

U.S. DEPARTMENT OF COMMERCE

C. R. SMITH, Secretary

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STORM DATA

NOVEMBER 1968

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Asheville 1969

STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Alabama Mobile, Baldwin, Escambia Counties	3	5:55p-9:30p	70	400	0	18	6	0	Tornado
			Tornado first struck in Eight Mile area, which is about 8 miles northwest of downtown Mobile, and moved northeast 20 mph across a sparsely settled area into a residential section and shopping center of Saraland. The tornado apparently lifted east of Saraland and then touched down about 10 miles away near Bay Minette Airport in Baldwin County. The tornado ripped up trees for about a mile before moving across Bay Minette not far from the center of town about 7 pm. Just east of Bay Minette the tornado lifted again and then dipped down briefly at Canoe in Escambia County and also at Shady Grove Community near Brewton. Damage was extensive in the Eight Mile and Saraland areas with 15 houses demolished, 60 damaged extensively and 170 had minor damage. Five trailer homes were demolished and 10 others damaged. In Bay Minette damage was extensive with 8 houses demolished, five severely damaged and 24 had minor damage. The Baldwin County school complex was severely damaged, along with a large industrial building and several smaller businesses. At Canoe a house was unroofed and moved about 10 feet off the foundation. Most injuries occurred in Saraland where 1 person was blown from his demolished house to lodge between two trees 300 yards away.						
Choctaw County	17	11:30a	10	?	0	2	4	0	Tornado
			Tornado touched down first near Needham and Land Communities and moved northeast about 40 mph across 10 miles in rural area. Near Land a mobile home was demolished, 2 occupants injured, and a house nearby was damaged. The tornado skipped along its path ripping through patches of timber finally demolishing 3 barns near end of path.						
Chilton, and Coosa Counties	17	12:15p-1:30p	38	400	1	9	6	3	Tornado
			Began 9 miles southwest of the center of Clanton, Chilton County, moved east-northeast about 50 mph across intersection of U.S. 31 and I-65, across Mitchell Lake into Coosa County finally lifting about 3 miles north of Rockford on U.S. 231. Tornado apparently on ground continuously with severe damage to all structures and trees in path. Fifteen houses demolished, 25 houses damaged, 3 trailers and 10 barns destroyed. A motel had extensive damage, about 30 trucks and automobiles damaged and about 2500 acres of timber destroyed. Most injuries were in houses demolished in the first few miles of the path. Crop damage mainly to unharvested corn.						
Elmore County	17	2:46p							Funnel
		Reported by public	5 miles north of Wetumpka.						No evidence of funnel touching down.
Alaska Ketchikan, Amette & North to Juneau	28		4008	5000	0	0	6	0	Wind storm
			Winds up to 100 miles per hour raked southeast Alaska. The storm ripped roofs off homes, toppled three radio towers up to 100 feet high and briefly disrupted power to three communities. Electrical and telephone systems were damaged. Residences in all areas experienced damage, which was especially severe in the west end and on North Tongass (Ketchikan). At least five light aircraft and dozens of small boats were damaged in the storm at Juneau and Haines.						
Arizona Winslow (12 MIS W)	1	12:45 p.			0	0	0	0	Tornado
			Funnel cloud touching ground observed by pilot. Cloud lasted about 10 minutes in uninhabited desert area.						
Arkansas			None reported						
California Southern California Coastal Area	24-26				0	0	5	0	Severe Santa Ana Winds
			Santa Ana winds centered in San Fernando Valley and adjacent coastal sections began late on 24th and continued until late on the 26th. Winds reached 70 MPH at Van Nuys Airport, and toppled trees, broke windows, disrupted power lines, and sank ferryboat "Sacramento" off Redondo Beach.						
West of San Diego	13				0	0	0	0	Funnel clouds and Waterspouts.
			Pilots, vessels, and San Diego Naval Air Station personnel reported several funnel clouds and waterspouts over ocean west of San Diego.						
Colorado			None reported						
Connecticut Statewide	11-13	Eve., - AM			0	0	5	0	Wind, tide, rain, snow
			Huge storm approached from the south and its center passed through eastern Conn. and western N. I. on the afternoon of the 12th. Hurricane force winds, strongest at high tides during late morning and early afternoon of the 12th combined with great waves to flood and damage shoreline installations along the entire coastline. Roads were impassable and ocellas flooded. Marinas took the brunt of the storm as many boats were driven aground and docks were smashed. Some beach communities were evacuated. Power failures because of wind-downed wires and trees were common in the southern half of the state. Elsewhere, over inland areas, new snowfalls of						
Connecticut (continued)									
			2 to 10 inches						combined with earlier falls of 2-9 inches on Nov. 10 to virtually isolate some sections of the state. In parts of Litchfield County snow accumulation from the 2 storms reached 20 inches and was driven into high drifts.
Delaware Southern half	11-12	Late PM of 11th-PM of 12th			0	0	6	0	Windstorm
			A storm, moving northward along the Atlantic coast, brought damaging winds, especially to coastal areas. The highest wind speed was reported at the Indian River Inlet CHURN station where the one-minute wind reached an estimated 80 mph and gusts were noted to 92 mph. Trees were toppled; utility poles and lines downed; trailers overturned and buildings and boats damaged. An oil barge was driven ashore at Rehoboth Beach but fortunately did not break up although there was some oil leakage. Damage was estimated between \$300,000 and \$1,000,000. Also, tides were about 4 to 5 feet above normal on the 12th; total storm rainfall was generally 1 to 2 inches; flooding was minor.						
Florida Fowey Rock (17 mis. SSE of Miami)	1	9:40a							Waterspout
Statewide	9								Wind and rain
			A major storm from the Gulf of Mexico moved northeastward across North Florida. Most reporting stations reported maximum sustained winds of 20 to 30 m.p.h. but several observers in the Tampa Bay area reported peak gusts of 50 to 62 m.p.h.						
Panokee, Palm Beach County	9	12:00 noon							Funnels aloft (2)
Venice, Sarasota County	9	12:55p	3	100	0	1	5	0	Tornado
			Two homes demolished and 15 to 20 damaged in the Golden Beach area. Tornado was observed moving from southwest to northeast. It raised and lowered several times.						
Manatee and Hillsborough Counties	9	1:10 to 1:30p	12	narrow	0	1	5	0	Waterspout
			Waterspout moved inland from the Gulf at the north end of Holmes Beach. It moved northeastward, damaging several homes on White Ave. before shipping to a marina on the east side of the island, where 26 to 30 boats were damaged or destroyed. The waterspout continued out over Tampa Bay, where it smashed a 22-foot cabin cruiser. One of the two occupants was slightly injured.						
Hillsborough, Polk and Orange Counties	9	1:35 to 2:50p	65	narrow	0	3	5	0	Tornado
			Tornado moved from southwest to northeast through Tampa, Plant City, Lakeland, and Wintermere. Six mobile homes were damaged at Tampa, four severely, and two homes were demolished at Plant City.						
West Palm Beach	9	1:40p							Waterspout
Pasco and Sumter Counties	9	1:45p to 2:30p	25	100	0	4	6	0	Tornado
			Tornado dipped down at Darby, destroying three large chicken farms. The sides of the chicken houses were blown outward and the roofs dropped onto the birds. The tornado moved northeast to Center Hill, where it destroyed a barn and did other minor damage. The funnel was described as a "column rather than a funnel."						
Pinellas Park, Pinellas County	9	1:50p	short	narrow	0	0	3	0	Tornado
			One home damaged.						
Melbourne, Brevard County	9	4:20p	1/4	200	0	0	4	0	Tornado
			A tornado described as a "white swirling mass" unroofed one building and broke several plate glass windows at the Melbourne Shopping Center and at the Brevard Mall.						
Naples, Collier County	9	about 5:00p	short	narrow	0	0	4	0	Tornado
			A small tornado struck a farm labor camp north of Naples and toppled a dozen small houses.						
Collier and Hendry Counties	9	5:00p to 6:20p	45	100	2	17	4	0	Tornado
			A tornado struck near Naples, toppling a 705 foot tall tower and flattening a hunting camp 12 miles northeast of Golden Gate. The tornado continued northeastward and swept through a farm labor camp about 30 miles southwest of Okechobee. Two persons were killed and two injured when their trailer was carried 25 feet and demolished.						

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS		
Florida (continued)										
Palm Beach County	9	7:00p	8	30	0	2	5	0	Tornado	
			A tornado touched down on SR 812 near the Sunshine State Parkway, raising and lowering several times as it moved eastward. It touched down near the Atlantic Country Club, at Lantana Airport, at John Prince Park, and at two or more other places before disappearing near Atlantic Beach. At the airport, 25 planes were damaged, six of which were demolished. Two persons were injured at the mobile home park. Witnesses reported hearing a sound like the "roar of a train." A wind speed of 90 knots was measured at Lantana Airport.							
Statewide	11								Wind and rain	
			Another major storm from the Gulf crossed North Florida. Most reporting stations reported maximum sustained winds of 25 to 45 m.p.h. but several observers in the Tampa Bay area reported peak gusts of 50 to 75 m.p.h. Tides at Tarpon Springs were 3 feet above normal at 3:00 p.m.							
Panama City, Bay County	11	8:00a	7	narrow	0	0	3	0	Waterspouts (2)	
			Two waterspouts were observed. One of them capsized a 32-foot shrimp boat. The two occupants were unharmed.							
Old Tampa Bay	11	10:27a							Funnel aloft	
Anna Maria, Manatee County	11	11:42a							Funnel aloft	
Englewood, Sarasota County	11	12:36p	short	15	0	0	4	0	Tornado	
			Tornado destroyed one home and damaged two others. The funnel was observed to move eastward and dip to the ground over land. The tornado was described as "funnel shaped, very black, and as large as a house in diameter."							
Dunedin, Pinellas County	11	11:28a	short	narrow	0	0	4	0	Waterspout	
			Eyewitnesses reported a waterspout swept into Dunedin through Hurricane Pass from a southwesterly direction after capsizing a small boat with two men aboard. Several houses, a marina and some boats were damaged.							
Hillsborough, Polk and Pinellas Counties	11	11:15a to 12:40p	45	narrow	0	0	5	0	Waterspout	
			Waterspout moved ashore in Indian Rocks Beach and damaged the second floor of a building under construction. The workmen managed to flee to safety when they saw the waterspout approaching. They described the sound as "kind of like a jet starting up." The waterspout continued across Tampa Bay and was observed to dip to the ground again briefly at Gibsonsia.							
Meytown, Volusia County	11	12:45a							Funnel aloft	
Tavares, Lake County	11	1:00p	7	narrow	0	0	4	0	Tornado	
			Tornado struck a citrus packing plant and a ready-mix plant. It was observed moving from southwest to northeast.							
Lake Wales, Polk County	11	1:30p							Funnels aloft (3)	
Collier and Hendry Counties	11	1:30 to 3:30p	60	20	0	3	5	0	Waterspout	
			Waterspout, first sighted off Vanderbilt Beach, moved ashore in North Naples destroying 5 homes and damaging 12. It continued northeast across Big Cypress Swamp and struck a barn near Clewiston. Three men in the barn took cover when warned by a foreman who observed the approaching tornado.							
Mannotsa Key, Sarasota County	11	9:30p	7	7	0	0	4	0	Waterspout	
			A 40-foot commercial fishing boat capsized when hit by a waterspout in the Gulf of Mexico. The two occupants managed to swim to shore.							
Georgia										
North County, near Doerun	11	4:00 a	2	100	0	0	4	0	Tornado	
			A residence was torn from its foundation and moved about 50 yards. It was left more or less intact but was heavily damaged. A car and pickup truck were also heavily damaged with the truck being carried approximately 100 yards into a field. Storm moved from west to east.							
Madison County, 3 miles NE of Fla	17	5:16 p	2	50	0	0	4	0	Tornado	
			Two homes and several other buildings were damaged extensively. Numerous trees were uprooted or broken off. Path of damage covered at least 2 miles but was not continuous. Direction of movement was northnortheast.							
Georgia (continued)										
Athens, 4 miles south	17	6:30 p	2	Narrow	0	0	4	0	Tornado	
			Storm first hit a mobile home park in Oconee County just south of Athens. Several trailers were blown from their foundations and trees were uprooted. Next report of the storm was from within the southern city limits of Athens where signs were blown about and other minor damage caused at a miniature golf course and restaurant. At least two witnesses reported seeing a funnel cloud touching the ground. Storm moved northnortheast.							
Houston County	18	6:05 a	10	Narrow	0	0	3	0	Tornado	
			Apparently the same tornado hit 3 miles north of Perry and just south of Warner Robins. A barn was demolished and several trees were uprooted near Perry at about 6:05 a.m. Less than 30 minutes later the storm hit 10 miles to the northeast near Warner Robins. Several trailers sustained damage and additional trees were blown over.							
Waycross, 4 miles southeast	18	2:20 p	Short	Narrow	0	0	4	0	Tornado	
			A home was wrecked and two cars were lifted 30 feet into the air and heavily damaged. All windows in the house blew out and the roof was lifted off. An occupant said "the house sort of exploded around me."							
Hawaii, All Islands, Except Hawaii	28-				0	0	?	4	Wind, Rain	
			Strong cold front brought gale winds followed by heavy rains. Gusts 69 miles an hour Makaha Ridge (elevation 1414 feet), 1 minute average 83 miles an hour Kilauea Pt., both on Kauai, and 62 miles an hour Kaena Pt. (elevation 1362 feet), Oahu. Wind damage chiefly northern and eastern Kauai, leeward Oahu, central Maui. Trees and branches downed, power and telephone interrupted. Kauai banana crop heavily damaged. Truck crops on Kauai, Oahu, Maui hit. 24-hour rainfall amounts up to 24 inches Kauai, 9 inches Oahu, 14 inches Maui. Some minor flooding. Bulk of storm damage occurred December 1 on Kauai from flooding rains in same storm. Details in December Storm Data.							
Near Hanalei, Kauai	28	8:10 a.-			0	0	0	0	Waterspouts	
			Two waterspouts reported off Hanalei, northern Kauai, near time of cold front passage. No further details.							
Idaho									None reported	
Illinois									No report received by printing deadline	
Indiana										
State	9	E.S.T. 12:02 - 12:06 p.			0	0	2	0	Earthquake	
			Few picknicks fell off shelves. Buildings not damaged. Noticeable movement lasted one or two minutes.							
State	28	a.m. and p.m.			(most of state)	0	0	5	0	Wind
			High winds throughout day caused scattered wind damage to roofs, antennas, trees, autos, signs, store windows and street Christmas decorations. At Evansville some power and telephone services were disrupted and three cars were smashed by a falling tree. At Terre Haute damage to a grain bin was estimated at \$25,000. An estimated 7,500 square feet of roofing was blown from an industrial building west of Fowler on Ind. Rd. 18 about 1:00 p.m. At Carmel, in Hamilton County, the steel structure of a school auditorium, under construction, and valued at \$225,000, collapsed. In Indianapolis, a 30-ft. fiber glass steeple was blown from a church about 7:00 p. Near New Carlisle a small airplane was upended.							
Iowa	9-10							5	Snowstorm	
SW, SC, eastern WC and western EC, Iowa			Unusually early and heavy snowfall. Amounts to 12 inches in Des Moines-Indianola area. Numerous accidents, a few associated deaths by traffic accidents and snow shoveling over-exertion. Storm began evening of 9th and ended late 10th west to early 11th east.							
Kansas									None reported	
Kentucky									None reported	
Louisiana										
Northwest	15	morning			0	0	4	0	Wind, rain	
			Active squall line caused mostly minor but widespread damage in Caddo, Webster, Claiborne Parishes. Funnel sighted 5 miles south of Shongaloo, Webster Parish about 10 a.m. but State Police found only slight damage. Two single-engine airplanes at downtown Shreveport Airport damaged when tie-down cable pulled loose by wind. Some local flooding.							
Rapides Parish	17	5:05 a.m.	short	narrow	0	0	2	0	Tornado	
			Small tornado reported by observer 4 miles north of Hinston. Only minor wind damage - antenna and some small trees down.							

See reference notes at end of table.

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Louisiana (continued) Northeast	27-28				0	0	04	C	Tornado, wind, rain	
					Strong winds and heavy rains (over 4 inches at Monroe and 5 inches at Bastrop) swept through Northeast Louisiana. Tornado reported 11:30 p.m. Monday the 27th in the Bonne Idée community east of Mer Rouge, Morehouse Parish; extensively damaged farm home. Two crop aircraft picked up by wind and flipped over in Little Missouri area of Morehouse. Hangar damaged at Morehouse Memorial Airport, Bastrop. High waters inundated parts of Monroe and West Monroe. Many roads covered by water. Numerous minor vehicle pileups.					
South Central	30	10-11 pm			0	1	5	0	Tornadoes (2), wind, rain	
					Widespread reports of damage extending from Crowley area (Acadia Parish) northeastward to Opelousas, Port Barre, and north of Melville (St. Landry Parish). Apparent tornadoic winds struck through Opelousas and on farm 9 miles north of Melville. Very high winds reported from Crowley, Church Point, Washington, Lantell, Krotz Springs and Melville. Electric and telephone lines and trees down many places. Damages in Opelousas about 10:30 p.m. from South City Park, between Union and Court Streets downtown, then through north side of city. Roofs torn off two homes, several others damaged by falling trees. One house, several barns damaged near Crowley. Sheds, garages, and press box at football field toppled in Church Point. House moved some 25 feet off foundation and demolished in the Lewisburg Community. Five new rice bins destroyed on farm near Washington. Warehouse containing soybeans, seed rice and hay demolished near Port Barre.					
Maine State	8				1	0	5	0	Snow, wind, glaze	
					Varying amounts of heavy, wet snow combined with high wind to fell many trees and limbs, causing many extensive and some prolonged utility failures. In Augusta, a car was damaged by a falling limb. Snow to 10 to 12 inches fell in southern Aroostook and northern Washington Co. area and up to 16 to 18 inches in the Greenville and northward section. These were exceptional amounts for so early in season. One death was attributed to exertion caused by the storm. In the northeast, the storm ended as freezing drizzle, with glaze continuing into the next day in some areas.					
Southern portion State	10-11				0	0	4	0	Wind, snow	
					The second major storm in 3 days; wet snow and wind felled some trees and limbs, causing utility outages. Highways very hazardous with wet snow.					
State	12-13				0	0	5	0	Wind, rain, snow	
					A major "northeaster," the third storm to hit in five days, brought mostly 1 to 2 inches of precipitation, much as heavy rain or melting snow in coastal sections and up to 5-10 inches of snow inland. Local flooding from heavy rain and blocked roads and streets from slippery snow halted or hampered traffic and caused closing of many schools and cancelling of events. Winds, measured at up to 75 mph with gusts to 86 mph at Rockland, combined with heavy snow to fell limbs and trees and again cause utility outages. Tides up to ground three feet above normal along the southwestern coastline caused some flooding, while breakers ranging to 20 to 30 feet in height threw boulders and debris onto coastal highways and backyards. The northeasterly direction of the strongest winds fortunately spared much major damage to most coastal and harbor areas.					
State	17-18 Night				0	0	0	0	Glaze	
					Glazing from freezing rain in many areas of state.					
State	28-29				0	0	0	0	Glaze	
					Freezing rain at times over much of state. Roads hazardous.					
Maryland Chevy Chase	4	3:00 AM			0	0	3	0	Lightning	
					Lightning shattered a large oak tree which caused damage to several homes. Damage was estimated at \$4000.					
Statewide	11-13				0	0	6	0	Wind, snow	
					A storm, moving northward along the Atlantic coast, brought damaging winds and rain to Eastern and Southern areas and wind and heavy snow to northcentral and western areas. The Assateague State Park reported wind gusts to 71 mph. The highest wind speed in the area was reported at Indian River Inlet, Delaware where the one-minute wind reached an estimated 80 mph, and gusts were noted to 92 mph. Trees were toppled; utility poles and lines downed; trailers overturned; and buildings and boats damaged. Tides were reported about 4 to 5 feet above normal; rainfall was mostly 1 to 2 miles. Flooding was minor. In northcentral and western Maryland the storm was a combination of heavy snow and high wind. It was one of the heaviest early season snowfalls on record and included such totals on the 12th as 17 inches at Catoctin Mountain Park, 16.7 inches at Frostburg and 15 inches at Picardy. The Potomac Edison Company reported that this storm caused the worst damage in company history. One factor in making this a most damaging storm was that trees were still in leaf which allowed the snow to build up to such proportions that they toppled carrying utility lines and poles with them. Total storm damage would probably be near 1.5 million dollars.					
Massachusetts State	7-8				0	0	4	0	Rain, wind	
					Heavy rain combined with leaf and debris clogged drains to flood many underpasses and streets. Storm partly as snow in higher elevations in western part, with hazardous roads. High winds caused storm tides 2 to 3 feet above normal, with marginal coastal flooding. Several large ships were torn from moorings by wind and wave and many small craft were damaged. A few windows blew out; some signs, antennae, etc., also damaged. Wind felled trees and limbs to cause many utility outages. In Boston, falling trees damaged a home and a car. At Orleans a music shell was damaged by wind.					
State	10				1	0	5	0	Wind, rain, snow, glaze	
					Second major storm in 3 days. Heavy rains flooded many cellars and roadways. Considerable snow at higher elevations in Berkshires, with up to 17 in. reported in town of Florida. Some roads impassable. Heavy, wet snow broke trees, limbs, and many utility lines. Wind caused storm surge tides 1 to 3 ft. over normal, with some coastal flooding. Man killed when swept overboard from sloop off Marblehead. Many boats damaged in harbors. Many minor wind damages, such as signs, antennae, plate glass windows, etc. Intervals of freezing rain glazed some areas.					
State	12-13				0	0	6	0	Wind, rain, snow, glaze	
					A major "northeaster," the third heavy storm to hit in five days, brought mostly 1 to 2 inches precipitation, much as heavy rain or melting snow, but as up to 5-10, and locally more, inches of snowfall in higher elevations of the western and northern parts. Local flooding from heavy rain and blocked roads and streets from heavy, wet and slippery snow slowed or locally stopped traffic. Road washouts were another problem. Some schools closed. Winds were clocked in Edgartown at a steady 80 mph, with gusts to 94. At Blue Hill, Milton, Mass., gusts to 78 mph were recorded. Much minor and some major structural wind damage occurred. Thousands of trees were blown down, damaging utility lines and other property. Storm surge tides 2 to 4 feet above normal flooded some coastal areas, while breakers reported as high as 30 feet crashed into shorelines with damaging force. Many shorelines were badly eroded and contours changed. Marinas and harbors were battered and scores of boats were damaged or destroyed. In some areas wind driven sand blocked coastal roads, and snowplows were called out to combat sand drifts up to 4 ft. high reported in the Plum Island area. Many families were evacuated from flooded areas. Lobstermen reported loss of traps of up to 75%. Some local glazing.					
State	17-18 Night				0	0	0	0	Glaze	
					Glazing from freezing rain in many areas.					
State	28-29				0	0	0	0	Glaze	
					Freezing rain caused glare ice on roads and surfaces, with hazardous travel in many areas.					
Michigan Southern Michigan	28	4-6 PM			0	0	4	0	Winds	
					Strong, gusty winds caused spotty damage across southern Michigan. At Kalamazoo, a garage was moved from its foundation; near Hillsdale, one home was blown down and several houses unroofed, trees and utility wires blown down and windows popped out; in all cases straight-line wind appears to be responsible. At Adrian, wind toppled trees onto roofs; at Monroe, a 25 x 75 foot section of a sheet metal roof was ripped from a new building which was nearly ready for occupancy. Many other cases of damages were reported as winds in this area exceeded 50 miles per hour.					
Minnesota									None reported	
Mississippi East Central Division	3	Afternoon			0	0	0	?	Hail	
					Scattered reports of hail. NOVEMBER COUNTY: 2:30 PM Highway Patrol reported 1/4" hail with 2" depth. S. Macon; no damage evident, roads slippery. At 2:45 PM radar reported large thunderstorm about 10 mi. N. Macon. KEPPER COUNTY: News sources said high wind, hail, and electrical storm hit northwest section of County in late afternoon; cotton left in fields and fall gardens damaged by hail, (size not reported).					
Mississippi Sound	3	Afternoon							Waterspout	
					A 21-foot sloop sailing in Bay of St. Louis reported struck by waterspout and overturned in afternoon. Three occupants clung to sloop until rescued.					
Mississippi Sound	3	3:13 PM							Waterspout	
					Waterspout moving N observed 2 SW Gulfport (Lat. 30.4°N, Long. 89.1°W).					

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Mississippi (continued)									
Harrison County	3	3:25 PM - 3:30 PM	1/2	100-150	0	5	5	0	Tornado
<p>Thunderstorm moved from SW towards NE. Man in Gulfport Airport Control Tower saw debris fly about 1-1/2 NM when funnel touched ground, it then lifted and passed over airport towards NE, tower described when winds reached 52 mph. Damage in sparsely populated manufacturing area of Gulfport (Lat. 30.4°N, Long. 89.2°W) estimated \$60,000. Tornado appeared to have first touched down on 33rd Street just west of Illinois Central Railroad where it damaged a chain link fence, then continued general northeastward across U. S. Highway 49. Man about 3 blocks away describing the tornado wrote he "did not hear it long before it touched down.....it was raining fairly hard before it passed over and cleared up completely a little while later." A newspaper man mentioned he had heard a noise and went outside to see tornado, he was quoted, "I heard this rascal build-up and saw it boiling over the area, it began sucking up tin from roofs before it touched down at trailer." This trailer, on 33rd Street lot, W of U. S. 90, was lifted off foundation, bounced after hitting ground and smashed against concrete block building about 80 ft away; the 4 occupants, ages 2-29, received relatively minor cuts or bruises. At SW corner 34th Street and 25th Avenue roofs were lifted off and other heavy damage reported to 5 residences, mostly 2-family dwellings (one concrete block and the others frame). On SE corner man watched clouds and saw funnel coming over buildings across the street, he said, "I saw tin flying and hit the deck", along side a counter in office of corner service station; others in station and 2 girls in car outside also got down on the floor; tornado took down a large sign at street corner. Nearby at a glass manufacturing plant (E of U.S. 49) a man, age 52, heard tornado, he got down on the floor, a tremendous draft swept him into a 10-ft. concrete pit, his right foot was injured. Building had structural damage estimated at \$12,000, mostly to windows and roof. At least 3 structures received varying degrees of damage, power lines were severed, signs knocked down, pine trees broken off half way up to the trunk and several trees blown down. Red Cross reported 10 families affected by the tornado.</p>									
Pearl River and Stone Counties	3	4:50 - 5:30 pm	4 1/2	70-150	0	3	4	3	Tornado
<p>Radar indicated a line of thunderstorms at 4:15 PM from near Bogalusa, La. to Columbia, Miss, moving rapidly toward the east. From 4:50 to 5:30 PM people reported during cloudy rainy weather storm moved from W towards E; one funnel observed aloft most of the time; some heard roar like jet airplane. PEARL RIVER COUNTY: At White Sands 3 WSW Poplarville man reported thunder began about 4 PM, and tornado "came through very swift" about 4:50 PM, and "was gone in seconds". There was "hard thunder and roaring before... then funnel formed about 5 miles west of my house, it swept through 3/4 mile of my place, about 1/4 mile wide, ... blew down 20 acres tung trees, 40 acres pine timber, 1 house (tenant) and 1 feed shed, tin off 2 other barns, much damage to 200 pecan trees, lots of fence down." He reported one funnel "bouncing up and down... from ground to 20 ft. high." He estimated \$5000 damage to his place. In the area of Derby and Savannah there was high wind damage to trees, shelters and some buildings. No injuries from the winds were reported. Woman saw tornado cross Highway 59, she said, "There was lots of funnels, looked like fingers pointed down; also rotating counter clockwise, very dark clouds with a large tail trailing. STONE COUNTY: In the western part of the County, at Smith Community, man reported storm "was traveling east along township line between 2 and 3, it did not vary over 1 mile..." Damage occurred along a path 1/4 mile wide. At about 5 PM, "Trees and other debris on one side was felled NE; center of path felled east; on north side of path it felled toward SE. There is evidence there was several small funnels." Red Creek Community (in western Stone County) had houses damaged but no injuries. The worst damage was a house chimney blown down and roof caved in, corn crop flattened, tung orchard damaged; at another place roof was blown off. Damage occurred over a 450 yard wide path; one funnel observed bouncing ground, and some heard roar. Storm reported to have begun at 4:15 PM, ended 5:15 PM. About 15 miles away, at Big Level Community, 4 SE Wiggins, one funnel observed during rainy weather remained aloft most of time. Man reported storm 5:15-5:40 PM at nursery, width of path 100 yds; equipment and tool sheds badly damaged, room attached to house carried 1/2 mile, weather instruments damaged, debris closed road. A couple and son, age 11, received lacerations and bruises 4:25 - 5:30 PM when one end of their house was destroyed; path 200 ft. wide. In area SE of Wiggins, other signs of damage to barns and outhouses were reported; trees up to 3 ft. in diameter uprooted; house trailer about 10 miles east of Big Level moved about 4 ft. off foundation. Damage in the Wiggins area estimated at \$15,000. Radar at Mobile indicated a single thunderstorm cell (in Stone County) but no hook was observed. Authorities said 7 homes were damaged in Stone County.</p>									
Lamar and Stone Counties	3	About 5:00 PM	2	57	0	0	?	0	Tornado
<p>Storm moved from SW towards NE. Tornado touched down in 3 areas east of Lumberton damaging property and uprooting trees. In Hickory Grove Community two women heard roar, looked out window saw black funnel apparently headed for house, then they went into a back room. Funnel veered a little hitting nearby yard where uprooted oak tree fell and flattened trailer; roof of back porch of house about 200 ft. away was blown off; wagon load silage lifted and wagon smashed. Then hit near 5 E Lumberton on Leetown County road; demolished vacant house, blew roof off shed, and strewn some trees across road. Last dipped down about 5-1/2 E Lumberton on Highway 13 for about 3-4 minutes. Cloud described as reddish, just like whirlwind only bigger, with "sharp" lightning. Yard fence and numerous large trees near home were downed and roof damaged; empty rental house blown away, 2 barns and shed demolished, chickens hissing.</p>									
Mississippi (continued)									
George County	3	7:30 - 7:45 PM			0	0	3	0	Wind
<p>Some wind damage in at least 2 places in the Agricola area. County Bear 2 equipment barn was 90% destroyed, but equipment undamaged. About a mile away, roofs of 2 barns blown off and tin and rafters scattered over nearby fields and some tin ended up on a school campus about 3/4 mile away. Woman who lived 2 houses away opened front door of her house sometime between 7:30 PM and 7:45 PM when she heard an extra loud gust of wind she said, "You know they say a tornado sounds like a freight train and that's what that wind sounds like." A man who lives about 1/4 mile from County barn and about 2 miles from other damaged area told of looking out a window in a room where the lights were off, on the west side of his house and noted all of a sudden the wind started blowing hard and he saw greenish - blue ball of clouds move from the west to the east and on over the house. He said, "It didn't last 30 seconds...." And it must have been a couple of hundred feet up. The only damage there was to the TV antenna, which was blown down.</p>									
Jackson County	3	Before 8:05 PM			0	0	0	0	Funnel Cloud Aloft
<p>FAA Flight Station reported someone heard a loud "roaring sound" pass overhead near Van Cleave (Lat. 30.5°N, Long. 88.7°W). Radar showed broken line of precipitation over area (prefrontal squall line) with tops at 20,000 ft. moving towards Pascagoula; this line dissipated before reaching Gulf Coast. Echoes weak, no unusually bright cells noted. Van Cleave resident reported storm moving from S toward NE about 5 PM. Jackson County sheriff had not heard of tornado damages. No reports of funnel sightings.</p>									
Northern Mississippi	9	11:03 AM			0	0	0	0	Earthquake
<p>Earth tremors rumbled across portions of North Mississippi rattling windows and sending dishes dancing along tabletops; no reports of damage. Tremors were reported in newspapers as far south as Greenwood, Starkville and Columbus. Cooperative Weather Observer noted tremor at Iazoo City.</p>									
Smith County	17	7:20 AM			0	0	2	0	Wind
<p>Cooperative Observer reported storm 5-6S Raleigh (Lat. 31.9°N, Long. 89.5°W) blew trees down and shook buildings. Storm moved NE.</p>									
Lawrence and Jefferson Davis Counties	17	7:45 AM	4	?	0	0	4	0	Tornado
<p>Small tornado touched down first in Orange Community ground 7:45 AM, next in Old Hebron Community (Lat. 31.7°N, Long. 89.9°W) then about a mile away just E of Old Hebron Church. Damaged a number of homes, broke power poles, disrupted telephone and electric service. In Orange "considerable" property damage reported and number trees uprooted. On Highway 43 N, roof ripped off modern brick home, large barn destroyed, trees "shredded" and other damage. One person who saw funnel said it came out of SW to Highway 43, then appeared to turn N about 1/4 mile, dropping down to do some minor damage. A woman on Highway 43 about 1/4 mile from funnel said it was "zig-zagging." At last touchdown some "Kow-Lik" storage tanks were carried away, others lodged in old cedar trees; a number of old cedar trees were twisted off like match heads.</p>									
Smith County	17	9:30 AM	Short Narrow	0	0	2	0	0	Tornado
<p>Highway Patrol reported funnel cloud touched down briefly 3 S Raleigh (Lat. 31.9°N, Long. 89.5°W) damages minor, few shingles torn from some houses, few power and telephone lines broken, mostly by falling tree limbs; some trees uprooted.</p>									
Northern Mississippi	27-28				0	1	0	0	Heavy Rain, Wind
<p>Heavy rains and winds accompanied a cold front moving across the State. Record or near record for November rainfalls in the Central Delta area and northeastward. Some flash flooding and damaging winds. Harvesting of crops delayed, flooded fields kept mechanical pickers from being used. Excessive rains damaged some beans in low places and lowered grade of cotton; the high winds "strung" cotton lint out of open bolls. Thousands of dollars of damage occurred. NORTHEAST DIVISION: At mid evening 27th, State Highway 78, 30 NW Tupelo was under water and State Highway reported water nearing roadbeds of other highways. Highway 78 east of Hickory Flat reported 3 ft. under water 9 PM 27th until after midnight. The heavy rains caused flash flooding along the Talahatchie River early on the 28th; a number of bridges (new as well as old) were swept away, and roads washed out. Ripley established its new November record oneday rainfall with 6.20". ALCOHN COUNTY: Newspaper reported, "Torrents of rain fell upon Corinth and Alcorn County... parts of the city were without electricity as a result of the flooding." Many areas of Corinth had serious flooding; Elan Creek overflowed into South and West Corinth; Phillips Creek overflowed into Melody Park subdivision stranding cars in high water. UNION AND POINTCOTTON COUNTIES: Flash flooding ruptured 2 gas mains under Talahatchie River, New Albany cutting off gas to 1700 homes. NORTH CENTRAL DIVISION: At mid evening 27th, State Highway 7, north of Oxford was under water and State Highway reported water nearing roadbeds of other highways. Highway 51 between Colwater, and Senatobia became impassable with area flooded becoming largest on 29th. Some places with new one-day rainfall records are Hickory Flat 7.03", Senatobia 6.70", and University 6.66". The rainfall raised Sardis Reservoir by as much as 8 feet. CENTRAL DELTA AREA: Rains mostly exceeded 14 inches and damaging winds were reported in various sections. Alcorn established its new November record one-day rainfall with 6.35". BOLIVAR COUNTY: Wind overturned house trailer 2 N Cleveland about midnight. Woman who was hospitalized said "I was in the bedroom when I heard a loud roar and the next thing I knew I was trying to crawl from beneath the trailer." Husband in living room not injured. SUNFLOWER COUNTY: Mississippi Power and Light Co. reported in Ruleville area "the wind was strong enough there it knocked down two towers holding up 115 kilovolt lines."</p>									

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1968

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		
Mississippi (continued)										
Northern Mississippi	WASHINGTON COUNTY:	Electric service lines were down in isolated areas and some poles were blown down. The telephone company lost some service lines, but there was no major cable damage. Signs were blown over; some homes, barns and sheds were damaged. In Arcola 4 cedar trees in a cemetery had their tops torn out. In Leland one insurance agent reported 75 wind claims. A cotton picker at 78 Leland was blown 100 yards and badly damaged. From a survey at Greenville "An investigation of the small area of wind damage on Jefferson and Adams streets indicated that it was a straight line south to southwest wind. All trees and television antennae were blown towards the north-northeast while east-west fences fell northward and north-south fences fell eastward." At Lake Ferguson high winds and churning waters caused 5 runabouts to sink and other damage. An investigator reported "The Greenville Yacht Club and most boat houses were oriented east-west and the Yacht Club which is on a barge was blown northward", (10 yards), "I am sure the movement of the barge rather than the wind twisted the gangplank", (which was knocked into the water). YAZOO COUNTY: Privately owned wind gage recorded 40 mph at 12:30 AM the 28th near Yazoo City.								
Wilkinson County	30 11:15 PM	?	Narrow	0	6	?	0	0	Tornado	
	Small tornado reported by local newspaper as coming from southwest to dip down on east side of Lake Mary, near Woodville (Lat. 33.10N, Long. 89.1°W) picked up one boat from Lake Mary Lodge Landing and hurled it over building while another boat caved in one side small concrete block house adjacent to Lodge, then picked up 12 by 64 ft. trailer from mound adjacent to Lodge, rolled it over and structure broke apart; the 6 sleeping occupants were awakened by rattle of hail and gravel against metal house; moments later all had suffered minor cuts and bruises. Another house trailer was overturned, 3 others knocked off foundations, and other structures were damaged. Then tornado skipped a short distance to near the Lessley Hunting Camp, cutting a narrow swath through timber for some distance, felling many trees and twisting tops out of others.									
Missouri	None reported									
Montana	20 morning	100	*5	0	0	4	0	0	High wind	
Livingston area, Park County	Several large trailer houses were forced off highway by strong, gusty winds. One was almost totally destroyed when wind caused it to overturn; minor damage experienced by others.									
Nebraska	None reported									
Nevada	None reported									
New Hampshire	7-8			0	0	4	0	0	Snow, wind	
State	Storm mostly as rain, but turning to snow before end in many areas and with considerable snow at higher elevations, to cause hazardous roads. Wind aided by wet snow felled trees and limbs to cause utility outages.									
State	10			0	0	4	0	0	Rain, snow, wind, glaze	
	The second major storm in 3 days, mostly as rain and wind in southeastern portion, but with much snow at higher elevations. Wet snow and wind combined to topple trees and limbs, causing many utility outages in the southwestern portion and some elsewhere. Wet snow made roads very hazardous. In parts of the southern section, freezing rain made ever walking difficult.									
State	12-13			2	0	5	0	0	Rain, wind, snow, glaze	
	A major "northeaster," the third heavy storm to hit in five days, brought mostly 1 to 2 inches of precipitation, much as rain or melting snow in the southeast but 5-10 inches and locally more snow elsewhere. Local flooding from heavy rain and roads blocked by heavy, wet snow slowed traffic. Some washouts occurred. Wind gusting to hurricane force did considerable minor structural damage and some more extensive, and felled many trees and limbs. Utility outages resulted. The coastline was flooded by storm surge tides and by breakers 20-30 feet in height slamming into shore installations. Shores were eroded and many installations damaged. Many boats damaged. Waves threw rocks and other debris onto shore roads and backyards. In Nashua a man and in Concord a woman died, attributed to the snowstorm. Some local glazing.									
State	17-18	Night		0	0	0	0	0	Glaze	
	Glazing from freezing rain in many areas.									
State	28-29			0	0	0	0	0	Glaze	
	Freezing rain produced glaze ice over roads and surfaces, with very hazardous travel and many accidents.									
New Jersey	12	All day						7	Wind, rain and snow	
Statewide	A major storm, moving north-northeastward along the coast, caused great damage over New Jersey, especially in the coastal areas. Tides reached as much as 8 feet above normal, and seas of 12 to 15 feet were reported off-shore and at the mouth of Delaware Bay. A sea-wall in Middletown Township of Monmouth County was breached, and up to 4,000 persons had to be evacuated from their homes in East Keansburg, Belford, Port Monmouth, Union Beach, Highlands, Sea Bright and Manasquan. Damage was done to board walks in Belmar and Bay Head. Beach erosion was severe in Long Branch, Spring Lake and Atlantic City, along the ocean, and at East Keansburg and Leonardo on Raritan Bay. Buildings were unroofed in many areas, and many trees were blown down. The grandstand at the Atlantic City race track suffered major wind damage when a brick wall was blown out. Many boats were damaged or broken loose from their moorings. Heavy rain occurred along the coast, and up to 8 inches of snow fell over inland portions of the State. The American Insurance Association has estimated that claims from damage done in this storm may reach the seven million dollar mark in New Jersey.									
New Mexico	26	9:30 a.							Funnel cloud	
Otero County	Funnel cloud approximately 10 miles northeast of Orogrande failed to reach ground.									
New York	12-13	a.m. to a.m.						6	Wind, rain, snow	
Statewide	Intense low pressure system, its center closely hugging the shoreline, moved up the mid-Atlantic coast on the 12th to produce one of the most destructive coastal storms in recent years. Wind gusts in excess of 40 mph, were recorded in New York City for 8 hours during the forenoon with a peak gust of 63 mph. During the evening hours of the 12th, gusts of 65 to 75 mph, were observed on Eastern Long Island. Heavy property damage shoreline areas of Long Island and Westchester County from wind and tides 5 to 7 feet above normal. Lower Manhattan flooded; residents evacuated on Staten and Long Islands. Severe erosion of beaches, especially south shores of Nassau and Suffolk Counties. Many large yachts and pleasure boats sunk or driven ashore. Westhampton area one of hardest hit where losses alone estimated at \$2 million; shoreline restaurant and several lesser buildings demolished by wind and tides. Much damage interior of coastal counties where large trees or limbs toppled on to homes, garages, automobiles, etc. Bronx-Whitestone bridge closed when dangerously swayed by winds; some traffic barred from other New York City bridges during high winds. Ferryboats and trains delayed in New York City area as air terminals cancelled numerous flights between 9 a.m. and 1 p.m. Precipitation, occurring principally as rain, totalled 1.5 to 2.5 inches in coastal sections and caused usual flooding of low lying areas. Storm produced snowfall in excess of 5 inches in upstate counties; heaviest totals of 11 to 15 inches occurred northern and central sections with latter noting one of heaviest snowfalls of record so early in the season. Schools closed early as travel from Finger Lakes to New England border became very hazardous; some school buses stranded overnight due to blocked roads. High winds accompanying snow resulted in poor visibility as well as bad drifting. Commercial airports upstate closed to traffic for varying periods. Lowest barometric pressure during storm was 28.88 inches on Long Island 5:30 p.m. of 12th.									
North Carolina	9-12					1	2	6	5	Snow, wind, rain
State	Two low pressure storms moved northeastward on similar paths near the North Carolina coast about two days apart. The first caused one to five inches of snow Mountains and rain elsewhere; the second brought snow Mountains and Piedmont and mostly rain over the Coastal Plain, with winds increasing eastward. Total accumulations of snow ranged mostly four to twelve inches Mountains and one to four inches Piedmont. Wet snow stuck to trees still in full leaf; the unusual weight plus windy weather broke many limbs and brought down an occasional tree over a large area of the state. Eastern North Carolina, out of range of the snow but closer to the path of storm center, suffered heavier direct wind damage. Falling limbs and trees scattered over all general areas broke power and telephone lines, causing outages up to two days. A few homes damaged and outbuildings demolished. Damage to crops mostly to late-harvested soybeans, cotton and corn. On the coast from Cape Lookout northward tides were abnormally high and seas rough with the storm 11th and 12th. A number of fishing boats were lost and at least one man drowned in the offshore waters of North Carolina.									
North Dakota	None reported									

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1968

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	
Ohio				None reported					
Oklahoma Gage, Ellis County	2	5:20a.	7	7	0	0	0	0	Wind
									Gusty surface winds up to 60 MPH were observed when thunderstorms moved east-northeastward across the Gage area at 30 to 35 MPH. No damage was reported.
Garvin and Pontotoc Counties	2	2:20p.-4:30p.	35	1 1/4-3	0	0	4	4	Wind and hail
									A line of thunderstorms moving eastward across the counties at 15 MPH caused scattered wind damage. Straight winds unroofed a fruit and vegetable stand about 2:20 p.m. 1 1/2 miles south of the Pauls Valley State School along Highway 77. Two adjacent green houses were also heavily damaged. A garage was also unroofed at the end of the path 8 miles northeast of Ada. Greatest damage was from scattered hail along a 1/2 to 3-mile wide path for 20 miles from Pauls Valley to the northeast of Stratford. Hail covered 75% of the ground in place and averaged 1 1/2-inch size with largest stones of 2-inch size. Acreage of peanuts, soybeans, and cotton was damaged in the Stratford area where a large number of barn and house roofs were also hit.
Northern half of State	2	Afternoon	130	*50-80	0	0	4	0	Electrical
									Scattered lightning damage included damage to a home near Calumet and one near Okarche; electrical outages at Tulsa, Porter, Edmond, and Stillwater from damaged transformers and burned lines; also loss of a hay barn and its contents near Carmen.
Southeastern one-sixth of State	16-17	10:00a., 26th, 7:00a., 27th	130	*20-90	0	0	0	0	Rain
									Heavy rains of 3 to 4 inches fell in the southeastern corner of Oklahoma within an area bounded by the counties of Pontotoc, McIntosh, LeFlore, and McClurtain. No damage was reported, but heavy runoff caused the Poteau River in LeFlore County to crest 4 feet above flood stage.
Most of State	28	Midnight-10:00a.	450	*100-130	0	0	0	0	Snow
									General snow covered most of the State during the early morning hours on Thanksgiving. Snow cover of 1 to 2 inches fell along a 130-mile wide belt extending from the southwest to the northeast corner of the State. Up to 3 inches of snow covered portions of Jefferson, Love, and Carter Counties. One to 2 inches of snow in the Oklahoma City area provided its first white Thanksgiving since 1958. The snowfall melted during the day, but did slow holiday traffic.
Oregon									No report received by printing deadline
Pacific Marianas Islands	1-3				0	0	0	0	C Typhoon
									Typhoon KIT, which developed west of Truk on October 30, passed about 100 miles east northeast of Guam on the evening of the 1st and 35 miles east of Saipan on the morning of the 2nd with central winds of about 80 miles an hour. Saipan reported heavy rain damage (unspecified) and sustained winds of 52 miles an hour, gusts estimated to 75 to 80 miles an hour, and a lowest sea level pressure of 29.34 inches. Guam itself appears to have sustained no significant damage.
Guam, Marianas Islands	23	Early Morning			0	0	0	0	C Typhoon
									Typhoon ORA passed directly over Nimitz Hill, Guam, about 4 a.m. while still a tropical storm. Minimum pressure was 29.15 inches. The Naval Air Station observed sustained winds of 55 miles an hour, Andersen Air Force Base peak gusts of 89 miles an hour, and the Weather Bureau station about 45 miles an hour with gusts to 65 miles an hour. Rainfall greatest on southern Guam, where the Naval Magazine Station recorded 5.94 inches. A school (Santa Barbara) was extensively damaged, and 80 to 90 percent of the fruit and vegetable crop destroyed.
Wake Island	28	10:49 a.-10:52 a.			0	0	0	0	Funnel cloud
									Small well defined funnel, extending nearly to sea surface from very dark cloud with base at 1800 feet, reported moving slowly west 6 miles north northeast of Wake. Numerous towering cumulus clouds in vicinity previous hour, but apparently not at time of funnel. Wake surface wind 18 miles an hour.
Pennsylvania Statewide	12	All day and night			6	6	5		Snow and Wind
									A fast moving storm from the Gulf of Mexico produced rain, heavy wet snow, and high winds as it moved northeast along the Atlantic seaboard. In its wake snow accumulated to as much as 22.5 inches through central mountain sections with 4 to 12 inches common in many areas. The heavy accumulation snapped many tree limbs which fell on utility lines resulting in interrupted service to as many as 20,000 homes. Near Halifax a 12,000 volt tower was toppled
Pennsylvania (continued)									
Southwestern Counties	28	Evening and night			1		5		Thunder and Wind
									Strong gusty winds and thunderstorms accompanying a cold frontal passage broke windows, toppled trees and power lines, and unroofed several buildings. One man was injured when struck by a falling tree.
Puerto Rico	26-29				5	0	0	0	C Rain, Wind and Floods
									A cold frontal system which became stationary over the island caused 4 days of gusty winds, heavy rains and strong surf. The following rivers flooded: Rio Grande de Arecibo, Culebrinas, Camuy, Manati, Cibuco, La Plata, Bayamon, Rio Grande de Loiza, Humacao, Yaguez and the Cabo Rojo/Lajas Rivers. On the 27th a young man drowned while trying to cross the flooded Culebrinas River. In Arecibo 28 families were evacuated in the La Puntilla sector. Five feet of water was reported in the Martell Urbanization section. On Thursday the 28th a 21 year old man fell into La Plata River while fishing; in Humacao a young man was swept away and drowned while fording a stream on horseback and in Arecibo a boy drowned in a stream near his home. On the 29th a young man was drowned in the swollen Durabo River. Most property damage was sustained in the Arecibo, Mayaguez areas. There was considerable traffic interruption and interior land slides over the four day period islandwide. Some sugar cane was blown down along the north coast and western sections. At this report, the highest rainfall total for the four days period appears to be in the Arecibo area where Lps Caños reported a total of 12.94 inches. On the 27th Guajacaca reported a 24 hour total of 7.54 inches with 10.98 inches for the four days. Most northern and interior locations ranged from 8 to 12 inch totals for the four day period of the storm.
Rhode Island Tiverton, Bristol Co.; Warwick, West Warwick, Kent Co.; Cranston, Providence, Providence Co.	2	2:00 AM-4:00 AM			0	1	4	0	Lightning
									Unseasonable intense lightning set several fires and seriously injured a 17-year-old girl in Providence.
Statewide	10	1:00 AM-10:00 PM			0	0	5	0	Glaze, wind, rain
									Severe storm hit with major effect in late afternoon. Winds reached 80 mph at Martha's Vineyard and 50 mph on the mainland. In the south and east there were power failures to 7500 customers, some streets were washed out, many businesses and basements were flooded, several plate glass windows and scores of signs and trees were downed. In the northwest, wet snow, rain and lowering temperatures seriously glazed roads, and at Black Point Cove near Scarborough State Beach a 55-foot fishing boat was broken up on the rocks.
Southern half	12	6:00 AM-6:00 PM			0	0	5	0	Wind, tide
									Coastal storm, the most severe in southern sections since the hurricane of 1954, battered seawalls and barrier beaches with major effect during the early afternoon. Although precipitation was only moderate, waves 5 to 10 feet above normal, winds of 40 to 70 mph and 15-foot waves combined to cause severe flooding of roads, sidewalks and shoreline installations. Several construction projects were damaged. At Block Island gusts of 100 mph were recorded unofficially and several buildings were destroyed or damaged. Several boats were sunk as marinas along the entire shoreline were hard hit. Train service was delayed. Unconfirmed waterspouts were reported in Narragansett Bay during the mid-afternoon as the storm center was moving through western Rhode Island. Telephone and power failures were scattered throughout the state.
South Carolina Florence County	4	4:50-5:00 p.	1/2	30 to 200	0	0	4	0	Small tornado
									A small and short-lived but violent tornado moved toward the north-northwest through a part of the Timrod Park section of Florence, two miles south of the center of the city. Several buildings were damaged and one demolished. More than 50 trees were uprooted or broken by the wind. Several cars in the evening rush hour traffic were struck by falling trees. Caused power outage in southern part of town. Heavy rain followed the tornadic winds.
South Dakota									None reported

STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1968

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	
Tennessee East Tennessee	10-11				2	0	4	0	Snow
	The first snow of the season, totaling 2 to 12 inches accumulated in many parts of the east State area. Heaviest totals were found in the Smoky Mountains National Park and other mountains of Upper East Tennessee. Heavy wet snow caused minor damage to trees, shrubs and utility lines. Automobile traffic through the mountains was hampered or temporarily stopped. Deaths attributed to the storm occurred from exposure, when two teenage boys became lost in the mountains.								
Memphis	27-28				0	0	4	0	Heavy rains, local flooding, wind
	Rains, totaling near 3 inches in 24 hours caused temporary local flooding and minor damage in lowland areas. Large tree blew onto house, damaging den and dining room.								
Extreme North Central Tennessee	28				0	0	7	0	Heavy rains, local flooding, wind
	Heavy rains falling in about 12 hours beginning the evening of November 27 totalled generally 3 to 4 inches and caused some flash flooding of small streams and low-lying areas. Forty mph winds downed trees and limbs and caused power failures in Nashville.								
Texas Hereford Vicinity Deaf Smith Co.	1 evening		?	?	0	0	?	?	Hailstorm
	Hail caused considerable damage to vegetable and cotton crops in the Hereford area.								
5 S Hale Center Hale Co.	1 8:16 p		?	?	0	0	0	0	Tornado, hailstorm
	A tornado touched ground briefly twice about five miles south of Hale Center but caused no damage. Hailstones ranged in size from 1/4 inch to 2 inches in diameter, and fell at the Doyle Faith Farm, located about five miles southwest of Hale Center. Hail damage was slight.								
Near Breckenridge Stephens Co.	2 8:00 a								Two funnels aloft
10 WSW Weatherford Parker Co.	2 3:05 p								Funnel aloft
	Funnel cloud moved toward the east-northeast but did not touch ground.								
Bangs Brown Co.	2 afternoon		?	?	0	0	?	?	Hailstorm
	Hail caused extensive damage to windows and roofs at Bangs. Probably the largest loss of windows was in the Bangs High School. Here 204 panes were knocked out. At the Bangs Methodist Church 76 stained glass windows were broken by the hail, and at the Texan, Inc., 64 windows had to be replaced. Many roofs, especially those facing toward the west were severely damaged. Some automobiles were severely dented by hail estimated at 1 3/4 inches in diameter.								
Bonham Fannin Co.	2 night				0	0	4	0	Lightning
	Lightning struck a three-story building in downtown Bonham. The building housed a drug store on the ground floor which was heavily damaged by the resultant fire. Property damage was estimated at \$40,000.								
Victoria Victoria Co.	5 8:30 p		14	200	0	2	5	0	Tornado, hailstorm
	A tornado skipped across Victoria, moving in a southeasterly direction, and touched ground briefly three or four times. Two persons were injured by flying glass, and property damage was estimated at \$250,000. The funnel twisted out tree tops in the Guadalupe River bottom just northwest of the Little League baseball parks. It lifted over the low area between Vine Street and the Cuero Highway, then damaged buildings at Victoria Nursery and Landscape Service, 4302 North College Park Addition just missing the St. Joseph Gymnasium, and destroyed a garage apartment at 303 E. Park, and virtually destroyed the home of Mrs. Lucie Steele, a block to the south and east, at 402 E. Virginia. About 25 businesses suffered glass damage, and five homes received major damage. Window panes appeared to have been blown out from the inside. The garage apartment of Mrs. J. O. Ford on Park Street seemed to have been lifted up and its structural support ripped away, then dropped back to the ground; two huge trees were splintered in the yard of Mr. James W. Ward, but his home was untouched. Mr. Ward described the roar of the tornado to that of a freight train. Damage to utility poles was estimated at \$10,500. The tornado touched ground southeast of Victoria, about three miles from Flacoed on the La Salle Road, and caused \$5,000 damage to an oil rig and derrick. Golf ball size hail was reported five miles north of Victoria, but there was no known damage from the hail.								
8 NE Houston Harris Co.	5 10:25 p	**100	100	0	0	5	0	0	Tornado
	A tornado unroofed Elizabeth Hall, the girls' dormitory, at Southern Bible College, 10950 Beaumont Highway 90, about eight miles northeast of the center of Houston. One witness heard the approach of the storm as the roar of a freight train. The contents of the dormitory were strewn in a counter-clockwise rotational pattern. Some windows were blown outward. The path of the storm was about 100 yards wide and about the same length; it apparently dipped briefly to the ground, then lifted. The tornado moved from west to east. There were no injuries.								
18 ENE Houston Harris Co.	5 11:00 p		?	100	0	4	5	0	Tornado
	A tornado struck the Highlands community and Prairie Village Trailer Park in eastern Harris County, about 18 miles east-northeast from the center of Houston. Four persons were injured and property damage was estimated at \$200,000. The path of the damage was								
Texas (continued)									
	approximately 100 yards wide. Turner's Trailer Park, Jo Ann's Day Nursery, Highlands Second Baptist Church, and the office of Southern Canning, SMS Industries, on East Wallisville Road suffered heavy losses. Of the ten mobile homes in Turner's Trailer Park, six were totally demolished and the remaining four badly damaged. Four mobile homes were rolled over at the Prairie Village Park on Prairie Street. The four injuries occurred here. Mrs. Harlan R. Blalock suffered fractures of the back and pelvis, and Mr. Blalock suffered an ankle injury. Mark Blalock, three months old, suffered a cut on his head. Harry Stevenson, 51, of 217 Berrell Lane had a possible spine fracture. The tornado moved from west to east. A church annex near the Prairie Village Trailer Park was damaged also. Twisted debris at the trailer park indicated a counter-clockwise rotation. In the opinion of meteorologists from the Houston Weather Bureau Office, this tornado, and the one that struck earlier, eight miles northeast of Houston, were separate storms.								
North Harris Co.	5 night		?	?	0	1	?	0	Windstorm
	High thunderstorm winds overturned a trailer house at 11110 Cora Street in north Harris County near J.H. 149. A child was hurt by glass blown out of a window at a service station at Berry Road and Jensen Drive in northeast Houston.								
Lubbock Lubbock Co.	14 6:30 p-7:30 p		10	*2	0	0	0	?	Wind and hailstorm
	High winds and hail damaged cotton in a strip one to two miles wide and about 10 miles long running north to south across the Lubbock Municipal Airport. Hailstones were 1/4 to 1/2 inch in diameter.								
Port Arthur Jefferson Co.	15 1:45 p-1:55 p								Funnel aloft
6 W Orange Orange Co.	15 2:00 p								Funnel aloft
Huffman Harris Co.	15 11:50 p		?	?	0	0	3	0	Tornado
	A tornado that sounded like a freight train skipped through the Lakewood Heights Subdivision of Huffman, near Lake Houston, and caused property damage estimated at \$3,000. Frank Tarantino, owner of Lakeview Drive Inn, said he was at work when what sounded like the usual train behind his store rumbled past. A neon sign from a marina was dumped into Lake Houston. The Ted R. Miller home, 727 Broadripple, and the Fred K. Deage, Jr. home, 830 Fall Creek, suffered the most damage in Lakewood Heights. At the Dodge home, a sycamore tree was twisted "in half" and hurled onto the roof of the home.								
E Edna Jackson Co.	16 5:40 p								Funnel aloft
Dallas Dallas Co.	26 afternoon		?	?	0	0	?	0	Windstorm
	High thunderstorm winds lashed the 10000 block of Wincocha Drive in Pleasant Grove and blew a garage on top of a house. At the corner of Grand and Oakland the wind ripped a roof off a building onto a parked car. At the Dasset Marine Supply, 9784 Ferguson Road, wind also tore apart a 20-by-25 section of a metal canopy, lifted it over a 30-foot building and across a lot with more than 20 parked boats, where it cleared a seven-foot fence, and landed about 100 feet away from its original position.								
Frio County	26 8:05 p		14	?	0	0	?	0	Tornado, windstorm
	A tornado destroyed one house and ripped barns apart in a rural area about eight miles west of Dilley in southern Frio County. What was probably the same tornado struck the Derby community seven miles north of Dilley. At Derby several homes and barns were damaged, trees uprooted, and several hundred utility poles were knocked down. The roof on the new brick home of Julian Franks was picked up and set to one side. The homes of I. J. New and J. R. New, and the rent house on the Pat Morris Farm, were damaged extensively. A severe windstorm damaged several houses, blew off the roofs of several barns, and destroyed carpenter and small buildings in the Divot community west of Derby.								
Near Poteet Atascosa Co.	26 10:40 p		?	?	0	0	?	0	Tornado
	A tornado touched down in northwestern Atascosa County between Poteet and Devine. There were no injuries and only minor property damage.								
5 S Cotulla La Salle Co.	26 10:50 p		?	?	0	0	?	0	Tornado
	A tornado struck about 5 miles south of Cotulla. One house was damaged, one barn destroyed, and several fence posts and utility poles were snapped off.								
Jourdanton Atascosa Co.	26 11:00 p		?	?	0	0	3	0	Tornado
	A small tornado dipped down on the Jourdanton Public School ground and completely demolished a concession stand but caused no damage to nearby buildings. Damage was estimated at \$2600.								
E. Pleasanton Atascosa Co.	26 night		?	?	0	0	?	0	Tornado
	A tornado destroyed four barns on the Perry Holstein Farm a few miles east of Pleasanton. Damage was estimated at \$23,000.								
E. Pearsall Frio Co.	26 night		?	?	0	2	?	0	Tornado
	Mr. and Mrs. Mario Martinez were injured when a tornado blew over their house trailer on the Cox Ranch east of Pearsall. The couple suffered cuts and bruises.								
Oak Hill community Travis Co.	27 11:55 a		?	?	0	0	0	0	Hailstorm
	Hailstones up to 1 1/2 inches in diameter were reported at the Oak Hill community about eight miles southwest of Austin. There was no known damage.								

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1968

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	
Utah			None reported						
Vermont State	7-8				0	0	3	0	Rain, snow, wind
									Though mostly rain over much of state, higher elevations received unusually heavy snowfall for so early in the season. Snow of 10-20 ins. at high elevations allowed an early opening of several major ski resorts. Many roads treacherous from wet, melting snow. Some damage from falling trees and limbs.
Southern portion	10				0	0	4	0	Snow, wind
									The second major storm in 3 days dropped up to two feet of snow on some higher peaks and closed a major highway, Rte 9, with about 10 inches. This marooned several thousand skiers taking advantage of the previous storm's snow. Lodging and food were inadequate for the stranded horde. Utility outages from overburdened snow-lad wires and from toppling trees and limbs.
State	12-13				0	0	4	0	Snow, wind
									The third major storm to hit in 5 days dropped mostly 2 to 1 1/2 inches of precipitation, mostly as snow with 3-10 inch accumulations. Locally much heavier snow fell, with up to over two feet of new snow at some higher elevations. Much of northeastern Vermont received less than other areas. Though wind speeds were relatively light compared with much of New England, combined wind and snow loads caused some fallen trees and limbs with utility outages. Many schools were unable to open on the 13th due to snowbound roads.
State	17-18	Night			0	0	0	0	Glaze
									Glazing from freezing rain reported over many areas, mostly on 18th.
State	28-29				0	0	0	0	Glaze
									Freezing rain produced glaze ice over roads and surfaces in many areas, with hazardous roads.
Virgin Islands			None reported						
Virginia	11,12						6		Snow, Rain, tides, wind
									Tidewater areas, Western Piedmont and Mountains except in the extreme Southwest
									High winds, heavy rain, and high tides in the Tidewater area resulted in damage to utility lines, some minor flooding, capsizing small boats, and damage to jetties and piers.
									In the western part of the state, heavy wet snow sometimes mixed with rain resulted in extensive damage to trees, shrubs, and utility systems. Most of the trees still had their leaves and this added weight caused many limbs and trees to break and often fall on the utility lines. Power failures in the thousands occurred and power remained off for days in several locations. Families using electricity for heating, cooking, and pumping water experienced personal discomfort. The power failure interfered with the water supply in several communities and was a factor in closing of a number of schools and airports. Some dairymen couldn't milk cows, cool the milk or receive pick-up service. Additional loss of production occurred due to the physical problems of the cows which had not been milked on schedule. Heavy accumulations of snow with some drifting especially at higher elevations resulted in roads being closed and reduced travel in general.
Washington			None reported						

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED [†] DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
West Virginia									
Eastern Panhandle and Mountains	12	1 a.m. to 10 a.m.			0	0	3	0	Snowstorm
									Rain from a coastal storm turned to snow shortly after midnight on the night of November 11-12 and accumulated from 10 to 15 inches in the Eastern Panhandle and mountain areas. Power and communications facilities were disrupted and schools were closed in a four-county area in the Eastern Panhandle. From the point of view of disruption of service and damage to facilities, local managers of the telephone and electric power companies described the storm as one of the worst on their records.
Northern Panhandle	28	evening			0	0	3	0	Thunderstorm
									A violent thunderstorm with winds of 60 miles per hour roared through the Ohio Valley area and uprooted trees, disrupted electrical service and caused widespread minor damage. More than 100 panes of glass were blown out at the penitentiary in Moundsville. Hundreds of homes in Wheeling and nearby areas were thrown into darkness as falling trees and limbs snapped power lines. Several cars were damaged by falling trees and limbs also.
Wisconsin			None reported						
Wyoming			None reported						

* 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 \$5,000,000
- 7 \$5,000,000 to \$50,000,000
- 8 \$50,000,000 to \$500,000,000
- 9 \$500,000,000 to \$5,000,000,000.

Note: This publication contains our best information on storms but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Delayed data and corrections will be carried in the June and December issues of this publication.

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