

U. S. DEPARTMENT OF COMMERCE  
ALEXANDER B. TROWBRIDGE, Acting Secretary  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
ENVIRONMENTAL DATA SERVICE

# STORM DATA

DECEMBER 1966

Volume 8 No. 12



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1966

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
ALABAMA			None reported							
ALASKA	2-6				0	10	5	0		Wind
Valdez and Juneau	Hurricane-force winds with gusts to more than 110 MPH paralyzed over 1000 miles of Alaska's coastline and spread extensive damage from the Shumagin Islands to Cape Spencer. Marine transportation was halted all along the north gulf coast of Alaska. In the coastal villages considerable damage was inflicted to smaller craft and boat harbors. Air travel was curtailed and delayed during the peak of the storm, but no heavy damage to aircraft was reported. The Valdez community suffered the greatest damages of the coastal towns in the path of the storm. At least a dozen families of the Prince Williams Sound community were displaced, as winds wrecked their homes. A 22 unit motel was destroyed, with damage or destruction to dozens of other structures. Power and telephone lines were extensively damaged, causing outages along the entire coastline. No loss of life was reported, but numerous people were injured. Juneau suffered structural damage similar to Valdez, with added hazard of fire. A two story home was burned completely, other homes were extensively damaged as the high winds drove flames through an entire section of Juneau.									
ARIZONA			None reported							
ARKANSAS			None reported							
CALIFORNIA	2-3				0	0	0	0		Rain and wind.
Much of State	Moderate to heavy rains in northern and central California and along the south coast, accompanied by strong winds, caused local flooding and damage to utilities, highways, and a few buildings.									
Salinas Valley, San Joaquin Valley, and the mountains of southern California	5-6				6	25	7	4		Rain
	Heavy rains resulted in flooding that caused extensive damage to highways, bridges, and buildings. Dozens of homes were destroyed. Some highways were closed for several weeks until major repairs and bridge reconstruction could be completed. The Tule and Kern Rivers carried peak flows more than twice as great as had ever previously been measured. While damages were counted in the 10s of millions of dollars, losses were minimized by recently constructed flood control dams on these streams. The areas hardest hit were the southern part of the Salinas and San Joaquin Valleys, the southern Sierra Nevada, and the mountain areas of southern California.									
COLORADO			None reported							
CONNECTICUT	24-25				0	0	3	0		Thunderstorms, snow, wind
Statewide	Unusual for date, scattered thunderstorms moved across the state late on the 24th while a snowstorm which began early on the 24th continued through the early hours of the 25th. Snow accumulations ranged from 4 to 15 inches with the heaviest amounts in the west and south. Prolonged high winds caused minor damage to trees and outdoor Christmas displays. Wherever snow was compacted, skidding accidents were common. One fatality was reported.									
	29	AM			0	0	4	0		Rain, wind
	Unusually heavy rain over short periods combined with the melting of large amounts of snow remaining from the storm of the 24-25th, caused heavy flooding of highways, local streets and buildings. Greatest effects of the storm were felt in the southwest. High winds contributed to the damage by felling trees which caused several power failures.									
DELAWARE	24									Snow
New Castle County	Snowfall, up to 16 inches in this county, was one of December's heaviest 24-hour snowfalls; the 12.4 inches at Wilmington was the second highest December total, based on record dating back to 1894. Thunder was also noted by many observers. No deaths were reported however, the number of minor traffic accidents was high. This snow, together with the others of the month, made this month one of the snowiest Decembers on record; at Wilmington, the December total of 21.5 inches was the second highest December snowfall.									
FLORIDA			None reported							
GEORGIA	10	4:30 a	1/2	500	0	0	3	0		Tornado
Toccoa, near	A small storm with apparent tornado characteristics demolished one small building and damaged several others. The typical tornado sound was described by several residents of the area.									
HAWAII	18	4:45 p.		50	0	1	2			Whirlwind
Makaha, Leeward (Western) Oahu	Swept out of Makaha Valley during International Surfing Championships, whirled along beach without entering water and destroyed judges' stands and several concession booths before moving back into valley. One man slightly injured by flying debris. Eyewitness reported there was no parent cloud, rain, thunder or other significant accompanying or preceding weather.									
IDAHO	4-5	7:00 p. -6:00 a.						2	4	Wind
Southern Counties	During the night and early morning, strong winds accompanied by rain or snow struck several communities. Gusts to 42 m.p.h. were recorded at Boise and 50 to 60 m.p.h. in the area from Twin Falls to Rexburg. Plate glass windows were broken and roofs damaged in Oakley, Twin Falls, Kimberly and Burley and many trees uprooted throughout the Magic Valley, resulting in numerous power line breaks with extensive outages reported. A 55-ft. trailer house was overturned in Pocatello, injuring both occupants, and another trailer house was moved from its foundation.									
ILLINOIS			No report received by printing deadline							
INDIANA	8	7:50 a.	?	?	0	1	4	0		Tornado
Jasper County, 9 miles north of Rensselaer	Tornado traveling southwest to northeast touched down about nine miles north of Rensselaer at the intersection of Fair Oaks-Gifford Road and U.S. 231 to demolish a mobile home, unroof a store and damage an adjacent building. Occupant of mobile home received minor cuts. Store considered a total loss.									
Crawfordsville	8	9:00 a.	?	?	0	0	4	0		Tornado
	Funnel sighted approaching Crawfordsville. About the same time, the front of a Drive-in was smashed and a two car garage collapsed damaging one car. Trees were felled blocking some streets and highways.									
IOWA			None reported							
KANSAS	26-28				0	0	?	0		Snow
Entire State except extreme southeast	A major storm dumped 4 to 12 inches of snow over most of Kansas. In some areas of the State this was the heaviest snow since 1960. Many power and telephone lines were downed, causing disruption in service in several communities. Hazardous road conditions resulted in numerous automobile accidents, and highway travel was virtually impossible in several localities. Concordia had 12.5 inches of snow December 27-28, and this is the heaviest 24-hourly snowfall of record for December at that location.									
KENTUCKY	23				?	?	?			Snow
State	Heavy snow fell on much of the southern two-thirds and the north-east sections of Kentucky on December 23-24. Snow accumulated to depths of 1 to 4 inches in the west; 1 to 8 inches, central; 1 to 7 inches, southern Blue Grass; from 1 to at least 9 inches, in the east. Greatest depths reported were in the south central; southern Blue Grass; in the east. The heavy snow resulted in hazardous driving conditions for a large number of automobiles making up the weekend, holiday traffic. Hundreds of traffic accidents were reported, most of them minor; there were a number of persons killed and injured in these accidents. In central Kentucky a number of roads were impassable without chains, and parts of US 31 W were blocked. A number of roads were blocked in the southern Blue Grass and in eastern Kentucky. About 2,000 vehicles were reported to have been stranded along a 12-mile stretch of Interstate-75 between Richmond and Berea. Residents of Richmond and Berea took into their homes stranded travelers who could not be accommodated in hotels, motels, churches and other buildings. See the December 1966 issue of CLIMATOLOGICAL DATA KENTUCKY for additional details concerning snow depths.									
Carter County	27	Night					?	?		Sleet, freezing rain
	Roads very icy with considerable damage to trees and shrubs as result of heavy sleet and freezing rain.									
LOUISIANA			None reported							
MAINE	7				0	0	0	0		Glaze
Interior	Freezing rain occurred in many areas away from the immediate coast and at least as far north as Presque Isle									
Coastal	10				0	0	0	0		Fog
	Unusually heavy fog shrouded the coastal area and inland including the entire 105 mile length of the Maine Turnpike. Fog created hazardous driving conditions and contributed to many mishaps.									
Northwestern	24-25				0	0	0	0		Snow
	Storm yield was mostly 8 to 12 inches from Oxford Co. to central and western Aroostook Co. Some local totals ranged to 20 inches. Totals ranged downward to only 2 to 4 inches near the coast. Air travel was grounded in most of the state. Highway traffic was light and tended to keep auto mishaps to a minimum. Gale force winds whipped snow into huge drifts in some sections.									

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1966

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		
MAINE (Cont'd.) State	29				0	0	4	0	Snow, Glaze, Wind	
<p>General snowstorm with major accumulations in north and west mostly 7 to 14 inches. Totals tapered to 1 to 4 inches along the coast, where precipitation changed to sleet, freezing rain, and rain. Glazing mostly limited to within 50 miles of coast. Highways very slick from wet snow, freezing slush, and glaze in this coastal area. Gale winds drove abnormally high tides against the shore, with many cases of minor surf damage. Debris and seaweed was thrown up onto coastal roads. At Kennebunkport, a seawall was breached and a road partly washed away.</p>										
MARYLAND Northcentral and north-eastern Maryland and District of Columbia	13, 20 and 24								Snow	
<p>Three major snowstorms made this month one of the snowiest Decembers; record or near record monthly snowfalls were reported at many stations with long records. The snow on Christmas Eve blanketed the entire state and provided a White Christmas for all sections. Thunder was reported by observers on the afternoon of the 24th during snowstorm. Newspaper accounts noted the large number of minor traffic accidents during the first major snow of the season.</p>										
MASSACHUSETTS Cape Cod	3-4	Night			0	0	0	0	Icy roads	
<p>Light to moderate snowfall from Plymouth to Provincetown formed an icy coating on roads. Numerous highway accidents occurred including one involving six cars at Plymouth.</p>										
Local areas	6, 7				0	0	0	0	Glaze	
<p>Glazing at scattered local areas across State, generally at the normally colder locations.</p>										
Coastal	10				0	0	0	0	Fog	
<p>Unusually heavy fog shrouded the coastal area including all of Cape Cod. Visibility was reduced to near zero. Numerous highway accidents occurred.</p>										
State	24-25				0	0	5	0	Snow, wind	
<p>This was a full-fledged "northeaster." At Boston, gusts to 67 mph were recorded, the strongest in more than three years. On Martha's Vineyard, gusts to 71 mph were reported. Wind casualties were Christmas decorations and displays as well as antennas, roofing, etc. Some power losses were reported. All trips to the off-shore islands were cancelled as seas up to 40 ft. were reported in Nantucket Sound. Snowfall yields increased inland and northward from the Cape, where 1 to 2 inches fell before changing to rain. Elsewhere totals ranged from 4 to 10 inches westward and even to 10 to 18 inches in the Berkshires. At Pittsfield, 17.0 inches set a new record for a single snowstorm at the Airport Station.</p>										
State	29				0	0	5	0	Snow, glaze, wind	
<p>Storm began with snow but accumulated only a trace to 1 inch on Cape Cod and the Islands and mostly 2 to 4 inches elsewhere but up to 6 to 8 inches locally in higher elevations. Precipitation changed to rain after passing through sleet and freezing rain stages over much of state with wet snow, sleet, or glaze causing very hazardous travel conditions. Very high winds developed in extreme eastern Mass. and the Cape area. At Blue Hill, gusts to 95 mph were the strongest there since Sept. 1960. Gusts to 60 to 80 mph were common over the Cape and the Islands with some plate glass windows broken, trees and utilities damaged, and many minor injuries to roofing, antennas, etc. Winds caused tide of 3 to 3 1/2 ft. above normal in the southern coast area, driving surf onto and closing many shore roads and flooding cellars of many shore homes, especially in the Buzzards Bay area. Some flooding also farther north.</p>										
MICHIGAN South and Central Lower Peninsula	4-5	PM - AM			0	0	?	0	Ice - Sleet	
<p>Freezing rain and sleet produced a rash of auto accidents as kids skated on roads and side walks and many schools remained closed for the third time in four weeks because of the weather. Power failures, due to lines breaking under the weight of the ice, were quite limited because of the light prevailing winds during the period.</p>										
MINNESOTA Brainerd, Crow Wing County	1:45a.m. 6:40a.m.				0	0	4	0	Sleet and wind.	
<p>Sleet caused electric line icing and high winds blew many of them down. All power off in city for 3 hours.</p>										
Southern half of state.	27-28				0	0	4	0	Snowstorm.	
<p>Up to 10 inch snow and gusty winds. Four storm-related deaths; 3 from heart attacks after shoveling snow and one traffic death on slippery highway.</p>										
MISSISSIPPI									None reported	
MISSOURI										
East Osarks and East Central Missouri	8	Early morning							Thunderstorm	
<p>Numerous thunderstorms accompanied the abrupt change from very warm to very cold air. Details of the tornado activity are reported elsewhere in this report. Damaging winds were reported near Mountain Grove, Hermann, Mokane, Elsberry and Fredericktown.</p>										
Columbia, Boone County	8	2:30 AM	2.5	50-100			4		Tornado	
<p>A small tornado caused intermittent damage to buildings, machinery and timber along a WSW-ENE path beginning just within the NE City limits of Columbia (3300 block of Brown's Station Road).</p>										
Thompson, Audrain County	8	2:55 AM	1/4	50			4		Tornado	
<p>A small tornado destroyed several small sheds and unroofed a portion of a home while twisting it on its foundation and bulging its walls. A single open window exhausted air so rapidly it threatened to push out a young lady trying to close the window. Heavy rain and hail followed. Straight wind and hail damage occurred in a fan-shaped swath from this location across NE Audrain County and into SW Ralls County and SE Monroe County.</p>										
Rolla, Phelps County	8	3:50 AM					5		Tornado	
<p>A small tornado passed over Rolla touching down several times to cause damage in excess of two hundred thousand dollars. Initial damage occurred to the roof of the County Courthouse with the most extensive damage in a narrow strip in the 700 block of Main Street where the roof of a church and adjoining educational building were severely damaged.</p>										
Mountain Grove (SE), Texas County	8	8:30 AM	1	100			3		Tornado	
<p>A small tornado unroofed a home and destroyed a two-story garage and other outbuildings on a farm 2 1/2 miles south and 1 mile east of Mountain Grove (Weight County).</p>										
Willow Springs, Howell County	8	9:20 AM	0.6	100			4		Tornado	
<p>A tornado destroyed 8 buildings and damaged several others on three farms on both sides of U.S. 63 just north of its intersection with W, 5 miles south and 2 miles east of Willow Springs.</p>										
Potosi (SE), Washington County	8	10:20 AM	6	100-100			2	5	Tornado	
<p>A tornado touched down in the Furnace Creek area 4 miles south of Potosi and moved ENE for 6 miles crossing State Highways 21 and U, passing 1 mile north of Hopewell and finally lifting just east of Highway 8, 5.5 miles SE of Potosi. Four homes destroyed, 2 badly damaged, 20 minor damage 26 outbuildings destroyed and 21 damaged. Two people were hospitalized.</p>										
Bonne Terre, St. Francois County	8	10:55 AM	2	50-100			3		Tornado	
<p>A tornado touched down in the Bonne Aqua Lake area just west of U.S. 67, 4-1/4 miles north of Bonne Terre. After crisscrossing old Highway 67 as it moved northeastward it crossed New 67 just south of its intersection with Route Y. After destroying timber along Route Y it lifted. A truck driver heading southwest on 67 ran into the debris-filled funnel and was blown off the road to the west. This tornado was apparently produced by the same storm system that caused an earlier tornado in Washington County with a parallel track and the funnel cloud aloft reported moving slowly over St. Genevieve a few minutes later.</p>										
St. Genevieve County	8	11:00 AM							Funnel Aloft	
<p>A funnel cloud aloft reported over St. Genevieve moving slowly to the NE towards the Illinois side of the Mississippi River.</p>										
MONTANA									None reported	
NEBRASKA									None reported	
NEVADA Clerk County	5-6					1	2	6	4	Heavy rains and floods
<p>Heavy rains with resulting flooding did over 1,000,000 dollars damage to southern Nevada irrigation canals, bridges, campgrounds, and highways. In Little Red Rock area, a jeep was caught in the flood and one man drowned. Winds estimated at over 100 miles per hour damaged sheds and blew a Volkswagen off road.</p>										
NEW HAMPSHIRE										
State	7				0	0	0	0	0	Glaze
<p>Freezing and hazardous driving conditions in nearly all parts of the state. Many schools closed.</p>										
State	24-25				0	0	0	0	0	Snow
<p>Major snowstorm yielded 4 to 7 inches in southern portion and generally 6 to 15 inches elsewhere except locally up to 20 inches or more in some hill and mountain areas. Storm was great benefit to the holiday period skiers.</p>										

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1966

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	
NEW HAMPSHIRE (Cont'd.) State	29				0	0	4	0	Snow, glaze, wind
					Storm began as snow, accumulating 6 to 12 inches in much of north and west but only 2 to 5 inches in the southeast where precipitation changed to sleet, glaze and rain. Very slippery roads in area of wet snow and glaze. Wind caused widespread instances of mostly minor damage to trees and utility lines and some coastal erosion from high surf.				
NEW JERSEY Statewide	24	All day					5		Heavy snow.
					Heavy snow throughout the day ranged from 4.5 inches total in Cape May to 19.0 inches or more in Layton and High Point State Park. Added to the snow remaining from the storm of the 20-21, snow depths up to 24 inches were reported in the northwestern counties on Christmas morning. The storm was responsible for the interruption of most travel by highway and by air.				
NEW MEXICO Santa Fe County	26	5:40 p.	1/4	Narrow	0	0	5	0	Tornado
					Blowing sand and rocks damaged car 4 miles southeast of Peñasque where dissipating tornado was seen moving toward northeast. Funnel cloud was not visible in Peñasque where a few buildings were unroofed, a cinder-block building exploded, a semi-trailer truck tipped over, and glass was damaged by strong winds which lasted about 5 minutes. Thunder and hail accompanied the strong southwest winds.				
NEW YORK Great Lakes	1-2	Late a.m. of 1st to late p.m. of 2nd.			2		4		Snow
					Lake-effect storm yielded 55 inches of snow at Mayville, Chautauque County, with 15 to 30 inches within 20 miles of Lake shore in same county and 8 to 12 inches southern Erie County. To eastern lee of Lake Ontario a narrow band of heavy snowfall extended from Belleville and Adams, southwestern Jefferson County, northeast to Carhage area and into northern Lewis County. Heaviest amount 60 inches at Copenhagen with 3 to 4 feet at Adams and 30 inches in Carhage area. Reliable reports indicate snow fall at rate of 6 inches for 30 minutes and 12 inches per hour between 2 p.m. and 3 p.m. on 2nd at Copenhagen with visibility reduced to less than 50 feet. Water temperature in Lake Erie reported near 45 degrees. Light aircraft lost in storm crashed in Lewis County, killing two occupants. N. Y. Thruway along Lake Erie closed for 13 hours with 300 people stranded. Travel similarly paralyzed east of Lake Ontario. Schools closed and other activities suspended or curtailed. Storm accompanied by light winds with little or no drifting. Spell of inseasonably warm weather one week later caused rapid melting of deep snow. Rises in streams and lakes as well as great ponds of standing water resulted in some flood damage to property, especially in Chautauque County. High water closed roads near Chautauque Lake.				
Eastern half	24-26	p.m. to p.m.							Snow
					Coastal storm on 24-25th yielded 8 to 15 inches of snow generally to eastern half of state, including Long Island. Maximum amounts of 18 to 24 inches fell in Catskills, eastern Mohawk and upper Hudson Valleys. Movement of low pressure center to northeast resulted in lake-effect snowfall of 12 to 18 inches to southeast lee of Lake Ontario on 26th. Holiday traffic and other activities halted or greatly curtailed in New York City, Long Island, Hudson Valley and Syracuse areas. JFK International Airport closed 24 hours due to drifting of runways. Snow emergencies declared in New York City, Albany, Troy and Syracuse as many abandoned cars hampered removal on city streets. Total of 19 inches at Albany heaviest 24-hour amount of record for December. More than 12 inches of snow in St. Lawrence and Champlain Valleys caused very hazardous driving. Electrical activity observed over Staten Island evening of 24th.				
Coastal	28-29	p.m. to late a.m.							Rain, wind
					Coastal storm with snow upstate and snow changing to rain extreme southeast yielded 1.0 to 1.5 inches of precipitation to Long Island and lower Hudson Valley. Rain and snow melt from Christmas storm plus wind-driven tides caused extensive flooding of highways, subway tunnels and low lying coastal areas. Large 150-ft. tanker blown aground on Rockaway Beach. Power lines downed by winds, gusting to 40 mph., at scattered points in greater New York City area. Snowfall of 4 to 8 inches mixed with sleet and freezing rain caused hazardous driving in southeast and east central upstate.				
NORTH CAROLINA					None reported				
NORTH DAKOTA					None reported				
OHIO					None reported				
OKLAHOMA Northern Half of State	22-23	9:00a., 22nd - Noon, 23rd			0	0	7	0	Freezing rain, sleet, snow, and wind
					The worst snowstorm yet of the season pushed southeastward across the State glazing roads from the central part of the Panhandle eastward across the northern half of the State. Up to an hour of freezing rain at most locations preceded a snowfall of 2 to 5				
OKLAHOMA (Cont'd.)									
					inches which was accompanied by winds of 35 to 45 MPH along an 80-mile-wide path from the north-central across the northeast. Numerous roads were snow-blocked by 2- to 4-foot drifts in the Perry, Enid, and Blackwell areas where some 1200 holiday travelers were stranded overnight. Heaviest snow of 5 to 9 inches fell across nine northeast Oklahoma counties from Osage to Ottawa Counties. Greatest depths of 11 inches were observed in the Cologah Dam - Nowata area. Many stalled cars were abandoned in ditches and drift areas as owners sought overnight emergency shelter. Subzero overnight lows and near freezing daytime highs maintained the snow cover from 3 to 5 days and up to 9 days in a seven-county northeast area. Oklahoma City Weather Bureau Airport Station reported freezing rain from 3:54 to 4:45 PM on the 22nd which was followed by light snowfall for the next nineteen hours with wind gusts of up to 47 MPH reported at 6:56 PM. Ice-coated electric lines and gusty winds in Oklahoma City caused nine power failure areas with one in the southwest part of the City lasting four hours.				
Garber, near, Garfield County	25	Early Morning			1	0	0	0	Cold
					The body of a Garber man was found in an open field about a half mile from his home near the old #1 on old US 64 where he died of exposure and exhaustion. County officials theorized that he attempted to walk home after his car became stuck in a snow drift, became lost and walked around for some time in the snow before falling down. Nearby early morning lows of 15° were reported at Enid and 11° at Perry.				
Panhandle and northwest counties	26-27	6:00a., 26th - 6:00p., 27th	300	45	0	0	1	0	Snow
					A developing snowstorm moved northeastward across the Panhandle and extreme northwest providing the season's first major snow cover of 1 to 7 inches for this ten-county area. Highways were hazardous from the accumulation of ice and snow. Morning low temperatures during the thawing period provided extreme lows ranging from 13° in Garfield County to 4° in Texas County with the snow cover lasting from five to eight days.				
OREGON					None reported				
PACIFIC AREA					None reported				
PENNSYLVANIA					No report received by printing deadline				
PUERTO RICO					None reported				
RHODE ISLAND Statewide	24-25				0	0	3	0	Thunderstorm, wind
					Thunderstorms, unusual for date, occurred late on the 24th while a snowstorm which began during the afternoon moved slowly through the state. The storm produced 1 to 9 inches of new snow before ending during mid-day on the 25th. Accompanied by high winds, it caused scattered damage to trees, power lines, and outdoor Christmas displays.				
SOUTH CAROLINA					No report received by printing deadline				
SOUTH DAKOTA					None reported				
TENNESSEE State	2				0	0	3	0	Glaze
					Periods of icing and freezing rain and drizzle, sometimes with sleet, produced hazardous streets and bridges which resulted in many minor traffic accidents. In east Tennessee icing was heavy enough to damage some trees and power lines.				
Mid-State	8-9				0	0	7	0	Flooding
					General rains of about 3 to 4 inches over Middle Tennessee Central Basin Area brought rapid rises and bankful stages to several small rivers and tributaries in the area, through the 10th.				
State	23				0	0	0	0	Snow
					Snowfall ranging up to 8 inches in extreme north and east, to trace in south Tennessee resulted in hazardous driving conditions over much of the State. Some roads were closed, and many holiday events and meetings were cancelled. No serious direct damage was reported, but numerous traffic accidents occurred on slippery roads.				
TEXAS					None reported				
UTAH Washington, Kane and Iron Counties	4-6				0	0	6	6	Heavy rain and floods
					Record-breaking rainfall in southwestern Utah during the 4th, 5th, and 6th of December resulting in heavy damage to buildings, farmlands, and crops. Virgin River rose 12 feet below Zion Narrows, washed out new campground and amphitheater at Zion National Park; swept out utility and telephone lines; washed out two bridges, isolating the community of Springdale; and washed out several miles of Highway 15. Flood left 6 to 10 feet of silt on fields, washed away haystacks, and unharvested sugar beets. In Enterprise Beryl area of Iron County, potato cellars were flooded and then frozen to estimated loss of \$400,000.				

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1966

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	INURED	PROPERTY	CROPS	
UTAH (Cont'd.) Milford, Beaver County	5	12:15 p.			0	0	3	0	Wind
			Severe wind storm of over 38 miles per hour struck Milford airport, damaging a trailer, blowing down a cinder block wall, and wrecking an office. Power lines cut leaving weather station without power for 6 hours.						
VERMONT State	7				0	0	0	0	Glaze
			Freezing rain and hazardous travel conditions in nearly all sections. Some schools closed.						
State	24-25				0	0	0	0	Snow
			Major snowstorm yielded mostly 10 to 20 inches. Maximum falls occurred over the western slopes of the Green Mts. The smaller accumulations were in the Connecticut River Valley. Storm was of great benefit to holiday period skiers.						
State	29				0	0	0	0	Snow, glaze
			Snowfall accumulations mostly 6 to 12 inches, with a few greater depths locally in high elevations and some lesser depths in southeast where precipitation changed to freezing rain and rain before ending.						
U. S. VIRGIN IS.			None reported						
VIRGINIA			None reported						
WASHINGTON			None reported						
WEST VIRGINIA			None reported						
WISCONSIN			None reported						
WYOMING			None reported						
OKLAHOMA Tonkawa, near, Kay County	June 4	1966 (Correction) 6:00p.-6:10p.	Short	50	0	0	4	7	Tornado and hail
			This complete account of "tornado and hail" should be deleted for this date as these occurrences are the same as tornado #2 and hail documented in the account of April 22, 1964, Garfield, Noble, and Kay Counties, 4:45p.-6:45p.						
OKLAHOMA Marietta, Love County	Feb. 8	1966 8:00p.-8:05p.	?	?	0	0	7	0	Hail
			Immediate area of City briefly pelted with hail of 3/4- to 1.5-inch size during storm. No extensive damage reported.						
OKLAHOMA Butler 98, Custer County	Mar. 11	1966 6:30p.-6:38p.	Short	Narrow	0	0	0	0	Hail
			Hail up to 3/4-inch size provided a ten percent ground cover.						
	11	10:00p.-11:10p.			0	0	0	0	Hail
			Scattered hail fell across the County with stones up to 3/4-inch size. Hail up to 2 inches deep covered the ground 9 miles north-east of Gracemont during the storm. The ground was also covered 1 inch deep four miles west of Cogar between 10:15p. and 11:00p. A ten percent coverage was also reported 1 mile west-northwest of Cement between 11:05p. and 11:10p.						
	22	5:30p.-6:38p.	Short	Narrow	0	0	0	0	Hail
			Heavy thunderstorms moved eastward across the area with hail up to 3/4-inch size covering 30 percent of the ground in an area nine miles northeast of Tablequah between 5:30p. and 5:40p. Similar hail covered the ground on the west side of Westville between 6:30p. and 6:38p.						
OKLAHOMA Lawton, Comanche County	May 31	1966 About 2:15p.			0	1	0	0	Electrical
			An airlines employee was injured at the Lawton Municipal Airport. He was standing on a concrete ramp directing an airliner when the bolt of lightning struck the ground nearby. He suffered a concussion, burns and shock.						
NEW MEXICO Dona Ana County	Jun. 27	1966 3:12 p.-3:23 p.			0	0	0	0	Funnel aloft
			Funnel aloft 10 miles southeast White Sands Missile Range Headquarters, moving southwestward, not observed to reach ground.						
OKLAHOMA Stillwell, Adair County	June 30	1966 4:15p.-4:20p.	0.2	30	0	0	3	0	Tornado
			A small tornado was observed on the ground briefly at a turkey farm located just northwest of the City. The path moving south-westward was clearly marked by several twisted trees and large turkey house which had a portion of the brick-tile walls torn up and roof scattered to the west and north. The associated thunder-storm furnished up to 1.25 inches of rain and lightning which caused fire damage to one home.						
TENNESSEE Ashland City, (near) Cheatham County	Jun. 30	1966 3:30p.			0	0	0	3	Wind, hail
			Winds to 60 mph and hail of undetermined size occurred in a narrow path for about two miles along the Cheatham-Montgomery County line near the Cumberland River. Farm crops and gardens were damaged considerably by the hail which covered the ground in many places.						
KANSAS St. Francis	Jul. 27	1966 Evening			0	1	0	0	Lightning
			A woman was injured by lightning while using the telephone.						
MAINE Fayette (Previously reported as Readfield)	Jul. 13	1966 1:15 p.m.	2	50	0	0	3	4	Tornado
			Tornado moved eastward from west shore of Echo Lake, raising debris and, later, water from the lake into its funnel. Girl campers at Camp Vega and others observed storm, which broke off trees, uprooted others, and dropped debris onto buildings and cars. Considerable crop damage near tornado path.						
WASHINGTON	Aug. 1966		None reported						
MAINE	Sep. 1966		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 <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEW JERSEY Essex, Union and Middlesex Counties	Sep. 21	1966 All day					3		Heavy Rain
Excessive rains fell over most of the State, with greatest amounts along a north-south line extending from Paterson to Hightstown. Several communities reported 24-hour rainfall of 7 inches, which was an all-time record for some localities. In general, this was the heaviest rainfall in northern and central New Jersey since the storm of October 8-9, 1903. Considerable local flooding, with greatest damage reported in the City of Elizabeth.									
TENNESSEE Bluff City, Sullivan County	Sep. 28	1966 6 a.m.			0	1	0	0	Lightning
A 28-year old man was injured by lightning when he was entering his home. The victim was taken to a nearby hospital in "fair" condition with second and third-degree burns.									
IOWA Belmond	Oct. 14	1966 Corrected Data 1:55 p 10-12					172		Tornado
MINNESOTA	Oct. 15	1966 Corrected Data							
Hail stone, with 16 inch circumference reported to have fallen near Claremont, Dodge County, not verified. Largest verified state hailstone fell at Detroit Lakes, Becker County on July 4, 1966, circumference, 12 inches.									
WASHINGTON	Oct. 10	1966	None reported.						
ARKANSAS Arkansas and north-western Phillips Counties	Nov. 10	1966 1:30 a.	8	Narrow	0	0	5	0	Tornado, rain and wind
Tornado touched down in central Arkansas county destroying a hangar and two small airplanes. Tornado moved northeast destroying power transmission lines, another hangar and airplane, unroofing houses and out-buildings. Some damage to lespedeza seed crop.									
Benton, Saline County	26	10 p.	?	?	0	0	5		Wind
Strong wind with thunderstorm uprooted trees, unroofed buildings, blew down power lines in southwest section of the city. One airplane destroyed at airport and some damage reported at Sardis Community.									

- \* Miles instead of yards.
- \* 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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