at least F5. In the area of F5 damage, there was a wheat field that had cactus and silckweeds dropped into it. The origin of the cactus and silckweeds from a pile of the materials 5 miles north of Keyes, Oklahoma. Most of the damage debris in the area of greatest damage was blown from 1/8 to 1/2 mile. This included pickup trucks, combines, and other farm machinery. Some of this was rolled into balls of wrecked metal and some disappeared entirely. Trees were broken and the remaining trunks stripped of their bark. One house was totally leveled, except for one wall, and blown into a field. This house, 15-20 years old, was of average construction. Near the house, cattle were thrown around some distance. A heavy railroad grain car door was crumpled and carried several hundred yards and driven halfway into a living room after passing through a wall near the corner of the house. Several sheds and round houses holding farm machinery were blown away with the machinery, leaving only the foundations. The tornado funnel was cone shaped, 5 times wider at the top than at the ground.</p>									
CORRECTIONS MISSISSIPPI									
DECEMBER 1977									
Laurel, Jones County	13	5:30 PM	1	300	0	0	5	0	Tornado
<p>A small tornado touched down briefly in the Bruce community near Highway 81, about 10 miles west of Laurel and 3 to 4 miles southeast of Hebron. The houses were extensively damaged and an unoccupied wood frame house was destroyed. One other house and a few out-buildings were also damaged. Total damage \$100,000.</p>									
DELETE MISSISSIPPI									
DECEMBER 1977									
Bruce, Jones County	13	5:30 PM	1	300	0	0	5	0	Tornado
<p>A small tornado touched down briefly in the Bruce community near Highway 81 W, 1/2 mile north of Big Creek extensively damaging two houses and destroying an unoccupied wood frame house. One other house and a few outbuildings were also damaged. Total damage \$100,000.</p>									

Includes crop damage.
 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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