

U. S. DEPARTMENT OF COMMERCE

LUTHER H. HODGES, Secretary

WEATHER BUREAU

ROBERT M. WHITE, Chief

# STORM DATA

DECEMBER 1963

Volume 5 No. 12



ASHEVILLE: 1964

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>ALABAMA</b>									
Statewide	31	All day and evening			0	0	6	5	Snow, glaze
									Heavy snow measuring as much as 15" in depth fell in North and West Central Alabama. Mobile had 2" of snow and 8" to 12" was reported in SW Alabama. No snow of importance in southeast but some glazing occurred. Damage mainly due to roofs and swings collapsing, electric power and telephone lines and highways. Crop damage mainly to trees. Highways and roads impassable for two or three days forcing schools and many businesses to close. Approximately 80% of damage due to snow and sleet and 20% to glazing.
ALASKA	No report received by printing deadline								
ARIZONA	None reported								
<b>ARKANSAS</b>									
Little Rock area, Pulaski County	8	Afternoon	?	?	1	0	4	0	Wind
									High winds over Arkansas following frontal passage with low center to the north. Strong winds of 45 mph reported at Adams Field. Wind blew a basketball goal post over onto and killed a boy. Trees, electrical services, and some construction damaged.
State of Arkansas	22	24 Hours			2	?	5	0	Snow
									Heavy snow began in northwest on evening of 21st and moved out of State early the 23rd. Major depths accumulated over north-central, central and south-central sections eastward to the State border. Snowfall from 8 to 16 inches were common. Many stations exceeded or equaled previous records on snowfall, particularly so early in the season.
<b>CALIFORNIA</b>									
Southern mountains	9				5	6	3	0	Snow and wind
									Heavy snow blocked highways; high wind blew car off road resulting in deaths and injuries.
<b>COLORADO</b>									
Northeastern Colorado	6	Night			0	0	4		Wind
									Strong gusty wind from the foothills to the northeastern corner did considerable damage in northeastern Colorado. The wind was estimated to be from 50 to 60MPH with gusts to 80. The strongest wind began about 7pm continuing to 10PM then decreasing to around 55MPH. At Fort Collins, an 80KPH wind destroyed a radio tower, damaged farm buildings and power lines. In Greeley, 100 feet of a 300 foot radio tower was blown over and many plate glass windows blown out and trees uprooted. In Sterling, walls of a school building under construction were blown down. Debris and debris were piled up around homes and in streets causing a fire hazard.
CONNECTICUT	None reported								
DELAWARE	None reported								
FLORIDA	None reported								
<b>GEORGIA</b>									
North	23						3		Snow and Ice
									Snow and sleet and freezing rain caused some roads to be closed and created hazardous driving conditions over most of the northern third of the State. Ice accumulation on wires and trees resulted in some minor interruptions of service and limb breakage but damage was generally light.
Most of State	31						7		Snow and Ice Storm
									One of the most destructive ice storms ever experienced in Georgia hit the State on the last day of 1963. More than seven inches of snow and sleet was reported in the extreme northwest and sleet and freezing rain occurred as far south as Albany and Tifton. Damage and inconvenience were experienced over the northern three-fourths of the State, but heaviest losses were suffered in the central sections where icing from freezing rain was heaviest. Thousands of homes in middle Georgia were without electrical and telephone service for periods ranging from a few hours to several days. The telephone company reported at least 3000 poles broken by the weight of the ice and 1200 long distance circuits were cut at one time. Practically all electrical current was off in Baton and many other large and small communities in central counties were without power. Repair crews, including more than 1200 men from outside the area, worked almost continuously for several days to restore service and repair the damaged lines. Hundreds of businesses were closed and many industrial plants were forced to shut down for lack of power or because employees were unable to get to work. The poultry industry suffered heavy losses through reduced operation of processing plants. Some poultry houses collapsed and hundreds of growers were forced to haul water when electric pumps went out of service. Pecan trees, pine trees and shrubbery suffered extremely heavy damage especially in a 25 to 30 county area in west central and central Georgia. Roads were closed and many motorists were stranded in some areas. The snow and ice caused a delay in reopening of schools after the Christmas holidays in most north and central counties. Hundreds of weather related automobile accidents and falls resulted in many injuries and a 13 year old boy was electrocuted at Eastman when he reportedly stepped on a live wire.
<b>HAWAII</b>									
									None reported
<b>IDARO</b>									
									No report received by printing deadline
<b>ILLINOIS</b>									
									None reported
<b>INDIANA</b>									
Vigo County, southwest	19				1	0	0	0	Severe cold
									Lady abandoned stalled car on rural road in sub-zero temperatures and froze to death. Other deaths occurred which were attributed to heart attacks suffered by men shoveling snow.
<b>IOWA</b>									
									None reported
<b>KANSAS</b>									
Most of State	7-8								High winds
									Northwest winds reached velocities of 50 mph about 5:00 a. on the 7th at Goodland as a cold front moved into the State. There was much blowing dust with visibilities reduced to less than 1/2 mile at times in the west. Wind speeds gradually diminished in the west, but increased over the eastern sections on the 8th. Signs, roofs, transmission lines, Christmas decorations, TV antennas, and plate glass windows were damaged over a wide area. Many small damages resulted from the widespread northwest winds of 60 to 75 mph in the east on the 8th. Velocities decreased with the approach of night. Somewhat hazardous traffic conditions developed from blowing dust and snow flurries.
South Central and Southeast Sections	10	Afternoon and evening					8		Glazing
									Freezing drizzle, freezing rain and sleet began about noon, continuing well into the night in numerous localities east from Dodge City and as far north as Hutchinson and Fort Scott. Serious traffic conditions prevailed in Wichita during the afternoon and evening. Eight persons were reported killed in car accidents over the southern part of Kansas.
<b>KENTUCKY</b>									
Entire state	22-24								Snow
									Snowfall accumulating during this period ranged from 4 to 8 inches in most sections of the state. Only a few locations along the north central border of the state had as little as 2 to 3 inches, while some areas in the extreme southeast had as much as 8 to 10 inches. Over much of the state snowfall during this period was from 2 to 3 times the long-period averages for the entire month of December. The snow delayed motor traffic, disrupted airline schedules, and caused the state police to issue hazardous driving warnings. A number of traffic accidents were reported; there were some injuries and one death resulting from the accidents.
<b>LOUISIANA</b>									
Northern and Central areas	13-14	p. 13th-14 a. 14th							Sleet, glaze
									Rain changed for a while, to light freezing rain or sleet. Officials advised caution, slick roads some areas, especially bridges and overpasses; some accidents.
Southwest Division Offshore	14	3:30 a.			1	2	?	0	Wind
									Three consecutive large waves hit 65-foot steel hull, boat split lengthwise down the keel and sank. Lifeboat located 2:15 p., 40 S Cameron. Elderly crewman dead from exposure, other two hospitalized. At time of sinking, Cameron Deputy Sheriff reported temperature 40 °F. and NE winds gusting at 45 m.p.h.
Northern area	21-23	Several days			0	0	3	0	Snow, sleet, glaze
									Snow, sleet, or ice accumulated to depths from under 1/2 inch to about 4 inches, with some over 6 inches at W of Shreveport. Weight of snow or sleet collapsed 3 aluminum business canopies Lake Providence. Highway accidents due to weather resulted in over 12 deaths and over 8 injuries. Many people slipped or fell, some injured. Farming activities restricted. On 23rd, State Police reported extremely hazardous driving conditions N of Baton Rouge; many roads closed; U.S. 71 Alexandria northward closed to cars without tire chains.
State	23-24	Several days			0	0	5	5	Cold spell
									Water pipes, automobile radiators and tender plants damaged by cold. New Orleans Fair Grounds Racetrack cancelled program on 23rd. Most of the sugar cane remaining in fields killed and split. Temperatures among coldest of record for December; minimums 24th ranged from 3 °F. Plain Dealing to 29 °F Burwood; many places had record low temperatures for date; some northern stations broke record for December. Icy roads contributing factor of one traffic fatality Winnfield. Camellia flower damage resulted in cancellation of January shows. Thousands of speckled trout, drum, and redfish caught when cold rendered them helplessly immobile in backwater canals and bayous.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
LOUISIANA (Cont'd) East Central and Southeast Divisions	31				0	0	5	0	Heavy snow
			Accumulated snow depths ranged from about 8 inches near eastern border of state, 4 inches at New Orleans, to none about 40 miles further west. Many stations broke December record snowfall amounts. Some roads, bridges, and overpasses closed; hazardous driving warnings issued. The New Orleans Fair Grounds Racetrack closed; many businesses excused employees early. Some tree limbs broken by weight of snow, numerous traffic accidents. Virtually all fishing temporarily halted.						
Offshore area	Month					7	0		Wind
			One of longest spells of rough weather experienced, especially at far but projects. Seas ranged from 15 feet to a comparative calm of 3 to 4 feet. High winds were most hazardous of the inclement elements and brought construction almost to a standstill. Top-heavy derrick barges subjected to severe wave action most of the time.						
State	Month								Unusual cold spell
			Temperatures averaged below normal most days and the average monthly temperature was the record or near record lowest for December at stations in each division. New Orleans averaged lower than any December since 1876.						
MAINE Southern Interior	3-4				0	0	0	0	Heavy Snow
			Heavy snow, mostly 6 to 12 inches deep, fell in a band roughly 40 miles wide and centered about 50 miles from and parallel to the coast						
MARYLAND Eastern Shore	8	Evening			81	0	6		Lightning
			Crash of jet airliner, killing 81 persons at Elkton, has been attributed to lightning by Civil Aeronautics Board investigators. Severe turbulence also noted by passengers in nearby airliner. Two houses on a farm near Federalburg were damaged by lightning. Wind gusts demolished a large shed at Delmar.						
State-wide	23				1		4		Snow
			First big snowfall of winter with 6 to 12 inches over northern Maryland gradually decreasing to a trace or none in extreme south-east. Traffic and transportation slowed. At least one person dead in auto accidents. Worst snowstorm in 3 years for Washington area.						
MASSACHUSETTS State	3				0	0	3	0	Glaze, wind
			Glaze from freezing rain in many sections caused poor highway conditions. Minor wind damage, including some power failures.						
State	8				0	0	0	0	Fog and rime
			Heavy fog over much of state. Considerable rime icing in forenoon. Rime spicules grew up to 1 inch in length. Some streets glazed and slippery. Fog heavy many areas even in daytime.						
State	9	A.M.			0	0	0	0	Electrical
			Unseasonable thunderstorms in some localities, mostly in western portion of state.						
State	10	P.M.			0	1	3	0	Wind
			Wind damage mostly minor; most numerous in northwestern portion. Trees, limbs, utility wires, signs, and windows affected. One person seriously injured at North Adams when blown off feet by a wind gust.						
Cape Cod and Islands	18-19				0	0	3	0	Heavy snow
			Unusually heavy snowfall, mostly 8 to 14 inches, hit Cape Cod. Chatham reported 10 inches and Wellfleet 14 inches. Heaviest on Nantucket, where 15.1 inches nearly tied the record December 24-hour snowfall of 15.5 inches and was the second greatest 24 hour snowfall in this month in 77 years of record. Two deaths from heart attacks were attributed to the storm; incident to snow removal operations.						
MICHIGAN Muskegon	4	7:43 a.							Waterspout
			Waterspout observed over Lake Michigan 4 miles west of Muskegon.						
MINNESOTA									None reported
MISSISSIPPI Northern and Central areas	14								Sleet, glaze, snow
			Rain, spreading towards coast, was followed by freezing rain, sleet or snow in northern and central areas. State and local police officials issued hazardous driving warnings, especially for bridges and overpasses exposed to heavy icing, some accidents.						
Northern and Central areas	20-23	Several days			0	0	5	0	Snow, sleet, glaze
			Snow sleet or ice accumulations ranged from under 1/2 inch near southern edge of central area to over 8 inches in NW Mississippi, where some depths near Tennessee border were 17-18 inches. Weight of snow, sleet, or ice did considerable damage to trees, utility lines, and collapsed a number of metal business or residential canopies. Highway patrol issued warnings on hazardous driving conditions, travel not recommended, closed some roads at times, reported numerous accidents with over 13 deaths and over 6 injuries. Many people slipped or fell, some injured. Few homes caught fire from overheated stoves and chimneys, some deaths. Man electrocuted adjusting electric heater in water and ice beneath building.						
MISSISSIPPI (Cont'd) State	24				0	0	4	4	Cold spell
			Temperatures among lowest known in December; minimums ranged from 20 °F. near Gulf Coast to -12 °F. Holly Springs. A few northern stations had coldest temperature for all months; others broke December record. Lake Hazle, Copiah County, frozen over first time in lifetime of local residents. State highway patrol reported ice patches, slick bridges and overpasses; one-way traffic some roads, use of a few discouraged except in emergency. Water pipes, automobile radiators, and tender plants damaged.						
Southern and Eastern sections	31				0	1	5	0	Heavy snow
			Heavy snow belt SW portion Coastal Division NE into Alabama, lesser amounts either side. Depth ranged from 10-1/2 inches Bay St. Louis to about 15 inches near part of eastern border. Snow laden and frozen limbs of trees broke and fell across utility lines, metal awnings on homes and businesses collapsed under weight of snow. State highway patrol reported bridges and overpasses iced over, some highways closed, use of others restricted to vehicles with tire chains; many cars and trucks stranded, stalled or marooned; some motorists spent night in cars. Icy highways blamed for over 3 deaths and over 7 injuries. Some bus schedules and airplane flights cancelled. Jones County 14-year old boy hospitalized for exposure after being lost when snow covered tracks. Usual difficulties with frozen water pipes and car radiators. Some stores and other business establishments closed early. Many church watchnight services and other New Year's Eve functions cancelled.						
State	Month								Unusual cold spell
			Temperatures averaged below normal most days and the average monthly temperature was the record or near record lowest for December at stations in each division; temperatures reported at some stations averaged lower than any December since 1876.						
MISSOURI Parna, New Madrid County	7	8:30 PM							Thunderstorm
			Wind damage to a cotton gin and to a barn near Parna.						
Western Missouri	8	During Day							High Winds
			Winds with gusts up to 65 miles per hour caused numerous short circuits on power lines, damage to buildings, trees and windows. Reports of such damage from the Kansas City, St. Joseph, Springfield, Sedalia and Lamar areas.						
Southern Missouri	10-11								Freezing Rain
			Freezing rain, mixed with snow, with damage to phone and power lines. Many minor highway accidents. One lady killed when her car left the icy highway near Cassville. Freezing rain reported at Lebanon, Ava, West Plains, Joplin and Springfield.						
MONTANA									None reported
NEBRASKA All of Nebraska	8	All Day			0	0	5	0	Wind
			Winds averaging 30 MPH for the 24-hour period were recorded and gusts were estimated 75 to 80 MPH throughout the state. Losses were not extremely heavy in any given area, but there were losses in all portions of the state.						
NEVADA									No report received by printing deadline
NEW HAMPSHIRE State	8				0	0	0	0	Fog and rime
			Heavy fog even in midday many areas. Considerable rime icing in forenoon. Some streets glazed and slippery.						
Southern Portion	9	A.M.			0	0	0	0	Electrical
			Unseasonable thunderstorms locally.						
State	10				0	4	3	0	Wind
			Scattered, mostly minor, wind damage over state, but four workmen were injured, two seriously, when construction staging was blown down at Franklin.						
NEW JERSEY Statewide	8	Evening			0	0	4	0	Wind
			High winds, with thunderstorm activity in several areas of the State, occurred in connection with a cold frontal passage from west to east across New Jersey. The greatest damage reported was in the vicinity of the Atlantic City Airport and in the Trenton-Hightstown area. Thunderstorm activity was greatest in southern and central portions of the State; but distant lightning was reported in the extreme north at High Point State Park.						
NEW MEXICO									None reported
NEW YORK Oswego and southern Jefferson Counties	1-2	Early a.m. 1st to a.m. 2nd					2		Snow
			Heavy lake-effect storm yielded from 10 to 25 inches of snow with unofficial measurements of up to 33 inches. Area affected was a narrow belt along southeast shore of Lake Ontario with heaviest snowfall from Oswego to Pulaski in Oswego County. Travel on highways and streets very difficult, if not impossible, and many vehicles abandoned. The youngsters suffered from carbon monoxide poisoning in stalled automobile. Many schools closed on Monday in the worst affected areas. Light winds fortunately minimized drifting.						

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM						
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS							
NEW YORK (Cont'd) Great Lakes Counties	14-20th				7				Snow	OKLAHOMA (Cont'd)										Jackknifed and off road night of 11th on U. S. 77 near Wayne, McClain County. Icing on telephone lines amounted to one and one-half inches and was breaking lines in the northwest quarter of the State. Some circuits serving Woodward County were also out when radio relay equipment became iced over.					
									For a period of a week a series of heavy snow storms hit one or more areas in a belt along the Great Lakes from Chautauqua and Cattaraugus Counties in the southwest to Jefferson County on the eastern shore of Lake Ontario. On the 14-15th snowfall of 15 to 20 inches hit the southwestern counties. 24 inches was at Golden, Erie County and from 8 to 14 inches fell along Lake Ontario from Oswego to Watertown. Scores of cars were stalled or abandoned on snow-clogged highways. Moderately strong winds and heavy rate of snowfall caused zero visibility. From 10 to 14 inches of snow fell locally on the city and western suburbs of Syracuse on the 16th paralyzing traffic and forcing city to declare a "snow emergency". Although the storminess eased somewhat on the 17th, heavy lake-effect storms returned the next day and continued into the 20th. In the period 18-20th Little Valley, Cattaraugus County measured 29 inches of new snowfall, while 10 to 20 inches were general elsewhere in the southwest and also along the southern shore of Lake Ontario from Monroe to Oswego Counties. The New York thruway from Buffalo south was closed on the 19th due to heavy snow and zero visibility. Schools in scattered areas were closed for intervals during the 14-20th storm period; deaths attributable to storm were mostly due to heart attacks. Small aircraft disappeared over Lake Erie near Dunkirk and was presumed lost. Temperatures averaging from 10 to 15 °F below normal over most upstate areas accompanied the storm period. Minimum temperatures of 10° to 20° below zero were also common in the northern half of the state.	State-wide	17, 19-22			0	0	?	?	Ice and snow							Light freezing drizzle and snow fell over most of the central and southern half of the State on the 17th and glazed highways and bridges by nightfall. Extremely hazardous glazing returned by evening of the 19th to most of the State as freezing drizzle and light snow spread eastward and ended in the east on the 20th. Renewed glazing and moderate snow on the 21st and 22nd left up to three-fourths inch of ice under three to six inches of snow in the northern one-third and southeast, while the remaining southern half of the State received generally less than two inches. Slick and hazardous driving conditions remained on State highways through the 23rd as morning lows dipped to near zero and highs remained in the teens and 20's. State-wide automobile accident rate remained high during these periods with many persons injured and several killed.
Long Island, Southeast	23-24	a.m. 23 to p.m. 24th			1				Snow	OREGON										None reported					
									First major snowstorm of season in metropolitan New York City yielded 6 to 9 inches of snow to the city, Long Island and lower Hudson Valley. Principle effects were the massive smothering of traffic and the curtailment of transportation and other services to and within the New York City area. Some 70 per cent of the airline flights at La Guardia and Kennedy Airport were cancelled on 23rd. Some industries on Long Island did not open on 24th. Snowfall decreased to 3 to 5 inches in eastern and central upstate areas and to near 2 inches extreme west and north.	PACIFIC AREA	20-29			0	?								Typhoon	Tropical depression No. 43, later Typhoon SUSAN, was in the vicinity of Kwajalein during the night of December 20-21. There was little damage from the winds although gusts to 63 mph were recorded at the airport terminal building. The storm was upgraded to Typhoon SUSAN during the afternoon of the 21st. She affected Eniwetok on December 22, producing wind gusts to 53 mph and causing property damage estimated at \$2,000.00. SUSAN struck Guam, Rota, Tinian, and Saipan on December 24-25 causing some damage to buildings, communication lines and crops. There were no known deaths and only a few minor injuries. The storm hit Marcus Island on the 29th with recorded wind gusts to 114 mph (estimated even higher). Total dollar damage to buildings was not great since there are only a few structures on the Island.	
NORTH CAROLINA																				NOTE: A more complete and detailed description of this typhoon will be found in <u>Climatological Data, National Summary Annual 1963</u> , and in the <u>Mariners Weather Log</u> for May 1964.					
Durham, Gates Counties	8	pm			0	0	4	0	Wind	PENNSYLVANIA										None reported					
									Two widely separated cases of wind damage to roofs and outbuildings.	PUERTO RICO										None reported					
Interior	23-24				0	10	4	0	Glaze	RHODE ISLAND										None reported					
									Icy roads, streets and sidewalks over a wide area; numerous persons hurt in falls, some hospitalized. Many minor traffic accidents. Power and telephone lines broken some areas.	SOUTH CAROLINA	Dec. All day 31/63- to Jan. early 1/64 morning			0	26	6	5			Ice	A severe ice storm was experienced in most of South Carolina on December 31st and continued in some localities until the early morning of January 1, 1964. Storm was accompanied by heavy winds. Snow and sleet fell but mostly in the northern sections. The ice storm caused heavy damage to property, trees and shrubberies. Communications and public services were interrupted or severely restricted on New Year's eve. The whole state, except possibly the lower coastal region, experienced hardships from this storm, but the hardest hit areas were in Aiken, Bamberg, Edgefield, Orangeburg and Anderson Counties. Most of the 26 injuries reported occurred from falls or car accidents due to icy and hazardous travelling. The injuries were reported mostly from Anderson, Chester and York Counties.				
Interior	31 - Jan 1				0	5	4	0	Glaze, wind																
									Another storm similar to that of 23-24, with wind adding to breakage of power and telephone lines.																
NORTH DAKOTA																									
Entire state	6-8				4				Blizzard																
									Blizzard conditions moved across the state during the period. New snow amounts ranging from one inch in the extreme west up to ten inches in the northeast were accompanied by winds up to 60 miles per hour and blocked many roads and stalled many motorists.																
OHIO									None reported																
OKLAHOMA																									
Oklahoma City, Oklahoma County	7	Near 11:05a.			1	4	3	0	Wind	SOUTH DAKOTA	7	All day								Blizzard					
									Gusty northwest wind forced a small car into the path of an on-coming vehicle. Resulting head-on crash in the 10000 block of Northeast Expressway caused one death and four injuries. Weather Bureau Airport Station at Will Rogers Field reported highest gusts of day about 114, reaching 53 miles per hour.	Statewide													Winds of 50 to 60 MPH resulted in blowing snow which reduced visibility to near zero and produced snow drifts several feet deep in many areas. Snowfall in east was generally 3 to 7 inches and in west 1 to 2 inches except in Black Hills where Lead received 18 inches.		
Eastern Half of State	8	Daytime			0	0	4	0	Wind	TENNESSEE															
									High west winds whipped sparks from trash fires that burned many acres of grass near Boley, Oklahoma County. Two homes and a small church in the path were burned. A similar blaze blackened several hundred acres of Osage County rangeland between Wynona and Barnsfield. Tulsa firemen battled 27 separate grass fires as high winds fanned ordinary trash fires out of control. One Tulsa car was damaged by a toppled tree. One car was also damaged at Purcell, McClain County, when high winds toppled a large tree into a busy street. Roofs also received considerable damage.	Statewide	22-24			2	0	5	0						Snow and cold	Snowstorm started in west early on the 22nd and ended in east late on the 23rd. Snowfall was heaviest in the west, on the Cumberland Plateau, and atop the Great Smoky Mountains. Memphis had 14 inches, central areas 7 to 9 inches, and the east 3 to 8 inches. Two deaths were attributed to weather, at Memphis a man with a back ailment fell in snow and froze before he was found, and at Clarksville a man was found dead in his yard from exposure. A pilot lost in the snowstorm crash landed his single engine plane near Hohenwald and received minor injuries. Many minor traffic accidents were related to the weather, air traffic was grounded and some highways closed. Snow was followed by severe cold, an all time record low of -13 at Memphis for example, which froze pipes in some locations and caused other miscellaneous damage.	
Most of State	10, 11				0	0	?	?	Ice and snow																
									Freezing rain, sleet, and light snow glazed highways from the Panhandle southeastward with snow depth reaching up to two inches on top of one-half inch of ice across the northwest half. Hazardous glaze brought on a rash of damaging accidents, 100 at Oklahoma City during evening rush hours on 11th and more than 14 persons injured due to falls on ice. Fifty semi-trailer and transport trucks were																

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1963

CORRECTIONS

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
TENNESSEE (Cont Middle and East Tennessee)	d 31-1	Night			0	1	5	0	Snow	NEW HAMPSHIRE Hillsboro and Rockingham Counties	May 9	1963								
			Snowstorm associated with a low pressure system moving northeastward from the Gulf area across the southeast and Appalachian area. Up to 16 inches of snow with some sleet and freezing rain fell in south-middle Tennessee, and 6 to 10 inches in most other middle and eastern areas, adding to snow still on the ground in the east. Numerous minor accidents, some causing injury, were related to the weather, travel was interrupted, and power and telephone lines were downed in some areas. Some injuries due to falls and exposure. Several boats, some expensive, were damaged or sunk at two docks in Loudon County when shed roofs collapsed under snow and ice accumulations. Roofs and buildings were damaged at other locations.																	
TEXAS			None reported																	
UTAH			No report received by printing deadline																	
VERMONT Southern Portion	9	A.M.			0	0	0	0	Electrical	NEW YORK East-central New York	Jul. 2	1963 (entered as June 2)				1	0	C	Thunderstorms, hail, lightning	
			Local unseasonable thunderstorms																	
U.S. VIRGIN IS.			None reported																	
VIRGINIA			None reported																	
WASHINGTON			None reported																	
WEST VIRGINIA			None reported																	
WISCONSIN			None reported																	
WYOMING			None reported																	
			Delete entire item. See June 1963 Storm Data. Tornado to which item applied occurred June 9.																	
			Scattered severe thunderstorms with damaging hail and lightning. Boy killed by lightning in the Stillwater area (Saratoga County). Extensive damage to gardens and crops from hail north of Albany to the Mechanicville area eastward, where a greenhouse received extensive hail damage.																	

- \* Miles instead of yards.
- <sup>1</sup> 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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