

STORM DATA



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STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1978

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM															
					KILLED	INJURED	PROPERTY	CROPS																
ALABAMA			NONE	REPORTED																				
ALASKA Southeast	1-2				0	5			Heavy wind and rain															
			<p>A vigorous low center moved northeastward out of the Gulf of Alaska onshore over Southeast Alaska on the afternoon of Nov. 1. Heavy rains accompanied the passage of the low and this was followed by strong southwest winds on the night of Nov. 1-2. There were unofficial reports of winds of 110 knots in the village of Craig. There was considerable damage to public and private buildings in Wrangell and Craig. Docks, seawalls and some barges were damaged. Power was out for several hours in Wrangell. Several trees were uprooted in a mudslide. Damage appeared to be localized, and was limited to Craig and Wrangell.</p>																					
Northwest	9				0	6			Coastal Flood															
			<p>The extratropical remains of tropical storm "Tess" crossed the Aleutian Chain and rapidly intensified on the night of November 7. The storm then moved slowly north through the Bering Sea for the next 2 days. Gale force storm force southerly winds piled up heavy seas and a massive volume of water in the eastern Bering Sea on November 8-9. The storm moved northeast into the Arctic and weakened on November 10.</p> <p>There was a rapid rise in sea level and surf along the southern coast of the Seward Peninsula, where Nome is situated, on the morning of November 8. By the early morning of Nov. 9, water was coming over the sea wall at Nome; it was estimated that the rise in sea level was 10 feet. Surf and large chunks of floating ice battered the waterfront and buildings, but damage was greatly limited by community preparedness. Damage mainly consisted of several miles of highway washed away along the Seward Peninsula coast. The water level and winds diminished on the evening of November 9-10.</p>																					
Southcentral	15				0	5			High wind															
			<p>Strong high pressure over the Alaska Interior combined with strengthening low pressure in the northern Gulf of Alaska to cause strong north winds in the Anchorage and Valdez areas on the morning of November 15. Damage in Valdez was minor. At least 10 flights into Anchorage International Airport were diverted or delayed due to the winds, which reached 50 miles an hour in many parts of Anchorage. Peak winds in Valdez were at least 77 miles an hour. Several small airplanes were severely damaged in Anchorage, and there was considerable damage to some roofs and to a few buildings in the Anchorage area. The winds diminished on the afternoon of November 15.</p>																					
ARIZONA Nutrisio Apache County	2	5:00 p.			0	0	5	0	Wind															
			<p>Very strong straight line winds knocked down an area of timber 3 to 4 miles long and 1/4 to 1/2 mile wide. Also damage were out-buildings and a camper.</p>																					
Yavapai, Maricopa, Gila and Coconino Counties	10-12				0	0	5	0	Flooding															
			<p>Very heavy rains of 2 to 7 inches with the snow level above 7000 feet caused some flooding on the Hualayampa, Agua Fria, New and the upper reaches of the Verde Rivers. During the early morning of the 12th, the snow level did drop down to the 4000 ft. level with 3 to 5 inches of snow below 7000 feet. There was some flooding of roads and streets. Two cars were stalled on a crossing of the Hualayampa River in western Maricopa County and three men were rescued.</p>																					
Flagstaff Coconino County	11	7:00 p.			0	0	5	0	Wind															
			<p>Winds gusting to 69 m.p.h. caused damage to roofs, signs and buildings. The hardest hit was a shopping center under construction where brick walls were knocked down, support fixtures bent and power poles uprooted. Damage to center alone was put at \$200,000.</p>																					
Sierra Vista Cochise County	11-12	Night-Morning			1	0	5	0	Wind															
			<p>Winds gusting to 65 m.p.h. caused considerable damage to mobile homes, roofs, small buildings, signs, fences and trees. One man was killed about 4:00 a.m. while attempting to secure a metal building when it was blown over and crushed him.</p>																					
Graham & Greenlee Counties	23-26				0	0	7	6	Flooding															
			<p>The second major winter storm of the season produced very heavy rains of 1 to 5 inches over much of eastern Arizona and western New Mexico on the 22nd through the 24th. For several days southerly winds fed warm moist air into the region and the air mass became extremely moist out ahead of the upper level low center. The snow level was mostly above the 6300 ft. level. Since the ground was still saturated from the previous storm, there was little absorption of the rainfall and as a result there was considerable flooding over southeastern Arizona. The San Francisco, Blue and Gila Rivers all rose well over the flood stage. The severest damages occurred in the agricultural areas adjacent to these rivers. Damage to residential property was minimal. Approximately 52 families had to leave their homes and were placed in motels.</p>																					
ARIZONA (continued)																								
			<p>Damages were as follows:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Graham County</td> <td style="width: 20%;"></td> <td style="width: 30%;">Greenlee County</td> </tr> <tr> <td>Crops</td> <td>\$3,580,000</td> <td>\$ 82,000</td> </tr> <tr> <td>Private property</td> <td>1,885,000</td> <td>249,250</td> </tr> <tr> <td>Public property</td> <td>934,980</td> <td>2,221,750</td> </tr> <tr> <td>Total</td> <td>\$6,399,980</td> <td>\$2,553,000</td> </tr> </table>							Graham County		Greenlee County	Crops	\$3,580,000	\$ 82,000	Private property	1,885,000	249,250	Public property	934,980	2,221,750	Total	\$6,399,980	\$2,553,000
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Total	\$6,399,980	\$2,553,000																						
Show Low Navajo County	24	9:15 p.			1	0	0	0	Flooding															
			<p>One death occurred as a result of flooding when a young man tried to rescue a stranded elderly couple from their overturned car in a swollen wash near the town. The life-line snapped and he was carried down the stream. The elderly couple were subsequently rescued by sheriff's divers after a 5-1/2 hour ordeal.</p>																					
ARKANSAS Near Ozark - Franklin County	14	7:15 a.			0	0	5	0	Lightning															
			<p>Lightning destroyed an electrical transformer at the Ozark sub-station. Damage was estimated at 70 thousand dollars.</p>																					
Just Southwest of Forrest City - St. Francis County	17	12:30 a.			0	0	5	0	Wind															
			<p>Thunderstorm produced high winds which caused extensive damage to an electric generating plant. Damage was estimated at almost 500 thousand dollars.</p>																					
CALIFORNIA NORTHERN & CENTRAL									NONE REPORTED															
CALIFORNIA SOUTHERN Inyo County	26								Mammoth Airport had wind gusts to about 50 mph from SE at noon. No damage reported.															
COLORADO Grand Junction	02	Afternoon			0	0	3	0	Wind and dust storm															
			<p>Strong wind gusts in the vicinity of thundershowers caused some damage to roofs. One patio roof was blown down.</p>																					
Northeast plains and foothills	10, 11				1	0	0	0	Snow and ice															
			<p>First major cold wave brought snow and icing, causing very slick roads and numerous traffic accidents.</p>																					
Mountains	11, 12				0	0	0	0	Heavy snows															
			<p>Many mountain passes were closed or restricted due to heavy snows. Four to eight inches of new snow fell in many mountain areas. 36 inches of snow was reported at Purgatory ski area in the southwestern mountains.</p>																					
Northeast foothills	23	Morning			0	0	3	0	High winds															
			<p>Some minor damage due to winds reported west of Fort Collins.</p>																					
Northeast foothills	28	All day			0	0	3	0	High winds															
			<p>Minor damage due to winds. Gusts of 60 to 90 mph were reported near the foothills to the north of Denver to the Wyoming state line.</p>																					
Eastern plains	21, 22				0	0	4	0	Ice storm															
			<p>Rime icing caused power lines to break, with extended power outages, mainly at Eads, La Junta, Lamar and Holly areas.</p>																					
CONNECTICUT									NONE REPORTED															
DELAWARE Statewide	27				0	0	0	0	Snow															
			<p>Snow began after midnight and accumulated from 3 to 5 inches, generally, before changing to rain during the afternoon. The early season snowfall did not pose much in the way of highway difficulties due to relatively warm under-surfaces.</p>																					

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					KILLED	INJURED	PROPERTY	CROPS	
FLORIDA Monroe County	1	5:30PM EST			0	0	0	0	Waterspouts
		Two large waterspouts were reported by the Coast Guard over the Gulf of Mexico about 2 miles east of Big Pine Key.							
Niceville, Okaloosa County	7	7:30AM CST			0	0	3	0	Waterspout/Tornado
		A waterspout moved onshore from Shirk's Bayou near the Palm Estates subdivision in Niceville. It dissipated soon after landfall, but did minor damage to some trees and fences.							
Broward County	8	6:30AM EST	4/10	40	0	0	4	0	Tornado
		A tornado touched down between Pompano Beach and Deerfield Beach, north of the Rompano Highlands subdivision. Damage principally was along a three block strip of stores and a mobile home sales lot. Roof and window damage to the stores and severe damage to several unoccupied mobile homes totaled approximately \$20,000. Witnesses reported two additional funnel clouds in the area.							
Broward County	8	1:16 PM EST			0	0	0	0	Funnel cloud.
		A funnel cloud was reported southeast of Fort Ladderdale Executive Airport.							
Monroe County	11	4:49PM EST			0	0	0	0	Waterspout
		A waterspout was observed a mile southeast of Key West International Airport.							
Bay County	27	7:30AM CST			0	0	0	0	Waterspout
		A large waterspout dissipated inland at Mexico Beach after moving along the beach for approximately 3 miles. No damage occurred.							
Monroe County	27	10:26AM EST			0	0	0	0	Funnel cloud.
		A funnel cloud was reported by a pilot 2 miles south of Big Pine Key.							
GEORGIA					NONE REPORTED				
HAWAII Kailua-Kona, Hawaii	5	after midnight			0	0	3	0	Lightning
		Lightning struck house during heavy rain. Loud explosion resulted. Estimated \$4,000-5,000 damage to house.							
2 mi. off Opana Point, Maui	7	4:55p							Funnel aloft
Iao Valley, Waiehu and Kahului, Maui	12	after midnight			1	0	*5	C	Heavy rain
		Overflowing water from Iao Stream washed away several pieces of heavy equipment near Happy Valley, caused estimated \$40,000-50,000 flood damage to Iao Valley Lodge and swept vacant car to sea at Waiehu. Low-lying areas in Kahului flooded. A Kapalua man drowned when overcome by strong water flow after he removed debris clogging irrigation water tunnel. Some crop damages due to heavy rain on Maui and Oahu.							
Hilo, Hawaii	19	4:40p-4:50p			0	0	2	0	Waterspout-tornado
		Building down from base of thunderstorm cloud over breakwater in Hilo Harbor, waterspout moved inland near Huhio Wharf and tore off some metal-sheeted roofs of industrial buildings. Hawaiian Airline plane diverted waterspout before landing at Hilo Airport.							
16 mi. off Hilo, Hawaii	22	9:47a							Waterspout
IDAHO Benewah, Bonner, Kootenai, and Shoshone Counties	4	Early Morning			0	0	5	0	Wind
		Strong winds associated with a cold front damaged several boats and a plane, downed dozens of power poles causing several small fires, and knocked trees and branches across roads and onto homes and utility lines causing extensive damage. Most of the boat damage was on Lake Pend Oreille. A huge tree smashed through several rooms of a small frame house near Gen, Shoshone County. Widespread damage to power lines was reported in Benewah County. Scattered miscellaneous property damage was reported throughout the entire area.							
ILLINOIS					NONE REPORTED				
INDIANA Lake Cicott Cass County	17	10:50 AM	0.5	40	0	0	4	0	Tornado
		A tornado briefly touched down about 8 miles west of Loganport in the vicinity of County Road 825N and 250W on the farm of Mr. Harold W. Holler. It stayed on the ground for about one half mile and hit the Helvit residence. At the Holler farm a hog house was destroyed and a shed turned upside down. At the Helvit residence a trailer house was lifted and dropped on top of a two-story house. Numerous trees were destroyed, one falling through the roof of a shed. A garage beside the two-story house was destroyed. Total damage was estimated at approximately \$32,000. Two individuals observed the tornado.							
Bourbon Marshall County	17	11:28 AM	0	0	0	0	1	0	Funnel cloud/Wind
		Several tree limbs and antennas were blown down.							
Elwood Madison County	17	11:42 AM	0	0	0	0	0	0	Funnel cloud
		Funnel cloud sighted three miles northeast of Elwood.							
Rochester Fulton County	17	11:45 AM	0	0	0	0	3	0	Strong wind
		Strong wind damaged a barn on the south side of State Road 110 about seven miles north and three miles east of Rochester.							
		NO REPORT RECEIVED							
IOWA					NONE REPORTED				
KANSAS Northwest portion	19	6 a - 22 6 a					6	0	Ice storm
		Freezing precipitation and fog began early the morning of the 18th and continued into early morning of the 22nd. Ice accumulated to an inch or more on trees, power lines, and telephone lines. Thousands of utility poles and lines were broken by the weight of the ice generally west of a line from Marysville southwest through Great Bend and Ashland. 52 counties suffered damage. Power outages lasted as long as 3 weeks in portions of the west-central. Besides over \$2 million property damage, there was loss of food due to refrigeration failure as well as revenue lost by the utility companies involved.							
KENTUCKY					NONE REPORTED				
LOUISIANA DeSota Parish	26	9:30 AM	.8	75	0	0	4	0	Tornado
		A small tornado apparently dropped into Toledo Bend Reservoir and moved onshore about 7 miles south of Loganport. One trailer home was exploded and scattered; four other trailers badly damaged. Many trees were snapped off. Debris scattered over wide area. Campers reported a roar like a freight train just before the winds struck.							
Northern & Central Parishes	26	Day			0	0	5	0	Wind Storms
		Wind damage was reported in Mansfield, DeSota Parish about 10:15 AM. Trees downed, utilities out. Damage to trees and power lines by high wind was reported later in the morning in southern Bienville, LaSalle, Catahoula and Concordia Parishes. A church was heavily damaged at Fish Bayou in Franklin Parish about 12:25 PM. Heavy damage to a metal barn occurred near Lake St. John, Concordia Parish. Lightning set fire to a house and boat and auto around 11:00 AM near Springhill, Webster Parish.							
Vernon Parish	26	11:00 AM	1/2	25	0	0	4	0	Small Tornado
		A small twister scattered a garage in small pieces; unroofed a house and damaged trailers about 4 miles northwest of Rosepine. Many trees had tops snapped off. Wind damage from the same storm occurred later northeast of Rosepine on the Bailey Road.							
MAINE					NONE REPORTED				
MARYLAND & D.C. Statewide and District of Columbia	26-27				0	0	0	0	Snow
		Storm moved northeastward from central states and brought early-season snowfall of from 3 to 5 inches over much of the area. The exception was the southern third of Maryland where amounts were an inch or less. Relatively warm under surfaces, along with a change-over to rain before ending, prevented major traffic problems in the metropolitan areas.							

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MASSACHUSETTS			NONE	REPORTED					
MICHIGAN An area south of Grand Haven, Flint, and Sandusky.	17	Afternoon			0	0	5		High Winds
	50 to 60 MPH wind gusts worked over the area downing trees and wires. Falling trees damaged two cars in Ypsilanti and a home in Dowagiac. A warehouse and a home under construction in Holland were destroyed. An awning in Port Huron was ripped from a home, and the sidewheeler "Mark Twain" was blown over and sunk in the shallow waters of Western Lake St. Clair. Scattered instances of power outages, sign damage, and homes losing roof shingles, chimneys and aluminum siding were reported throughout the area. Mt. Clemens, Adrian, Port Huron, Detroit, and Holland hardest hit.								
MINNESOTA South Minnesota	17	Friday			2	5	4	0	Winter Storm
	The first major storm of the season dumped up to 11 inches of snow in Southern Minnesota. The low pressure center developed over East Oklahoma and West Arkansas on Thursday, November 16th, with precipitation northward to the Minnesota-Iowa border. The low continued to Central Missouri by midnight with freezing rain and snow over the south third of Minnesota. By daybreak Friday, November 17th, the low center continuing to deepen, reached the Moline area of Northwest Illinois with heavy snow now occurring over the Southeast corner of the State. By mid-morning the low, still intensifying, reached the Jamesville area of South Wisconsin with snow over much of the south two thirds, and heavy snow continuing over the southeast. By noon, the storm center now accelerating northeastward, moved to East Wisconsin and Lake Michigan with snow decreasing in intensity. By evening the storm center had continued rapidly northeastward with snow ending, and northwest winds over much of the State. Slippery road conditions caused numerous automobile collisions. Rural road conditions forced postponement of numerous area schools and cancellation at classes. Two men, one from St. Paul and one from Markato, suffered heart attacks while removing snow. Five injured in snow blower accidents. Heavy snow area covered south third of State. Representative amounts included 11 inches at Cannon Falls, Wells, and Allen; 9 inches at Red Wing; 8 inches at Faribault and Waseca; and 6 inches in the Minneapolis-St. Paul and Rochester Areas.								
MISSISSIPPI Amite, Pike, Lincoln and Copiah Counties	16	10:45 a - 12:45 p	38	10	0	0	0	0	Funnel Cloud
	A funnel cloud was sighted about seven miles west of McComb at 10:45 a.m. It did not appear to touch the ground but dust and dry leaves whirled just above the ground just beneath the funnel. More than one hour later there was a sighting just southwest of Brookhaven. Apparently it ceased to exist about halfway between Brookhaven and Hazelhurst at about 12:45 p.m. No damage was noted along the path. The parent cell was followed as continuous on the Jackson radar. The direction and the speed of the funnel matched those of the parent cell.								
MISSOURI			NONE	REPORTED					
MONTANA Montana	4	morning			0	1	?	0	Strong Winds
	A Pacific storm caused strong westerly winds across the state demolishing mobile homes, damaging other structures and felling power poles and trees.								
NEBRASKA Western, Central and Northeast Nebraska	25	Morning -26 to Late Afternoon			0	0	0	0	Heavy Snow
	Storm spread heavy snow in an area north of a line from McCook to Sioux City. Four to six inch snowfalls were common in the Scottsbluff, North Platte, Grand Island and Burwell areas. Largest amounts of 8 to 10 inches were reported at Taylor, Anselmo, and Ravenna.								
NEVADA			NONE	REPORTED					
NEW HAMPSHIRE			NONE	REPORTED					
NEW JERSEY Northern, N. J.)	27				0	?	???	?	Heavy Snowfall
	The heaviest snowfall in more than a decade fell in North Jersey. Morristown Airport recorded 2.3 inches, 2.75 inches fell in Denville and 3.2 inches fell in Blairstown.								
NEW MEXICO Gallup, McKinley County	2	8:52 p.			0	0	?	0	Hail
	Three-quarter inch hail reported with thunderstorm.								
Santa Rosa, Guadalupe County	3	1:30 p.			0	0	3	0	Hail
	Three-quarter to one and one-half inch hail with thunderstorm.								
Canon and Grant Counties	23, 24, 25				1	0	6	?	Heavy Rain, Flooding
	Two and one-half to three and one-half inch rains on watersheds of San Francisco, Gila, and Mimbres Rivers on 23rd and 24th flooded all sections from headwaters in mountain to Arizona State line. Stage height at Red Rock on Gila 4 1/2 feet on the 24th. Thirteen hikers evacuated from Catwalk on Whitewater Creek. Many bridges and roads washed out, power and telephone lines and irrigation structures destroyed. One man reported missing, probably drowned while attempting to cross swollen stream on foot.								
NEW YORK COASTAL			NONE	REPORTED					
NEW YORK CENTRAL			NONE	REPORTED					
NEW YORK WESTERN			NONE	REPORTED					
NORTH CAROLINA			NONE	REPORTED					
NORTH DAKOTA Entire State	4	Afternoon and Evening			0	0	4	0	Windstorm
	Strong winds tipped over a trailer and damaged walls on a building under construction at Williston; ripped a sign off a supermarket at Bolla; and helped fan grass fires near Elgin and Bismarck.								
South	10				0	0	0	0	Heavy Snow
	Snowfall of up to 8 inches caused slippery road conditions which resulted in numerous minor traffic accidents.								
Entire State	12-13				1	0	0	0	Heavy Snow/Freezing Rain
	Snowfall of up to 3 inches east and 8 inches west blanketed the state. The snow was mixed with freezing rain in the southeast making travel hazardous. A Hettinger area ranch hand died of exposure after abandoning his stuck pickup truck. A Mandan area man was killed when his pickup ran off on icy road near Judson, and hit a tree on Sunday, November 12. Two other people were injured in car accidents caused by icy roads.								
OHIO			NONE	REPORTED					
OKLAHOMA Near Perkins, Payne County	14	8:30 p.			0	0	5	0	Wind
	High winds near Perkins blew over an oil derrick demolishing the structure. Two tool sheds were also destroyed when the derrick fell on them.								
Altus, Jackson County	26	12:30 a.			0	0	5	0	Wind
	Thunderstorm winds estimated at 60 miles an hour moved across Altus in the early morning hours causing heavy damage. There was numerous roof and window damage to homes and businesses in the city as well as heavy damage done to trees and shrubs. Some of the toppled trees downed power lines causing electrical outages over portions of the city. Many commercial signs were completely destroyed.								
OREGON			NONE	REPORTED					
PACIFIC			NONE	REPORTED					
PENNSYLVANIA EASTERN Eastern Penna.	27	1 AM EST to 10 PM EST			0	0	2	0	Snow
	The first appreciable snow of the season fell over Eastern Pennsylvania and deposited anywhere from 1 to 3 inches before changing to sleet and freezing rain. In southern sections the precipitation changed to rain or drizzle, at the end. The snow and ice caused very hazardous driving conditions and resulted in many traffic accidents. Some minor injuries resulted from these accidents.								
PENNSYLVANIA WESTERN			NONE	REPORTED					

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PUERTO RICO											
Vieques Sound	7	4:25 p.			0	0	0	0			Waterspout
Vieques Sound	10	3:45 p.			0	0	0	0			Waterspout
RHODE ISLAND			NONE	REPORTED							
SOUTH CAROLINA			NONE	REPORTED							
SOUTH DAKOTA			NONE	REPORTED							
TENNESSEE			NONE	REPORTED							
TEXAS NORTHERN											
Nacogdoches County	26	8:00 a	Short	Narrow	0	0	3	?			Tornado
					0	0	3	?			Windstorm, Flash Flooding
<p>A tornado touched down at a trailer park in southwest Nacogdoches. High winds caused damage in Nacogdoches. A tree was blown into a house and local street flooding occurred. High winds over the northern and northwestern portions of the county damaged several barns and overturned a mobile home. In the town of Azlan, located about 10 miles southwest of Nacogdoches, local flash flooding isolated the town for a time.</p>											
Lufkin	26	9:00 a - 9:15 a	Short	Narrow	0	0	3	?			Tornado
Angelina County											
<p>A tornado touched down near the intersection of State Highway 103 West and McCarty Road. No damage was reported and the tornado could have been the same one that hit Diboll.</p>											
Diboll	26	9:05 a	1/2	Narrow	0	0	3	?			Tornado
Angelina County											
<p>At 9:05 a.m. a tornado moved from the southwest to the northeast through Diboll. Path length was approximately 1/2 mile. The tornado caused minor damage to trees and power lines and roads.</p>											
TEXAS SOUTHERN											
Beaumont, Jefferson Co.	6	7:15 p	?	?	0	0	3	0			Wind
<p>A cold frontal passage produced high wind gusts over the city with scattered light damage. A business on Calder Avenue at IH 10 sustained moderate damage when a large carport covering the parking lot was destroyed.</p>											
Kirbyville, Jasper Co.	11	All day	15	1	0	6	0	0			Heavy rain
<p>Several thunderstorms producing very heavy rains moved northeastward over Jasper and surrounding counties during the early morning. By noon large storms in the area became slow moving or stationary between the towns of Jasper and Kirbyville. Some 6 inches of rain fell within Kirbyville, but just northwest of the town an estimated 12 inches of rainfall occurred during the morning and midday. Heavy runoff drained into Trout Creek and Pinnock Creek and subsequently heavy flooding Kirbyville late in the afternoon. Water levels rose to a crest at about 10 pm. One 57 year old man drowned when he drove a tractor into the water. About 200 persons were evacuated during the evening as water rose into homes. Property losses included major damage to 25 homes, 13 mobile homes, and 11 businesses. Moderate to minor damage affected another 50 homes. Several miles of roadways were damaged and a city bridge over Trout Creek within Kirbyville was washed away. No significant livestock or crop losses occurred.</p>											
TEXAS WESTERN											
Davis Mountain Resort, Jeff Davis County	4	10:30 p			0	0	2	0			Hailstorm
<p>Light damage was reported to vegetation in the Davis Mountain Resort area in a 35 minute rain and hailstorm. The hail measured approximately one inch in diameter and was accompanied by one-half inch of rain. The damage was confined to trees and shrubs in the area.</p>											
Sanderson, Terrell County	5	3:00 a			0	0	6	0			Flash flood
<p>Early on the morning of the 4th, heavy rains began falling across the Sanderson Canyon-Dornie Draw watersheds. Again that evening about 8:00 p.m. and lasting until 2:00 a.m. the following morning additional heavy rains fell. Approximately 5 1/2 inches of rain were received 20 miles north of Sanderson with the town reporting only 4 inches.</p> <p>Flooding began near 3:00 a.m. when debris carried by the water blocked the flow of the stream at a railroad bridge. This created, in effect, a dam on the draw. Twenty homes were damaged or destroyed with light to moderate damages to more than a dozen businesses. Ten or more trailer homes were washed off their foundations. Two feet of water was reported in the post office. In all, damage was estimated at 1.5 million dollars.</p>											
UTAH											
CACHE, WEBER, DAVIS and SALT LAKE COUNTIES	11/11	0:10A - 9:00A MST			0	0	5	0			High Winds
<p>Strong canyons developed over northern Utah from midnight until early Saturday morning from the Logan areas of the Wasatch front southward through Salt Lake County. Strongest winds with gusts estimated at 100 M.P.H. were noted between 0400 - 0600 MST near the mouth of canyons in the Bountiful area and along 33rd South in Salt Lake City, just east of Parleys Way. Many roofs of buildings and homes, power lines, signs and trees were blown down with damages estimated at \$300,000 dollars.</p>											
VERMONT											
			NONE	REPORTED							
VIRGINIA											
Blue Ridge Parkway, Bedford County	26	Night			0	0	0	0			Snow, Ice
<p>Accumulations of about one inch of snow along with freezing rain produced hazardous driving conditions and prompted the closing of a portion of the Parkway from Peaks of Otter to Afton Mountain, from night of the 25th into the following day.</p>											
Northern	26-27				0	0	0	0			Snow
<p>First snowfall of the season with amounts ranging from near one inch along the southern edge, to nearly four inches over the north. A change to rain, along with warm undersurfaces, prevented any significant highway problems.</p> <p>NOTE: The first half of November was extremely dry, following scanty rainfall during September and October. Some sections such as the Round Hill community in Loudoun County and the Woodstock area of Shenandoah County, had drought-induced water restrictions or rationing. Forest fires were also numerous due to fire danger conditions that were the worst in many years. Rain during the last half of the month, however, eased the situation with some sections actually recording above normal precipitation for November.</p>											
VIRGIN ISLANDS											
			NONE	REPORTED							
WASHINGTON											
Whatcom, Skagit, King, Snohomish, Mason, Kitsap, Jefferson, Clallam Skamania, Pierce Thurston Counties	3	PM			1		5				Wind/Heavy Rain
<p>Wind gusts to 50 mph. Over 1 inch rainfall in 3 hr pd in Seattle. Trees and branches on roads with many road closures. Widespread utility outages. Flooded basements all counties. Mudslide in Kenmore area. Marina and boat damage near Bellingham. One man killed when tree fell on auto in Pierce County.</p>											
Chelan, Walla Walla, Benton, Grant, Whitman, Stevens, Spokane Yakima, Kittitas Columbia; Franklin Counties	4	AM			4		5				Wind
<p>Wind gusts to 50 mph. Blowing dust closed roads mainly in southeast counties. 4 hunters killed near Lake Wenatchee when a tree fell on camper. An \$18,000 outdoor movie screen destroyed near Lakeview and another in Kittitas County. A building on the University of Pullman suffered \$9,000 damage. Private homes in Yakima and Kittitas Counties lost roofs to the wind. Private aircraft in Kittitas County were damaged.</p>											
WEST VIRGINIA											
			NONE	REPORTED							
WISCONSIN											
Friday, November 17, 1978											
<p>Six to 15 inches of heavy, wet snow fell on west central and northern Wisconsin. The snow began before dawn Friday and continued throughout the day. Barron, Oneida, Dunn, St. Croix, Pierce, Rusk, and Price counties were the hardest hit by the heavy snow with most schools and some roads blocked in their counties. Numerous traffic accidents in northern Wisconsin were attributed to the first major snowfall of the season, but only a few minor injuries were reported.</p> <p>The heavy, wet snow broke branches off trees which in turn fell across power lines breaking the lines and causing many power outages. Rhinelander, Minocqua, and Eagle River were hardest hit by power outages.</p> <p>Wednesday evening, November 22 through morning of November 23, 1978</p> <p>From 4 to 6 inches of snow fell across southeast and central Wisconsin during the evening of November 22 and continuing through the early morning hours of November 23. Light, freezing drizzle followed the snow on the morning of November 23 with hazardous driving conditions and a rash of minor traffic accidents reported in central and southeast Wisconsin during the morning of November 23.</p>											

STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 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	
WYOMING Statewide	9 10 11	-	-	-	0	0	4	0	Snow Storm
This major winter storm dumped heavy snow across most areas of the state with a record 36.1 inches of snow at Lander. Strong winds caused extensive blowing and drifting snow, closing numerous roads and damaging private property. Power outages, closed schools and businesses, and many closed airports were reported during the winter storm period.									
Statewide	28	-	-	-	0	0	4	0	High winds
A very strong pressure gradient caused high winds reported between 55 and 65 mph over much of the state. Damage to private property was reported in numerous areas throughout the state. Highest reported gusts to 73 mph were in Cody. Blowing and drifting snow caused numerous road blockages across the state with many vehicles stranded or involved in weather-related accidents.									
THE FOLLOWING ARE LATE REPORTS, CORRECTIONS, AND DELETIONS:									
LATE REPORTS					CORRECTIONS				
AUGUST 1978					SEPTEMBER 1978				
INDIANA Hartford City Blackford County	18	Afternoon			0	0	5	5	Flesh flooding
Three to five inches of rain fell as a line of strong thunderstorms moved over the Hartford City area causing considerable flooding along portions of Lick Creek. One hundred sixty property owners had approximately \$960,000 damage - \$640,000 to crops and \$314,000 to property.									
SEPTEMBER 1978									
TEXAS SOUTHERN Floresville, Wilson Co.	4	8:00 a	?	?	0	0	4	0	Wind
Localized wind gusts associated with heavy thunderstorms moving through the area destroyed one mobile home just north of the Floresville city limits. The home, located on US Highway 161 loop, was torn loose from its tie-down cables, overturned, and demolished when the brief wind gusts hit it. No significant damage occurred elsewhere in the area.									
OCTOBER 1978									
CALIFORNIA NORTHERN & CENTRAL	NONE REPORTED								
MONTANA	NONE REPORTED								
TEXAS SOUTHERN Woodville, Tyler Co.	13	2:00 p	Short	Narrow	0	0	0	0	Tornado
A Tyler County sheriff's officer observed a low hanging funnel cloud aloft just east of Woodville. The funnel moved east at 30 mph and the officer did see it briefly dip to the ground level over a heavily wooded area two miles east of Woodville. Trees were twisted and uprooted but the tornado hit no buildings or property.									
TEXAS NORTHERN Sabine County	14	5:45 p.m.	7	Narrow	0	0	?	?	Tornado
A tornado touched down in Texas just east of Toledo Bend Dam and damaged some trees. The tornado crossed Toledo Bend Reservoir and then moved northeast into Louisiana.									

- 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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