

U. S. DEPARTMENT OF COMMERCE  
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ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
ENVIRONMENTAL DATA SERVICE

# STORM DATA

DECEMBER 1967

Volume 9 No. 12



ASHEVILLE: 1968

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1967

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>ALABAMA</b>									
Frisco City, Monroe County	2	3:15p	1	300	0	1	5	0	Tornado
									Tornado moved from southwest down main street, damaging many buildings in downtown area and destroying power lines. About 20 houses damaged, a few severely, mostly near the high school.
Citronelle and Fritchard, Mobile County	2	3:15p-5:30p			0	0	4	0	Wind
									High winds with line of thunderstorms caused scattered damage to roofs and power lines and uprooted trees, mainly in Citronelle and Fritchard areas.
Birmingham, Jefferson County	2	4:21p							Funnel
									Funnel cloud reported by Civil Defense 1 mile northwest of airport.
Bon Secour, Milfin & Josephine Communities Baldwin County	10	4:15p	10	Narrow	0	0	5	0	Tornado
									Tornado moved from southeast portion of Mobile Bay inland near Bon Secour demolishing a house and boat works, damaging several houses and trailer and uprooting trees. Moved east-northeast in rural area, twisting tops from trees and then demolishing 1 house and uprooting several others near Milfin and Josephine. Storm moved about 60 mph.
Madison, Lawrence, Limestone, Morgan, Winston, Marion and Lamar Counties	17-18	Night			1	0	5	4	Rain
									Over 4 inches of rain fell in local areas causing flash flooding damaging houses, stores, streets and highways. A child drowned in storm sewer.
Morgan, Madison Counties	18	3:25a	22	300	2	27	6	1	Tornado
									Tornado hit Talach Community in northeast portion of Morgan County then moved northeastward into Madison County across south portion of Huntsville ending near Gurley Community. Main damage in Furtsville. Twenty-two houses destroyed, 46 houses had major damage, 68 had minor damage, 16 mobile homes destroyed and 4 had major damage. Extensive damage to automobiles, power lines, several commercial buildings and farm buildings.
Bellamy, Coatope Communities, Sumter County	18	6:25a	8	?	0	0	4	0	Tornado
									Tornado struck near Bellamy and moved northeast near Coatope Community. Two houses destroyed, 7 damaged, about 2 miles of power lines wrecked and numerous trees uprooted or twisted off.
Birmingham, Jefferson County	19	5:00a	10	?	0	0	4	0	Tornado
									Tornado dipped down briefly at municipal airport damaging 3 hangars and 8 aircraft. Radar indicated tornado began about 10 miles southwest of airport but did not touch ground.
Madison County	21	7:30p	10	?	0	1	5	0	Tornado
									Tornado skipped across west portion of county mostly in rural area cutting path through woods. One house unroofed and trees and signs down for a distance of 2 miles near airport.
Ozark, Dale County	22	1:15p							Funnel
									Reported by pilot.
<b>ALASKA</b>									
									3
									Strong winds associated with an intense storm moved across Alaska from St. Paul Island through the Northern Gulf to the central and northern section of Southeastern Alaska. Sustained winds with gusts 35-55 knots on the 1st and 2nd at St. Paul when the storm approached the southeastern panhandle; gusts of 55-80 knots were reported for two days, the peak gusts reached 81 knots, at Annette.
									Another storm during mid-month developed strong winds again on the 12th and 13th, trees were blown over and there was considerable roof damage in the Anchorage area. Delta Junction received gusts of 80 knots, damaging roofs and breaking trees. Sagwon and Umanak reported gusts of 75 knots; no major damage was reported from these sparsely populated areas. No deaths or injuries were reported.
<b>ARIZONA</b>									
Higher elevations over much of State	12-20				8	?	6	5	Snowstorm
									During this 9-day period some of the heaviest snow in the climatological history of the State brought widespread damage to Arizona. From a meteorological standpoint, there were actually two main storms one affecting the State from December 12 through 16 and another from late on the 17th through the 20th. However, the storms followed one another so closely that damage estimates, above, cover the entire period of both storms. Heaviest snowfall occurred in the mountains in the northern, central and eastern parts of the State and on the high plateau area in the northeast. Because of the rapid rate of snowfall and the accompanying low temperatures, new records for maximum snow depth were set at many stations in these areas. Many homes, farm buildings and business structures were caved in by the weight of snow. Considerable damage was incurred by utilities and roads. Many people were stranded and some very trapped in the open and died of exposure. All of the latter were on the Navajo Reservation in the northeastern part of the State. Losses listed under "crops," above, included losses to farm buildings, fences and roads, as well as the value of a number of cattle that died in the snow.
Mesa	19	5:30 p.	1/4	30	0	0	4	0	Tornado
									Small tornado moved through a Mesa subdivision from the southwest, unroofing several homes.
<b>ARKANSAS</b>									
Fort Smith - Sebastian County	21	6:00 a.	3	800	0	6	5	0	Tornado
									Damage to roofs, utility lines, signs and trees. Considerable auto, truck and trailer damage. Robs blown off commercial buildings.
Edgemont - Cleburne County	21	5:00 a.	0	0	0	0	4	0	Wind storm
									Masonic Hall demolished. Homes unroofed. Boats torn from Greers Ferry docks and trailers overturned.
Helena - Phillips County	21	Early a.	0	0	0	1	3	0	Wind storm
									Concrete block wall toppled on man. Other scattered damage reported.
Hope - Hempstead County	21	9:30 a.	2	400	0	0	5	0	Tornado
									Theater roof blown off and damage to windows and extensive damage to trees and roofs. Also broiler house "exploded" 5 miles southeast of Hope.
									The above, plus other scattered wind damage, was associated with a strong cold frontal passage thru the state on the 21st. Damage was reported from the west-central and southwest sections northeastward thru the upper Arkansas River valley to the Greers Ferry area to the northeast sections including the Jonesboro and Pocahtontas sections.
<b>CALIFORNIA</b>									
Entire State	12-15				4	0	6	6	Wind, rain, snow, and cold.
									Strong north and east winds over most of the State caused damage to buildings, trees, utility lines, greenhouses, and billboards. One cannery worker was killed when wind toppled a stack of packing boxes. Heavy snows closed highways and isolated communities in the mountains and on the high desert. One woman was frozen to death while walking to her home from a stalled car. Heavy rains in the San Diego County area resulted in the death of two persons from drowning. Low temperatures in the wake of the storm damaged citrus, and some wind damage was also reported to the citrus and avocado crops.
<b>COLORADO</b>									
Northeastern Colorado	6	8:00 a.-noon			0	0	4	0	Wind
									High winds caused scattered damage over an area just east of the mountains from Denver northward. Windows and signs were broken or damaged and there were several power outages. In Denver some structural panels were blown from a building and the screen of an outdoor theater was severely damaged. Wind gusts to 55 m.p.h. were recorded at the Denver airport and to 66 m.p.h. at Fort Collins. There were unofficial reports of winds up to 75 m.p.h. in the area.
Southwestern Colorado	13-21				0	2	4	?	Snow
									Record or near record amounts of snowfall with high winds and severe drifting blocked roads and highways over an area from the southern mountains westward to the state border and along the border from the Four Corners area to the west central area. Some areas were isolated for periods of several days. Snow vehicles were used to transport feed for cattle and sheep trapped in the Towaco area of the Ute Indian Reservation. There were some livestock losses in several areas. Two men were injured when the car in which they were riding was caught in a snow slide 6 miles south of Ouray. Other motorists were stranded for several hours between slides in the same area. Archuleta, Dolores, La Plata, and Montezuma Counties were designated disaster areas to permit emergency livestock feed assistance.
<b>CONNECTICUT</b>									
Litchfield County	3	6:00 - 10:00 a.			0	0	4	0	Wind
									High winds knocked down trees and caused numerous power failures.
New Haven, New Haven County	9	1:00 - 3:00 a.			0	11	5	0	Fog and smoke
									Inversion trapped fog and smoke. Near zero visibility caused several multiple car accidents on I91.
Statewide	28-29	AM AM			0	0	5	0	Glaze
									Snowfall, which accumulated to depths of 2 to 5 inches in south and 7 to 16 in the north, changed to sleet and freezing rain late on the 28th. Ice accumulation downed power lines, injured trees and was responsible for nearly 100 vehicular accidents.
<b>DELAWARE</b>									
									None reported.

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
<b>FLORIDA</b> Fort Walton Beach, Okaloosa County	10	3:15a.	5	1000	1	50	6	0	Tornado
									Tornado struck Fort Walton Beach and Ocean City during darkness hours. A three-year old girl was killed and about 40 persons were treated at local hospitals. Five were still hospitalized two days later. Thirty-five homes and nine business establishments were destroyed. Twenty-three business establishments and 290 homes were damaged to varying degrees. Part of the path was through a heavily wooded pine forest, which suffered extensive damage.
Walton County	10	pre-dawn	?	?	0	0	4	4	Tornado
									Tornado destroyed one home and damaged several others. There was heavy damage to timber in the area.
Washington and Holmes Counties	10	7:00 a.	10	300	0	0	4	0	Tornado
									Small tornado struck Washington County between Caryville and Bonifay and traveled northeast into Holmes County. Two homes were destroyed four miles west of Bonifay. Other damage consisted mainly of uprooted trees, damaged farm buildings, and downed power lines.
Panama City, Bay County	10	8:05 a.	6	250	1	34	6	0	Tornado
									Tornado touched down briefly in the apartment housing area at Tyndall Air Force Base and again across the Bay in Parker and Callaway. The one fatality occurred at Tyndall as did most of the severe damage. Thirty-four persons were treated at the hospital, 10 of whom were still hospitalized the second day. Thirty-nine homes at Tyndall were totally or nearly destroyed. Another 30 suffered lesser damage. In Parker and Callaway, damage was confined mainly to downed power lines, overturned trailers, and uprooted trees.
Calhoun County	10	10:00 a.	?	?	0	0	4	0	Tornado
									Tornado destroyed four farmhouses and several barns in a rural area between Mountstown and Altha.
Gulf County	10	11:00 a.	?	70	0	0	4	0	Tornado
Indian Lake Estates, Polk County	11	morning	short narrow	0	0	2	0	0	Tornado
									Funnel aloft was observed to dip down to the ground north of Highway 60. A tree and a utility pole along the highway were damaged.
Cleaviston, Hendry County	11	afternoon							Funnels aloft (2)
Key West	22	4:51 p.							Funnel aloft
Largo, Pinellas County	28	10:10 a.	short	35	0	0	4	0	Tornado
									Tornado touched down on the southwest side of town and moved northeast, touching down long enough to do damage in several areas along its route. Damage was relatively light with one home unroofed and several plate glass windows shattered. A drug store reported three panes of glass were "sucked out" and blown across the parking lot.
<b>GEORGIA</b> Rome	18	5:15 p.	4	25	0	2	4	0	Tornado
									Storm moved through the southern section of Rome, just outside the city limits. Several houses were damaged and numerous trees were uprooted or broken off above the ground. A truck was picked up and left overturned off the road. A short time later a car was reported to have been overturned several times by wind on Highway 27 north of Rome. The driver apparently suffered only minor injuries.
<b>HAWAII</b> All Islands	9				0	0	0	?	Heavy rain, wind, snow, surf
									Heavy rains Kauai caused local flooding but only minor damage in Hanalei and Kokee areas. Up to 10 inches of rain in Oahu's mountains during afternoon caused scattered flooding and minor damage in lowland areas including Waimanalo, Pearl City, Waikiki. Gale winds, icing, heavy snow on Hawaii Island's Mauna Kea Summit damaged partially-built astronomical observatory and construction equipment.
All Islands	12				0	0	0	0	Wind
									Strong northwesterly winds behind fast-moving cold front damaged banana, fruit trees on Kauai. Gusts to 62 miles an hour with rain, hail struck Haleakala Summit, Maui on afternoon of 12th depositing ice 6 inches thick on TV transmitting antenna. On Oahu, \$7,000 yacht was sunk, other boats snapped from moorings by waves and wind in Keahi Lagoon, Honolulu. Mango tree blew onto house, doing \$4,000 damage at Laupahoehoe on Hawaii.
Kauai, Oahu	16-18				2	0	?	?	Wind, surf
									Strong, gusty southerly winds caused numerous power failures as branches contacted power lines. Banana crop on Kauai again damaged. Storm-generated high surf swept 2 men to death from 52-foot sampan inside entrance of Kewalo Basin, Honolulu on morning of 17th.
<b>HAWAII (Cont'd.)</b> Kauakani, Kauai	17	About 4:30 a.	2 1/2	70	0	0	0	0	Tornado (?)
									Severe local windstorm, probably small tornado spawned from squall line moving from south, cut swath 200 feet wide, 2-1/2 miles long, through Kauakani, Kauai and sugar cane fields. Thirty-eight homes severely damaged, 4 or 5 beyond reasonable repair. No funnel sighted or rotary motion indicated by debris pattern, but sound like jet airplane heard by several persons. Three coconut palm trees broken off 3 to 10 feet above ground; tops never found. Total damage about \$300,000.
Oahu	18	Morning			0	0	0	0	Heavy rains
									Squall line dropped torrential rains over eastern Oahu. Severe flooding in Waimanalo and in Koko Head, Kuliouou, Ni'u Valley and Aiea Haina areas of Honolulu. Damage heaviest in Ni'u Valley, where debris-clogged storm drains overflowed, sending flood waters through adjacent homes severely damaging several, and necessitating evacuation of 200 residents. Damage, including post-flood clean-up, estimated at over \$900,000. One gage (Kaalakel) in southeastern Oahu reported about 2.7 inches in about 40 minutes. Totals ranged up to nearly 11 inches in less than 8 hours in some localities.
<b>IDAHO</b> Hove area, Butte County	18					1			Snowstorm
									Shepherd disappeared during heavy snowstorm and his body was found 5 miles from camp 6 days later.
Minidoka and Cassia Counties	19	Morning							Icing
									Entire two-county area without power for about 1 hour as lines collapsed under load of ice. Heavy fog present at time of icing.
Southern Idaho	22	10:53 PM							Snow
									Accumulation of wet snow on shield wire caused it to sag and short out two conducting lines in Hells Canyon. Southern Idaho and parts of four neighboring states were blacked out for periods ranging from a few minutes in Utah to an hour in some Idaho communities and La Grande, Oregon.
Pomerelle Ski Area, Cassia County	25	Night							Icing, wind
									Icing conditions and high winds resulted in collapse of 50-foot tower on chair lift.
Idaho Falls area	26	Morning							Icing
									Heavy icing broke power line 6 miles east of Idaho Falls, leaving 700 customers without power for 30 minutes to 1 hour.
Gibbonsville, Lemhi County	26	11 A.M.							Snow slides
									Three snow slides up to 4 feet deep blocked U. S. 93 north of Gibbonsville. Two cars were caught between slides and another 25 cars were held up pending removal of snow.
<b>ILLINOIS</b> Southern Illinois	20-21								Heavy rain, local flooding
									Rains frequently totaled more than 4 inches in 24 hours and up to 6 1/2 inches in 30 hours on soil already saturated. Much local flooding.
Jersey County	21	1:15a	1 1/2	125	0	0	0	0	Tornado
									Major roof damage and destruction of several farm outbuildings. 125 yard wide path through cornfield. (WBAS, St. Louis)
Clinton County	21	10:15a	1	50	0	0	0	0	Tornado
									Two barns southwest of Breese, 6 homes and restaurant in Breese destroyed. Roof and outbuilding damage in town and intermittently to northeast for about 10 miles. (WBAS, St. Louis)
Handolph & Perry Cos.	21	11:00a	25	400	0	2	0	0	Tornado
									This tornado crossed river from McBride, Missouri into Illinois at Cole's Mill and continued to south of Chester before lifting. Touched again south of Perry and continued northeast to about 4 miles west of Pinckneyville. Two trailer homes and several outbuildings destroyed with damage to trees, roofs and other buildings. Woman and baby injured when picked up near Perry and carried about 400 feet. Total path about 25 miles in two touchdowns.
<b>INDIANA</b> Fillmore (Washington County), 3 miles NE	11	E.S.T. About 2:00 p.	Short Narrow	0	1	3	0	0	Tornado
									One person injured when house trailer was turned up-side down.
Evansville (Vanderburg County)	11	About 2:40 p.	?	?	0	0	4	0	Tornado, wind, funnel clouds
									Funnel clouds and strong winds were reported in Evansville and nearby vicinities with some tornadic activity causing damage to power lines, trees, cars, small buildings, and house roofs. About eight miles west of the city, along Highway 62, a bus was picked up and set in a gully. Funnel clouds were reported 10 to 15 miles southwest of the Evansville Airport.
Rockport (Spencer County)	11	Afternoon	?	?	0	1	1	0	Wind
									One person was injured when storm hit the building on which he was working.

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<b>INDIANA (Cont'd.)</b>										
Greencastle (Putnam County)	11	Afternoon	?	?	0	0	4	0	Wind	
									Uprooted trees blocked streets, the roof was torn from a small business building, one house and a nearby airplane hangar were damaged.	
Cumback (Davies County), 1/2 mile N	11	4:30 p.	?	?	0	0	94	0	Tornado	
									Several farm buildings were damaged by tornado which traveled northward. Some corn still unharvested was lost.	
Decker (Knox County), near	11	About 4:45 p.	?	?	0	0	4	0	Tornado	
									House trailer demolished.	
Fredericksburg (Washington County), near	11	5:30 - 6:00 p.	1	?	0	0	4	0	Tornado	
									Tornado dipped intermittently from 2 1/2 miles NNW to 1 1/2 miles NW of Fredericksburg. Barns, a house, and electrical lines were damaged.	
Frafalgar (Johnson County)	11	6:48 p.	?	?	0	0	5	0	Tornado	
									Power lines and trees were felled and barns and buildings ripped west of Trafalgar, with damages estimated at \$75,000.	
Hartsville (Bartholomew County)	11	Afternoon	Short	Narrow	0	0	3	0	Tornado	
									Sheriff reported that a small tornado tore a porch from a dwelling and destroyed a barn.	
Waldron (Shelby County)	11	Afternoon							Funnel aloft	
Indiana (southwestern part of state)	11	Afternoon	?	?	0	0	?	?	Wind	
									Areas from Mount Vernon to Rockport, in southwestern Indiana, were without power from damage caused by wind, falling trees and storm related problems.	
Roll (Blackford County), NW	21	3:15 p.	Short	Narrow	0	0	4	0	Tornado	
									A house, moved from its foundation, was reported to be a total loss. Also a car was demolished by a falling tree. Nearby farm buildings were destroyed. A neighbor saw the tornado.	
Jonesboro (Grant County)	21	3:15 p.	Short	Narrow	0	1	5	0	Tornado	
									State police reported that one person was injured when a filling station and seven homes were extensively damaged. Garages and other houses received roof damage.	
Pendleton (Madison County)	21	Afternoon	?	?	0	0	3	0	Wind	
									Trees were uprooted and some damage to buildings and cars was reported.	
Bluffton (Wells County)	21	3:45 p.	?	?	0	2	4	0	Tornado	
									Two persons injured when house trailers were demolished. Several house roofs damaged and barn blown down.	
Preble (Adams County)	21	3:45 p.	?	?	0	0	?	?	Tornado	
									State police reported a tornado touched down near Preble.	
Crawfordsville (Montgomery County)	21	Afternoon	?	?	0	0	3	0	Wind	
									Cars and some buildings were damaged by falling trees that were uprooted by strong wind.	
<b>IOWA</b>										
Northern Iowa	17-18						6		Glazing	
									Rain began freezing in northwest Iowa early p.m. of 17th. Highways became impassible by early 18th. Ice accumulation to 1-2 inches snapped high lines, tree limbs, TV antennas and towers in northwest Iowa. Icing spread into northeast Iowa early 18th. Dozens of auto accidents, and several persons injured on slick highways over northern Iowa.	
<b>KANSAS</b>										
Eastern one-third	2	a.m. early p.m.			0	0	5	0	Snow, Ice, Wind	
									Heavy wet snow, plus ice and wind in some localities, downed power and telephone lines over portions of eastern Kansas. Damage was heaviest in Leavenworth, Franklin, Coffey, Linn, Bourbon and Crawford counties.	
Goodland	6	early p.m.			0	0	5	0	Wind	
									Gusty winds toppled a grain dryer at Goodland just after noon, causing about \$60,000 damage. Wind gusts to 62 m.p.h. occurred at Hill City about 4:00 p.m.	
<b>KENTUCKY</b>										
West	11	11:45 a.	?	?	0	0	5	0	Tornadoes	
									Possibly at least 4 tornadoes touched down along a southwest-northeast line from near the Kentucky-Tennessee line (Fulton county) about 11:45 a.m. to the Kentucky-Indiana line (Henderson county) about 2:30 p.m. In general the times of damage would indicate a speed of about 35 miles per hour over a distance of almost 100 miles if it were one or a family of tornadoes which	
<b>KENTUCKY (Cont'd.)</b>										
									caused the damage. In general the storm(s) moved from the southwest to the northeast (the winds aloft also apparently were from the southwest quadrant), although in Henderson county a funnel was observed to be moving toward the northeast. At one location, near Blackford in Webster county, the width of the path ranged from 1/2 to 3/4 mile and the length from 3 to 4 miles. Funnel clouds were observed in only two areas along the southwest-northeast line; a "gray cloud" was observed to remove the roof from a building in Graves county and twin funnels were observed by several witnesses in Henderson county (one of these funnels apparently also was observed by an aircraft pilot). A storm damaged a number of homes in Fulton, Fulton county, about 11:45 a.m., and shortly after noon buildings were damaged in adjacent Graves county. Between 1:45 p.m. and 2:15 p.m. buildings were damaged in the adjacent counties of Crittenden (Barion area) and Webster (Blackford area). About 2:30 p.m. there was building and other damage in the Corydon-Geneva area in Henderson county. There was a variety of other damage along this southwest-northeast line. There was also storm damage in the adjacent states of Tennessee and Indiana; see reports for those States in this publication.	
	11				0	0	4	0	Lightning, wind	
									There were scattered thunderstorms over much of western Kentucky. High winds were responsible for local property damage, downed trees and utility lines, windows broken. At least one barn was destroyed by fire apparently set by lightning. In a few locations heavy downpours were responsible for some flash flooding and soil erosion.	
West	21				0	0	4	0	Wind, rain	
									There was general shower activity over the State with locally heavy rains and thunderstorms. There was wind damage at scattered locations in the west. In the Stanley area of Daviess county, high winds at 3 p.m. levelled 2 barns and a stable, and damaged several homes.	
<b>LOUISIANA</b>										
Natchitoches Parish	2	8:30 a.m.					1		Lightning	
									Hunter killed by lightning 3 miles southwest of Cypress.	
East Feliciana Parish	2	12:15 p.m.	5		400		3	4	0	Wind
									Strong squall line winds damaged several dwellings, barns, outbuildings and turned trailer home on side. Several trees downed over intermittent west-to-east path, about five miles south of Clinton.	
Central Division	14-18				0	0	4	0	Rain	
									Nine to over 15 inches of rain in four days centered in Rapides Parish. Flooded low-lying subdivisions, streets and highways. Rains particularly heavy night of 14-15. Martin Park area of Alexandria received 11.82 inches in 24 hours ending at noon on 15th.	
Rapides Parish	20	9:00 a.m.							Funnel cloud	
									Pilot reported cloud extending to ground, moving northeast.	
<b>MAINE</b>										
State	3-4, 11-12, 18-19, 21-22				0	0	4	0	Glaze	
									Icing from freezing rain was most widespread on the 11-12th, and was unusually severe in the southwestern portion where ice thicknesses built up to 1/2 inch or more. Considerable damage to utility lines and trees. Numerous auto accidents and pedestrian falls. Glaze on other dates less widespread and less damaging.	
State	28-29				1	0	5	0	Snow	
									Snow ranging mostly from 7 to 18 inches over state broke trees and shrubs, caused utility outages and stopped or hampered all transportation. Snow caused subsequent damage to many homes. Least snow over eastern portion of coastal area, with heaviest in central and southwestern portions of state. One death in Augusta attributed to storm.	
<b>MARYLAND</b>										
Western portion	10-11						4		Ice storm	
									Sleet and freezing rain brought heavy coating of ice on roads, wires and trees. Damage to electric and telephone companies was in the thousands. Crewmen reported ice thickness to about 2 inches along the higher elevations, especially along Backbone Mountain.	
Western portion	28	Early morning to mid-night							Snow	
									Snowfall, totaling 10 to 25 inches, extended from central Washington County westward. Heaviest totals, near one-day record, were found in the Westernport-Jumberland area.	

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<b>MASSACHUSETTS</b>									
Cape Cod and Eastern Massachusetts	3-4				0	0	5	0	Wind and rain
		Storm lashed Cape Cod especially hard. Major damage from local flooding of cellars and underpasses. Fourteen cars of a freight train derailed at Clinton from track washout. Beaches were eroded, with a portion of Back Beach on Cape Cod seriously damaged. Wind gusted to more than 60 mph, downing wires and signs and blowing in plate glass windows. Utility outages in some communities. Many streets and highways were strewn with tree limbs. Damages reported as far west as Worcester.							
Nantucket and Cape Cod Vicinity	5				0	0	4	0	Wind and wave
		Coastal storm with winds gusting to 100 mph by unofficial reports stove in the bow of a dragger and drove others into port.							
State	8, 7-8 11-12, 29				0	0	5	0	Glaze
		Glaze (freezing rain) in some areas on 3rd and 7-8th. More widespread, affecting much of state on 11-12 and 29th. Ice accumulated up to 1/2 inch thickness parts of eastern section and up to 3/4 inch or more in western and north-central areas on 11-12th, when major property damages occurred. Many utility outages. Many highway accidents and numerous pedestrian injuries in this episode. Such accidents less numerous on other dates.							
State	28-29				9	0	7	0	Snow
		Excepting lesser amounts in Cape Cod area, snowfall totalled mostly from 6 to 18 inches over state. Some locally heavier amounts, up to 20 inches in north-central and north-eastern portions. Snow caused major damage to trees, shrubs and utility lines. All forms of transportation were hampered or stopped. Many rail schedules cancelled. Snow caused subsequent damage to thousands of homes. Deaths attributed to the storm occurred over many areas of state.							
<b>MICHIGAN</b>									
Southern Michigan	2	AM-PM			0	2	4	0	Ice-Sleet
		Ice coating caused many auto accidents and some power failures. Many persons sustained minor injuries in falls on treacherous ice with a broken arm and cracked disc among the more serious injuries reported.							
Southern Michigan	7	PM			0	0	?	0	Hail
		Reports of small hail and hail received from Muskegon, Caro, Coldwater and Monroe.							
Vassar, Tuscola County	11	Early AM			0	0	3	0	Lightning
		A lightning bolt removed most of one end of a rural home, wrapped the aluminum window frame around a boy's neck sleeping in the room, and cut a furrow across the lawn towards a large tree. Sod from the front yard was found on the roof and in the backyard while a blanket from the bed was found near the barn the next morning.							
Southern Michigan	21	AM-PM			0	0	5	0	Thunderstorms-Flooding
		Severe thunderstorms, high winds and heavy rain moved across the state. Winds toppled trees, caused power failures and set several small fires in the western sections of the state while in the southeastern counties from Mt. Clemens to Monroe, flooded streets and freeways trapped autos. Flooded basements and some road washouts added substantially to the damage totals. Many families were without heat because of the flooded basements when the weather turned much colder.							
Dundee, Monroe County	26	PM			1	0	0	0	Floodwaters
		Two boys canoeing on the Raisin River were swamped by the turbulent flood waters, one boy drowned while the second was able to reach shore. The river was seven feet above its normal level due to recent rains.							
<b>MINNESOTA</b>									
Southwest	16	night			0	6	6	0	Ice storm
		With temperatures in upper 20's a heavy downpour of rain and freezing rain froze to all exposed surfaces, causing power and telephone poles and lines to go down over a wide region. Some places without service for 3-4 days. Classified as worst ice-storm in past 20 years in some areas. Reports of turkeys and other poultry dying because of lack of heat in rural areas. 20 to 30 cars in ditch on one slick stretch in Rock county.							
Extreme NW	20-21				0	0	4	0	Blizzard
		Heavy snow, falling temperatures, and winds gusting to 40 m.p.h. caused schools and businesses to close.							
<b>MISSISSIPPI</b>									
Warren County	2	8:30 am shortly after 11:00 am			0	0	4	0	Lightning, heavy rain, funnel cloud aloft
		As a squall line moved through area: Lightning struck Vicksburg from home: extensively damaged roof, blew out several windows, shattered inside plaster board and burned electrical connection; Fire Department Captain said he had never seen anything like the damage... In another section of town woman "heard a sharp cracking sound" then fire set by a lightning bolt severely damaged her home. Over 1-1/4" rain fell in less than an hour and numerous low places in Vicksburg flooded. Rash of automobile accidents occurred during height of storm, only minor injuries reported. Wind gusts estimated up to 50 mph. Shortly after 11 am as a cold front moved through man in rear of Vicksburg motorcycle showroom heard noise like explosion, then saw sheets of rain pouring into showroom through 3 big plate glass windows which had been shattered and blown into the street. It was speculated that a funnel cloud had dipped down close enough to cause sufficient vacuum to blow the windows.							
Warren to Attala County	2	8:30 am 10:45 am							Details in separate items below
		Damaged houses, barns and churches from east of Vicksburg along a near-85-mile-long line to the NE. Reports so far received indicate a tornado touched ground along part of this line and wind damage in other sections.							
Warren County	2	Shortly after 8:30 am	?	?	0	0	3	0	Tornado
		Small tornado reported dipped down NW and NE Bovina. Small tenant house lifted off foundation and destroyed; occupants (2) escaped injuries. Extensive damage to other buildings and trees.							
Warren County	2	9:00 am 9:15 am	?	?	0	0	4	0	Tornado
		Youngton Community, near Big Black River, (Lat. 32.4° N, Long. 90.6° W) 7 N Edwards (Hinds County): Tornado touched down, 1 house ripped apart, 1 damaged; roofs off farm buildings, 4 cotton trailers and other facilities damaged, some trees uprooted, and others broken. No injuries reported.							
Tazoo County	2	9:30 am 9:35 am			0	0	3	0	Wind, Funnel cloud aloft
		Wind damage to barn near Bentonla reported to Highway Patrol 9:30 am. Patrolman on U. S. 49 between Flora and Bentonla reported funnel about 10 miles N apparently headed E toward Canton.							
Madison County	2	9:35 am 11:00 am	60	100 to 200	0	0	3	0	Tornado, Hail
		Heavy timber and utility line damage along path from SW towards NE through County reported by Sheriff. The most serious property damage centered around Smith School area, 8 W Flora, and just N of Camden. Funnel cloud spotted momentarily as it hit Flora Community; winds accompanied by downpour of rain preceded by golf ball size hail. Church near Flora completely destroyed. About 9:45 am reported in Kearny Park area, N of Flora; barn demolished, light poles and trees down blocked road from Highway 49. To N of Camden, home on hill totally demolished, scattered through nearby woods; no injuries to 5 occupants. On next hill, almost a mile N, only a few support beams and battered front porch was what remained of a house occupied by 18; one boy received broken leg, another a small head cut. Car parked next to house was carried about 100 yards down hill.							
Attala and Leake Counties	2	10:20 am 10:45 am	9	?	0	0	4	0	Tornado
		Tornado about 10:20 am Thomastown area. Some heard approach and went to shelter. Barn lifted from around its hay and dropped on opposite side of undamaged tool shed. Thomastown woman reported horse in the air; it was gently returned to earth unharmed. Storm cluttered nearby Highway 43 and Natchez Trace Parkway with debris. Near Conway woman said her brother clung to small pine tree while wind beat him against ground, demolished nearby out buildings and removed roof from home. Tornado hopskotched from Thomastown to near Dossville and to Mile just over County line where roof of new brick home was scattered over field 1/4 mile away. Storm damaged other buildings along path, disrupted power and telephone service, downed timber, but no injuries reported. Man said, "It sounded like a train coming... All I could see was a solid sheet of blue water coming, it looked like the ocean."							
Leake County	2	11:19 am							Funnel cloud aloft
		Pilot 35 NE Jackson at 29,000 ft. reported funnel cloud moving east. No confirmation it touched ground.							
Neshoba County	2	12:10 pm							Hook echo
		Meridian Radar indicated hook echo 13 NE Philadelphia and moving E.							
Lincoln County	2	12:10 pm 12:30 pm	12	200 - 400	0	0	4	0	Tornado
		Tornado hit Auburn Community, no deaths or serious injuries reported, 5 homes destroyed, 15 badly damaged, 30 less seriously. Church completely destroyed, parts found 12 miles away. Power							

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1967

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 (Cont'd.)									
Scott County	2	Just before 4:12:30 pm	4	Up to 500	2	10	4	0	Tornado
									lines knocked out in Auburn and residents without lights and water. Very dark clouds, no rain before, very little after, no lightning and no thunder noticed. Deafening roar like the sound of many jet aircraft engines, funnel not seen. Part of a pasture was dug up for about 600 sq. ft. down to 1 foot in depth. Storm moved from SW toward NE. Homes and barns damaged in Pleasant Hill Community, two house trailers in Wellman Community were blown off their foundations. Much timber was blown down to west of Bogue Chitto.
Lawrence County	2	Afternoon	?	?	0	0	4	0	Wind, Funnel Cloud aloft
									Heavy winds caused damage to 8 homes and 12 barns, trees uprooted but roads reported open. 12:30 pm - 1:00 pm: high winds with damage in about 6 places in Monticello area; extensive damage to several homes and minor damage many others, heavy damage to barns and out houses. A funnel reportedly sighted about 1:30 pm. In Silver City damage was reported at about 4 places; several homes damaged and 4 trailers overturned.
Jones and Jasper Counties	2	Afternoon	?	?	0	0	4	0	Tornado
									Wind damage attributed to twister extended from Union Line Community (3-1/2 N Boso) into nearby adjoining Jasper County. Barns and chicken houses were flattened, power lines torn down from falling trees and roads blocked, homes damaged. Several hundred large cedars, oaks and pines in Wellborn Community were twisted and broken off. Union Line Community residents indicated their locality had never witnessed such damage before. No deaths or injuries reported.
Lamar County	2	3:00 pm			0	1	2	0	Lightning
									Sunny Hill Community 6 NE Lambert; during rain storm lightning hit pine tree, bounced to automobile under carport, then hit screwdriver held by 16 year old boy. He received 1st and 2nd degree burns on legs, pants and shoes were battered.
Lincoln County	9	3:00 pm - 4:30 pm			0	0	5	0	Lightning
									Church 5 W Brookhaven destroyed by fire. People near building reported unusually sharp and severe lightning and observed "fire-like condition on the power lines." It was suggested that fire may have been caused by lightning striking the building and may have originated in auditorium.
Forrest County	10-11	10:00 pm - 1:00 am			1	0	3	0	Thunderstorm
									Reports of wind and rain damage in County mostly minor. Streams rapidly rose; limbs ripped from numerous trees, 500 scattered customers had power disruption due to falling limbs and a couple of snapped off power poles, approximately 250 phones knocked out. In Hattiesburg: lightning struck power line 11:45 pm, caused minor damage to house; high wind blew tree down on power line which landed in parking area, shortly after midnight. Man stepped on felled wire and was killed.
Stone County	10	11:45 pm	2	?	0	1	4	0	Tornado
									Small tornado accompanied by heavy rains skipped in sparsely populated area of Big Level Community, 12 SE Wiggins (Lat. 30.8° N, Long. 89.1° W). Tin and limbs left scattered over 2 mile stretch, few trees and telephone poles pushed over. Man awakened by winds said sounded "like a loud siren coming down the road." His barn roof torn off, pump house lifted and set on late model automobile, and pick-up truck damaged. Storm, tracking in SW to NE direction, touched down 500 feet away, lifted small trailer off ground about
MISSISSIPPI (Cont'd.)									
Oktibbeha County	17	4:30 pm - 4:35 pm	1/4	100	0	0	4	3	Tornado
									20 feet and landed it demolished wheels up; woman occupant injured; nearby 8-inch tree uprooted. House about 50 yards away had few shingles ripped from roof while tin was lifted from roof of outhouse. Damage also reported on 2 farms; roofing peeled off house and barn at one, and ripped off barn at another.
Attala to Monroe and Lowndes Counties	17-18				0	0	5	0	Heavy Rain
									During excessive lightning, thunder and precipitation, small tornado touched down 5 SE Sturgis, 1000 yards N of County line. (Lat 33.4° N, Long. 89.2° W). Along a SW to NE path debris mostly moved from original location to NE but some moved to SW. Funnel not observed, reported "impossible to see out of side of house because of the tremendous amount of rain", deafening roar heard. Damaged barn, sheds and dairy equipment.
Hinds County	20	5:45 am	1/2	100	0	0	3	0	Tornado
									Heavy rains occurred as warm front moved across counties. State Highway Patrol reported several highways washed. Flooding in low-lying sections. ATTALA COUNTY: Heavy damage to County roads and bridges. Many parts of Kosciusko had streets damaged from flooding. OKTIBBEHA COUNTY: Several families evacuated in or near Sturgis. CLAY COUNTY: Flooding in many homes in low-lying sections, streets and highways heavily damaged. LOWNDES COUNTY: Many rural roads and Columbus City streets closed. Scores of residents evacuated. Big cleanup job after waters receded.
Northwestern Mississippi	21	pm			0	0	4	0	Wind
									Some wind damage reported as belt of showers and thunderstorms moved southeastward. BOLIVAR COUNTY: extremely heavy winds noted at Scott. LEFLORE COUNTY: In Greenwood wind gusts downed trees, knocked over brick walls and overturned carports. At 3:07 pm winds of 35 to 67 mph were reported at Greenwood FAA AP; wind heavily damaged airplane at old municipal airport. TALLAHATCHIE COUNTY: Straight line winds reported by Mississippi Highway Patrol and house trailer was demolished 6:45 pm 4 E Charleston (Lat. 34.0° N, Long. 90.1° W). GRENADA COUNTY: 2:15 pm, Holcomb: wind downed huge tree damaged side of home, and automobile. LAFAIETTE COUNTY: Highway Patrol reported wind damage about 3:30 pm at Abbeville (Lat. 34.4° N, Long. 85.5° W). Part of roof of elementary school blown off and house trailer blown off blocks.
Prentiss County	21	4:05 pm - 4:10 pm	?	?	1	1	4	0	Tornado, Funnel Cloud aloft
									Funnel cloud spotted about 4:05 pm, 10 NW Booneville (Lat. 34.8° N, Long. 88.6° W) remained aloft. About 4:10 pm 6 NW Booneville (Lat. 34.7° N, Long. 88.6° W): funnel dipped from dark clouds down on Pisgah and Jumpertown Communities. One woman injured as wall of home collapsed, she later died. Three homes destroyed and 12 damaged along with numerous utility buildings and barns; church moved several feet off foundation, several gravestones broke or blown over. Trees uprooted and power lines downed. One woman treated for shock.
Northern Mississippi	27-28				0	0	?	0	Heavy Snow
									Snow commenced on 27th over much of Northern Mississippi and some places accumulated up to about 5 inches morning of 28th. State Highway Patrol warned of ice-covered bridges, slick highways and poor visibility during night from Highway 80 north; motorists advised to drive only if necessary, then with extreme caution. A number of roads in the north portion were reported impassable for a while; ice on bridges was a major problem. Some cars were stranded and abandoned but comparatively few accidents reported.
MISSOURI Ozark County	20	10:30-10:45 PM	7				4		Tornado
									A tornado caused damage to barns, outbuildings and timber on eight farms beginning on Route T 4 miles S and 1/2 mile W of Gainesville, to a point 1/2 E and 1/2 N of Gainesville.
Willow Springs, SE Texas County	20	11:15-11:30 PM	13	150			2	4	Tornado
									A tornado caused damage along a 13-mile path from a point 9 miles S and 1-1/2 miles W of Willow Springs northeastward, passing just SE of Willow Springs to the vicinity of King Mountain, 3 E and 1 N of Willow Springs. Damage occurred to 25 farms and residences along this path. Additional damage to homes and barns and a minor injury occurred intermittently along an extension of the above path through SE Texas County to an area 4 N of Summersville, Mo. It could not be determined if this latter damage was due to a tornado.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1967

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					KILLED	INJURED	PROPERTY	CROPS			
MISSOURI (Cont'd) Gasconade, Franklin Counties	20	11:45 PM	1 1/2	50-100			4		Tornado		
	A tornado destroyed barns and outbuildings on ten farms beginning 1 mile ESE of the intersections of Highways 19 and E (12 miles S of Hermann, Missouri) in Gasconade County and ending 2 miles W of New Haven, Missouri 1/2 mile north of Highway 100.										
Bixby-Viburnum Area to Potosi, Iron and Washington Counties	21	12:45-1:20 AM	33	100-200	3	52	6		Tornado		
	A tornado which was eventually to devastate the business district of Potosi first touched down in extreme western Iron County 2-1/2 miles S of Viburnum. Five persons were injured as the tornado destroyed a house and house trailer in a trailer park on Highway 19 midway between Viburnum and Bixby. An aerial survey showed essentially continuous damage from this location to the NE passing SE of Viburnum and into SW Washington County near Route Z, 2 S and 1 E of Courtois, and continuing to the Quaker Community on Route C, 4 E and 1 N of Courtois. NE of Quaker the tornado decreased in intensity and caused only occasional damage to timber in the Clark National Forest. Just SW of Potosi the vortex apparently intensified. Damage lowered from treetop levels to ground level in a residential area on a ridge in SE Potosi. About two blocks to the NE the tornado destroyed a portion of the Potosi business district, including the City Hall, library, a large supermarket and a shopping center complex. Beyond the business area the damage path became less complete as it climbed a ridge to the NE. At the junction of Highways E and 21, the tornado hit a trailer court killing one child and injuring about 15 as 13 trailers were either totally destroyed or badly damaged. The path continued NE along Highway E destroying and damaging homes. Two people were killed in this area as their home was swept from its foundation and scattered to the NE. The tornado apparently lifted, or dissipated, along Highway E about 1 mile NE of Highway 21 as only minor wind damage occurred beyond this point. The Red Cross reported 24 homes and trailers destroyed, 14 business places destroyed, 81 houses and trailers damaged; 3 churches damaged with minor additional damage to many buildings.										
Rover Area, Oregon County	21	3:45 AM	1 1/2	50			4		Tornado		
	A small tornado touched down in a wooded area of western Oregon County 1-3/4 miles S and 1 W of Rover, and moved to the NE. As it crossed Highway M 3/4 mile S of Rover it severely damaged two adjacent homes.										
Poynor Area, Ripley County	21	6:20 AM	4				5		Tornado		
	A tornado originating in Randolph County, Arkansas crossed into Ripley County, Missouri at a point 1-1/2 miles S and 3-1/2 miles west of Poynor, Missouri and traveled to a point 1-1/2 miles W and 1/2 mile N of Poynor. The storm destroyed one new home and several barns.										
McBride Area, Perry County	21	10:45 AM	6	100-200			13	7	Tornado		
	A tornado originating in a wooded area on the Mississippi River Bluff just north and west of Lithium, Missouri destroyed barns and damaged homes on several farms in its path into the River Bottom Land to the Perryville Airport. At the airport two large hangars were destroyed and one damaged as all but one of the 150 employees miraculously escaped serious injury. Several Jet, multiengine and single engine aircraft were destroyed or badly damaged. A warehouse 1/4 mile from the airport was also destroyed as the tornado continued northeastward across the River Bottoms into the Chester-Percy, Illinois areas where subsequent substantial damage occurred.										
Frohna, Perry County	21	11:05 AM					4		Tornado		
	A tornado touched down briefly in Frohna exploding a lumber warehouse and damaging three nearby homes. Sporadic wind damage occurred southwest of Frohna in Perry County and northern Cape Girardeau County, and to the NE to the Mississippi River. It could not be determined however if this related damage was tornadic in origin.										
MONTANA Southern Cascade, northern Meagher, Judith Basin, and western Fergus counties	15-31		120	*15	0	0	2	0	Blowing snow		
	Snow throughout the period accompanied by high winds blocked highways with drifts up to 15 feet deep. It was literally impossible to keep roads open so cattle could be fed. Some ranchers used snowmobiles to roundup and feed livestock. Schools were closed at times. Unofficial readings of wind gusts up to 70 miles per hour were reported the 5th-18th. No casualties or heavy losses resulted from this period of inclement weather other than heavy road maintenance expense, hardship in caring for cattle, difficulty in getting ranch and food supplies, and farm families being marooned until roads could be opened.										
NEBRASKA									None reported		
NEVADA									None reported		
NEW HAMPSHIRE State	3-4, 7-8, 11-12, 18-19						0	0	5	0	Glaze
	Icing from freezing rain was most widespread and damaging on 11-12th, when accumulating to 1/2 inch or more in thickness. Damaging to trees, shrubs and utility lines. Heaviest icing in southern and central sections. Numerous car accidents and pedestrian falls. Schools closed in some areas. Glazing on other dates less widespread and less damaging.										
State	28-29						1	0	6	0	Snow
	Snow ranging mostly from 10 to 20 inches broke trees and shrubs, caused utility outages, and stopped or hampered all transportation. Local reports of up to 24 inches in extreme southern portion. Snow caused subsequent damage to many homes. One death in Concord attributed to storm.										
NEW JERSEY NEW MEXICO Statewide	13-20 Period						0	0	4	0	Heavy snow, high wind, glaze
	None reported										
	General snows of the 13th to 16th continued almost daily until the 20th except in the east, bringing from one to over four feet of snow to western counties and mountains, and mostly less than one foot in the eastern plains and southern Rio Grande Valley. Two to four inches of snow extended south to the Texas-New Mexico border. Snowdrifts to 20 feet reported in Torrance County. Freezing rain, sleet and snow in southeastern New Mexico on the 13th and 14th downed some power and telephone lines and poles. Transportation was halted or delayed on most roads and communications were disrupted in many localities. Winds to 87 mph at 4:20 a.m. on 14th damaged buildings about 20 miles northeast of Las Cruces, and winds to 57 mph on the night of the 15th caused damage in the Albuquerque area. Wind damage estimated at \$20,000. Loss to livestock undetermined.										
NEW YORK Western and Central	10-11 p. m. to p. m.										Glaze
	Light rain was quickly converted into a thin but very treacherous coating of ice on highways and sidewalks. Very hazardous driving by and during morning of 11th forced widespread closure of schools for the day from the western Finger Lakes to the western Mohawk Valley and neighboring central areas. Although the usual rash of auto accidents occurred, breakage of utility lines was minor. Highway conditions improved appreciably as result of warming temperatures afternoon of the 11th.										
Buffalo and Vicinity	12 early p. m.						1	3			Wind
	Winds gusting to 50 mph. blew worker from scaffold 18 feet above ground, resulting in severe injury, with scaffold and wall under construction also demolished. Winds caused rough seas and minor shore damage in Buffalo harbor.										
East Central	28-29 p. m. to late a. m.										Snow
	Heavy snowfall of 9 to 15 inches from extreme southeastern highlands and mid Hudson Valley north to the southern Adirondacks with 24 inches recorded locally in the Catskills. Holiday traffic bogged down on major highways and halted on most secondary roads in the affected areas. Snow mixed with rain in Coastal sections caused severe glazing of highways and bridges with travel very hazardous in New York City metropolitan area.										
NORTH CAROLINA Brunswick County	3 morning							5	0		Wind, rain, tides
	Strong winds, heavy rain and rough seas in connection with a low pressure storm of inland origin pounded the beaches of southern Brunswick County, damaging piers and beach cottages over the entire coast between Southport and the South Carolina line.										
Carteret County	3 9:15am	1/8	25		0	0	5	0			Waterspout
	Reported by meteorologist from WBAS, Wilmington, N. C. Located 4 miles west of Morehead City. Funnel cloud seen moving southwest to northeast across Bogue Sound; lifted slightly as it moved over land, but demolished a nine-room home and did minor damage to a few other buildings in the same area before lifting out of range of surface structures. No deaths or injuries.										
Southern Coast	28 noon-2pm							5	0		Wind
	Gusty winds in connection with a low pressure storm moving north-eastward along a cold front extending coastwise caused scattered light to moderate damage from Wilmington to Morehead City. Several roofs blown off or damaged; several boats damaged. Some interruption to power and telephone facilities. Wind gusts to 76 miles per hour recorded at WBAS, Wilmington, and 58 miles per hour in the Morehead City-Atlantic Beach area. Early reports of waterspout not verified.										

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
NORTH DAKOTA Central	17, 18								Blizzard
Six to eleven inches of snow fell during the storm which covered the central portion of North Dakota from the South Dakota to the Canadian borders. Glaze ice, from freezing rain, underlying the snow and drifting from 35 to 40 mph winds, caused treacherous driving conditions. In some areas motorists were stranded and public travel delayed.									
Southern and Eastern	20, 21				3	?	?	?	Severe Blizzard
Storm moved into western North Dakota early on the 20th and had affected most of the state by the 21st. Blizzard condition prevailed everywhere except in the extreme northwest. Winds gusted to 35-40 mph and temperatures dropped to -10° to -28° F. 3 to 8 inches of new snow and heavy drifting occurred. 2 men from Mercer County and 1 from Renville County died from exposure after their automobiles slid off the road into drifts. Schools began closing early Wednesday and were closed in most of the affected area on Thursday. Buses were delayed at some points and many airline flights were cancelled or forced to land elsewhere as airports were closed by low visibilities and drifting snow. Roads in the central and eastern portions of the state were unusually treacherous due to freezing rain and drizzle which had occurred on the 17th. Seasons coldest temperatures followed.									
OHIO Sidney Area, Shelby County	11	10:00p					4		Wind
Wind associated with a line of thunderstorms blew the roof off a two-story brick farmhouse three and one half miles south of Sidney. On a farm nine miles southeast of Sidney wind blew down a metal tool shed and several other farm building roofs were damaged. The line of thunderstorms moved from the southwest to the northeast. In each instance damage was confined to a narrow path.									
OKLAHOMA Northeast quarter of State	2	5:00a.-10:00a.			0	0	5	0	Wind
High winds accompanying a pre-dawn cold front caused scattered damage across the northeast quarter of Oklahoma. The Oklahoma City Weather Bureau Airport Station observed its fastest one-minute wind average of 45 MPH at 5:53 a. from the northwest. A peak gust of 56 MPH occurred at 5:58 a. with minor damage reported and including a small aircraft flipped by winds at Expressway Junction Airport, 3101 N. E. 53. Northwest winds at Ponca City averaged 44 MPH from 5:59 through 6:59 a. A rotary drilling rig was nearly a total loss when it blew over during high winds estimated at 70 to 90 MPH about 6:00 a. two miles west and one-half north of Billings. A guy wire caught a station wagon parked nearby and turned it over. The wind also damaged an awning at a drive-in at the western edge of Muldrow about 10:00 a. Winds at Tulsa damaged decorated yule trees in the Southland Shopping Center's mall and in the Utica Square Shopping Center. Downtown decorations were also damaged, a potted tree was blown to the street below from its moorings on the ninth floor patio at the Fourth National Bank Building, and the Holiday Inn downtown reportedly lost bricks off its roof to a sudden gust.									
Statewide except Southeast	13-17	Early AM, 13-AM, 17			0	0	5	0	Snow, sleet, and glaze
Snow on the 13th totaled 3 to 6 inches in the western tip of the Panhandle while sleet and freezing rain spread eastward during the day into Beaver County. The ice storm intensified as it moved eastward across the State on the 14th. Repeated periods of sleet and freezing rain until early morning of the 17th affected all areas except east of a line from Marshall to Sequoyah Counties. This worst major ice storm in Oklahoma in more than a decade was most severe on the 14th and 15th with thawing beginning in the south by the morning of the 16th. Sub-freezing temperatures provided lower 20's in the northwest and middle teens in the Panhandle. Glaze of 0.2 to 0.5 inch covered most streets and highways and nearly paralyzed all traffic in the western half of the State and the northeast on the 15th. Creeping local traffic resulted in hundreds of fender-bender accidents and major highways and roads were blocked at times with jack-knifed trucks and ditched cars and buses. Power and telephone outages up to several hours were common in many communities as lines accumulated ice coatings up to one inch. Ice formation up to 4 inches in diameter broke electric lines and 35 poles in the Cordell area. Telephone service was severely disrupted from Jackson to Jefferson Counties where 65 broken poles isolated 17 exchanges. More than 225 persons statewide received broken bones or lacerations from falling on glazed sidewalks and streets with more than 170 of these reported from Oklahoma City alone. Most schools were closed on the 15th.									
Alfalfa and Woods Counties	21	Early AM	30	*20	0	0	0	0	Snow
Snowfall of 2 to 4 inches fell in the Alva-Cherokee area and remained for 2 to 3 days while overnight lows varied in the teens and lower 20's.									
LeFlore and McCurtain Counties	21	6:00a.-7:15a.			0	0	3	0	Wind
A north-south line of thunderstorms moved eastward causing scattered wind damage. Strong storm cells moved northeastward across the Poteau and the Arkoma areas and later produced a tornado on the Arkansas side of the State line about 6:00 a. with damage reported									
OKLAHOMA (Cont'd.)									
OREGON Central and North Coast	2	9 A.M. to 3 P.M.			0	5-6	5	2	Wind and Flooding
on the west and north sides of Fort Smith (see Arkansas report). Another strong cell moved northeastward across Idabel with most damage along a 1 1/2-mile by 50-yard path. Numerous roofs and windows were damaged, one small dwelling and two outbuildings destroyed, and the porch was torn from another home.									
Occurrence of winds gusting along coast at 100 mph simultaneous with highest tide of year caused heavy damage to waterfront dock installations, restaurants, hotels, stores, homes. Huge logs and waves were thrown over sea walls to block streets, highway and yards and to flood homes and businesses. Winds drove large quantities of logs up the mouth of creeks and small rivers flowing directly into the ocean. These created dams which shortly sent streams over their banks to further intensify flooding and other havoc caused by the ocean water being dumped over the sea walls by the high winds. Cannon Beach suffered greatest losses though both Lincoln City and Nehalem also had many tens of thousand dollars' losses. Many other areas experienced considerable flooding and destruction.									
PACIFIC AREA Swains Island	15	Early Morning			0	1	%	C	Hurricane
Swains Island, 207 miles north of Pago Pago, American Samoa, reported gusts to about 65 miles an hour during the near approach of a hurricane. Four houses (Samoa Pale) blown down, several others and most of current food crop damaged, but trees and plants still in good condition. No injuries reported. Storm then moved southeastward and, on the 19th, crossed Cook Islands where, according to newspaper reports, winds and torrential rains caused extensive damage to homes and coconut trees, sank two lightships, and made hundreds homeless. What may have been the same storm also did widespread damage on Tahiti.									
PENNSYLVANIA Uniontown	10	evening					2		Wind
High winds moved two mobile homes from their foundations and broke windows in a Uniontown bank and a retail establishment.									
PUERTO RICO San Juan	4	3:00 a.-12:00 p.			0	50	5	0	Heavy sea swells
Heavy sea swells battered the north and west coasts of Puerto Rico causing considerable property damage and some injuries. Small houses built on the beach front of La Perla section of San Juan were destroyed as this section appeared to receive the strongest swells. Islands there were about 175 homes destroyed and another 175 damaged with over 1,000 people left homeless. Most of this damage was caused by sea swells estimated to be about 10 - 14 feet high over the open ocean, at the time of maximum intensity, which upon hitting the outer reefs and moving inland may have generated breakers of higher altitudes. There was no wind of any consequence associated with the situation. The damage was caused exclusively by sea swells. The swells started to increase on Sunday afternoon, December 3, and reached maximum intensity from about 3:00 AM to 12:00 noon on Monday, December 4, gradually subsiding during Monday night and Tuesday, December 5.									
RHODE ISLAND Statewide	28-29	AM AM			0	0	4	0	Glaze
Snowfall of 3 to 5 inches in the south and 6 to 10 inches in the north changed to sleet and freezing rain late on the 28th. Ice accumulations downed power lines and caused several traffic accidents. Clogged drains caused extensive flooding, especially in Woonsocket.									
SOUTH CAROLINA Horry County	1	Evening	10		0	1	4	1	Tornado
Tornado moved east from Mt. Olive into Tabor City section of North Carolina. Farm buildings and houses were damaged. Several trailer homes were damaged and many trees were snapped off along the storm path.									
Dillon County Florence County Marion County Orangeburg County	28	3:00 to 5:00 p.			0	0	4	1	Windstorms, lightning, rain
Thunderstorms with high winds accompanied a squall line which crossed the State from west to east. Several farm buildings were damaged in Pleasant Hill section of Dillon County. Some buildings were damaged in the town of Mullins in Marion County and a roar was heard. Several buildings damaged in Effingham and Florence areas of Florence County. A barn near Florence was fired by lightning and destroyed. Several barns were deroofed, trees were downed and a power outage occurred in the Bowman-Santee area of Orangeburg County.									

See reference notes at end of table.



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1967

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>SOUTH DAKOTA</b> Eastern S.D.	16	Most of day			1	?	5	0	Ice
					Freezing rain formed ice from 3/8 to 3/4 inch on exposed surfaces. Extensive damage was caused to utility lines. All roads became dangerous for travel. One death was directly caused by the ice storm. The ice storm cut off a regular water supply causing a party to attempt to get water from a cistern. She slipped on the ice into the cistern. Three deaths were indirectly caused by the ice storm; two due to auto accidents and one due to a heart attack.				
Eastern S.D.	20	Most of day			0	0	0	0	Ice
					Freezing drizzle added a thin coating of ice over the previously formed ice that continued in most areas from above storms. An ice coating remained over many areas through end of the month.				
<b>TENNESSEE</b> Memphis Shelby County	2	7:00-10:00a.m.			0	0	4	0	
					Local flooding central mid-town section of City. Unofficial reports indicated rainfall of 2.50 inches in about one hour, and more than 2.90 inches total for the storm. Streets and houses were flooded by heavy run-off. Police and firemen rescued several stranded motorists. Lightning disrupted electrical service in four sections of the metropolitan area.				
Dyersburg, Dyer County	11	11:00a.m.	?	?	0	0	4	0	Wind
					Gusts at Municipal Airport to 55 mph.				
Obion and Weakley Counties	11	11:00-11:30a.m.			0	1	5	0	Tornadoes, funnel clouds
					Funnel clouds were reported to have touched ground briefly in the Walnut Grove community of South Fulton; the southeast side of Kenton, and in Martin, Tennessee area leaving a broken path of damage across the State line into Kentucky (See Kentucky Section this publication). Damage in Tennessee included: South Fulton, \$100,000.00. One person injured by flying debris. Kenton and Martin; barns damaged, trees uprooted, windows broken, roofs and television antennas damaged. There were several other unconfirmed reports of funnel shaped clouds in the area.				
Mid-State	18-19				0	0	4	0	Rain
					Heavy rain fell across the southern half of area with up to 4.06 inches reported at Monteagle. Scattered reports of low areas, low-lying highways, streets - flooded, some road damage.				
Memphis (near) Shelby County	21	9:15a.m.							Funnel cloud aloft
					Pilot sighted funnel cloud, 25 miles east-northeast of city.				
Memphis (near) Shelby County	21	2:30p.m.			0	0	3	0	Wind
					Strong, gusty winds destroyed barn, 12 miles east of Memphis.				
Milan, Gibson County	21	2:00p.m.							Funnel cloud aloft
					Public reported sighting funnel cloud aloft.				
Statewide	27-28				0	0	4	0	Snow, glaze, sleet
					Most areas had frozen or freezing precipitation, or both. Snowfall was lightest in west and east-state areas, while in the mid-state, amounts ranged from 2-3 inches in the south to more than 8 inches in the northern Cumberland Plateau region. Direct damage was relatively light; power lines and tree limbs broken in scattered areas.				
Statewide	31				0	0	4	0	Snow, glaze, sleet
					Snow totals reached up to 6 inches along northern border mid-state and Cumberland Plateau, but ranged from traces over most of southern third of State, to 2-4 inches in the west and 1-2 inches in East Tennessee. No serious direct damage was reported, but numerous traffic accidents occurred on slippery roads.				
<b>TEXAS</b>	No report received by printing deadline								
<b>UTAH</b> San Juan, Wayne, Emery, Garfield, and Kane Counties	20-21				3	2	unk	unk	Strong winds and drifting snow.
					A series of snow storms brought snow to record December depths in many sections of southeastern Utah. Strong easterly winds on the 20th and 21st caused heavy drifting which closed most roads in the area and isolated outlying homes and ranches as well as towns for several days. Monticello reported 47 inches of snow on the ground with drifts to over 10 feet following wind. Indians in southeastern San Juan suffered hunger and exposure and three deaths were reported in the Utah area from exposure-- a new born infant, a 2 year old boy and a 60 year old crippled sheep-herder. 8,000 to 10,000 cattle and several thousand sheep were isolated but reports of losses are not yet available.				
<b>VERMONT</b> State	11-12				0	0	4	0	Glaze and rain.
					Heavy rains caused some road washouts and overflowed brooks and creeks. Also local flooding from clogged drainage systems. Most flooding in central and southern portions. Ice from freezing rain glazed all surfaces. Many schools closed due to slippery roads. Travel hazardous.				
East Richford	18	Evening			0	0	3	0	Lightning
					Power outages between Newport and Highgate. At East Richford lightning struck a transformer, damaged wiring in a home, and killed a cow in a nearby barn.				
Central	26	Early morning			0	0	0	0	Glaze
					Surfaces icy from freezing rain in many areas.				
State	28-29				0	0	5	0	Snow
					Snow totalling mostly 10 to 20 inches broke trees and shrubs, caused utility outages, and stopped or hampered all transportation. Snow caused subsequent damage to many homes.				
U. S. VIRGIN IS.	None reported								
<b>VIRGINIA</b> Richmond, Henrico County and Southside Counties	3	6:15 a.			0	4	5	0	Wind
					High winds in a line of thunderstorms moving east-northeastward across the area caused extensive damage to buildings, utilities, and other property. The steel framework of a gymnasium at East End High School in Richmond collapsed and a crane at the site was damaged. The major damage was in the Petersburg area where several business buildings were unroofed, utility poles downed, and trees and billboards toppled, glass windows broken, and many homes lost sections of roofing. A church there was demolished when the steeple fell through the roof. Also some cars and other miscellaneous items were damaged. An unanchored house trailer overturned just east of Petersburg and the four occupants received cuts and abrasions. A man was electrocuted near DeWitt, Dinwiddie County by a downed electric line. In Mecklenburg County, the wind blew down trees and telephone lines and lifted the roof off a restaurant.				
Norfolk area	3	night			0	0	5	0	Wind
					An unmanned barge broke loose in strong winds and slammed into the Chesapeake Bay Bridge-Tunnel, causing extensive damage.				
<b>WASHINGTON</b> Western Washington	1-2							5	
					A very intense winter storm from over the North Pacific approached the Washington coast bringing high winds, heavy rainfall to lower elevations and heavy snowfall in mountains. Storm tides generated by strong onshore winds, low atmospheric pressure and normally high tides at this time resulted in unusually high water levels along the Washington coast and in Puget Sound. Lowland areas along the shore were flooded and in some instances, businesses and residences near the shore were damaged by high water.				
Northern counties Western Washington	21-25							5	Rain
					Runoff from heavy rainfall and melting snow in the mountains resulted in rivers northward from Seattle to Canadian border rising above flood stage. Lowland agricultural areas were under water and in some localities, homes and business establishments were damaged by water.				
<b>WEST VIRGINIA</b> Mountains and east- ern areas	28-29				0	0	4	0	Snow storm
					A coastal storm dropped up to 24 inches of snow in Randolph County, with lesser amounts over the balance of the State. Elkins' 17.8 inches on December 28 was the greatest 24-hour December snowfall ever in its 68-year record.				
<b>WISCONSIN</b> State	20	Evening			0	0	5	0	Hail, wind
					Severe thunderstorms with locally strong winds and large hail did scattered damage across state. Northeastern Sheboygan County hardest hit by hail reaching golf ball size. Damage mostly to glass, roofs and sidings.				
<b>WYOMING</b>	None reported								

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DELAYED DATA

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				
OKLAHOMA Caddo County	Mar. 11	10:00p.-11:10p.	(correction for delayed data published Dec. 1966) (To show addition of county name)									
Cherokee and Adair Counties	22	5:30p.-6:30p.	(To show addition of county names)									
IOWA (correction)	Apr. 1967											
N Jefferson County	21	2:00 p	Sighted between Richland and Fairfield. ground briefly north of Fairfield.						Tornado Touched			
MINNESOTA 5 N. Cold Springs, Stearns County	Jun. 1967 30	5:55 p.m.	0	0	?	?	Tornado					
		The tornado occurred at 5:55 p.m., not 7:55 p.m. as previously reported.										
TENNESSEE Dyersburg, Dyer	Jun. 1967 21	7:50 p.	Pilot sighted funnel cloud aloft, 30 miles north of Dyersburg moving eastward.						Funnel cloud			
ALASKA	Jul. 1967	None reported										
IOWA NC Keokuk County to NW Henry County	Jul. 1967 30	7:30 p	60			5	6	Hailstorm				
	One of most severe of record in NC Keokuk County, 6-8 miles wide, over \$1,000,000 dollars insurance claims paid in Keokuk County. Heaviest losses from Keswick to Harper to Kinkoss north of Highway 92. 10% of damage due to wind.											
MINNESOTA Near Mahanomen, Mahanomen County	Jul. 1967 25	Heavy damage in the Rosedale area and Pembina township. Stones to baseball size.						0	0	3	5	Hail
SE Mahanomen, Mahanomen County	30	2:00 p.m.	0	0	4	5	Hail					
	A 10-minute downpour in 9x3 mile area piled stones to depths of 3-4 inches.											
MISSOURI Edina, Knox County and Memphis, Scotland County	Jul. 1967 23	10:00 PM	Missouri Highway Patrol reports tornado touched down about 10:00 PM. No damage occurred and storm appeared to break up.						Tornado			
TENNESSEE Tullahoma (near), Coffee County	Jul. 1967 28	P.M.	0	0	3	0	Lightning					
	Eight Angus cattle killed by lightning.											
ALASKA	Aug. 1967	None reported										
DELAWARE Most of State	Aug. 1967 3-4	Evening and 4-5 morning	3	0	5 <sup>0</sup>	C	Heavy rain, lightning, wind					
	Severe thunderstorms, moving across state on successive nights, caused extensive damage especially in Kent and Sussex Counties by washing out bridges, flooding roads and crop fields, knocking down power lines and trees and setting fires. The 2-day rainfall included such totals as 10.98 inches at Dover Air Force Base and 9.15 inches at Bridgeville. Three persons were killed when their car went into a washout of a road atop of the dam at Killen Pond State Park in the early morning of the 4th. A barn near Milford was destroyed by fire apparently set by lightning early on the 4th. Some observers noted that the lightning on the night of the 3rd was the most intense in many years. Estimates of road damage ran as high as \$200,000. Crop loss from flooded fields also was reported.											
Northern portion	9-10	Evening & early morning	0	0	5	0	Heavy rain					
	Heavy thunderstorm rainfall flooded basements and blocked streets and highways. Residents in sections of Elsmere and Brack-Ex were forced to flee their homes and apartments by rising water. Overnight rainfall totaled as much as 3 to 4 1/2 inches. Water damage as high as \$50,000 was estimated by a wholesale dry goods firm. Lightning damage included a home at Brandywood whose damage was estimated near \$12,000.											
Southern portion	24-25	Evening & early morning	0	0	4	0	Heavy rain					
	Total rainfall as much as 3 inches added to that of previous days caused flooding in a number of locations. Erosion continued along secondary roads in both Kent and Sussex Counties.											
DELAWARE (Cont'd.) New Castle County	27	After-noon	0	0	4	0	Heavy rain					
	Heavy rain, added to that of the preceding days, caused local flooding.											
Radnor Woods and Radnor Green, Wilmington suburbs	27	3:30 p.	?	?	0	0	3	0	Tornado			
	Residents stated that they saw a black funnel cloud moving across their area from the southwest. Most of the damage was caused by trees falling on houses and automobiles.											
MARYLAND Eastern portion, including District of Columbia	Aug. 1967 3-4	Evening and 4-5 morning	0	0	5 <sup>0</sup>	C	Heavy rain, lightning, wind					
	Severe thunderstorms, moving across much of the state, especially Central Eastern Shore, on successive nights caused considerable damage by heavy rain and flooding, by lightning and by strong gusty winds. The 2-day rainfall for Caroline County included such totals as 9.96 inches at Denton and 9.11 inches at Heisterman. Flooding, the worst since 1935, occurred along Marshyhope and Choptank rivers with Federalburg and Greensboro, the communities most affected. Road and small bridge washouts were reported; also, there was damage to crops, especially in Central Eastern Shore. Lightning on the night of the 3rd was considered by some to be the most intense in many years. There were many reports of lightning strikes and fires caused by lightning, particularly in north-central areas. Strong gusty winds damaged barn roofs and downed trees and power lines.											
Carpenter Point, Cecil County	3	7:15 p.	1/3	Narrow	0	0	3	0	Tornado			
	Small tornado, traveling from SSW to NNE and approaching from Chesapeake Bay, uprooted trees and demolished 25 picnic tables and 6 small cabins which had been well anchored. Several persons saw the funnel cloud.											
Northern end of Chincoteague Bay	5	4:00-5:00 p.	0	0	0	0	Waterspout					
	Waterspout, with at times several low spouts, was observed moving from NSW to ENE and turning toward N. A severe thunderstorm was occurring at the same time in the west.											
Northern portion, from Carroll County eastward	9-10	Evening & early morning	0	0	5 <sup>0</sup>	C	Heavy rain, lightning, wind					
	Heavy thunderstorm rainfall brought considerable flooding and water damage. Several bridges were swept away. Lightning damage included a barn near Fair Hill, destroyed by fire apparently caused by lightning. High winds downed trees.											
Drayden, St. Marys County	19	4:40 p.	0	0	3	0	Wind, hail					
	Severe thunderstorm, with strong gusty winds, struck an area about 1/4 mile radius, uprooting trees, tearing off metal roofs and demolishing several sheds. Hail, a little larger than marbles, was also reported.											
Baltimore (City)	20	1:35 a.	0	0	5	0	Lightning					
	A nine-alarm fire, probably caused by lightning, destroyed a one-story block-square food warehouse.											
Baltimore-Washington metropolitan areas	24	Heavy rain, added to that of preceding days, caused flooding of streets and highways, basements and low-lying areas. Some road washouts were also reported.						0	0	5	0	Heavy rain
Montgomery County	26	5:12 p.	0	0	4	0	Tornado					
	Tornado in the Gathersburg-Germantown area struck first a dairy farm damaging a storage shed, then ripped off the roof of a new home and finally demolished a shed on another farm. The funnel was seen by many people.											
Baltimore metropolitan area	27	Heavy rain again brought considerable flooding. A 6-year old girl was drowned when she slipped into a swollen drainage ditch which carried her into the Sunpowder River. Several other persons had narrow escapes from drowning when their cars were trapped in streams flooding across highways.						1	0	4	0	Heavy rain
MINNESOTA Near Mahanomen, Mahanomen County	Aug. 1967 1	4 p.m.	0	0	4	5	Hail					
Osakis, Douglas County	25	Total rainfall as much as 3 inches added to that of previous days caused flooding in a number of locations. Erosion continued along secondary roads in both Kent and Sussex Counties.						0	0	5	0	Lightning
	\$200,000 damage to TV and microwave stations, continuous "fire balls" during storm.											

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DELAYED DATA

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
VIRGINIA Fairfax County	Aug. 24-25	1967			0	0	6	0	Flash flooding
			Heavy rains caused extensive damage in the Four Mile Run drainage of Arlington and Alexandria, Virginia. Also some damage occurred in small streams of the county.						
PACIFIC AREA Ulithi, Yap, Palau Islands	Nov. 31-2	1967			0	0	6	C	Typhoon
			Typhoon EMMA, first discovered as a tropical depression 300 miles ESE of Yap Island on October 31, passed south of Palalop, Ulithi, early on the morning of November 1. Gusts to 52 miles an hour damaged papaya and banana trees. At 10:00 a.m., EMMA passed 50 miles south Yap, which recorded a fastest mile of 61 miles an hour, and suffered \$635,000 in property damage from wind, rain, salt spray and high seas. Coral causeways were washed out. EMMA, now a typhoon, passed north of Palau on night of 1st, where Koror had gusts to 55 miles an hour with heavy rain but only slight damage.						
Kwajalein	2	4:13 p., 4:30 p.			0	0	0	0	Waterspouts
			Waterspout 7 miles west of weather station, and just south of westward moving moderate to heavy rain shower, dissipated at 4:23 p.m. Second spout, near heavy cumulus and small cumulonimbus, formed at 4:22 p.m. and dissipated at 4:30 p.m.						
Rota, Saipan Marianas Islands	13	Morning			0	8	5	?	Typhoon
			Typhoon GILDA, first detected as tropical depression near Ponape afternoon of 8th, moved northwestward intensifying rapidly to typhoon strength night of 10th. GILDA passed over Rota Island 43 miles north-northeast of Guam about 10:00 a.m. of 13th. Fastest mile 40 miles an hour at Weather Bureau Office, Guam, but winds probably higher on Rota, where 80 percent of buildings estimated severely damaged or destroyed, all crops wiped out, 8 persons injured. Damage to public buildings estimated at \$350,000 by Trust Territory officials. All water, power out; serious food shortage expected. On Saipan, gusts to 60 miles an hour unroofed several houses and damaged crops and trees.						
Tinian, Saipan Marianas Islands	19	Afternoon			0	0	?	?	Typhoon
			The third typhoon to enter the area in 2-1/2 weeks was first located as tropical depression near noon on 17th, about 140 miles SSE of Eniwetok. It moved west-northwest, becoming Typhoon HARRIET on afternoon of 19th, and passed few miles south of Tinian, disrupting power, water systems and doing minor structural and crop damage. On Saipan, five houses blown down, some roof tops lifted by 55-mile winds.						

- ° Includes crop damage.
  - C Crop damage.
  - \* Miles instead of yards.
  - † 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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USCOMM-ESSA-Asheville, N. C. -1/31/68-1080