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STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1971

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		None	Reported						
ALASKA Unalaska	6-7				0	0	6	0	Wind
		An intense winter storm moving eastward along the south side of the Aleutian Islands chain reached peak intensity in the vicinity of the village of Unalaska. Winds estimated to be 150 mph completely destroyed six homes and did extensive damage to commercial fishing and local business facilities. Total damage is estimated to be \$4,084,900.							
ARIZONA		None	Reported						
ARKANSAS		Data not received by publication deadline.							
CALIFORNIA		None	Reported						
COLORADO		None	Reported						
CONNECTICUT Norwalk, Fairfield Co.	7	7 a.			0	0	4	0	Wind
		Squall line produced strong straight line winds which damaged or ripped off parts of building roofs and levelled a few small buildings. Falling trees downed power lines and damaged an auto. Three small boats were swamped and sunk in East Norwalk basin.							
Interior sections	24-25	p.m.-p.m.			0	0	5	0	Snow, wind
		Major coastal storm with rain along the immediate coast and snow elsewhere produced snowfalls of from 1 to 13 inches, with the heaviest amounts in the northwest. Snow and wind combined to close airports, cause hazardous driving conditions, damage trees and cut power to 60,000 customers for up to 12 hours.							
DELAWARE New Castle County	25	Morning			0	0	4	0	Wind, rain
		Strong gusty winds downed trees and damaged power lines and equipment, disrupting power service to many homes. Rainfall was heavy for a day in November as most one-day totals ranged from one to two inches; the heaviest reported total was 2.40 inches at the Middletown (one mile NW) weather station.							
FLORIDA 25 E Sarasota	02	1:27 p.							Funnel aloft
16 SSW Tampa	03	12:24 p.							Funnel aloft
10 ESE Miami	05	4:00 p.							Waterspouts (2)
Juno Beach (12 N West Palm Beach)	07	11:30 a.							Waterspouts (2)
5 SE Homestead	08	12:32 p.							Funnel aloft
SW Florida	29	7:50 a.			0	1	6	0	Wind damage and rain
		An early morning storm, preceeding a cold front, brought high winds, heavy rains and widespread thunderstorm activity to the West Coast of Florida from St. Petersburg to southern edge of Sarasota County. Damage was estimated at over 1 million dollars as power lines were toppled, trees uprooted, roofs blown off and trailers overturned. Hardest hit was Overbrook Gardens, Englewood's largest residential section where two homes were destroyed and 30 to 50 others extensively damaged. Only one injury was reported, a man with a deep forehead laceration.							
1 ESE Lakeland (Polk County)	29	12:55 p.	1/2	50	0	0	4	0	Tornado
		Six houses were damaged, one severely, as a funnel cloud touched down on the southern edge of the city of Lakeland. Damage was estimated at 10 to 15 thousand dollars. Tornado was moving towards Northeast.							
Lake Hatchineha 60 E Tampa (Osceola County)	29	2:15 p.							Funnel Aloft
5 S Key West	30	3:15 p.							Waterspout
		Several sightings of a funnel cloud south of Key West that later touched down.							
GEORGIA North	24	Early Morning			0	0	4	0	Ice Storm
GEORGIA (continued)									
		Light freezing rain fell over a several county area extending northeastward from the northern part of Metropolitan Atlanta. Electrical service was interrupted for several hours in thousands of homes and businesses and schools were closed in at least 5 counties. Major damage was to trees and to utility lines broken by falling tree limbs. Some sleet also occurred.							
HAWAII 2 miles W Wheeler AFB Oahu	3	4:38 p. 4:54 p.							Funnel clouds
		Two funnel clouds (the first observed only for a minute and larger than the second) were first seen over the eastern slopes of the Waianae Mountains, moving eastward. Grayish and tubular-shaped, the funnel clouds sloped down the mountainside to within approximately 1,000 feet of the ground from a cumulus cloud with estimated base of 2,000 feet and tops of 6,000 feet.							
10 miles E Lihue Airport, Kauai	15	4:35 p. 4:43 p.							Funnel cloud
10 miles SSE Lihue Airport, Kauai	15	5:15 p. 5:20 p.							Funnel cloud
		The two columnar-shaped funnel clouds, one dark and the other white, moving northeastward, extended down about 1,500 feet from cumulus clouds with estimated base 2,200 feet and tops 4,500 feet. Rain showers in vicinity of funnel clouds.							
IDAHO Emmett, Idaho Area, Gen County	26, 27	24 hrs. beginning eve. 26th			0	0	3	?	Snow Storm
		One of the worst snow storms in a number of years made a shambles of the electric power distribution system. Countless trees were broken throughout the valley as well as the Garden Valley, Lowman and Idaho City areas. 18 inches was reported at Garden Valley for the greatest depth.							
Pocatello, Bonneville County	26	Night			0	0	3	0	Wind
		Strong winds broke windows in stores before daybreak. Three of these measured 8 by 10 feet, 8 by 12 feet and 5 by 14 feet.							
Northeast Idaho	27-28				1	?	4	?	Snow Storm
		One to 24 inches plus of snow accumulated Idaho Falls to Island Park with lesser depths along Highway Nos. 28 and 26. Icy conditions developed on highways bringing numerous traffic accidents and one fatal collision. The fatality occurred on Highway 28 near Leadore. Numerous accidents took place on Highways 28 and 26 that had snow and ice floors.							
ILLINOIS Towanda, McLean County	1	10:45p.	1.5	20	0	0	4	0	Tornado
		Tornado touched ground 1.5 miles west of Towanda damaging two garages, house and car. At another farm 1.5 miles ENE of the first farm a garage was unroofed. The same disturbance evidently moved northeast to Fairbury.							
Fairbury, Livingston County	1	11:00p.	5.5	30	0	0	4	0	Tornado
		Storm probably first struck at a farm 4 miles west and 3 miles south of Fairbury where minor damage occurred. At 3 miles west and 3 miles south, a pole barn was destroyed. One pole penetrated the wall and cupboard of the farmhouse kitchen. Tree damage was reported at a farm 2 miles east and 1 mile north of Fairbury.							
Chatsworth, Livingston County	1	11:30p.	?	?	0	0	3	0	Wind
		Strong wind blew over a trailer, demolished a tool shed and carried loose objects considerable distances. Storm reports for Towanda, Fairbury, and Chatsworth are all related.							
INDIANA		None	Reported						
IOWA Statewide	28-29				0	0	5		Snowstorm
		The unusually early snow storm, came at the end of the Thanksgiving weekend with snowfalls exceeding five inches from southwest Iowa northeastward across central and south-central counties into northeast and east-central counties. Amounts totaled upward to 10 inches at Vinton. Thousands of storm related accidents, some of which were chain reactions, occurred with a number of injuries resulting. Autos were abandoned and some schools were closed. Wet snow clogged snow blowers and numerous fingers were injured when the owners attempted to clear the snow.							
KANSAS Northeast portion	1	aftn.			0	1	4	0	Wind, funnel aloft

See reference notes for all pages at end of table.

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KANSAS (continued)									
Barton, Pawnee, Edwards, Hodgeman Counties	16-17	eve of 16 to a.m. of 17			0	0	5	0	Rain
									Damage occurred in the Topeka and Leavenworth areas, over eastern Jefferson County, over southeastern Atchison County, and from near Easton northeastward to Nickapoo. A woman was injured when a mobile home was demolished near Winchester. A funnel aloft occurred at 3:15 p.m. about 9/2 mi. SW of the Topeka airport.
									Heavy rains up to 4-6 inches in a 9-hour period caused flash flooding on several tributaries to the Arkansas River. Heaviest flooding was on Coon Creek in the Kinsley vicinity. Property damage was principally to streets and residential areas. Evacuation of some residences was reported in Kinsley and South Holington.
KENTUCKY									
		None	Reported						
LOUISIANA									
St. Charles Parish	2	11:18a							Funnel cloud
									Pilot report 12 miles southwest of Moisant International Airport.
MAINE									
Skowhegan	7	11:20 a.	0.5	60	0	0	4	0	Tornado
									Funnel seen moving northeastward. One homestead extensively damaged when a frozen tree was destroyed in the yard, one smashing into the house. Another path in a wooded area about a mile to the northeast, while another strip was reportedly out in the woods about two miles west. Total path, counting the skips, may have been up to 5 or 6 miles.
Lincoln	7	Noon	8	3	0	0	4	0	Tornado, thundersquall
									Witness described funnel as only about 10 ft. wide in the "Narrows" area where some cottages were damaged. Damage from squall winds covered an area several miles wide. Many trees felled. One store badly damaged. Moved generally northeastward.
Springfield	7	1 p.	1/25	15	0	0	2	0	Tornado
									Path in woods northeastward in Dead Stream area.
State	7	Mid-day			0	0	4	0	Thundersqualls,
									Many damaging wind cases, mostly localized, to trees and utility lines. Lightning unusually active for so late in season but strikes caused mostly minor damage to wiring and utility lines.
State	25-26				0	0	5	0	Snow, rain, wind
									Unprecedented Thanksgiving Day storm continued into the next day, dropping mostly 6 to 12 inches of snow except tapering to all rain in the extreme southeast. The transition zone from snow to rain was remarkably sharp near the southwestern corner, with nearly all rain in the immediate beach area but with up to over one foot of snow locally within a few miles inland. Heavy snow combined with wind to fell trees, limbs and utility lines. Heavy rain caused flooding of streets and cellars in coastal area while high storm surge tides caused additional loss. Precipitation totals over State were mostly 1 to 3 inches with a few heavier along the central portion of the coastal section. One death from exertion in Wells was an indirect result of the snow. Traffic was brought to a standstill in some areas as all travel was hampered. Many holiday activities were cancelled.
MARYLAND									
Garrett County	20-22								Snow, wind
									The season's first heavy snow totaled up to 11 inches during this three-day period. Strong gusty winds on the 22nd brought drifting and blizzard-like conditions, slowing traffic and closing schools for the day.
Northern and western portions	24-25	p.m.-a.m.			0	0	4	0	Snow
									Heavy snowfall extended westward from the western edge of Harford County. Heaviest snowfall was found in the mountain areas between Frederick and Hagerstown. The following are some of the reported snowfalls, in inches: Catoctin Mountain Park, 23.5; Edgemont, 17.0; Boonsboro, 16.0; Braddock Ridge, 15.0; Hancock, 12.0; Cumberland, 10.0; Parkton (two miles SW), 9.0; Westminster, 8.0; Frederick, 7.0; and Oakland, 6.0. Thousands of Thanksgiving Holiday travelers were stranded during the night of the 24th. Hotels and motels were crowded. Estimates of the number of vehicles stranded in the snow along the Interstate-70 highway between Frederick and Hagerstown ranged between 1800 and 2500. One stranded motorist, a woman, died of an apparent heart attack at Hancock. There was also a number of traffic accidents but the number was not unusually large.
State, except northern and western portions	24-25				0	0	4	0	Rain, wind
									While the northern and western areas were having snow, heavy rain covered the rest of the state and caused some minor flooding in low-lying areas. Some unusually heavy one-day November rainfalls were
MARYLAND (continued)									
									reported, especially in Baltimore and Harford Counties. The following are a few of these totals, in inches, recorded on the 25th: Towson, 3.60; Bel Air, 3.26; Middle River, 3.10; and Lutherville, 3.01. Elsewhere, one-day totals ranged mostly between 1 1/4 and 2 3/4 inches. There were scattered reports of wind damage, especially in the northeast, during the morning hours of the 25th. Damage was mainly from downed trees and broken limbs. Power service was interrupted in scattered areas, again mostly in the northeast.
MASSACHUSETTS									
State	7	Morning			0	0	4	0	Wind
									Thundersquall winds caused many but mostly minor cases of utility outages from falling trees and limbs. Southern Middlesex Co. was hit hard, with outages for several thousand customers. At Chester gusts to 61 m.p.h. were reported. One was injured while cutting up a fallen tree in Rehoboth.
Hubbardston	7	8 a.	0.1	25	0	0	3	0	Tornado
									Two homes slightly damaged and two trees felled by a short-lived tornado. Funnel picked up a large apple tree "like picking a bouquet." Hail of 1/2 inch size fell nearby. Tornado moved northeastward.
Newton Corner	7	10 a.	0.1	very narrow	0	0	2	0	Tornado
									Very small funnel dipped down to topple a phone pole, trees and branches in sections of a three-block eastward path. Reported by a professional meteorologist who heard the roar.
State	25				2	0	6	0	Snow, rain, wind
									Unprecedented Thanksgiving Day storm dropped 10 to 20 inches of snow over most of State, with some greater in the Berkshires. A very narrow transition zone from snow to rain, sometimes only a few miles wide, between up to a foot of snow to the west and practically all rain to the east ran near the Amesbury-Concord-Franklin line. High wind combined with heavy snow to fell many trees, limbs and utility lines, with service outages affecting thousands of homes. In the coastal heavy rain area, with totals to nearly three inches in the southern Greater Boston area, streets and cellars flooded. Coastal flooding also from high storm surge tides. Two were lost from a lobster boat in Pocasset Harbor. Three additional deaths, in the Springfield-Holyoke area, were attributed to exertion related to the storm. Travel was hampered and both difficult and hazardous in the snow area and frequently delayed by flooded streets in the rain area. Many holiday activities were cancelled, including the traditional football games.
MICHIGAN									
Lower Peninsula	2	2-7 am			0	1	5	0	Wind
									A squall line with strong gusty winds moved eastward across the state causing extensive damage, particularly in the southern Lower Peninsula. At Linden, 5 aircraft damaged, losses \$20,000; Argyle, barn, milk house, porch destroyed, losses \$7,000; Sandusky, 2 planes destroyed; Kalkaska, 2 walls of building under construction blown down, loss, \$4-5000; Plymouth, roofs blown off two new homes; Brooklyn, 3 motel units unroofed and at least 5 barns, garages and other small buildings were destroyed. One person suffered minor injuries from flying glass when her trailer was destroyed. At Traverse City, the high wind resulted in a freak accident. A freshly painted storm window was left leaning against a post in a shed, the wind lifted the building and post, when the painter returned he found the post inside the storm window frame, the glass broken but the frame was unscratched.
Escanaba, 6 SE Delta County	6	1:45 pm			0	0	0	0	Waterspout
									Waterspout observed over lake.
Ann Arbor, Washtenaw County	19	3:30 pm			0	2	3	0	Wind
									Two workmen were injured when a wind gust rolled up the metal roof they were working on. They were trying to repair the roof which had been torn loose by the wind earlier in the day.
MINNESOTA									
Line From West Central through North Central Part of State	16-18				0	0	0	0	Heavy snow
									Snow fell generally off and on from the 16th through the 18th. A series of weak low pressure waves moving northeast generally on a Sioux City-Rochester line caused heavy snow of more than 4 inches on a narrow band from Morris to Alexandria, then the snow area widened to 100 miles from Park Rapids northeast into Canada. This, being the first heavy snow of the season, caused increased vehicle accidents and also delayed harvesting of some soybeans and corn in the west-central district.
Eastern Part of State	22-23				0	0	?	0	Wet snow

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MINNESOTA (continued)									
									Snow of 2 to 4 inches across the eastern one-third of State started about 6:00p on the 22nd and ended during the forenoon of the 23rd. This was the first heavy snow of the winter in the Twin Cities area. It became packed and very slippery during the early morning rush hours on the 23rd causing a rash of vehicle accidents, hospitals reported 54 hand and finger injuries from snow-removal equipment, no accident figures are available from the hundreds of local physician offices. Most accidents were the result of persons trying to remove the extremely wet snow from their snow removal equipment while it was in gear.
Southern Half of State	25 26				0	0	0	5	Heavy snow
									Heavy snow began about noon the 25th in the west and ended about 6:00p on the 26th in the east. A low pressure system moving east with the center tracking south of Minnesota produced snowfall of 4 inches or more on 100 mile wide line from Morris to Minneapolis. The heaviest snowfalls of 10-11 inches were generally on a narrow line from Morris east-southeast to Kokato. The wet snow did cause increased vehicle accidents. Some harvesting of corn and soybeans, which had been delayed because of exceptional wet October, in parts of central and west-central would probably now be delayed until next spring because of the heavy snow cover.
Southern One-third of State	28 29				0	0	?	0	Heavy snow
									Strong low system moving east through Missouri caused some heavy snows to the north of the low. The southern one-third of Minnesota received generally 2-6 inches of snow. The heaviest amount was 6 inches in the Marshall to Redwood Falls area. The snow caused increased vehicle accidents.
MISSISSIPPI		None	Reported						
MISSOURI Platte County to Grundy County	1	5:00 - 7:00 p.					4		Thunderstorm Winds, Funnel Clouds
									A line of rapid moving thunderstorms crossed into Missouri near Weston in Platte County and moved northeastward through Platte, Clinton, Daviess and Grundy Counties. These storms caused widespread minor damage to buildings, utilities and trees. These storms apparently spanned the funnel cloud sightings from the public 40 miles southeast of St. Joseph, and near Pallatin; and was the parent storm system for the tornado which occurred near Cameron, which is reported next.
Cameron, Clinton County, Caldwell County	1	5:30 - 6:00 p.	1	25			4		Tornado
									The tornado touched down three miles southeast of Cameron just east of Interstate 35, along Shoal Creek. It moved in a northeasterly direction for approximately one mile damaging outbuildings on three farms. It lifted before reaching County Route 8B.
New Bloomfield	1	9:30 p.	1/3	30			3		Tornado
									A tornado touched down briefly on the west edge of New Bloomfield and while travelling in a west to east direction damaged a few outbuildings on a farm and caused minor damages at two residences before lifting.
Stella, Newton County	23	8:45 a.					8		Snow
									A school bus slipped off a road made slippery from an overnight snowstorm and rolled on its side into a ditch. 8 of the 12 children were injured, 5 serious enough to be hospitalized.
MONTANA Northern Montana	25-30				0	10	4		Hearfrost, ice
									Hearfrost began building up on the 25th and continued through the 30th north of highway U.S. 2 from Glacier Park eastward to the Eastern Montana Border. Freezing rain on the 27th complicated the situation in Northeastern Montana and led to four highway accidents injuring 10 people. A number of utility lines were pulled down by the weight of the ice and portions of Extreme Northeastern Montana were without power for two days.
NEBRASKA		None	Reported						
NEVADA		None	Reported						
NEW HAMPSHIRE State	7	Forenoon			0	0	4	0	Wind
									Strong gusty wind accompanied in many areas by thunderstorms caused local damage to trees and utilities, mostly in the southern section.
NEW HAMPSHIRE (continued)									
State	25				0	0	5	0	Snow, wind
									An unprecedented Thanksgiving Day storm dumped 1/2 to 2 feet of snow, mostly 10 to 20 inches. High winds combined with the snow loading to fell trees, branches and utility lines. Drifting closed some roads and all traffic was hampered. Many holiday activities were cancelled. High storm surge tides struck the coast. A very narrow transition zone from snow to rain ran very near the coast, with nearly all falling as rain on the beaches and islands.
NEW JERSEY		None	Reported						
NEW MEXICO		None	Reported						
NEW YORK - 30 S Poughkeepsie, Dutchess County	3	9:30 p.							Funnel aloft
									Observed by pilot in vicinity of Tappan Zee bridge on the Hudson River, some 30 miles south of Poughkeepsie.
Lake Erie Counties	6-7	Late p.m. to late p.m.					4		Snow
									First lake-effect snowstorm of 1971-72 season struck wide area to lee of Lake Erie. Yields of 6 to 10 inches heavy, wet snow in southern Erie, Wyoming, Cattaraugus and Chautauqua Counties with 13 inches measured at Little Valley. Weight of snow caused widespread breakage of tree limbs, especially Norway maple and willows still bearing leaves, in Orchard Park, Golden, Aurora and Hamburg areas of southern Erie County; power lines broken, affecting 5000 customers. Highways very slick and hazardous over 4-county area. Higher amounts of about 2 inches of snow occurred as far eastward as Onondaga and Oswego Counties and caused dangerous coating of glass on highways. Boonville and Tug Hill section east of Lake Ontario received up to 10 inches of snow but effects limited to hazardous highways.
Dunkirk, Chautauqua County (near)	10	1:30 p.							Waterpouts
									Several waterpouts reported over Lake Erie, offshore from Dunkirk, some 40 miles southeast of Buffalo.
Eastern Plateau and Hudson Valley	24-25	Late p.m. to late p.m.					4		Snow
									Coastal storm produced moderate to very heavy snowfall over a wide area of upstate New York and from 1.25 to over 2.0 inches of rain in coastal sections. Near record snowfall for a November storm occurred in the southeast and east central highlands and the northern half of the Hudson River Valley. Storm totals of 22 to 26 inches were measured in Delaware, Schoharie, Schenectady, Albany, Saratoga and northern Washington Counties. City of Albany 22.5 inches for new November and early season record as well as fifth heaviest snowfall of record. Cobleskill 26 inches, Walton, Schenectady, and Whitehall 25 inches and Delhi, Freshhold, Berns and Saratoga Springs 24 inches. Accumulations of 15 to 20 inches fell from Sullivan to Rensselaer and southern Washington Counties and in a belt from western Delaware and Otsego Counties across the eastern Mohawk Valley to southern Warren County and Lake George area. The halt or severe dripping of highway and street travel throughout this heavy snowbelt was the principle effect of the storm. Countless autos, trucks and busses were stalled or abandoned on expressways and other highways. Some 300 persons alone were stranded along portions of Route 17 in Delaware and Sullivan Counties. Major airport in Albany closed to air traffic most of day on 25th and Thanksgiving activities hampered in southeastern quarter of State. Marked by high water content snowfall totals decreased to 6 to 10 inches from Elmira-Binghamton-Ithaca area north-eastward through central Mohawk Valley and eastern Adirondacks to the Lake Champlain region, where highway travel was uncertain, if not hazardous. The St. Lawrence Valley, Tug Hill area and counties along the Great Lakes received only 1 to 3 inches of snow. Heavy rain near the coast totaled 1.2 to 1.6 inches in Greater New York City and north shore of Long Island increasing to over 2.5 inches in southeastern Suffolk County. No property damage except for scattered breakage of power lines reported in Orange County. Cost of snow removal in Albany estimated \$40,000.
Northern Plateau and Valleys	29-30	p.m. to p.m.					4		Snow
									Second coastal storm in less than one week yielded moderately heavy snowfall to Adirondacks, St. Lawrence and Champlain Valleys. Totals generally 6 to 9 inches except 10 to 15 inches near Lake Champlain. Widespread closure of schools on 30th in Clinton and northern Essex Counties; heavy, wet snow caused some breakage of power and telephone lines in Plattsburgh area. Highways slippery and hazardous throughout North County. Snowfall light in western and central upstate but storm mostly rain in Hudson Valley and south-east with precipitation totals 1.0 to 2.0 inches New York City and Long Island.

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NORTH CAROLINA Gaston, Vance and Warren Counties	3	2:30-4:30 a.			0	1	3	0	Electrical
									Man injured by lightning in home at Dallas. Widespread damage to power facilities in Vance and Warren Counties.
Anson County	21	10:30 a.					4	0	Wind
									Large tree blown down on church during Sunday School hour. Other scattered damage to trees, roofs, signs and antennas in area.
Western North Carolina	23-24						4	0	Snow, Sleet, Glaze
									A mixture of frozen and freezing precipitation began falling in the Mountains and western Piedmont on the night of the 23rd and continued on the 24th, with accumulations 1 to 6 inches. In some areas ice accumulated on trees still in leaf, causing much breakage of limbs; some damage to power and telephone lines. Many weather-related traffic mishaps and tie-ups.
NORTH DAKOTA	None	Reported							
OHIO North Central	2	Morning			0	0	4		Wind and rain
									Strong winds accompanied by rain occasionally mixed with snow hit North Central Ohio. Electric power and telephone service was out for several hours. A number of automobiles were damaged by falling trees.
Cleveland, Cuyahoga County	3	10:30a.							Waterspout
									Pilot reported waterspout in Lake Erie 2 to 3 miles offshore from downtown Cleveland.
Chardon Area, Geauga County	4	Morning			0	0	?		Snow
									An early season snow storm brought 6 inches of snow to Chardon village and the surrounding areas. Snowfall was generally lighter in the rest of Geauga County. A National Weather Service cooperative observer reported thunder and lightning at Chardon.
Northeast	8	Morning-evening			0	0	?		Snow
									The eastern sections of Cleveland recorded snowfall in excess of 12 inches. Chardon in Geauga County recorded 8 inches of snow. Lesser amounts were reported in Trumbull, Medina, Portage, and Ashtabula counties by National Weather Service cooperative observers.
Northeast and Northeast Hills	22	Morning-evening			0	0	?		Snow
									A major snow storm hit the Northeast and Northeast Hills counties of Ohio. Those hardest hit were Trumbull, Portage, Stark, and Mahoning counties with an average snow depth of 4 to 8 inches. The deepest snowfall was reported to be 15 inches in Stark County. Along the shores of Lake Erie winds of 55 m.p.h. and 30 foot waves were recorded.
OKLAHOMA Cimarron, Texas and Beaver Counties	15-16	p.m., 15th - p.m., 16th			0	0	?	?	Heavy rain, flooding and hail
									Heavy rains totaling from near 1 inch to more than 4 inches fell in the Panhandle area and was heaviest in Beaver County. U.S. 63 was flooded near Keyes in Cimarron County, U.S. 283 was flooded south of Beaver in Beaver County and the Beaver River was flooded north of Guydon in Texas County. Farm fields were flooded in all areas. Small hail measuring 1/4 inch in diameter caused an unknown amount of damage to the grain sorghum crop in eastern Cimarron County and in western Texas County.
OREGON Coast and Southwestern Valleys	9	1:00a.-4:00p.			0	1	4	0	Wind
									An arriving storm front furnished strong southeasterly and southerly winds along the Oregon Coast and in the Southwestern Valleys. The Medford Weather Service Office recorded southeasterly gusts up to 37 m.p.h. at 8:25 a.m. Power outages were reported in the Ashland area affecting 2,500 patrons. Strongest winds estimated up to 100 m.p.h. were reported in the Gold Beach area where a trailer home, a camper and numerous trees were blown over. Power outages of 1-3 hours in the Brookings-Gold Beach-Bandon area were recorded between 8:45 a.m. and 3:00 p.m. The Coast Guard station at Coos Bay recorded southerly winds of 40-45 m.p.h. with gusts up to 50 m.p.h. between 12:00 a.m. and 4:00 p.m. One man was injured
OREGON (continued)									
									and required hospitalization after falling in the cabin of a Coast Guard boat leaving Coos Bay to conduct a search for a 48-foot fishing boat in distress off shore. Newport WSO reported its fastest mile of wind as 54 m.p.h. from the SSW at 12:43 p.m. with strongest gust of 66 m.p.h. from the SSW at 12:44 p.m. Mount Hebo measured 1-minute speeds of 50-71 m.p.h. from the SE with fastest gust of 99 m.p.h. at 1:30 p.m. Astoria WSO recorded its fastest mile of 39 m.p.h. from the south at 2:00 p.m. and fastest gust of 54 m.p.h. at 1:49 p.m.
Western third of State	23-29	all days			0	0	5	4	Rain
									This third storm series of the month provided precipitation totals of 8-9 inches along the Oregon Coast, 4-5 inches in the Willamette Valley, and 7-10 inches along the Cascade range. Heaviest rains on the 26th provided 24-hour amounts of 3-4 inches along much of the Coast Range and in the Cascades. Wettest station was Illahe with 5.02 inches of rain on the 26th. Snowfall from the storm totaled 53.5 inches at Crater Lake National Park Headquarters and 56.6 inches at Santiam Pass. Many streams and rivers exceeded bankfull levels and the South Fork of the Coquille River remained above flood stage at Myrtle Point from late on the 26th through the afternoon of the 30th. Details relating to flood damages may be obtained from Flood Reports published in the NOVEMBER 1971 issue of CLIMATOLOGICAL DATA NATIONAL SUMMARY.
PACIFIC									Data not received by publication deadline.
PENNSYLVANIA Statewide	25-26				0	0	4	0	Snow
									With the exception of the far southeastern corner, Pennsylvania experienced its first major snowstorm of the season. The Wilkes-Barre Scranton area reported a 24-hour record snowfall of 20.5 inches. The airport at Avoca was closed. Thousands of holiday travelers were stranded in the Pocono Mountain area and along Interstate Route 80 and 81. Disabled automobiles and jammed tractor trailers blocked roadways and exits on the interstates. In the residential areas of Ashland trees and some properties suffered heavy damage as the moisture-laden snow clung to branches and numerous limbs broke off. In Plymouth, Luzerne County, a power line fell on a home causing a fire. In Centre County traffic was delayed for up to 6 hours on Rt. 322 in the Seven Mountains and on Rt. 114 on the Centre Hill mountain. Approximately 30,000 homes in the Harrisburg area were without power. Many rural areas in all of Columbia and Montour counties and parts of Northumberland County and southern Luzerne County had no power. Clearfield County experienced major traffic jams during the storm which deposited 10-16 inches of snow. Police supplied stranded motorists with gasoline and food via snowmobiles. In Carlisle, Cumberland County, 2 greenhouses collapsed under the weight of snow. The extreme wetness of the snow hampered clearing of highways and roads.
PUERTO RICO	None	Reported							
RHODE ISLAND Northwest sections	24-25	p.m.-p.m.			0	0	4	0	Snow, wind
									Strong coastal low caused heavy rain in south and east but produced 4-8 inches of wet snow in northwest. Snow combined with wind to cause hazardous driving conditions and power outages of up to 6 hours.
SOUTH CAROLINA	None	Reported							
SOUTH DAKOTA	None	Reported							
TENNESSEE Northwest one-fourth of State	24	a.m.			0	0	0	0	Snow
									General snow covered most northern counties of the State during the early morning hours. Snow cover of 1 to 2 inches extended from the mid-state area to the northwest corner of the State. Up to 3 inches covered portions of Gibson, Weakley, and Obion Counties. The snowfall melted during the day, but slowed traffic for several hours.
TEXAS Texas Panhandle	15-16				0	0	4	6	Heavy rains
									Heavy rains of 3 to 4 inches and more, on the 15th and 16th caused severe losses to maize and milo crops in the Texas Panhandle. Heaviest losses were in the northeastern portion of the Panhandle where farmers were about halfway to two-thirds of the way through harvest.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1971

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	
TEXAS (continued)									
Williamson, Bastrop and Milam Counties	17	3:30 p- 4:15 p	28	33	0	0	5	0	Tornado
<p>A small tornado, which first touched ground in the northern corner of Bastrop County, about 3 miles southeast of Coupland, swirled across the eastern part of Williamson County, and into southwestern Milam County, 5 miles northeast of San Gabriel. Most of the time the funnel moved across open farmland, and at times lifted back into the clouds for brief periods, only to drop to earth again. Apparently one of the hardest hit areas was in the Type stone community southeast of Coupland where several rural homes were damaged. The Pete Watson home northeast of Thrall was destroyed, and several other homes in this area were heavily damaged. Three homes and several barns were damaged 3 to 5 miles northeast of San Gabriel. Total property damage was estimated at \$75,000. The tornado moved from southwest to northeast. The tornado lifted tombstones out of the ground at Locklin Cemetery near San Gabriel, broke many off, and turned some stores facing east around toward a northerly direction.</p>									
Atlanta, Cass County	18	1:30 a.	1 1/4	333	0	0	5	0	Tornado
<p>A tornado touched down twice within the city of Atlanta and once near the southwest outskirts of the city and caused an estimated \$100,000 damage to property. No one was injured. Most of the damage was concentrated in the heart of the central business district where some 20 businesses were damaged. A mobile home parked at the Handy Mobile Home Sales on Loop 59 southwest of the city, was destroyed when it was picked up and hurled some 75 yards. In town the tornado which moved from southwest to northeast, apparently first touched down near the Main-Louise Street intersection, lifted briefly and then set down again near the intersection of Main and North East Streets. Three businesses, the Disc and Tape Shop, located at 101E Main Street, Rlythe's Cafe, located at 101E Main Street, and Grogan's Department Store on North East Street appeared to have absorbed the brunt of the storm with extensive roof, window and merchandise damage.</p>									
NE Fayette County	22	9:30 p- 10:00 p.	10	*/4	0	0	4	0	Tornado
<p>A tornado destroyed several barns and unroofed many farm buildings along a path through the northeast part of Fayette County from near the Waldeck community to near the Shelby community (Austin County). Property damage was estimated at \$20,000.</p>									
<p>One resident said, "It sounded like six freight trains".</p>									
Galveston County	22- 23				1	0	5	0	Windstorm
<p>High winds caused widespread minor damage to roofing and shed-type buildings in the Galveston-Texas City area. Several mobile homes were destroyed at the lower end of Galveston Island. Houses were damaged also at the northwest end of Galveston causeway and one was totally destroyed on Bolivar Peninsula near the ferry landing. Damage to boats and marinas was generally light, but one yacht outside of the yacht basin was dashed against pilings and sunk. Also, at least one shrimp boat went aground on the Bolivar Peninsula. Two of the three men aboard made it to shore, but the third man, James Cadere of Freeport was reported drowned. Highest tide was 3.9 feet m.s.l. at Pier 21, at Galveston, at 1:50 a.m. on the 23rd. The U. S. Coast Guard station at Galveston recorded a peak wind speed of 71 m.p.h. and a marina on Bastrop Bayou, 30 miles southwest of Galveston reported peak gusts of 70 m.p.h. The highest wind reported at the National Weather Service Office at Galveston was 52 m.p.h., at 1:37 a.m. on the 23rd. The storm system was very similar to the February 13-14, 1969 storm, but not as intense.</p>									
UTAH									
Data not received by publication deadline.									
VERMONT									
State	7	Morning			0	0	4	0	Wind
<p>Strong gusty winds accompanied by thunder in many areas caused local damage to trees and utilities, mostly in the southern section.</p>									
State	25				0	0	5	0	Snow, wind
<p>An unprecedented Thanksgiving Day storm dropped 1/2 to 2 feet of snow, mostly 10 to 20 inches. High winds combined with the heavy snow loading to fell trees, branches and utility lines. Drifting closed some roads and all traffic was hampered. Many holiday activities were cancelled.</p>									
VIRGIN ISLANDS									
None Reported									
VIRGINIA									
Portsmouth and Norfolk	3	10:30 - 10:45 a.	11	up to 100	0	11	6	0	TORNADO
<p>The tornado first occurred at the Mid City Shopping Center in Portsmouth and from there moved Northeastward by the Oak Grove Cemetery, Parkview residential area, U. S. Naval Hospital across</p>									
VIRGINIA (continued)									
									the Elizabeth River into downtown Norfolk and then to the vicinity of Little Creek and Shore Drive areas and finally out into Chesapeake Bay. The funnel only intermittently touched ground as the damage along the path varied from slight to severe. Twenty-two houses and eight businesses were damaged in Portsmouth. Garages, sheds, porches, roofs, trees, and cars received the most damage with some completely demolished. In downtown Norfolk, the new cultural and convention complex called SCOPE had damage to windows, doors, and stone coping. Numerous store fronts had shattered windows. In the vicinity of Little Creek Road and Shore Drive two trailer courts received heavy damage with over one-half of the trailers being demolished, unroofed or blown over with some containing occupants. Most of the trees in the area were snapped off several feet above the ground. The injuries associated with the storm were mainly caused by flying glass and other objects, and falling trees. Two occupants of a wrecker were slightly injured when the wrecker was dumped on a fire hydrant about 20 feet away. Several house trailers were overturned by the wind in the Granby Street section of Ocean View but was not near the path of the tornado.
North	23				0	0	4	0	SNOW
<p>Snow occurred mostly on the 23rd in the West and North with depths up to a foot in the West and locally up to near two feet centered in Fauquier and Loudoun Counties. Thousands of motorists mostly on routes 17, 50 and 55 were stranded with numerous automobile accidents mainly from skidding. Most highways in the area were closed from the snow and several hundred abandoned cars. U. S. 50 was closed from the evening of the 23rd until 3 p.m. on the 24th. Most of the stranded motorists found refuge in motels, churches, schools, community buildings, fire houses, and private homes. A massive electrical outage occurred in Albemarle County from limbs and trees falling on the lines. Minor flooding was reported mostly from rain near Alexandria.</p>									
WASHINGTON									
None Reported									
WEST VIRGINIA									
None Reported									
WISCONSIN									
Rock County	1	10:15 p	3	100	0	1	5	0	Tornado
<p>Small tornado moving northeastward did approximately \$250,000 damage in a mostly residential area along line from 2 1/2 NNW to about 4 NNE of downtown Elloit. Several homes and garages severely damaged. One boy wounded slightly.</p>									
Door County	1	10:45 p			0	0	4	0	Lightning
<p>Lightning fire damaged house and barn on Everard farm in Town of Union.</p>									
Kenosha County	29				0	0	4	0	Wind
<p>Strong northeast winds with high water and waves caused damage to dock area in Kenosha Harbor. A 100-foot section of dock washed out.</p>									
WYOMING									
None Reported									

¹ Includes crop damage.
² 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 this type of data, it is not all-inclusive. Late Reports and corrections will be carried in the June and December issues of this publication.

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