

FEBRUARY 1978

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# STORM DATA



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



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 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	
<b>HAWAII</b>									
2 mi. S of Laau Pt., Molokai	1	8:56a							Waterspout
									Waterspout moved NE.
2 mi. SW of Laau Pt., Molokai	1	10:14a							Waterspout
1 mi. off Waikiki, Oahu	3	8:25a							Funnel cloud
7 mi. NNE of Barking Sands, Kauai	3	10:26a-10:31a							Funnel cloud
15 mi SE of Hilo, Hawaii	22	5:35p-5:45p							Waterspout
									Rope-like waterspout moved west and weakened to funnel aloft over land.
North Kona to Kau, Hawaii Island							6		Dry spell
									Dry spell continued through month. Scant rainfall recorded: Pahala .86 inch or 13% of normal, Naelehu .64 inch or 11% of normal, Puu Naaweas .09 inch or 3% of normal, Keinaliu .68 inch or 24% of normal, Pahoa 3.94 inches or 30% of normal. Damage assessment by Dept. of Agriculture indicated heavy sugar \$1,600,000, macadamia nut \$500,000, coffee \$850,000, pasture \$2,200,000, cattle \$300,000. Report from Hawaii indicated pasture loss of \$300,000.
<b>IDAHO</b>									
Blaine County	8-11				0	0	4	0	Heavy Snow
									Heavy snow caused the collapse of the old Ketchum railroad depot which was to be converted into a Ketchum City Museum. Two feet of snow fell at Ketchum in four days, and heavy snows throughout the County caused severe avalanche hazards in some areas.
<b>ILLINOIS</b>									
Entire State					0	0	?	?	Heavy Snow
									Snowfalls this winter season have approached or exceeded record amounts over much of the state. Trade and commerce have been delayed and travel has frequently been impossible or very hazardous. Persistent, extremely cold weather has compounded the difficulty, delaying the melting of the snow.
Entire State					0	0	0	0	Extreme Cold
									Month Temperatures were reported as much as 15 degrees below normal over the state for the month. Rockford had its second coldest February on record and Moline recorded its third coldest February. Also at Moline, the temperature remained below freezing 47 consecutive days this winter and there were 41 days of below zero readings.
<b>INDIANA</b>									
									NONE REPORTED
<b>IOWA</b>									
Southern Half of Iowa	12-13	6:00 P-6:00 P			0	0	0	0	Heavy Snow
									Heavy snow of 6-14 inches covered the southern half of the state with wind of 25 mph piling snow into 4 foot drifts. Many cars were stalled and were in ditches. Some roads were closed and most area schools were closed.
<b>KANSAS</b>									
Sherman County	10	4:00 a			0	0	5	0	Ice
									Accumulation of rime ice over the period February 6-10 apparently caused the collapse of the KLOE-TV tower in Goodland. Some telephone and power lines also suffered damage.
Entire State	12-13	5:00 a-11:30 a			0	0	6	0	Snow
									A storm center moved from the Texas panhandle eastward across Oklahoma through southern Missouri causing a major winter storm for most of Kansas. Heavy snow began in the southwest early on the morning of the 12th and spread a blanket of snow across the state by noon on the 13th. 4 to 10 inches fell to combine with some previously on the ground. Freezing precipitation occurred in advance of the snow in central sections. By the end of the storm, a band of snow 100 miles wide and 10 to 12 inches deep extended from Liberal in the southwest to Great Bend and Hill City and from Concordia to Topeka northward into Nebraska. Northerly winds of 15 to 25 mph with gusts to 35 to 40 mph caused considerable blowing and drifting. Snow-packed and icy roads contributed to numerous traffic accidents. Many secondary and some primary highways were closed by drifting snow stranding motorists and isolating farm families, and many schools, businesses and airports were closed. Damage was to power and telephone lines, collapse of some roofs from weight of the snow, and livestock losses. Fortunately, those stranded by the storm were rescued or found shelter.
<b>KENTUCKY</b>									
									NONE REPORTED
<b>LOUISIANA</b>									
Cameron Parish	12	6:20 PM	0.1	50	0	0	3	0	Small Tornado
									State Police reported a small tornado just west of Cameron knocked out power lines to the area.
Jefferson Parish	12	10 PM	1.8	50	0	1	5	0	Tornado
									A tornado first touched down in Metairie destroying a large outdoor movie screen at a drive-in on Veterans Blvd. and knocking over speaker posts. It skipped over I-10 and uprooted a large tree on James Drive, touched down again at 4714 Avron Blvd. and ripped off the roof of a large, new two-story house. The roof was dropped on a car about 300 yards away at 4917 Clearlake Dr. A young boy was slightly injured by flying boards.
Lafourche Parish	17	3:30 PM			0	0	2	0	Hail
									Golf ball size hail was reported south of Leesville.
Rapides Parish	25	6:45 PM			0	0	2	0	Hail
									Hail up to golf ball size in LeCompte-Cheneyville area.
Concordia Parish	28	2 AM			0	0	0	3	Windstorm
									A severe thunderstorm with high winds uprooted trees between Jonesville and Ferriday.
<b>MAINE</b>									
Coastal	6-7				0	10	7	0	Northeast Blizzard
									One of the monster storms of the century smashed into the New England coast the night of the 6th with the maximum period of damaging surf battering and coastal flooding on the 7th. Coastal points from Kittery to Eastport experienced severe damage with the heaviest concentration from York to Knox Counties. Several offshore lighthouses had to be evacuated and offshore islands such as Matinicus and Monhegan reported damages to wharves and buildings that had weathered a century or more of storms. Winds were reported 40-60 knots along the coast with higher winds offshore. The coastal battering and flooding was awesome, affecting areas that had withstood several decades of storms. Damages reached the 25 to 30 million dollar range. Miraculously there was no loss of life. The storm was accompanied by heavy snow, blizzard conditions, and huge drifts. Snowfall ranged from 7 inches along the coast to 2 1/2 feet in the western mountains. Tides at Portland on the 7th reached 11.3 feet, probably the highest in nearly a century, while unofficial tides of 16 to 18 feet were reported along York County shores.
<b>MARYLAND &amp; D.C.</b>									
Eastern Two-thirds	6				1	10	4	0	Snow, Wind
									Coastal storm brought from 5 to 10 inches of snow over the west portion of the area and a foot or more over the east portion, with 18 inches of snow at Havre de Grace - necessitating the calling in of National Guard units in that city. Storm said to be worst in a dozen years as near-blizzard conditions blocked roads as fast as they were plowed. Poor visibility responsible for a 23-car pileup near Frederick, in which 10 persons had to be treated for minor injuries. A's rest stop on the Kennedy Expressway, an 87-year-old man suffered a fatal heart attack after attempting to push a car stalled in snow. Poor weather and runway conditions at Baltimore-Washington International Airport forced major airlines to cancel flights.
Western Portion	13-14				0	0	0	0	Snow
									Low pressure disturbance moved eastward from Mississippi Valley bringing 4 to 6 inches of snow to Allegany and Washington Counties and up to 8 inches over Garrett County.

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					KILLED	INJURED	PROPERTY	CROPS		
<b>MASSACHUSETTS</b> Statewide	6-7	All Day			9	?	8	0	Blizzard	
<p>After just being hit by the January blizzard, the state was struck by one of the three most intense, persistent, severe winter storms in the history of records. Before snow began winds were already gusting to 65 MPH. As snow began it stung like lead pellets. Visibility fell to near zero as 2 inches per hour added up. Logan Airport in Boston was closed for the longest period on record as it took nearly a week to clear its areas. All travel was halted as major roads became snow filled. Boston's outer circumferential artery was jammed with three thousand cars most covered to windshield heights. It took an army of National Guard snow fighting troops three days to open this freeway. People were plucked from their cars by helicopters or rescued by snowmobile.</p> <p>The storm moved slowly eastward just south of New England as a circular upper atmospheric low moved over the surface circulation. This persistence coupled with a rather high astronomical tide brought one of the several highest tides of record. Houses in Scituate, Plymouth, Hull, Nantasket, Revere, Nahant, Gloucester and Rockport took a severe beating. Many were completely smashed as tides 3 to 5 feet above normal and waves to 10 feet high broke ashore. In Nahant a man was drowned in his cellar and in Scituate an old man and 5 year old girl drowned as floodwaters swept them from their rowboat as they were being evacuated. Thousands of people were forced to leave their homes and spend up to 5 days in emergency storm centers. Most people waited in their homes to the last minute hoping that the rising seas would stop. It only became apparent that this storm was an extraordinary occurrence as their windows and doors began breaking in.</p> <p>At sea the drama was even more intense. A 600 foot oil tanker was blown around off Salem and four brave men in the pilot boat "Cap Do" went out to investigate. Zero visibility and 30 foot seas smashed the boat's radar and windows and finally sunk the boat killing all four aboard. Wind gusts to 79 MPH were recorded at Boston and 92 MPH in Chatham.</p> <p>After nearly a week of shoveling people began returning to normal as the driving ban was lifted. It was enforced for 5 days. Large roofs continued to collapse. A notable failure was a skating rink in Westboro. No injuries occurred. In Winchester, two young boys died of carbon monoxide poisoning as they ran their automobile engine to keep warm.</p> <p>The storm finally abated after about 48 hours leaving 2100 houses destroyed and 10,000 damaged.</p>										
<b>MICHIGAN</b> State Wide	1-20				0	0	4		Weight of Heavy Snow.	
<p>Five garage roofs collapsed during the period damaging four cars of which two were antique autos.</p>										
<b>MINNESOTA</b>					NONE REPORTED					
<b>MISSISSIPPI</b> Greenwood, Leflore County	5	?			1	0	0	0	Cold	
<p>A 56 year old woman was found at 7 AM on the morning of the 5th in a ditch in Greenwood apparently dead from exposure. The official low temperature at the Greenwood Airport on the morning of the 5th was 26 degrees.</p>										
<b>MISSISSIPPI</b> Kilmichael, Montgomery County	6	?			1	0	0	0	Cold	
<p>A 70 year old Winona man died of exposure and was found in a pasture about 3 miles west of Kilmichael at 10 AM on the morning of the 6th. Early morning low temperatures in that part of the state were in the upper teens on the 6th.</p>										
<b>MISSOURI</b> North Half of Missouri	12-13	pm 12th, all day 13	?	?	0	0	5	0	Heavy Snow	
<p>Heavy snow beginning pm on the 12th and continuing all day the 13th amounted to over 12 inches in some localities. The heavy snow caused the roofs of two farm buildings to collapse near Dalton in Chariton County. One building was an egg factory belonging to Dale and Jean Grotjan. The damage temporarily put them out of business and was estimated at \$120,000. A buildup of snow on a greenhouse at the University of Missouri at Columbia slid onto the lower roof of an adjacent greenhouse breaking 80 square feet of glass and burying some plants. In addition, freezing rain before the snow at St. Louis plus strong winds caused some power outages when lines snapped there.</p>										
<b>MONTANA</b>					NONE REPORTED					
<b>NEBRASKA</b> Eastern Nebraska	1	Early Morning to Late Afternoon			0	0	0	0	Heavy Snow	
<p>Heavy snow fell with 5 inches reported at Omaha. Winds to 35 m.p.h. caused some drifting by afternoon.</p>										
<b>NEBRASKA</b> Southeast and South Central Nebraska	4	Early Morning			0	0	4	0	Ice Storm	
<p>Freezing rain glazed much of state from Kearney east to Missouri River and from Platte River south to Kansas. Causing very hazardous driving.</p>										
<b>NEBRASKA</b> Panhandle Nebraska	5-8				0	0	4	0	Ice Storm	
<p>Four days of freezing drizzle and snow combined with 20 to 30 m.p.h. winds broke telephone and electric lines disrupting service. Estimated one hundred poles snapped west and south of Chadron.</p>										
<b>NEBRASKA</b> Central and Eastern Nebraska	12-13	Mid Morning to Early Afternoon			3	?	4	0	Heavy Snow	
<p>Storm spread heavy snow over state south of a line from Valentine to Kimball with 5 to 10 inches of snow common. Greatest amount reported was 12 inches at Taylor, Pawnee City and Falls City. Winds gusting to 35 m.p.h. created 3 to 6 foot drifts around Grand Island and Hastings, and the adjoining area closing roads. Numerous schools and businesses closed along with airports at Omaha, North Platte and Grand Island.</p>										
<b>NEVADA</b> Lovelock	5	1800 P					4	0	High Wind	
<p>Gust to 96 mph reported by Lovelock Flight Service Station.</p>										
<b>NEW HAMPSHIRE</b> Statewide	6-7				0	20	7	0	Northeast Blizzard	
<p>One of the monster storms of the century smashed into the New England coast the night of the 6th with the maximum period of coastal battery and flooding on the 7th. Hurricane force winds caused tides 3 to 5 feet above normal with widespread destruction of seawalls, homes, and businesses. The greatest destruction was centered around Hampton Beach but affected the entire coast. Route 1A was under four feet of water. Highway damage estimated at 1.5 million. 600-800 people were evacuated from homes. About 270 residences destroyed, another 1500 damaged. Also, 238 businesses were affected. Total storm damage estimated 1.1 million. Heavy snow with blizzard conditions caused mountainous drifts and paralyzed traffic. 13-20 inches of snow measured along the coast and 24-36 inches in the mountains. Three persons lost their lives related to the storm from exertion and countless injured.</p>										

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					KILLED	INURED	PROPERTY	CROPS		
NEW JERSEY State	5-7				0	30	?	0	Heavy Snow Blizzard Tidal Flooding	
		<p>A weak low moved into Pennsylvania on the 5th causing light snow. A secondary storm developed off the Carolina Coast early on the 6th, intensified rapidly, moved northward to about 60 miles south of eastern Long Island and remained almost stationary for about 12 hours before redeveloping farther eastward on the morning of the 7th. North-east winds gusted to 30 m.p.h. or more and heavy snow of over one foot up to almost 2 feet covered the state.</p> <p>*Temperatures were mostly in the 20's with considerable drifting. Property damage resulted from tidal flooding and beach erosion reached a total of 44 million dollars. The total economic impact will doubtless total in the hundreds of million.</p> <p>*Blizzard conditions prevailed much of the 6th into the morning of the 7th.</p>								
NEW MEXICO					NONE REPORTED					
NEW YORK COASTAL (Extreme Southeast) Entire Area	6-7				0	30	?	0	Blizzard Heavy Snow Tidal Flooding	
		<p>A weak low moved into Pennsylvania late on the 5th bringing light snow. A secondary storm developed off the Carolina Coast early on the 6th, intensified rapidly, moved northward to about 60 miles south of eastern Long Island, and remained almost stationary for about 12 hours before redeveloping farther eastward. Light snow began near midnight on the 6th and became heavy during the day finally tapering off and ending the afternoon of the 7th. Temperatures were in the 20's and winds gusted to over 50 m.p.h. with blizzard conditions most of the 6th into the morning of the 7th. Snowfall ranged from 14 to 26 inches with considerable drifting. Property damage from tidal flooding and beach erosion reached a total of over 40 million dollars. Metropolitan New York Airports were closed for almost 48 hours and the area was almost totally paralyzed. Economic impact will total in the hundreds of millions.</p>								
NEW YORK CENTRAL					NO DATA RECEIVED FOR THIS AREA					
NEW YORK WESTERN Rochester area	6-8				0	0	5	0	Heavy snow	
		<p>Two feet of snow on top of two feet on the ground caused widespread disruptions to businesses, industries, and highway travel. Most roads and businesses closed; several roofs collapsed</p>								
Elmira	13	1200			1	0	2	0	A woman was killed when an aluminum awning above her front door collapsed under the weight of a large block of ice, which fell on top of her, crushing her to death	
Lockport	15				0	0	4	0	13 horses, some of them show, were killed in a barn collapse	
All of Western NY	entire month				0	0	5	0	The heavy weight of accumulated snow caused an estimated several dozen roof collapses throughout the area during the month	
NORTH CAROLINA Wayne County	13	Evening						5	5	Lightning
		<p>A huge ball of lightning hit the office and nursery complex of the Claridge State Forest Nursery west of Goldsboro. The lightning strike buckled a wall, damaged lights and light switches, blew boards off inside walls and started a fire. Much of the State's supply of tree seed for use during the next several years was destroyed. The seeds loss was \$500,000 and loss to building and equipment \$500,000.</p>								
NORTH DAKOTA Western Third North Dakota	5-9	--	--	--	0	?	?	--	--	Blizzard
		<p>Wind from the southeast at 30-60 mph, visibilities near zero in blowing snow. Huge drifts some a hundred yards long and up to 12-16 feet high. Roads blocked, many travelers stranded. Trains snowbound. Wind chill factor near 45 below zero. Many cases of frostbite. Worst storm residents could ever remember in that area.</p> <p>Ten-county area of southwestern North Dakota declared a disaster area.</p>								
OHIO					NONE REPORTED					
OKLAHOMA					NONE REPORTED					
OREGON					NONE REPORTED					
PACIFIC Palmerston Island	22-24				?	?	?	?	?	Tropical Cyclone Charles
		<p>At about same time, 3 tropical cyclones formed in east-west surface trough in tropical central South Pacific. Tropical Cyclones, Diana, first located west of Tahiti, and Ednie, first located northwest of Fiji, appeared not to have passed close to islands. Disturbance located east of Sampa which later was named Tropical Cyclone Charles drifted slowly southeast over several days to Palmerston Island. Weather station reported barely hurricane-strength wind speeds from 22nd to 24th. No damage information available.</p>								
PENNSYLVANIA EASTERN Eastern Penna.	5 to 7	6 PM EST to 10 AM EST			0	0	5	0	0	Heavy Snow Wind
		<p>One of the worst snowstorms on record hit Eastern Pennsylvania on these days. The snow was accompanied by near blizzard conditions caused by winds gusting to 40 to 50 MPH. The winds reduced visibility to near zero and caused considerable drifting with some drifts as high as 18 to 20 feet. Except for a few locations, all of Eastern Pennsylvania received a foot or more of snow. In Chester and Lancaster Counties some sections had 18 to 21 inches and the higher elevations of the northeast had 20 inches or more in many locations. The highest amount reported was 30 inches at Tobyhanna. Thousands of vehicles were stalled on the highways and combined with the drifting snow to close many roads. Except for a few major highways and some city streets, roadways were closed for a period of time during the storm.</p> <p>Secondary roads were closed for a considerable period of time. Many motorists had to be rescued from stalled vehicles and taken to shelter until the roads could be opened. Snowmobiles, plows and four wheel drive vehicles were used to reach people with medical or other types of emergencies. Police, National Guard and volunteers carried out these missions as well as transporting essential personnel to work. Many accidents occurred on the snow-covered roads resulting in numerous injuries; one accident involved a bus full of students. A number of roofs collapsed under the weight of snow. One collapse was a portion of the roof on a supermarket. Some roofs did not collapse until a few days after the snow ended. There were also some power outages caused by the snowfall.</p>								
Eastern Penna.	13 to 14	6 AM EST to 1 PM EST			0	0	3	0	0	Snow
		<p>Snowfall over Eastern Pennsylvania accumulated 3 to 6 inches of new snow. This caused numerous traffic accidents and some injuries. The wet snow caused some damage to power lines and trees.</p>								

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<b>PENNSYLVANIA</b>									
<b>WESTERN</b>									
Manupum	2	Morning			0	0	?	0	Accumulated snow
Heavy snow accumulations contributed to the collapse of a 3,000 square foot section of roof at the Medusa Cement Company Plant.									
Centerville	2				0	0	?	0	Accumulated snow
Heavy snow accumulations contributed to the collapse of a 600 square foot section barn roof.									
Brookville	4				0	0	?	0	Accumulated snow
Heavy snow accumulations contributed to the collapse of a warehouse roof.									
Indiana	4				0	0	?	0	Accumulated snow
Twenty-five inches of accumulated snow contributed to the collapse of a car dealer warehouse. Three new cars were damaged.									
Marienville	4				0	0	?	0	Accumulated snow
Heavy snow accumulations contributed to the collapse of a section of roof at the East Forest Elementary School.									
Pleasant Gap	7				0	0	?	0	Accumulated snow
Heavy snow accumulations contributed to the collapse of the roof of an Agway Feed Store.									
Ripley	24	9:15 am			1	0	?	0	Wind
One man died as a result of injuries sustained when a portion of his barn roof was blown off and struck him across the back and chest.									
<b>PUERTO RICO</b>									
Vieques Passage	1	12:15 p.			0	0	0	0	Waterspout
Vieques Passage	3	3:30 p.			0	0	0	0	Waterspout
Vieques Passage	9	6:15 p.			0	0	0	0	Waterspout
Vieques Passage	18	5:00 p.			0	0	0	0	Waterspout
Vieques Sound of Palomino Island	26	2:20 p.			0	0	0	0	Waterspout
<b>RHODE ISLAND</b>									
Statewide	6-7				3	?	8	0	Blizzard
Two to three feet of heavy wet snow fell during a 30 hour period. The state was immobilized as even snowplows became stuck. A state of emergency was declared and a driving ban was issued for several days. Hundreds of vehicles were abandoned on Interstate 95, the state's major road. The National Guard and Army flew in men and equipment to fight the snow. Three people died of carbon monoxide poisoning. Several roofs collapsed the most notable being at a boat company in Bristol, a factory and a club in Woonsocket.									
Significant beach erosion and pier damage occurred along the entire shoreline.									
<b>SOUTH CAROLINA</b>									
This was one of the coldest, if not the coldest, February on record over South Carolina. Agricultural, construction, and other industries affected by adverse weather report their activities greatly restricted with corresponding large losses.									
<b>SOUTH DAKOTA</b>									
Northern Half of South Dakota	5-9	5 Days	-	-	0	0	Unk	0	Blizzard
Another winter blizzard plagued the northern half of the state beginning early on February 5, continuing until February 9. The unusual aspect of this blizzard was that the wind came from the south-east between 25 and 45 mph. Only one to three inches of new snow fell during this five day period, but was piled high, on top of existing high drifts.									
Most of the northern half of the state was paralyzed due to blocked roads. No deaths or injuries were reported in connection with the blizzard. Eighteen counties, across the northern portion of the state, were declared a disaster area by Governor Richard Kneip.									
The loss of livestock is undetermined at this time. It is estimated that 15% of all livestock will not survive.									
<b>TENNESSEE</b>									
NONE REPORTED									
<b>TEXAS</b>									
<b>NORTHERN</b>									
North Texas	7-8	7-Evening 8-Evening			3	?	7	5	Snow and Ice Storm
The onslaught of cold temperatures and severe winter storms that began in January across North Texas continued through much of February. On February 7, an icestorm of moderate intensity coated the southern and southeast portions of North Texas. Problems were compounded by renewed activity on the evening of February 8, across all of North Texas. Precipitation fell mostly as snow along the Red River, becoming a mixture of sleet and snow in the Dallas-Fort Worth area, and freezing rain in southern portions of North Texas. Two to four inches of snow or ice fell over most of North Texas. Damage was heavy, particularly in the counties between Dallas and Waco. Numerous electrical lines were felled by ice accumulations in these counties. Thousands of people were without power for up to 24 hours in Johnson, Ellis, Hill, and Navarro Counties. Portions of Highway I-35 were impassible in the Hills-bord area of Hill County and thousands of motorists were stranded. At least three persons were killed in ice-related automobile accidents and an undetermined number of North Texans were injured. As with the January storms, very heavy road and highway damage occurred over most of the area.									
North Texas	15	Midnight- Early PM			0	0	4	?	Snow and Ice Storm
The second major February storm brought moderate to heavy snowfalls to western and northern portions of North Texas, generally north of a Stephenville to Dallas line. Six inches of snow were reported at Weatherford and Azle, just west and north of Fort Worth, respectively. Two inches fell at Dallas-Fort Worth Airport and just under two inches were recorded at Wichita Falls. Damage was limited to further road and highway cracking and a number of automobile accidents.									
North Texas	17	Morning- Aftnoon			0	0	5	?	Snowstorm
The month's last major winter storm brought heavy snow accumulations to much of Texas. Snow fell generally north of a Brownwood to longview line with the largest accumulations north of an Abilene to Texarkana line. Unofficial amounts in the Dallas-Fort Worth area ranged from 6 to 10 inches with an official total of 8 inches at the airport. Other amounts were mostly in the 3 to 7 inch range. Further road and automobile accident damage occurred but there were no known deaths. Numerous businesses and schools were closed because of the storm. The eight inch amount at the Dallas-Fort Worth station brought the seasonal total to 18.6 inches, a new record.									
<b>TEXAS</b>									
<b>SOUTHERN</b>									
NORTHCLIFFE ESTATES Guadalupe County	12	11:50a			0	0	3	0	Windstorm
Winds estimated in excess of 50 mph damaged roofs of three houses and knocked down some privacy fencing in the Northcliffe County Club Estates addition 15 miles northeast of San Antonio. Winds gusting to 43 mph were recorded as the line of thunderstorms moved across Bexar County. No other damage or injuries were reported.									
BEVIL OAKS Jefferson County	12	5:00p			0	0	3	0	Windstorm
A line of thunderstorms moving across east Texas caused wind damage to a barn on Moore Road near Bevil Oaks. Winds were estimated to be near 50 mph. Report was received from a Department of Public Safety patrolman.									
PALACIOS Matagorda County	17	10:15a			0	0	?	?	Windstorm
Winds in excess of 50 mph were reported at Palacios along with small hail as a thunderstorm moved across the county. No damage was reported.									
METAGORDA Matagorda County	17	11:07a			0	0	?	?	Hailstorm
Golfball size hail fell in Matagorda as thunderstorms moved across the area. Smaller hail fell over portions of the remainder of the county. No damage was reported.									

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
<b>TEXAS</b>																				
<b>WESTERN</b>																				
Northeast Panhandle	12	early morning hours			0	0	6	0	Snowstorm & Ice storm											
Early morning snow and ice accumulation of 3-5 inches caused numerous power line breaks, and several hundred broken power poles. Two radio transmission towers collapsed. Estimated damage was near one million dollars.																				
Panhandle & South Plains	16 & 17	Afternoon 16th - early morning 17th			0	0	5	0	Heavy Snowstorm											
Accumulations of snow up to 11 inches caused numerous problems for air and ground travel. Many automobile accidents and minor injuries resulted.																				
<b>UTAH</b>																				
NONE REPORTED																				
<b>VERMONT</b>																				
NO DATA RECEIVED FOR THIS STATE																				
<b>VIRGINIA</b>																				
Tidewater Area and Southwest	2				0	0		0	Snow, Wind											
Storm moving northeastward from Gulf of Mexico deposited 5 inches of new snow in the Bluefield area, Rand County, with 1 to 3 inches over most of southern Virginia. The Norfolk area was hit with one of the heaviest snowfalls in the past 40 years when a total of 6 inches fell during the storm. Many weather-related traffic accidents reported.																				
Northumberland County	6				0	0	0	0	Wind, Snow											
Blizzard-like conditions caused waist-high snow drifts, blocking many roads and necessitating the closing of county schools.																				
Bedford County	7-8				0	0	3	0	Wind											
Gusty winds of over 50 mph, the night of the 7th into the morning of the 8th, caused downed power lines in the City of Bedford.																				
<b>VIRGIN ISLANDS</b>																				
NONE REPORTED																				
<b>WASHINGTON</b>																				
King County	2/8	PM			0	0	5	0	Wind											
Easterly wind developed over Western Washington during the afternoon. SeaTac Airport reported eastern winds with gusts up to 40 mph at 4:30 PM. Stronger winds were felt in Issaquah where a store lost its entire roof. Roofs were damaged by wind and fallen trees in Issaquah, Bellevue and Kirkland. There was widespread power outages over the county with most of the trees downed between Bothell and Kent.																				
<b>WEST VIRGINIA</b>																				
NONE REPORTED																				
<b>WISCONSIN</b>																				
Sheboygan, Ozaukee, Milwaukee, Racine, and Kenosha counties	6	Day			0	0	0	0	Heavy snow											
Heavy lake effect snowfall developed along the southeast shoreline of Lake Michigan. Up to 15 inches of snow fell in eastern Racine and Kenosha counties with 7 to 8 inch reports south of Sheboygan in Sheboygan County. At Kenosha in Kenosha County 14.5 inch snowfall closed schools, cancelled meetings, and sent workers home early.																				
<b>WYOMING</b>																				
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	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		
<b>THE FOLLOWING ARE LATE REPORTS, CORRECTIONS, AND DELETIONS:</b>																				
<b>LATE REPORTS</b>										<b>LATE REPORTS</b>										
<b>MICHIGAN</b>										<b>NEW YORK</b>										
JULY 1977										JANUARY 1978										
1 S Glen Arbor to 5 NNE Maple City Leelanau	31	115A	9	167	0	0	4		Tornado	All of Western NY	9-10					0	0	5	0	Snow, high wind
Set down along the north shore of Glen Lake and proceeded ENE along Northwood Drive tearing up utility lines and poles blocking roads with trees and overturning several small boats. Heading across rural country it tore the roof off a barn and cut a path through an orchard. It lifted just East of State Highway M-22 after heavily damaging more trees and utility poles of Little Traverse Lake. Spotty damage to roofs and cars due to fallen trees occurred throughout the area.										Winds gusting over 50mph caused scattered power outages. Some businesses closed and scattered road closings in rural areas. Several pleasure craft sunk in N. Tonawanda marina. Over 1 ft. of snow in Oswego Co.										
										Oswego	14-18				0	0	3	0	Heavy snow 53 inches of snow fell during this period. State of emergency declared.	
										Rochester and Syracuse areas	21				0	0	5	0	Heavy snow Weight of snow caused a supermarket to collapse in Syracuse and part of a warehouse roof to collapse in suburban Rochester	
<b>HAWAII</b>									Funnel cloud	Erie, Niagara, and Chautauqua counties	26				0	2	4	0	High winds and snow Winds gusted over 60mph. Light plane blown over while waiting for takeoff at Buffalo AP in Cheektowaga. Winds blew down tree which collapsed garage in Buffalo. Two women had broken ankles after being blown down by wind. Isolated road closings and power failures	
6 mi. NNE of Kahului Airport, Maui	30	8:53a																		

- o 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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