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Storm Data

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NOVEMBER

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No. 11

Asheville, N.C.

1970

STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1970

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	
Idaho (continued)									
NezPerce, Lewis, Clearwater and North Idaho Counties	24	5 p. - midnight	--	--	--	--	4	--	Wind and snow.
									Winds of 45 mph disrupted telephone and electric services throughout the Lewis-Clark Empire from broken trees and utility poles. Three to 10 inches of snow with wind blocked roads.
North Central and South Idaho	30	evening	--	--	--	--	4	--	Strong winds
									Winds to 50 mph wrecked mobile homes, uprooted trees, broke utility poles, downed signs and caused widely scattered damage to residential roofs. The wind was accompanied in north by thunder, lightning, and mixtures of heavy rain, snow and some hail. Ten head of cattle were electrocuted, south, in Minidoka County.
Illinois									
Jackson County	19	6:55p			0	0	3	0	Funnel cloud, wind, hail
									Funnel cloud reported 1 1/2 mile south of Gorham. Pea to marble size hail reported in same general area. Wind severely damaged two machine sheds as well as small buildings, trees, and roofs. NWSO, Cairo.
Indiana									
Evansville	19	E.S.T. 10:25p.-10:32	?	?	0	0	3	0	Wind, hail
									A thunderstorm with winds up to 62 m.p.h. cut electric lines to 600 homes and disrupted traffic with flooding and also downed trees. Some quarter-inch hail was reported.
Tell City	19	11:47p.-11:50p.	2	100	0	2	4	0	Wind, tornado
									First damage occurred on the southwest side of State Road 66 at the west edge of Tell City. The roof of a cement block building was blown off and an adjoining service station received roof damage. The storm then crossed over SR 66, and a cemetery into a house-trailer court. One trailer was turned on its side, another had the side pushed in and the roof off, and another was rolled over about 1 1/2 times and completely wrecked. In this trailer a mother and child were injured. An adjoining housing area had minor roof damage. Downwind about two miles to the northeast a farmer living in a basement dwelling reported damage to a live-stock barn and destruction of three farm buildings. He estimated the tornado was about 50 yards wide and long touching the ground and travelled from the southwest to the northeast. Scene lighted by mercury-vapor yard light.
Iowa									
			None Reported						
Kansas									
Shawnee County	6	5:45 p.	1	300	0	0	4	0	Tornado
									Small tornado on the ground intermittently and moving NNE, first touched down about 1/2 mi. NW of the Topeka Municipal Airport. Damage to the extreme NE portion of the Oakland residential district was about \$50,000.
Northeast, north central	6	afternoon			0	0	4	4	Hail
									Hail fell locally in Shawnee, Douglas, Osage, and Smith Counties. Largest stones were about 1/2 in. diameter at LeCompton at 9:30 p. Heaviest crop damage occurred in the Bellaire area.
Northwest, north central	30	Day			0	0	0	?	Dust
									Cold front accompanied by very strong winds moved rapidly across Kansas. Wind gusts exceeded 60 mph in some localities. Sustained wind of 51 mph at Goodland equalled highest wind of record for November at that location. Flowing dust reduced visibility to 1/16 mile, or less, in some spots; several automobile accidents were reported.
Kentucky									
Western Division	19	Night			0	0	5	0	Wind, hail
									Damage was reported from many of the counties in this division, such as that to roofs, TV antennas, trees, and farm buildings. Among some of the damage reported was: a church under construction damaged in Ballard County; a radio tower near Madisonville blown down; near Cediz in Trigg County, an airplane badly damaged and a barn downed; miscellaneous damage in Union, McLean, Graves, Calloway, Daviess Christian, Caldwell; in Logan County a mobile home destroyed and a building under construction damaged; in Simpson County, 2 barns downed. Some hail was reported in Calloway, Caldwell and Simpson counties.
Muhlenberg, Ohio, and Daviess Counties	19	10:00 p.	?	?	0	18	6	0	High winds, tornado
									High winds associated with the thunderstorm activity in a squall line passage were responsible for a number of injuries, mostly minor, and for extensive property damage. A storm about 10:00 p.m. C.S.T. destroyed several mobile homes, and injured 5 people in Muhlenberg County east of Greenville. Northeast of this point at
Kentucky (continued)									
									about 10:15 p.m. C.S.T. there was considerable damage along a line stretching from Rockport to Echols to Hartford. Width of the damage path varied from about a quarter-mile in the Rockport area to considerably less elsewhere. In this latter area about 11 persons were injured, 12 houses and 4-6 mobile homes were reported to have been destroyed, about 30 to 40 houses damaged; and a number of barns and other property suffered damage to some degree; preliminary damage was reported at several hundred thousand dollars. High winds were responsible for several injuries (minor) in the Whitesville area (where damage was heaviest). 40% of all buildings were reported to have been damaged to some extent. A report of damage to the Sheriff's office included: 2 mobile homes, 2 homes, and three truck-campers destroyed or heavily damaged; 9 barns destroyed; 5 garages destroyed; 6 out-buildings destroyed; 2 churches damaged; several business buildings badly damaged. Lightning was heavy and almost continuous and rain was very heavy. The path was widest, about 0.6 mile on the southwest side of Whitesville, and narrowed to about 100 feet downwind. No explosive effects were noted, nor excessive damage to trees. Preliminary damage estimates in the Whitesville area totaled \$500,000 or more.
Muhlenberg, Ohio, and Daviess Counties (continued)	19								
									There were several evidences of tornado activity as the thunderstorms moved from southwest to northeast. Residents of Ohio County reported: a roar like that of 4 or 5 trains; glass blown into a wall; a large barn lifted and set back down some distance away with little or no damage. Residents of Muhlenberg County reported heavy rains which flooded roads. In the Whitesville area of Daviess County, a roof was blown off and to the left (west); 2x4's were driven "like spears" into the ground and sides of buildings; the noise was reported by some like that of "a bunch of diesel locomotives in a bottle".
Central Division	19	Night			0	0	5	0	Wind, lightning, hail
									High winds were responsible for a variety of damage in a number of counties some of this being: about 11 p.m. in Breckinridge County, several barns and several homes damaged, 2 mobile homes destroyed; miscellaneous wind damage in Breckinridge and Meade counties; wind damage to farm buildings and trees in Hardin County; 2 barns destroyed in Grayson County; 2 barns destroyed in Taylor County, debris carried some distance downwind; some wind damage in Warren County; 2-story house and several lumber company buildings (estimated loss \$300,000) destroyed by fire apparently set by lightning strikes.
Blue Grass	19	Night			0	1	4	0	Wind
									Scattered wind damage was reported from several counties (several barns destroyed). One injury due to wind occurred in Owen County when a mobile home was blown over at 2:30 a.m. E.S.T. 11/20/70.
Southeast	19	Night			0	0	4	0	Wind
									A variety of wind damage was reported from Pulaski and Laurel counties, 40 to 45 m.p.h. wind reported to have been observed at the London airport for several hours, 11 p.m. to 4 a.m.
Louisiana									
			None Reported						
Maine									
State	21	P.M.			0	0	4	0	Wind
									Scattered damage by wind; limbs down, etc. Gusts to 60 mph reported at Rumford.
Maryland									
Lower Chesapeake Bay area	4	1:00 p.m. to 1:30 p.m.							Waterspouts
									Three waterspouts were reported; one moved up the Potomac River while the other two headed across the Bay toward southern Eastern Shore. One observer said they appeared to reach a height of two miles. Thunderstorms, with heavy hail, were also occurring at the same time. No damage was noted.
Washington, D. C.	4	1:30 p.m.			0	1	0	0	Lightning
									A 27-year old woman was injured by lightning while standing on the street across from the White House. She suffered burns to her back.
Eastern portion	4	Afternoon			0	0	4	0	Hail, lightning
									Thunderstorms, with hail to the size of marbles, were widespread. Hail was heavy enough to cover scattered areas for more than thirty minutes; however, no damage was noted. Lightning damage included the destruction of a house trailer near Diamond's Corner, Talbot County.
Massachusetts									
Southeast, Cape Cod	2-3				0	0	4	0	Wind, rain
									Scattered damage by wind over Cape Cod and the islands, with

See reference notes at end of table.

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Massachusetts (continued)										
Eastern	21				0	0	4	0	Wind	
Michigan	20- 8 pm - 21 10 am				0	0	5	0	High Winds	
Statewide	22- 2 pm - 24 4:30 pm				2	1	5	0	High Winds - Heavy Snow	
Minnesota									None Reported	
Mississippi	16	8:15 p.- 8:17 p.			0	0	?	0	Earthquake	
DeSoto County	19	8:30 p.- 9:00 p.			0	4	4	0	Wind	
Warren County	19	11:35 p.			0	0	?	0	Wind	
Missouri	19	7:15 PM						4 ⁰	Thunderstorm Winds	
Independence, Jackson County	31	evening			1			3	Wind	
Montana	20- 21, 24								?	Wind, snow
Sanders County	21								1	Severe cold, snow
Richland County	22								1	Severe cold
Nebraska										None Reported
Nevada										None Reported
New Hampshire	21								0 0 4 0	Wind
New Jersey	4	3:00 p.m.	1/2	100				5		Tornado.
New Jersey Shore	4	11:00 to 11:30 p.m.							4 3	Hail, high winds, rain, electrical.
Central and Northern New Jersey	13- 14								4	Local flooding.
New Mexico										None Reported
New York	19	4 a.m.							3	Wind
Lake Erie Counties	23- 24	8 a.m. to 2 p.m.								Snow

See reference notes at end of table.

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New York (continued)												
										Livingston Counties. Later on 23rd winds shifted southward to Chautauque and northwestern Cattaraugus Counties. High winds with heavy snow paralyzed communities along Lake Erie eastward to almost Rochester area. State of emergency declared in Towns of Evans and Hamburg, having to contend with 12-foot snow drifts. N. Y. Thruway closed most of one day over 133-mile length, from Rochester to Pennsylvania line. Other main highways and secondary roads impassable over 5-county area forced general closing of schools, industries and many retail establishments and badly snarled postal service. Hundreds of people in cars, trucks and buses were stranded on highways as motels, community buildings and service stations taxed for shelter. Some 25 large tractor trailers stalled on Rte. 20 in Genesee County alone. Snowfall amounts decreased to 6 to 12 inches in eastern Cattaraugus and adjacent portions of Allegany Counties. Squalls shifted to eastern lee of Lake Ontario on 21-25th but yields of 5 to 7 inches resulted in only minor difficulties to travel.		
North Carolina												
Panlico County	3	3:15pm						0	0	Funnel Cloud		
										Reported by Air Force 18 miles northwest of Cherry Point. No reports of surface damage.		
Craven County	3	5:00pm						0	0	Funnel Cloud		
										Reported by public 8 miles north of New Bern; only about ten miles from location of report above.		
Bertie and Perquimans Counties	3	3-5 pm						0	4	Hail		
										Unusual late-season hailstorm damaged soybeans and gardens scattered areas of two counties.		
Harnett, New Hanover and Richmond Counties	10	11am-2pm			1	0	4	0	0	Wind, Electrical		
										Scattered thunderstorms caused damage several areas. Boat capsized off Carolina Beach, drowning owner. Wind unroofed two garages in Richmond County. Lightning caused electrical outage in Dunn.		
Forsyth, Wilkes and Yadkin Counties	12	6-7 pm						0	3	Hail		
										Second November occurrence of hail; reported at Kernersville, near Jonesville, and in rural Yadkin County.		
Catawba County	14	late ev'ng						3	0	Lightning		
										Barn and contents burned in fire set by lightning.		
North Dakota												
Entire state	20-21									Snowstorm		
										Snow began in southwest on 20th and by forenoon of 21st had over-spread entire state. Snowfalls ranged from 2 to 3 inches northern border to 8-9 inches in south central and southwest. High winds whipped snow into blinding clouds plugging many rural roads in southwest and south central. Power outages left Hazen, Stanton and Center residents without power for a time and rural telephone lines were out in Bowman area.		
Ohio												
Scattered Areas	20	Afternoon			0	1	4			Wind, electrical		
										A Massillon man was critically injured when he was trapped beneath a tree limb felled by gusting winds. Strong winds or lightning resulted in power outages in the Lima, Pistoria, Wooster, and Akron areas.		
Northeast Counties	23-24	Morning-Morning			1	0	?			Snow and wind		
										Traffic was snarled and thousands of persons were late to work as the first heavy snowfall of the season covered Northeastern counties near Lake Erie with up to 18 inches of snow. Eastern portions of Cuyahoga County received up to 11 inches of snow and in Lake, Geauga, and Ashtabula Counties snowfall reports of 8 to 12 inches were common. Winds of 20 to 35 mph and temperatures in the teens accompanied the snow squalls. Numerous accidents were attributed to poor road conditions.		
Oklahoma												
										None Reported		
Oregon												
Mt. Hebo, Yamhill County	8	12:30a.-3:00a.			0	0	0	0	0	Wind		
										A Pacific storm moving onshore provided strong west-southwest winds repeatedly reaching one-minute peak speeds of 55 to 69 mph. Highest observed one-minute average was 83 mph at 1:15 a.m. No damage was reported at this mountain top location of 5153 feet msl and 11 miles east of the coastline.		
Oregon (continued)												
Western Half of State	22-23	6:30a, 22- all day 23						0	0	5	0	Ice Storm
												Freezing rain caused extensive glazing conditions across most of the western half of Oregon. Glazing began on the west side of the Cascade Mountains on the 22nd and spread east of the mountains late in the day and on the 23rd. Most severe glazing occurred in the Willamette Valley with worst conditions prevailing in communities of Corvallis, Albany, Salem, Independence, and Dallas. Ice accumulations of 1/4 to 1/2 inch broke down several thousand limbs and trees which in turn tore down electrical and telephone lines. Up to one inch of ice was reported in the Rex area. Electrical outages for the storm were estimated at 30,000 and lasting for a few hours to nearly 3 days. Some 4,000 telephone lines were also downed. Numerous ornamental shrubs were also damaged. Traffic was slowed by hazardous conditions as far east as The Dalles, and numerous cars slid off the highways. Temperatures warmed quickly late on the 23rd in the Willamette Valley.
Stayton near, Marion County	24	about 1:30p.						0	0	4	0	Wind
												A mobile home being towed westward along S.H. 22 was blown over into the bardiach and demolished a few miles east of Stayton. Brisk southerly winds caught the large flat half side of the trailer causing the damage.
Klamath County	27-28	7:00a, 27- 1:00a, 28	100	*70-100				0	0	4	0	Snow
												A slow moving snow storm across the area provided heavy snowfall of 6 to 8 inches in the valley floor of the Klamath Basin. Higher elevations varied from 18 inches at Sprague River, 17 inches at Round Grove, 21 inches at Howard Prairie Dam, and 25 inches at Crater Lake National Park Headquarters. The hilltop locations in Klamath Falls received up to 15 inches causing numerous broken branches and as many as 2,000 power outages.
Burns area, Harney County	30	4:15p.-4:30p.						0	0	4	0	Wind
												A fast moving cold front passing eastward through the area caused damaging winds. A small airplane at the airport 4 miles east of Burns broke loose from its tie-down and flopped over smashing the tail section of another airplane. The high gusty winds along Highway 20 about 13 miles east of Burns at 4:30 p.m. caused a 12 by 50 foot mobile home to overturn. The trailer home loaded with furniture landed upside down in the ditch on the north side of the road. The winds from out of the west-southwest were estimated over 65 miles per hour locally. A special weather observation at the Burns Weather Service Office showed west-northwest winds averaging 17 mph with gusts to 27 mph at 4:20 p.m.
Pacific												
										None Reported		
Pennsylvania												
Southeastern Pa.	4	Afternoon & evening						0	0	4	0	Lightning, wind, rain
												In Bethlehem lightning struck a home and blew out the ceiling in two bedrooms and destroyed the electrical wiring in the house. Damage was estimated at \$5,000. The Lehigh Valley was without TV cable the entire evening. Telephone service was disrupted in the Red Lion area in York County. In Lancaster several homes were hit by lightning. Montgomery and Chester counties reported interruption of electrical services. In Montgomery County some streets were reported under water and minor power failure occurred.
Blair and Bedford counties	12-13							0	0	5	3	Rain, lightning
												Night-long electrical and rainstorm activity. Some roads in the Imler, Renoldsville, and Morrisons Cove areas in Bedford County were reported impassable. In some sections the electric service was knocked out by the lightning. Cellars in low-lying areas were flooded from six inches to six feet. The most serious damage to homes was to heating systems. Acres of land along the Frankstown Branch of the Juniata River were under water from Sprout to Frankstown.
Mercer County	20	Afternoon						0	0	4	0	Lightning
												In Grove City a bolt of lightning inflicted minor damage to three homes and an auto.
Huntingdon County	29	Evening						0	0	4	0	Lightning
												In Huntingdon lightning struck a high tension wire causing black-outs in several areas and several hundred dollars worth of damage to electrical equipment.
Puerto Rico												
	9-10							0	0	0	C	Heavy Rains, Floods
												A slow moving cold frontal system caused heavy rains in the eastern and central sections of the island. Heavy flooding was concentrated in Vega Baja and Dorado areas and Civil Defense evacuated 300 persons from their homes in this zone. Puerto Nuevo and Cantera sections of San Juan were flooded with about 50 people evacuated. A number of north coastal and inland highways were blocked by flood waters and landslides. The Aqueduct and Sewer Authority reported

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
Puerto Rico (continued)											
											broken water mains in the Catano-Bayamon sector which cut the water supply to La Vega Urbanization. Metropolitan San Juan suffered heavy local flooding which caused considerable damage to business establishments especially in the Puerto Nuevo and Highway #2 districts.
Rhode Island			None	Reported							
South Carolina											
Berkeley County	10	4:40 p.			0	0	4	0			Thunderstorm, high winds
Statewide	24-25				1	0	2	2			Severe freeze
											Considerable damage was done in and near Moncks Corner by high winds accompanying a thunderstorm and heavy rain. Trees were downed in several different locations. Porches, awnings and windows suffered damage and breakage. One mobile home was badly damaged while another sustained moderate damage.
South Dakota			None	Reported							
Tennessee											
Carroll County	19	9:45 p.m.	15	200-300	0	1	4	0			Tornado
											A tornado touched down briefly just west of Highway 22, three miles north of Clarksburg, destroying a mobile home, damaging a second trailer, and nearby farm buildings. Storm moved from southwest to northeast along a discontinuous path. Possibly the same storm damaged trees and a double carport at Brudeton. Another area to suffer wind damage was in Smyrna Community, about six miles southeast of Huntingdon; one house suffered major damage and another had the roof blown off. Total storm damage was estimated at \$20,000.
Mid-State Area	19-20	Night 19th-20th			0	0	4	0			Wind, lightning
											Wind damage occurred in Montgomery, Smith and Willson Counties; lightning caused local damage in Davidson County.
FUNNEL CLOUDS REPORTED DURING NOVEMBER 1970											
Tipton County	19	6:52 p.m.									Covington Airport
Shelby County	19	7:24 p.m.									Shelby Forest, north of Memphis
Shelby County	19	8:02 p.m.									10 miles north of Memphis
Texas											
McKinney, Collins County	13	2:50 p			0	0	4	0			Lightning
											Lightning struck two homes in McKinney, damaging both. Fire caused by the lightning severely damaged a home at 210 Lyne Street. Firemen found the back bedroom ablaze and thick smoke pouring out the front door. Firemen surmised that lightning struck the house and the current traveled down the electrical wiring into a clock and radio in the bedroom, starting the fire. At 4:01 Bradley, lightning knocked a television antenna off the roof. There was no damage inside of the house except to the television set.
Canyon Lake, Comal County	15	Night			1	0	0	0			Strong Winds
											An Army medical officer, Capt. Humberto Arrillago Figueroa, 32, drowned when the sailboat in which he and a companion were sailing capsized in rough water at Canyon Lake near New Braunfels. The companion swam to safety.
Utah			None	Reported							
Vermont			None	Reported							
U. S. Virgin Islands			None	Reported							
Virginia											
Northern Virginia	12,13				0	0	0	0			Rain
											Heavy rain fell in the northern part of Virginia flooding highways, bridges and basements. Two persons had to be rescued from a car washed off highway 30 east of Winchester. One man was rescued from a tree and another from a rooftop.
Washington											
Puget Sound area	24	6 AM	1/4	30				4			Tornado
											The funnel of a small tornado touched the ground briefly in an area 3 1/2 miles northeast of Marysville. Two barns were damaged and a dairy cattle loafing shed destroyed.
Eastern Washington	24										Freezing
											Freezing rain over a wide area in eastern Washington and in the Columbia River Gorge resulted in ice-coated highways.
West Virginia											
Martinsburg, Berkeley County	13	evening			0	0	4	0			Rainstorm
											Flooding occurred along Opaqueon Creek and flooded several basements in the Martinsburg area, and also washed away some cars and camper trailers. The Berkeley County school system was forced to close November 13. Timely warnings from the National Weather Service achieved a savings of \$5000 to a federal installation near Millerville and warnings to police departments were acted upon. The police drove along river bottom roads and warned individuals, many of whom found it hard to believe the forecast rise of more than 10 feet.
Maldville, Monongalia County	23	6:30 p.m.			0	0	0	4			Cold wave
											A sudden drop in temperatures to near zero caused a break in a 23,000-volt line, due to contraction in the line, 5 miles northwest of Morgantown. The resulting power outage caused several greenhouses along the Monongahala River near Morgantown to lose their heat and destroyed considerable tomatoes and cut flowers. This was the first major cold wave of the season.
Wisconsin											
Northeastern Counties	2-3				0	0	5	0			Wind
											Gale force northeasterly winds along the Green Bay shores during night of 2nd-3rd did damage to boats and piers, breakwaters, roads and homes as water rose several feet and inundated Marinette, Oconto Brown and Door counties shoreline property.
Entire State	22-23				0	0	6	0			Wind
											Gale force westerly winds caused widespread damage to trees, wires and signs around state. Also considerable wind erosion in sandy areas of state. Several car accidents caused by winds. Severe snow squalls in Hurley area.
Wyoming			None	Reported							

- * Includes crop damage.
- C Crop damage.
- † 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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