

U. S. DEPARTMENT OF COMMERCE
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WEATHER BUREAU
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STORM DATA

AUGUST 1960

Volume 2 No. 8



ASHEVILLE: 1960

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
ALABAMA									
Morgan County, Hartselle	4	8:00 pm			0	0	4	0	Lightning
Lightning started fire which destroyed store building									
Morgan County, Decatur and Danville	9	p.m.			0	0	4	0	Lightning, wind
High winds and lightning caused scattered damage around Decatur, blowing down a few trees and utility poles, upsetting a trailer and breaking plate glass windows. In Danville lightning caused fire which destroyed store. 75% damage due to lightning and 25% due to wind.									
Mobile County, Mobile	21	4:30 pm			0	0	5	0	Lightning
Lightning started fire which destroyed large commercial building and lumber yard.									
ALASKA									
King Salmon	1	1550-1956 AST	-	-	0	0	0	0	Funnel Cloud aloft
A funnel cloud was observed about 15 miles southeast of the Weather Bureau Airport Station. The funnel traveled westward and dissipated about 1536 AST. The cloud, apparently, did not touch the ground.									
ARIZONA									
Tucson	9	Afternoon					4		Wind and rain
Heavy thunderstorm damaged homes and utilities. Wind damage about \$10,000, water damage about \$2,000.									
Phoenix	12	8:30 p.m.			1		4		Wind
Strong winds damaged two factories and several residences. About \$50,000 wind damage. Young man hospitalized by lightning strike.									
Benson	13	Afternoon					4		Wind, rain, hail
About \$10,000 property damage to buildings. Nearly all damage due to wind.									
Gila Bend	15	5:00 p.m.					4		Wind, rain, hail
Possible tornado. Reported damage \$35,000 by wind plus \$2,000 by rain. Largest hailstones about 1 inch longest dimension.									
Parker	17	12:30 a.m.					4		Wind
Thunderstorm winds caused about \$15,000 property damage.									
ARKANSAS									
Independence County	8	Afternoon	Short	Narrow					Tornado
A small tornado, 4 miles south of Newark, destroyed a barn and damaged a house and another barn.									
Joiner, Mississippi County	8	5:30 p.			1				Lightning
A woman was killed by lightning while sitting under a tree.									
Texarkana, Miller County	20	4:00 p. to 6:00 p.					4		Wind, lightning, rain
The storm was confined principally to the City of Texarkana. Wind and lightning caused extensive damage to power and telephone lines. One house was struck by lightning and damaged by the resulting fire. Heavy rains flooded underpasses and some streets in the City. There was some light hail but no damage resulted.									
Little Rock, Pulask County	20	6:55 p. to 7:55 p.			1		4		Wind, lightning rain
Wind, with gusts to 58 m.p.h., damaged 4 light planes at the Little Rock Municipal Airport and caused extensive damage to shade trees. One woman was injured by lightning. Several buildings were struck by lightning but no serious damage resulted.									
Craighead County	20	8:30 p. to 9:00 p.					4	6	Rain, wind, lightning
Wind and rain caused considerable damage in Jonesboro. Stocks were damaged by water when the wind blew off portions of the roofs of business buildings. There was extensive damage to shade trees. There was scattered wind damage to property over the County. Wind and heavy rain caused extensive damage to rice and cotton over the County.									
CALIFORNIA									
Glenn and Lake Counties	16-17				0	0	3	0	High Wind
Damage was confined mostly to trees and utility lines.									
Central Coast and inland to Mojave Desert area	21-23				0	0	4	4	High Wind
Widespread but relatively light damage to TV antenna, roofs, utility lines, boats, and trees, including loss of some fruit blown from trees.									
COLORADO									
Montrose County	1	Afternoon			0	0	3	4	Heavy rain & hail
A cloudburst southwest of Glenthe washed out irrigation ditches and roads and did extensive damage to crops and crop land. Some hail accompanied the storm, but most of the damage was caused by hard rain and flooding.									
Pueblo County	2	6:00PM			1	1	5		Lightning
Lightning killed one man and injured another slightly while they were unloading baled hay on a ranch 10 miles south of Pueblo. The stack of 800 bales of hay was burned.									
Western Colorado and Mountains	1-10				0	0	4		Lightning
Lightning started fires in widely scattered dry forest areas. Over 325 acres of forest were burned in the Baxter Pass area in western Garfield County, and over 400 acres in the Uncompahgre forest in Mesa and Montrose Counties. Smaller fires occurred in a number of other areas.									
Pueblo & Crowley Counties	7	Evening			0	0		3	Hail, wind & heavy rain
A violent electrical storm accompanied by strong wind, rain and hail, damaged or destroyed crops in an area 25 to 30 miles north of Fowler and around 20 miles east of Pueblo. Many fields and crops were completely wiped out by the heavy hail.									
Adams County	14				0	1			Lightning
A bolt of lightning struck a man at Henderson, causing serious burns.									
Northeast Colorado	16	Afternoon & Evening			0	sev.	*4	C	Lightning & wind
Lightning started 4 fires in the afternoon in Logan County, one 10 miles southeast of Peets damaged a farm home and hundreds of acres of grazing land, and three in the area east of Sterling, burning pasture land. It took 4 hours to get the fires under control. Around 9:00PM in the evening, strong winds caused some damage at the fairgrounds in Yuma, where the County Fair was in progress. A ferris wheel was blown over on its side and a canvas roof was blown from the grandstand. Several people were injured by flying debris.									
Denver	16	Night PM			0	0	4		Lightning
Lightning struck a warehouse at 300 Vallejo St., causing \$8,000 damage to the building and stored electrical equipment.									
Alamosa	19				0	0	3		Wind
Strong wind caused an estimated damage of \$1000 to the city's trees. Power poles were blown over, cutting off power for about three hours in the Waverly area.									
CONNECTICUT									
See data on pages 104-105.									
DELAWARE									
See data on page 105.									
FLORIDA									
Port Myers Lee County	1	Unk.	-	-	0	0	-	-	Funnel cloud
Wauchula Hardee County	6	6:00 pm	-	-	0	0	3	-	Wind
Strong winds partially unroofed one residence.									
Largo Pinellas County	6	Afternoon	-	-	0	3	-	-	Lightning
Lightning struck a boat injuring 3 fishermen									
Palmetto Manatee County	9	6:00 pm	-	-	0	0	-	-	Funnel cloud
St. Petersburg Pinellas County	14	2:30 pm	-	-	0	0	-	-	Waterspouts
Key West Monroe County	18	4:20 pm	-	-	0	0	-	-	Funnel cloud
Sanford Seminole County	22	Afternoon	-	-	0	1	-	-	Lightning

See reference notes at end of table.

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<u>GEORGIA</u>									
Macom, Bibb County	5	5 p.			0	0	3		Electrical
									Lightning caused structural damage to a school and to a Railway Machine shop building. Falling bricks heavily damaged four automobiles.
Atlanta, 15 miles southwest	12	3:07 p.							Funnel cloud
Lowndes and Tift Counties	24	5:30 p.	?	?	0	0	5	4	Tornado, hail and rain
									Storm hit the Twin Lakes recreational area of southeast Lowndes County, causing damage to houses, boats, and utility lines. Many trees uprooted. Several people reported seeing a funnel cloud. Storm accompanied by golf ball size hail and heavy rain. About the same time a severe wind storm, with heavy rain and hail, hit near Hahira in the northwest part of the County. Wind damaged houses, trees and utility lines, and wind, rain and hail caused heavy damage to crops, especially cotton and corn. Later in the evening high winds damaged a hangar and three airplanes at the Tifton Airport.
Marietta, Cobb County	31	2:30 p.			0	0	4		Wind
									A freak wind storm hit the Lockheed plant near Marietta, causing damage to two C130 airplanes and two automobiles.
<u>HAWAII</u>									
									None Reported
<u>IDAHO</u>									
South-Central Counties	14				1	0	4	0	Electrical
									During widespread thunderstorm activity, lightning strikes seriously injured a farmer near Jerome, killed a bull near Filer, burned 70 acres of pasture near Wendell, damaged homes at Twin Falls and Filer, and knocked out power service for several hours.
Caribou & Bear Lake Counties	15						4		Electrical
									Lightning strikes badly damaged the motor of the municipal water pump at Grace and destroyed a farmhouse at Georgetown.
Southern Sections	21	Evening & night					4		Wind
									Strong winds reported throughout the Snake River Valley from the Oregon border to the Wyoming line. (1) Waves 7 or 8 ft high sank a 20-ton barge on Bromley Reservoir and blew all rocks loose from moorings. (2) Duststorm in Owyhee County with minor structural damage reported. (3) Telephone and electric service disrupted for several hours at Mountain Home. (4) Numerous large trees toppled, power lines snapped and service was disrupted in scattered sections of Bingham, Bonneville and Jefferson Counties.
Malad	22	Afternoon					4		Wind
									Considerable damage to trees, roofs, TV antennas, etc, as wind of 35 MPH was reported at Malad Airport with gusts estimated as high as 60 to 70 mph. Power and phone service disrupted. Little crop damage.
Driggs	22	Late forenoon					3		Electrical
									Three boys were knocked unconscious by lightning strike near barn in which they were working - all were hospitalized, but none seriously injured.
Hazelton	22	10:00 a					4		Electrical
									Fire started by lightning destroyed 280 to 300 tons of stacked hay 3 miles east and 3 miles north of Hazelton.
<u>ILLINOIS</u>									
Aurora, 4 miles west	3	5:30 p	short narrow		0	0	4	0	Tornado, wind, hail, rain, electrical
									Tornado moving on a northeasterly path did considerable damage to farmsteads. Bales of straw were carried 100 feet or more with one bale being lifted over a fence. Tornado was accompanied by heavy rain, hail and high winds which did scattered damage. Two homes were struck by lightning.
Wilmington	3	6:00 p			0	4	1	0	Electrical
									Two couples injured when struck by lightning at ponds
Dwight	3	night			0	0	4	0	Electrical
									Lightning started fire which destroyed house and possessions
Wauponsee township	3	7:00 p & 11:00 p			0	0	3	0	Electrical
									Lightning struck same home twice, damaging roof, electrical wiring and appliances
<u>ILLINOIS (Cont'd.)</u>									
Madron, Serena, Sheridan, Norway, Sonomausk area	3	evening			0	0	4	0	Electrical
									Lightning struck 2 homes and did considerable damage to transformers and crossarms, knocked out electrical power
Kankakee, Beaverville Sheldon, Donovan area	3	night			0	0	5	0	Hail, Electrical, rain, wind
									Strong winds felled many trees and utility lines. Hailstones the size of pullet eggs fell in the Beaverville area and did some crop damage. Lightning struck at least 3 homes in the Kankakee area doing minor damage. Heavy rains flooded streets and viaducts and a concrete block farm building was toppled by heavy winds east of Kankakee
Galva	3	11:45 p			0	0	2	0	Electrical
									Lightning struck a residence burning window frames, curtains, and did damage to electrical appliances
Chicago area, Lake Michigan	3	10:00 a - noon			1	1	5		Squall line, seiche
									A severe squall line passed through the Chicago area around 10:00 a with wind gusts up to 75 mph toppling many trees and utility lines. It was followed approximately 2 hours later by a seiche which caused water to rise about four feet at Montrose Harbor and three feet at Belmont Harbor in Lake Michigan. One man was injured when his boat overturned near Willette and another died while clinging to a rope on the lake side of the filtration plant north of Navy pier. \$5,000 damage was caused to floats in a Lake Forest parade.
Joliet	3	night			0	1	0		Electrical
									Boy injured while standing under tree that was struck by lightning
Hilldale	3	8:30 p			0	0	4	0	Electrical
									Lightning destroyed barn containing 3500 bales of hay, a hammermill grain elevator, two milking machines and a number of spring pigs
Rock Island, Moline	3	night			0	0	5		Winds, Electrical
									Over 200 trees blown over at Arsenal. Many utility lines downed. Lightning struck TV transmitter. 4 cars and several homes damaged by falling trees in area.
Arrowsmith	3	10:00 p			0	0	4		Electrical
									Lightning caused fire which burned barn, 1200 bales of hay, other equipment
Fulton, 4 miles W	3	5:23 p			0	0	?		Hail, 1 1/2 dia.
Macomb	6	1:00 a			0	0	3		Electrical
									Lightning struck two homes causing minor damage
Lawrenceville	6	night			0	0	3		Electrical
									Lightning struck house causing about \$700 damage
Lincoln	6	early			0	0	4		Electrical
									Lightning knocked out electrical power and set fire to home
Chester	6	night			6	0	4		Thunderstorm
									Family of five and pilot of single engine plane killed during heavy thunderstorm activity. Apparently two small children were thrown from the plunging plane after it was torn by high winds and turbulence. Witness saw plane falling with one wing missing.
West Frankfort	6	9:55 p			0	0	3		Electrical
									Lightning struck residence causing major damage to wiring and appliances
Carmi	6	4:00 p			0	0	4		Wind, rain, electrical
									Heavy rains flooded streets and viaducts. Lightning struck church steeple, residence and radio tower causing minor damage. Numerous utility lines and trees downed.
Chadwick	7	morning			0	0	3		Electrical
									Lightning killed 6 cows and injured 2 others which had to be destroyed.
Pinckneyville	8	4:00 p			0	0	4		Electrical
									Lightning destroyed a barn, TV set in home, struck church steeple
Norris City	8	3:15 p			0	0	4		Wind
									Wind knocked down a roller rink, unroofed a garage, shattered plate glass windows and did much other damage

See reference notes at end of table.

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<u>ILLINOIS (Cont'd.)</u>										
Ormonde	14	4:00 a			0	0	4		Electrical	
									Lightning destroyed barn and corncrib, loss estimated at \$7,700	
Peoria	18	afternoon			1	0	4		Rain, wind, electrical	
									Severe thunderstorm activity caused heavy rains which flooded sewers, basements and streets. One youth was drowned when pulled 575 feet down a drainage conduit during the flash-flooding. Heavy winds downed many trees and utility lines. Lightning struck two homes and utility lines leaving city without power for 3 hours.	
Pekin	18	2:30 p			0	0	4		rain, wind, electrical	
									Heavy rains caused Little Hick Creek to overflow flooding many homes and streets in the area. Lightning knocked out electrical power and struck several homes with minor damage. Numerous trees and utility lines were downed. 15 cattle were killed on a nearby farm when struck by lightning.	
Chicago	19	afternoon			0	0	5		Rain, wind, electrical	
									Heavy flooding caused considerable damage to basements and blocked underpasses. An estimated \$100,000 damage was done to the Lane Bryant store when heavy rains collapsed the roof and one wall. 400 auto accidents were reported during the storm. Lightning hit trees and powerlines.	
West Frankfort	20	afternoon			0	0	5	0	Winds	
									Heavy winds toppled at least 100 trees, caused roof damage at the high school, toppled TV antennas and blew out windows. \$1500 damage was done to a peach orchard northeast of town.	
<u>INDIANA</u>										
									See data on page 105.	
<u>IOWA</u>										
Davenport	3	11:00 p.					4		Windstorm	
Southern half Plymouth Co. & NE Woodbury Co.	5	3:00 p.	50				4	5	Hailstorm	
									12 mile wide zone from Akron to NE Woodbury Co. Hail size to 3 inch diameter - heaviest damages near Akron, between LeMars and Hinton and south of Kingsley. 30% damage due to wind.	
Correctionville	5	6:30 p.					1		Lightning	
Madison County	5	8:30 p.					4	5	Windstorm	
Audubon & Guthrie Counties	6	10:00 p.					2	5	6	Windstorm
									100 mph winds damaged about 100 homes in Audubon. Most severe crop damage in triangular area bounded by Guthrie Center, Yale and Audubon. Crop loss estimated near \$1,000,000. Property loss in Audubon \$200,000. Hail caused 25% of crop damage.	
Griswold	6	10:30 p.							Tornado	
									Touched ground briefly.	
Near Hamlin	6	10:30 p.							Funnel aloft	
Lime Springs	6	11:00 p.	5	2500			4	5	Hail	
Winterset	15	2:55 a.						4	Hail	
10W Eldora	17	4:00 p.						4	Lightning	
Kimballton	18	1:00 p.							Funnel aloft	
Greenfield	18	1:30 p.						4	Tornado	
5NW Harlan	18	2:20 p.							Funnel aloft	
8E Larrabee	19	11:00 a.							Tornado	
									Touched ground briefly.	
10ESE Atlantic	19	12:15 p.							Funnel aloft	
4NW Harlan	19	2:23 p.							Funnel aloft	
Terril	19	4:00 p.							Funnel aloft	
10NW Perry	19	4:40 p.							Funnel aloft	
Between Tripoli & Sumner	20	10:40 a.							Funnels aloft	
									Three funnels along Wapsipinicon River.	
Near Independence	20	12:30 a.							Funnels aloft	
									Three funnels observed.	
<u>IOWA (Cont'd.)</u>										
Near Tripoli	20	2:15 p.							Funnel aloft	
Waverly	20	3:00 p.							Funnel aloft	
Wheatland	20	4:00 p.							Funnel aloft	
5S Indianola	21	4:30 p.							Funnel aloft	
Redfield	21	6:33 p.							Funnel aloft	
Adel	25	5:00 p.							Funnels aloft	
									Four funnels observed.	
May City	27	10:30 p.							Funnel aloft	
Eagle Grove	28	2:35 p.						4	Windstorm	
SE of Coulter	28	3:00 p.	1	150				4	Tornado	
SE of Geneva	28	3:30 p.	1	100				4	Tornado	
Waukon	28	5:00 p.					2	4	Thunderstorm	
									Small aircraft crashed during storm.	
4SW Mason City	28	5:00 p.	1	200				3	Tornado	
6S Mason City	28	5:00 p.	1	200				3	Tornado	
Knoxville	28	6:00 p.							Funnel aloft	
NW of Clarion	28	10:00 p.						4	Lightning	
<u>KANSAS</u>										
Kansas Eastern Counties	3	afternoon and evening						2	Electrical (8)	
									A wide spray of thunderstorm resulted in damaging lightning strikes as follows: 1:30pm, near Leavenworth, a pipe line welder was injured; afternoon-St. Marys, 1 child was injured, electrical appliances and wiring ruined and some structural damage to one house; afternoon-near Courtland in Republic County, a crib containing 4,200 bushels of corn was destroyed; 3:30pm, South of Hillsboro in Marion County, a barn and contents of hay, feed, and machinery were burned; late afternoon, 3 houses in and near Cottonwood Falls were hit and damaged to some extent; afternoon, near Partridge in Central Reno County, a building roof and electric wiring were damaged; 8:00pm, Girard, lightning struck a tree and jumped to a nearby barn which was badly burned; 11:00pm, 4 miles south of Augusta, an oil pump caught fire from lightning but the fire was soon extinguished.	
Lyon County	4	2:10am							Electrical	
									A roof was set afire by lightning in Emporia, also there was some damage to electrical appliances.	
Mitchell County	6	1:30am							Electrical	
									A house south east of Beloit was struck by lightning. Wiring and appliances were main damage.	
Clay County	6	early am							Electrical	
									A farm house east of Idana was burned after being struck by lightning.	
Rush, Pawnee, and Barton Counties	6	7:30pm-9:30pm						4	Electrical and wind.	
									A severe thunderstorm with high winds caused damage over these 3 counties. A farm house and contents were burned a few miles southeast of Rush Center after lightning struck. This loss was estimated at \$21,000.00. Trees were uprooted and power lines tangled and a trailer house upset in Great Bend by winds reaching 62 mph.	
Ford County	6	11:00pm							Electrical	
									A large farm house in north central Ford County was struck by lightning. The house and most of the contents were lost.	
Gove and Sheridan Counties	7	9:00pm							Wind and hail	
									High winds southwest and west of Quinter caused broken tree limbs, and minor building damage, part of which was a burned over trailer house. Hail fell near the Gove-Sheridan County line damaging several good milo fields and denting a car.	
Hodgeman County	7	evening							Electrical (3)	
									Lightning struck 2 places at Jstmore, the power plant where a generator was burned out and a business building where the circuits were fused and lights could not be turned off. A filling station also was struck with resulting damage to electrical appliances.	
Horton County	7	evening	5						Hail	
									Considerable crop damage occurred from the east side of Elkhart eastward for 5 miles.	

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KANSAS (Cont'd.)									
Central Counties	7-8	9:00pm to 11:00pm					5		Electrical (3), wind and hail
<p>A vicious thunderstorm with a great deal of sharp lightning, locally severe wind, and several small areas of damaging hail occurred from Mitchell County south-southeastward to Butler County. Severity of the storm began along the western edge about 9pm and moved eastward, continuing past midnight at the southern portion of the storm area. Lightning damages were: Near Beloit a barn was destroyed; near Elbing in Butler County a barn filled with 5,000 bales of hay were burned; north of Windom in McPherson County an abandoned farm house and other buildings were burned to the ground. The most severe winds were in the Salina and Halstead areas. At Salina gusts of 83 mph were reported. T. V. ariels, trees, roofs, transmission lines were twisted and broken. Numerous cars and houses were damaged by the falling trees and large limbs. The storm struck very suddenly at Salina. Hail damaged roofs and crops in the area surrounding Salina. Estimated wind and hail damage near Salina was \$200,000.00. A number of plate glass window store fronts were blown in. A strip of hail damaged crops and roofs over an area 5 miles long northwest to southeast and 2 miles wide southwest of Moundridge. Another damaged area was near Halstead. Wind near Halstead was estimated at 80 mph. Hail of golf ball size also was reported at Moundridge Lake. Minor wind and hail damages occurred over parts of Salina, Dickinson, McPherson, Rice, Ellsworth, Reno, Sedgwick, Butler and Marion Counties.</p>									
Southwest Counties	7	10:00pm-midnight				1			Electrical (5)
<p>Lightning caused the principal damage as a thunderstorm past over Montgomery, Labette, Neosho, Cherokee and Crawford Counties. Near Edna, lightning damaged some electrical appliances and burned a bed at one place and killed a horse at another. At Coffeyville a residence was struck with resulting damage to the wiring, and the kitchen stove. Near Coffeyville a barn and contents of 150 tons of hay and 1,500 bushels of barley were lost. In Galena considerable damage was done to a kitchen and contents. The owner was injured slightly.</p>									
Montgomery County	7-8	9:30pm-3:00am							Heavy rain and lightning
<p>Heavy rain of 6 inches in 4 hours beginning about 9:30pm, Aug. 7. Caused extensive property damage in Coffeyville. Basements of many homes and business houses were flooded. Traffic was halted by flooded streets. Water reached a depth of more than 7 feet in some of the lower streets. Lightning knocked out power for the pumps and lift stations in the sewers which added to the flooding. Damage was estimated to total thousands of dollars.</p>									
Mitchell County	8	12:30am					4		Electrical
<p>A large barn was destroyed by fire after being struck by lightning 7 or 8 miles east of Beloit.</p>									
Smith County	8	3:00am							Electrical
<p>A 10 ton stack of alfalfa was burned when struck by lightning near Lebanon.</p>									
Cowley County	8	shortly after midnight							High winds
<p>Broken trees and limbs resulting from gusts of wind reaching 70 mph littered streets over Arkansas City. Electric power lines were broken at a number of places which added to the difficulty of traffic and emergency measures.</p>									
Pawnee, Rush and Ness Counties	8	evening							Hail and wind
<p>A local storm centered near the corner where the 3 counties join resulted in some wind damage and the loss of forage sorghum from hail.</p>									
Clark County	8	night							Electrical
<p>A large 2 story home in Englewood was destroyed by fire after being struck by lightning.</p>									
Neosho County	9	5:00am-7:00am							Electrical
<p>An early morning thunderstorm over the county caused much disruption of electrical and telephone service. Motors and home electrical appliances were damaged at a number of places. One farm house of 6 rooms was struck and burned.</p>									
Sumner County	9	evening							Wind
<p>High winds damaged power and telephone lines and broke numerous trees near Caldwell.</p>									
Johnson and Wyandotte Counties	14	7:00p-7:30pm							Hail
<p>Hail stones up to golf ball size fell over the area from Shawnee Mission northeast to Quindaro. Little damage resulted.</p>									
Coffey County	16	3:30pm							Electrical
<p>A large cedar tree was struck by lightning 4 miles northeast of Burlington. This was the second time in recent years the tree was struck. The lower part of the tree was shattered and shingles under the tree were set on fire.</p>									
McPherson County	17	11:00am							Electrical
<p>Lightning struck a house in the south part of McPherson. A wall was damaged by the resulting small fire.</p>									
KANSAS (Cont'd.)									
Dickinson County	17	afternoon							Electrical (2)
<p>A house in south Abilene received slight damage from a lightning bolt about 12:30pm. The T. V. set and antenna and some wiring were also damaged. Near Chapman, later in the afternoon, an R.E. A. pole was struck and the line broken disrupting electric service for 2 hours.</p>									
Brown County	17	3:00pm							Electrical
<p>A large barn 4 1/2 miles northeast of Hiawatha was struck by lightning and quickly burned.</p>									
Sedgwick County	17	6:00pm-9:00pm				1			Wind
<p>During a thunderstorm in Wichita, wind over turned a trailer injuring one occupant. Power lines were shorted by being blown together. Several power line poles were broken and trees and branches falling on the lines caused outages.</p>									
Shawnee County	17	about 8:00pm							Electrical
<p>At a house in North Topeka, lightning blasted out some flooring, burned draperies, knocked out the telephone. Service was interrupted at 200 phones as a result of 22 instances of cable damage.</p>									
Lyon County	17	8:15pm-9:20pm							Electrical (4)
<p>Lightning struck in 4 places in Emporia but with only minor damage at each.</p>									
Douglas County	17	9:20pm	1	440			4		Severe winds
<p>Severe thunderstorm gust winds struck west of Lawrence. First evidence of the force of the wind was broken trees about 1 1/2 miles southwest of Kansas University Campus and a field of forage sorghum part of which was laid flat by the wind. About 1/2 mile east a 511 foot radio tower was blown over and about 1/2 mile south southeast of the damaged tower a number of newly built brick piers that were standing alone were blown over to the northwest. Sustained winds of 50 mph were evident over a wide area with gusts of 75 to 80 mph in the damaged area. Windows and windshields of 7 or 8 parked automobiles near by were broken. The shattered glass fell into the cars. One car with a half inch opening of a side window escaped breakage. Part of the automobile damage was due to wind driven gravel from a nearby roof. Several Automobiles were damaged by trees blown across them. No twisting winds indicated.</p>									
McPherson County	17	night							Electrical
<p>A light pole was splintered by a bolt of lightning in McPherson which disrupted service over a large part of town.</p>									
Ottawa County	17	night							Electrical
<p>Near Bennington lightning entered a house through the fuse box and evidently shorted some of the house wiring which later started a fire destroying the house.</p>									
Coffey County	17	night					4		Electrical
<p>A barn northwest of Lebo was struck by lightning. Barn immediately burst into flames and with contents of hay and some machinery was an entire loss.</p>									
Southeastern Counties	20	8:30am-11:00pm					15		Wind, hail, electrical (17) and heavy rain.
<p>Thunderstorm conditions over 10 extreme southeastern counties became locally severe at times. Most damage was from winds and hail. Winds were estimated at 80 to 95 mph in eastern Wilson County, northern Neosho County, in southern Montgomery and northern Labette Counties. Hail caused damage in numerous localities. One path was about 5 miles wide from near Chanute to the southeast corner of Neosho County, approximately 20 miles. Numerous other smaller areas were damaged from southern Woodson County to southern Cherokee County. Stones ranged in size from marbles to that of hen eggs and in some places baseball size. Crop losses were estimated at 75 to 100% in the worst areas. Green houses, windows, roofs, siding, automobiles, neon signs, etc all gave evidence of the storm's violence. Wind damage was much more wide spread as indicated by uprooted and broken trees, unroofed buildings, broken glass store fronts and window panes in homes and upset machinery. Added damage came from heavy trees falling on houses, automobiles and power and telephone lines. Where roofs and windows of homes and businesses were broken or open losses of contents resulted from the water from the accompanying heavy rain. Hail and the severe winds lasted for only 5 to 15 or 20 minutes at any one place and mostly from 11:00am to 3:00pm. Approximate times of the beginning of major storm damages were, Chanute 1:30pm; Parsons 1:30pm; Columbus 2:30pm and Coffeyville, shortly after 3:00pm. Lightning strikes were numerous and at intervals from 8:30am till 11:00pm or later as follows: 8:43am, Garretts, wiring damaged in a home; late morning, around Yates Center, 4 hay barns, estimated loss \$25,000.00; 10:15am-11:00am, near Bireka, 4 separate strikes resulted in damage to appliances and wiring and loss of a large barn and contents; near noon, 8 miles northeast of Chanute, large farm home and contents burned; 12:40pm, Girard, lightning started a fire in an attic; Girard, 2:20pm, electrical equipment in a store was damaged; Galena, 3:30pm, holes were made in the roof and wall of a house, and the downspout was set afire; time not given, near Humboldt, a large oil storage tank had the bottom blown out and contents of oil burned when lightning struck; 10:00 pm, Parsons, damage to power equipment at State Training Center.</p>									

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS		
KANSAS (Cont'd.)										
										Eight (7), Parsons, heavy damage to school house when chimney was struck; 11:00pm, Oswego, a barn and contents in northwest part of town destroyed with a loss of \$15,000.00. Fifteen injuries were reported, 12 in and near Coffeyville and 3 at Galena. Power and both local and long distance telephone service interruptions lasted in some cases 24 to 36 hours. No estimates of total damage were available.
Sherman County	20	afternoon and evening								Hail and electrical
										Hail, an inch in diameter damaged crops and lightning started a fire which burned a strip of pasture grass.
Iowa County	20	4:25pm								Tornado
										A small tornado dipped to the ground and then retreated back into the clouds a few miles west of Haviland.
Finney County	20	5:50pm-6:30pm								Hail and wind
										Small hail driven by high winds left only stubble of grain sorghums in several fields southeast of Piarceville. Stones were very numerous and were 2 1/2 inches deep in level areas.
Freco County	23	5:30pm-6:00pm								Heavy rain
										Heavy rain caused local flooding over central and eastern parts of the county. About 3/4 inches fell in a half hour near Collyer. Utilities were interrupted for awhile.
Ellis County	23	night								Electrical
										The control board at the power plant at Ellis was damaged when lightning struck.
Jewell County	23	11:00pm			1	1				Electrical
										Lightning set a house afire 2 miles northeast of Manito. House and contents were an entire loss. One occupant was slightly injured, and the other died as a result of shock and burns.
McPherson County	24	6:20am								Electrical
										Lightning struck a large home 4 miles east of Iman. House and most of contents were destroyed.
Greenwood County (In Eureka)	24	8:30am								Electrical
										A lightning bolt damaged the roof of one house and some of the electrical appliances in that house and the one across the alley.
Sedgwick County	24	4:00am-10:00am								Excessive rain and electrical
										Heavy rain began about 4:00am and continued until about 10:00am. Some reports indicated from 7 to 9 inches of rain in that time. Extensive flooding of low streets and basements occurred. Many cars were stalled and some swept from roads and highways. Heaviest amounts were in the north and northeast sections of town. A house in the north part of town was struck by lightning resulting in \$3,000.00 damage.
Central and Eastern Counties	25-26	1pm-early am.			2	1				Electrical (21) wind, heavy rain, hail, and funnel cloud.
										A thunderstorm over the eastern half of Kansas brought damage to numerous localities. The storm progressed southeast. The first damage was at Junction City about 1:00pm when a city employee was injured by lightning. At 2:45pm a funnel cloud was sighted a few miles southeast of Seneca in Marshall County. From 5:45pm to 7pm lightning caused some damage in Leavenworth, at Lawrence 2 strikes caused minor damage. In Topeka a cow was killed and small damage done at 5 homes by lightning. Marble sized hail fell in McPherson County. From 7:00pm till 9:00pm heavy rains were reported in Reno, Harvey, Sedgwick, and Lyon Counties causing flash flooding. A truck driver was killed south of Newton in an accident due to the flash flood. Highways and streets were made dangerous by surface waters and many basements and houses in low areas were flooded. A paper company in Emporia lost \$20,000.00 worth of products. Some wind damage to power and telephones was also reported over this area. Lightning killed a man east of Esoson. Southeast of Emporia a large chicken house was struck and partly burned. In Franklin County power and telephone service was interrupted by breakages and burned out transformers. A large barn south of Lawrence was partially destroyed when struck about 8:30pm. Lightning caused some trouble with electric lines in McPherson and Marion Counties. From 10:00pm to midnight lightning damaged wiring at a house south of Winfield, 2 or 3 houses in Fredonia and Neodesha reported damage from lightning. A barn and contents of hay were destroyed near Lebo, and 2 strikes near Iola resulted in damage to a wall and some appliances. Strong winds of 60 to 80 mph felled trees, broke transmission lines, unroofed buildings at various places in the more southern counties from Allen County south and as far west as Cowley. Stormy conditions prevailed for an hour or two early on the 26th.
Central Counties	28	after noon								Electrical (13) and wind
										An afternoon thunderstorm with considerable severe lightning caused minor wiring and appliance damage in Russell, Mitchell, Cloud, Saline and Marion Counties. Several head of cattle were killed in Russell County. Damaging winds were also reported in Russell and McPherson Counties.
KANSAS (Cont'd.)										
Sedgwick County	28	7:40pm								Tornado and hail
										A tornado moving eastward touched ground momentarily and damaged a house 7 miles northwest of Wichita. Golf ball sized hail fell in the north and northeast sections of Wichita.
Ellis County	29	early morning								Electrical (2)
										Near Walker in the eastern part of the county lightning struck twice on the same farm. At 2:30am some wiring was damaged and at 5:00am a stack of hay was set afire.
Cowley County	29	early morning								Electrical
										Lightning struck a utility pole in Arkansas City disrupting service for some time over the south part of the city.
										Additional reports will appear in a later issue as delayed data
KENTUCKY										
Mason County	h	10:30-12:00 AM								Rain & Electrical
										A dozen or more homes, scores of basements, and commercial buildings were flooded by the heavy rain. Telephone service was knocked out and electric power disrupted. A barn containing 2,000 bales of hay and farm implements was destroyed by fire after being hit by lightning. Most damage occurred in Maysville.
Bourbon County	6-7				1	h				Lightning & Wind
										Two barns, a house damaged, a drive-in theatre screen wrecked, damage to cars, disrupting of electrical power and telephone service were the major tolls during the storms. The barns were destroyed by fire after being struck by lightning. The barns contained farm machinery and tools, plus hay and other contents. Damage by lightning 90% of total, 10% by wind. Injury caused by being hit by a piece of the screen.
Devless County	8	4:30 PM								Wind
										The wind damaged several homes and other buildings, tore a two-car garage from its foundation, uprooted trees, and disrupted power and telephone utilities. Crops along the path of the wind were badly damaged.
Kenton County	9	PM								Rain
										Heavy rain choked highways, flooded basements, and caused damage to utility lines. Many streets and underpasses were flooded.
Montgomery County	15	PM								Hailstorm
										A hailstorm accompanied by lightning caused damage to tobacco crops, livestock, and one house. Some of the hail stones were reported to be as large as marbles. The storm was confined to a narrow strip in the extreme east portion of the county.
Mason County	18	5:00 PM								Hail & Wind
										A hail and wind storm caused heavy damage to maturing corn and tobacco in the western section of the county. Damage occurred in about a twenty mile radius. About 90% of damage was by hail and 10% by wind.
Central Kentucky	18	PM								Hail & Wind
										Hail and wind brought damage to tobacco crops in several counties, including Fayette, Scott, Garrard, Jessamine, Madison, and Woodford. A group of farmers along the Scott-Fayette County line said their crops were almost wiped out. Property damage was to trees, homes and other buildings. 95% of damage was by hail, 5% by wind.
Nicholas, Franklin, Bourbon Counties	19-20									Hail & Wind
										Wind and hail caused heavy damage to tobacco crops. Burley was completely flattened in some fields. Damage by hail 75%, by wind 25%.
Ohio County	20	4:30 PM			1	3				Wind
										A dead tree felled by the wind crushed a man as he crossed a road. Damage to property consisted of broken trees and broken utility wires.
Kenton County	30	PM								Wind & Lightning, Hail
										Lightning severed a power line and damaged a few buildings. Wind felled trees and caused damage to cars. Injury was caused by hail. Damage 50% by wind, 50% by lightning.
LOUISIANA										
Crowley, NW Acadia Parish	6	6:22 p								Funnel Cloud
										First reported as tornado but later shown not to have touched the ground.
Clinton East Feliciana Parish	6	2:30 p	?	?	0	0	4	0		Severe Thunderstorm
										Intense electrical and thunderstorm with high winds which uprooted trees, broke limbs, and caused other minor damage.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1980

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (FARMS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
LOUISIANA (Cont'd.)										
Burrwood, 5 mi. E Plaquemine Parish	9	8:36 a							Waterspout	
Baton Rouge	14	12:35 p	?	?	0	0	4	0	Severe Thunderstorm	
St. Tammany Parish	19	11:00 a							Waterspout	
Lake Charles, 6 SW Gueydan (near) Vermilion Parish	23	9:50 a							Funnel Cloud	
	25	12:15 p							Funnel Cloud	
MAINE										
Presque Isle	8				0	0	4	0	Wind	
									Wind ripped large tent at fairground. A falling tree smashed in the corner of a home. Other falling trees and limbs disrupted power and phone service.	
Androscoggin and Somerset Counties	22-23	During night			0	0	4	0	Electrical	
									Lightning damaged trees, utility lines, and several homes, especially in the Lewiston-Auburn area. A fire from lightning burned a large chicken house at Bingham, where lightning also caused utility failures.	
Northern Aroostook County	29	About 5 PM			0	0	4	2	Wind, tornado	
									Wind felled trees, damaging utility lines and crushing an auto. Maximum gust measured at Caribou Airport was 81 m.p.h. Several airplanes were damaged. Heaviest damage was at and near Caribou where tornado cut 100 yard swath 5 miles through woods and over buildings. A potato shed was demolished and other buildings damaged. A heavy rock crusher was blown over with much damage to the machinery. Tornado verification tentative, though funnel sighting was reported. Other communities hit by damaging winds include New Sweden, Limestone, Madawaska, and Stockholm.	
MARYLAND										
									See data on page 105.	
MASSACHUSETTS										
Central and Eastern portions.	15	Evening			0	0	4	0	Electrical, Rain	
									Lightning caused power failures in scattered communities. Heavy rains, with up to 1.4 inches reported at Brockton, nearly all in less than one hour. Flooded streets and cellars in some eastern Mass. towns. Hail was reported at Rockport, but without damage.	
North Attleboro	21	4 P.M.			0	1	3	0	Electrical	
									Boy injured when knocked down by lightning. Lightning damage also to utility lines.	
Northeastern Worcester and Northwestern Middlesex Counties	22	5-6 P.M.			0	0	4	0	Electrical, wind	
									Many power failures when lightning burned out several large transformers and a main feeder line. In Westminister a cottage was damaged by fire from lightning. A very local severe wind at one point in Lunenburg blew down a utility pole, limbs, and stripped leaves from trees. No information has been received as yet to determine if this may have been a small twister.	
South-central and Southwestern portions	30	P.M.			0	2	4	0	Electrical, rain	
									Two injured by a lightning bolt at Palmer, Mass. Power failures from lightning strikes in several communities, mostly in south-eastern Mass., where negligible damage from local flooding rains also occurred.	
Michigan										
Southern lower	3	early am					4		Thunderstorms with lightning and heavy rain	
									Lightning caused fire which destroyed farm barn with contents and adjacent haystack near St Clair, Michigan. Lightning induced fire was reported at Midland, Michigan with damage reported at the fair grounds. Farm barns with contents were burned at White Pigeon and near Jackson caused by lightning. Lightning caused fires were also reported at Flint and New Buffalo, Michigan with resultant damage to the buildings. Heavy rains flooded the expressways in Detroit.	
Southeastern shore Lake Michigan	3	10:30 a							Seiche	
									Seiche caused 4 foot rise in Lake Michigan lake level. Due to public warning of the seiche, beach areas and lowlands were cleared which avoided any casualties or injuries.	
Southwestern and south central lower	3	10:30 a. - 2 p.					5	4	Thunderstorms with lightning, high winds, heavy rains and hail	
MICHIGAN (Cont'd.)										
Decatur	3	11:15 a.			1	2	5		High winds	
									One man was killed and 2 were injured by falling timbers within a large grain storage building under construction which collapsed due to sudden high winds.	
Kalamazoo	3	11:45 a.	?	?	0	0	4		Tornado	
									Four personnel of Borg Warner Co. observed dark rotating cloud with shingles, boards and tree debris swirling within it pass 200 yards northwest of their plant and heard the loud roar and noise plus other people nearby reported hearing the noise and loud roar. The tornado blew part of the Checker Cab Co. plant roof off, damaged the roof of a nearby greenhouse and knocked a barn nearby off the foundation.	
Three Rivers	3	noon							Funnel aloft	
									Funnel aloft reported northeast of Three Rivers.	
Baraga	7	2:55 a					4		High winds	
									High winds demolished farm barn and machine shed completely and also damaged garage in Baraga Township. Contents buildings damaged.	
St. Johns	7	morning					4		Electrical	
									Lightning induced fire destroyed farm barn and contents near St. Johns. Estimated damage was \$15,000.00.	
Washtenaw County	9	7-9 p					4		High winds, rain, electrical and hail	
									High winds felled numerous trees which blocked roads and streets. Lightning knocked out several transformers disrupting power and phone service to many homes. Hail reported with crop damage unknown.	
Grand Rapids	14	morning					4		Electrical	
									Lightning induced fire caused \$15,000.00 damage to church.	
Dryden	14	afternoon					4		High winds and rain	
									High winds destroyed large farm barn and chicken coop including all contents of the buildings located 3 miles northwest of Dryden.	
Lake Michigan	21	7 a							Waterspouts	
									Personnel aboard a tug on Lake Michigan between Holland and Saugatuck observed 4 waterspouts.	
Bay City	21	2 p					2		Electrical	
									Young husband and wife were struck and killed by successive bolts of lightning while dashing across the street to their home in the suburb of Limwood.	
West and Central Upper Peninsula	27-28	2 p - 27th - early an 28th					5		Thunderstorms with high winds, heavy rain and lightning	
									High winds up to 62 mph felled numerous trees causing damage to buildings and homes. TV antennas blown down. Power lines cut by falling trees disrupted phone and power service to numerous homes. Heavy rains washed out sections of streets and roads with heavy repair damage reported. Fire caused by lightning completely destroyed Gulf Pro Shop building with contents at Marquette, Michigan.	
MINNESOTA										
Southern third of Minnesota	3	1:00 a.- 6:00 a.					1	5	4	Wind, rain, hail
										Line of heavy thunderstorms moved eastward through southern Minnesota with greatest damage occurring in and around Mankato, Albert Lea, Austin and Rochester. Thousands of trees blown over damaging many homes and cars in both urban and rural areas. Falling branches rained many roofs. Utilities were disrupted. At Mankato 1.15 inches of rain fell in 30 minutes (4-4:30A). Cleanup cost, Mankato area alone, estimated over \$5000. At Albert Lea one woman injured by falling glass. Nearby two barns blown down. At local airport small amphibian aircraft flipped over on its back and damaged. Wind observed at 60 mph. Austin Airport reported one small airplane demolished and two damaged. Rochester Weather Bureau Airport Station observed winds with maximum gusts at 81 mph. One small plane was blown over. Six miles northwest of Rochester 1.71 inches of rainfall was reported. Spotty hail damage to field crops reported throughout storm area with greater number of claims filed in Big Stone and Jackson counties.
Cosmos near, Mooker County	18	1:10 p.								Funnel aloft
										Pilot reported funnel cloud aloft.
Austin, Mower County	20	1:30 p.								Funnel aloft
										Funnel cloud aloft observed by radio station personnel.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MINNESOTA (Cont'd.)									
Clearbrook, Clearwater County	25	6:00 a.	**300	h0					Tornado
									Tornado funnel observed by one man. Tornado first hit county garage on west edge of community. Garage roof found 200 yards away. Walls of farm building pushed out. Large truck standing nearby flipped over on its side. At tourist court several garages were pushed down on top of cars. A corrugated iron machine shop was toppled over. An occupied house trailer was kicked over on its side and spun around. Tornado passage described "like steam escaping from high pressure boiler". Funnel moved from south to north.
Perham 9NW, Otter Tail County	25	a.							Possible tornado
									One farmstead hit. Large granary, two corn cribs, a barn, cow shed, tool shed, garage and brooder house flattened. No livestock killed. Farm was not touched. No funnel observed or unusual noise reported. Five people sought refuge in basement.
Starbuck, Pope County	25	a.			2				Wind
									Gust of wind blew metal ladder against high tension wires killing father and son.
St. Paul, Ramsey County	25	11:00 a.			1	1			Electrical
									Two boys running from tree to tree during thunderstorm struck by bolt of lightning. Boy carrying knife in belt killed.
Wadena, Wadena County	27	1:10 p.				2			Electrical
									Lightning bolt demolished large tree. Woman standing in adjacent home knocked to floor and injured slightly. Across street boy standing near kitchen sink suffered minor burns across mid-section.
Clearwater-Cold Spring -Rockville area, Stearns County	27	h:00 p.	16	*3			3	h	Hail, electrical, rain
									Hail 3/8 inch in diameter covered 30 per cent of ground. Occasional depth 2 inches. Fall off and on from h to h:30 p. Storm moved from SE to NW. Earlier on 27th some hail also reported in Traverse, Big Stone, Lac Qui Parle and Swift Counties.
Central Minnesota	27	a.-p.			1		5	h	Rain, electrical, wind
									Numerous thunderstorms occurred throughout entire day accompanied with general 2 to 4 inches rain, locally heavier. At Litchfield 6.09" officially observed with 3.59" at St. Cloud, 4.06 at St. Francis. Hundreds of basements both residential and business flooded. New construction washed out. Crops flooded and laid low. At Brocton, Stearns County lightning set fire to house which destroyed it. Elderly man escaping fire suffered fatal heart attack. Only small creeks flooded, larger streams and rivers felt only minor rises. Minor wind reported at Stillwater, Mahtomedi, Bald Eagle and White Bear lakes areas.
Olmstead, Winona, Fillmore, Houston Counties	28	a.-p.						3	Rain
									Additional rainfall of 2.0 to 3.5 inches fell over an already water soaked Root River drainage causing minor flooding at, and between, Rushford and Hokah. Hundreds of acres of field crops were water logged.
MISSISSIPPI									
Biloxi, 5 SW	2	7:13 a							Waterspout
Raleigh Smith County	4	1:00 p			2	0	0		Lightning
									Lightning struck tree seriously injuring two boys.
Biloxi, 20 NNE	6	3:19 p							Funnel Cloud
Magee (near) Simpson County	6	1:15 p							Funnel Cloud
Jackson, south part	22	6:00 a	880 yds.	25	0	0	4	0	Tornado
									Funnel cloud observed by several witnesses; very small and short-lived; moved from west.
Vicksburg	22	4-5 a			0	0	4	0	Rainstorm
									Flooding of homes and churches occurred when record-breaking rainfall of 2.44 inches in 30 minutes, and 3.44 inches in one hour fell; some minor damage from wind.
MISSOURI									
Joplin, Jasper County	7	10:50 p.					5		Thunderstorm
									Drive-in theater screen and roller rink were extensively damaged. Some roof and tree damage was also reported.
MONTANA									
East Side of Flathead Valley Flathead County	3	6:30 pm	20	*1-2	0	0	4	5	Hail
									General area of storm was Big Fork to Columbia Falls. Hailstones up to 1-1/2 inch diameter. Mountains east of Lake Blaine nearly white with hail.
Lewistown-Denton areas, Fergus County	3	7:00 pm	15-20	*3-5	0	0	4	5	Hail
									Another storm over this same area on 5th. Damage given for both storms. Hailstones up to 1/2 inch diameter.
Northern Teton County	3	4:00 pm	12-13	*2	0	0	0	4	Hail
									Storm was from south of Byram to north and west of Pendroy. In some places path only 50 yards wide. Hail up to 1/2 inch diameter.
North of Carter Chouteau County	3	4:00 pm	10-15	?	0	0	0	4	Hail
									Storm to north of Carter with movement toward Fort Benton.
Larslan Valley County	4	3:10 pm	20	*10	0	0	4	6	Hail
									Hail up to size of golf balls. A number of windows were broken and a farm house severely damaged. About one inch precipitation fell during the storm.
Southern Daniels County	4	4:30 pm	60	*2-8	0	0	0	5	Hail
									Hailstones up to 1-1/2 inches. Some wind damage southwest of Seeboey.
Sidney Richland County	4	4:00 pm	20	*2-4	0	0	4	5	Hail
									Storm centered in 4 mile area around Sidney but extended from Lambert to North Dakota border. There were three showers during storm. In first hail was marble size, second had walnut size hail, and the third pea size.
Honestead Roosevelt County	4	4-4:20pm	8	*1	0	0	4	4	Hail
									General area of storm 8 miles west to 16 miles south of Honestead. Largest stones 1-1/2 inches in diameter, only moderate damage due to lack of wind.
Valier Pondera County	5	1:52-1:55p	?	?					Funnel Cloud and Hail
									A funnel cloud reported by a pilot over Lake Francis. Hailstones from 1/2 inch to 1 inch diameter.
Valier Pondera County	5	4:00 pm	10	*5	0	0	0	4	Hail
									Hail from west and south of Valier to south of Brady, Chouteau County. High wind some areas. Average size of hailstones about 1/2 inch.
Moccasin Judith Basin County	6	?	?	?	0	0	0	4	Hail
									Storm about 4 miles northeast of Moccasin. Damage to crops about 50 to 80 per cent. Hailstones about 1/2 inch diameter.
Kolin Judith Basin County	13	?	4-5	*4	0	0	0	4	Hail
									Storm 2 miles north of Kolin. Estimated 20 to 50 per cent damage to crops.
Helena Lewis & Clark County	14	2:40 pm	?	?	0	0	4	0	Wind
									Gusty wind and thunderstorm. Peak gusts at airport 63 MPH, fastest mile 47 MPH. Damage to signs, TV antennae, and power lines.
Butte Silver Bow County	15	Afternoon	?	?	0	0	2	0	Thunderstorm
									Lightning damaged power lines, interrupting service some sections for about an hour.
Sidney Richland County	16	4:30 pm	50	*5-10	0	0	4	5	Hail
									Hailstones up to 1-1/2 inches diameter.
Rockvale (1-1/2 mi. south), Carbon County	19	7:15 pm	?	?	0	0	3	0	Wind
									Strong wind during a thunderstorm broke down trees blocking U.S. Highway 300 for several hours and broke down telephone lines. A house was damaged by a falling chimney.
NEBRASKA									
Sidney	2	12:04 pm	-	-	0	0	0	0	Funnel cloud aloft
									Over Sidney Airport moving southeast
Southeastern Nebraska	3	3:15-5pm	1-15	* 4-3	0	0	0	4	Hail, Wind
									Several stripes of hail reported from Jefferson and Saline Counties eastward to Otoe and Nemaha Counties. Stones averaged 1/2" to 1" diameter with largest 3/4". At some places in Saline County ground was covered to 2" depth. Individual stones moved mostly from NW to SE.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEBRASKA (Cont'd.)									
Northeastern Nebraska	4-5	10:20 pm	45	* 2-4	0	0	4	5	Hail, Wind, Lightning
Storm moved southward from Hartington area across portions of Cedar, Dixon and Dakota Counties. High winds (80%) uprooted trees flattened corn and did some building damage. Lightning (3%) caused several fires and killed cattle on at least two farms. Hail (7%) averaged 3/4" diameter ranging upward to over 1-1/2". The ground was covered to a depth of 4" in center of the storm. Crop loss ranged up to 100%. Pigs were killed by "egg size" hail stones.									
Northwest Valley Co.	5	4:30 pm	15	* 3-4	1	0	4	5	Tornado, hail and destructive wind
Tornado touched ground first 6 miles southwest of Burwell, demolishing all the buildings on a farmstead, killing one person, and next destroyed another farmstead 10 miles to the southeast. Hail and destructive winds moving through the area at the same time did lesser damage to other farm buildings and major crop damage. Estimates of damage, tornado 20% hail 20%, wind 60%. Storm moved from northwest to southeast.									
Northwest of Scotia	5	5:00 pm	short	narrow	0	0	0	3	Tornado
Tornado observed uprooting trees and flattening corn.									
East-Central Nebraska	5	5:30-8 pm	70	* 60	0	0	4	4	Demaging winds, hail
Widespread damaging winds and local hail moved from northwest to southeast over much of Platte, Colfax, Dodge, Cuming and Burt Counties and at isolated locations in Polk, Seward and Douglas Counties. Winds estimated at 60 to 80 miles per hour damaged buildings, upset trailer houses, flattened trees, corn and power lines. Wind did major portion of the damage.									
Platte Center	5	7:30 pm	-	-	0	0	0	0	Funnel Cloud
Funnel cloud observed moving from north to south did not touch ground.									
Scottsbluff County	5	evening	-	-	0	0	?	?	Lightning
A fire started by lightning burned 1200 acres of timber and pasture land.									
Adams and Clay Counties	6	6:30-7:30 p.m.	15-20	* 1-3	0	0	3	4	Hail
Hail damage to cars, roofs and crops. Stones averaged 1/2" to 1" with some over 3" diameter. Storm moved from west to east.									
Central Stanton Co.	6	7-7:30pm	2	* 1	0	0	0	4	Hail
Stones 1/2" diameter. Storm moved from northwest to southeast.									
Folk and Butler Counties	6	8-9 pm	20	* 1-4	0	0	5	5	Demaging wind, hail
Wind damage reported central portion of Folk County and from most of Butler County. Most of property damage from wind. Crop damage about half from wind and half from hail. Hail averaged 1/2" diameter with largest stones 1-1/2". Storm moved from west to east.									
Southeastern Nebraska	6-7	9pm 6th-7th	spots	spots	0	0	4	3	Wind, Lightning
Scattered areas of damage resulting from high winds and lightning strikes were reported from Saline, Douglas, Otoe and Richardson Counties. Wind damage included trees blown over, corn flattened, house trailers upset, power lines down, garage destroyed and lesser roof and building damage. Lightning set a number of fires to houses, barns, hay stacks, etc; two barns and contents burned completely. Livestock struck and killed. Storms generally moved to the east and southeast.									
Nebraska Panhandle	7	4 pm into the night	-	-	0	0	5	5	Hail, damaging winds
Severe hail storm with stones from 1" diameter to over 3". Covered portions of Sheridan, Box Butte, Garden and Deuel Counties. Crops (corn, beans, beans, etc.) were total loss many places. Pigs were killed by the larger stones. Roof damage in Alliance alone estimated at \$250,000. Storms moved from W to SE. High winds added to the damage, blowing over trees and small buildings.									
Near Western	7	afternoon	spot	spot	1	0	0	0	Lightning
Struck while riding tractor.									
20 miles NW Sidney	13	3:02 pm	short	narrow	0	0	0	0	Tornado
Observed touching ground in open area.									
2-3 miles west of Bridgeport	15	6:30 pm	short	narrow	0	0	3	0	Tornado
Buildings unroofed, trees down.									
Oshkosh	16	afternoon	short	narrow	0	0	4	3	Tornado
Barn and granary destroyed, other buildings damaged, corn flattened.									
30 miles NW Omaha	18	4 pm	-	-	0	0	0	0	Funnel cloud
Did not touch ground.									
10 miles NW Omaha	18	5:55 pm	-	-	0	0	0	0	Funnel cloud
Visible from Omaha weather station until 6:18 pm									
NEBRASKA (Cont'd.)									
Near Crawford	21	afternoon	spots	spots	0	0	4	5	Lightning
Several buildings and 3,500 acres grassland, hay and timber burned.									
Sioux County	22	evening	spot	spot	0	0	?	4	Lightning
2,000 acres grassland burned.									
3 miles SW Axtell	23	2:20 pm	-	-	0	0	0	0	Funnel cloud
6 miles SE Cairo	23	afternoon	short	narrow	0	0	4	0	Tornado
Hogshed demolished, other buildings, trees and windmill damaged. Movement unknown.									
South-Central Nebraska	23	afternoon	4-8	* 1-2	0	0	4	4	Hail, Wind, Lightning
Scattered areas in central Franklin, Kearney, northwest Adams, southeast Buffalo and Hall Counties. Wind destroyed or damaged barns, grain bins and other farm buildings, blew over trees. Hail was generally small and light but gave 100% damage to crops in local areas. Lightning struck buildings, haystacks and killed 3 head cattle. Most damage to property was by the high winds; damage to crops by hail. Direction of movement unknown.									
5-6 miles south Hastings	23	evening	1	narrow	0	0	4	0	Tornado
Destroyed shop and office buildings, damaged house. Direction of movement unknown.									
5-10 miles NE Lincoln	24	2:35 pm	-	-	0	0	0	0	Funnel cloud
Moving northeast.									
50 miles north-northeast of Omaha	24	early afternoon	-	-	0	0	0	0	Funnel cloud
NEVADA									
Clark County	9	2:00 AM	-	-	1	0	4	-	Lightning, rain
A man was killed when lightning hit as he was replacing fuses at an electrical substation near Boulder City. Several residences in Henderson were damaged by flash flooding caused by heavy thunder showers.									
NEW HAMPSHIRE									
Southeastern portion	15	Evening	-	-	0	0	3	3	Electrical, Hail
Some lightning damage to utilities. Mostly minor damage by hail in Rockingham County to apples and other crops.									
West Rindge	20	8 P.M.	-	-	0	0	4	0	Electrical
Church fire caused by lightning striking bellry.									
Northwood	21	1-4 P.M.	-	-	0	0	-	-	Rain
2.80 inches of rain fell in about 3 hours for a new station rainfall record. This rate of fall is thought to occur only once in 50 to 100 years in the area.									
Nashua	22	-	-	-	0	0	3	-	Electrical
Four cattle killed by lightning at same farm where a cow was killed a year earlier.									
NEW JERSEY									
Burlington and Mercer Counties	8	Evening	-	-	1	0	3	0	Electrical, rain, and wind
Woman killed by lightning while walking in Hamilton Township, Mercer County. Trees uprooted and roofs and chimneys damaged in Chesterfield Township, Burlington County.									
Mercer County	16	5 p.m.	-	-	0	2	3	0	Wind
A large tree was blown onto an auto moving along U. S. Route 1 in Princeton area. Two occupants of auto were injured. Several trees were blown down in townships of Princeton, Lawrence, and Hamilton.									
Burlington County	16	Evening	-	-	1	5	-	-	Rain
Pilot killed and 3 passengers injured when Navy helicopter crashed into a swamp during a severe rainstorm in Southampton Township near Medford.									
Bergen County	19	-	-	-	-	3	0	-	Heavy rain
Rainfall exceeded 3 inches, with ground already saturated from previous rains, causing flooding of streets and highways in several communities in Bergen County. Many cellars flooded.									

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
NEW JERSEY (Cont'd.)										
Statewide	31				1	2	6		Electrical, rain	
	Electrical storm, intense in some areas, caused 1 death and 2 serious injuries. A man was struck by lightning in a fishing boat off Monmouth Beach, and was pronounced dead on arrival at hospital. A girl was injured when struck by lightning in Caldwell, in Essex County. A farmer was injured when struck by lightning in Warren County. Several barns burned when struck by lightning, causing loss of several head of livestock, several thousand bales of hay, and considerable other stored crops.									
NEW MEXICO										
Des Moines (near)	8	3:00 pm			1	0	0	0	Lightning	
	Railroad worker killed while working in a ballast pit.									
Santa Fe County (southern)	11	2:45 pm			0	0	2	3	Funnel cloud and hail	
	Funnel cloud observed from a distance, did not reach ground. Hail the size of "golf balls" near Stanley and Pecos broke windows and damaged crops.									
Socorro	11	3:30 pm			0	0	4	3	High winds and hail	
	High winds severely damaged three planes and did lesser damage to three others. Hail up to one inch in diameter broke windows, knocked holes in roofs and damaged cotton, truck and fruit crops.									
Lea County	11	pm			0	0	0	4	Hail	
	Hail damaged several hundred acres of cotton in the Lovington area.									
NEW YORK										
Extreme southeastern counties, principally Sullivan, Ulster, Dutchess, Orange, Putnam, Rockland, Westchester, New York City and Long Island	18-15	late p.m. to mid-day					6	5	Heavy rains, wind	
	Heavy downpour of rain over about a 12-hour period as a result of a "Northeaster" caused by a coastal storm. Moderately strong winds. Widespread flooding along small streams and in low areas and poorly drained areas. Water ran to 5 to 8 feet in some sections and streets, inundating cars and other property, blocking highways and underpasses, filling cellars and basements and disrupting subways. Transportation means were seriously disrupted, many washouts to roads and some communication lines down. Orange, Sullivan and Ulster counties suffered considerable damage to agriculture with most severe damage to onion harvest, late lettuce (ruined) and corn. Some officials in area estimated the storm was worse than the 1955 hurricane floods. Large streams did not flood. Rockland County was severely hit and considered "worst" in memory. Numerous injuries due to automobile accidents throughout the area.									
Columbia County, near Spencertown	21	4 p.m.	1000				3		Whirlwind type windstorm	
	Freak type wind - whirlwind type - at Helkath farm. Sound like jet airplanes! Lifted small building up and carried it 40 feet; knocked over other buildings and trees. Wind came out of clear sky from northwest to northeast.									
Albany-Schenectady-Troy-Rensselaer area	22	mid-afternoon					5		Heavy rain	
	Heavy rainfall with amounts of 2 inches or more in brief period of time and 2 1/2 inches in downtown Albany area in one hour. Widespread flooding of small streams, low places and streets as storm sewers could not handle the downpour. Water ran to 5 feet or more in some streets and low areas. Creeks in Rensselaer left their banks and took to the streets. Considerable damage to basements (flooding), streets and sidewalks, inundated cars and other property.									
Long Island - Queens area	30	afternoon			2		6		Thunderstorms, heavy rains	
	Three heavy thunderstorms between 1:00 p.m. and 3:30 p.m. dumped heavy downpours on the area in a matter of minutes. Heaviest downpour was around 3:00 p.m. 100,000 commuters delayed by flooding and power failures in the New York City transit system; 12 trains stalled in a steaming hot tunnel under the East River and many riders were revived by oxygen; 16,000 Long Island homes without electricity up to four hours; 35-minute power failure in southwest tip of Manhattan. Water submerged cars - some completely. Highways inundated; at least 32 homes struck by lightning; landslides and collapsed retaining walls. A young boy was sucked into a manhole and drowned and an elderly man was drowned in a flooded basement.									
NORTH CAROLINA										
Caswell County	3	3:30 p					0	3	Hail	
	Scattered light damage to tobacco over one sq. mi.									
Gaston, Mecklenburg, Person Counties	4	afn				0	1	4	4	Electrical, hail, wind, rain.
	Trees blown down on car and house, man injured. Power and telephone lines damaged by lightning and falling trees. Tobacco and corn crop damaged by hail.									
Duplin, Harnett Counties	5	afn						4	4	Electrical, hail, wind.
	Halls of unfinished building flattened. Hail damaged tobacco.									
Samson County	6	unknown					0	3		Hail
	Scattered light damage to crops, mostly tobacco.									
Caldwell County	7	afn				0	1	0	0	Electrical
	Lightning struck water of Lake Rhodes, causing severe shock to man retrieving boat.									
Durham County	10	evening						5	0	Electrical
	Lightning struck and burned Mangum School in Bahama.									
Alexander, Mecklenburg, Richmond, Wake Counties	12	evening				1	0	4	4	Electrical, wind.
	Lightning killed man on steps of church in Hoffman; destroyed or damaged several buildings at widely separated places. Wind caused heavy damage to CAP airplane at Raleigh Municipal Airport. Scattered damage to crops by wind and rain.									
Hartford County	14	evening				0	1	0	0	Electrical
	Lightning struck and severely shocked man at Murfreesboro.									
Cabarrus, Cumberland, Scotland, Stokes Counties	15	afn						4	4	Electrical, hail, wind, rain.
	Several barns destroyed by wind and lightning. Trees uprooted, communications lines disrupted. Rain caused flash flooding on small streams. Hail up to one inch in diameter damaged tobacco crop.									
Franklin County	16	afn				1	1	0	0	Electrical
	One boy killed, another burned, by lightning while standing under tree near Louisburg.									
Yancey County	19	11:45 a						0	3	Hail
	Hail damaged tobacco crop over limited area.									
Randolph County	22	afn & evening						5	5	Rain, Electrical
	Rain up to six inches in a few hours caused flash flooding on small streams in Asteboro-Bandleman area. Several bridges washed away, others damaged; highways rendered impassable for several hours. Dams burst on farm ponds, adding to high water. At least seven autos washed off roads. Several textile mills damaged. Families fled homes when water rose several inches above floor level.									
Madison County	28	4:30 p						0	4	Hail
	Tobacco in fields damaged over about one square mile area.									
Cleveland County	30	4:20 p						0	4	Hail
	Scattered damage to crops, mostly tobacco, over 1 sq. mi.									
NORTH DAKOTA										
Stutsman, LaMoure and Dickey counties	2	Afternoon and Evening						3	5	Tornadoes
Minot	2	Evening				1	3			Tornado
Southwestern counties	6	Evening						3	4	Tornado
Northwestern counties	16	Evening						4	5	Hail and strong winds
Southeastern counties	25	Afternoon and Evening						4	5	Tornadoes
Cass County	30	Evening and Night							5	High winds

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OHIO									
Pike County	4	Early Afternoon	10		0	0	0%		Thunderstorm rain
	<p>A localized "cloudburst" followed a NW-SE path from near Bainbridge (Ross Co) to Waverly. Unofficial estimates of the 3-hour rainfall at Pike Lake ran to 4 1/2 inches, while the official measurement at Waverly was about 2 inches. Serious flash flooding took place along Morgan's Fork, many roads in northwestern Pike County being badly washed. While nobody was drowned or seriously injured there were several "near misses."</p> <p>On the same day heavy localized rains fell at several other places in southern Ohio, among them a 4 inch rain in Ludlow Twp. near Matamoras, where several bridges were severely damaged.</p>								
Cincinnati	9	7 PM			0	2	5		Thunderstorm
	<p>An evening thunderstorm in eastern part of Cincinnati caused flash flooding along Duck Creek and nearby areas, including Coney Island amusement park. 4 1/2 inches of rain was measured in the downtown area. Strong winds and lightning accompanying the storm also damaged roofs, trees, signs, and utility lines. Two people were known to have been injured by lightning strikes, but both survived.</p>								
Dayton	14	8:12 PM							Funnel cloud
	<p>A funnel cloud was sighted by the highway patrol 38 miles southwest of Dayton. It did not touch the ground.</p>								
Marion	21	6:05 PM	5	1/2 mi	0	0	0%		Tornado
	<p>Several funnel clouds were observed in an area between Marion and Prospect, one of which touched the ground. A grove of trees was "tangled" in typical fashion, several farm buildings were destroyed, together with structures at Camp Owen, and utility lines were damaged.</p> <p>"August weather in Ohio was marked by unusually numerous thunderstorms which caused localized damage by wind, lightning, and flash floods. Only the most outstanding cases are reported above."</p>								
OKLAHOMA									
Quspa, 2 miles north, Ottawa County	7	11:15 p.	4	200	0	0	4	0	Tornado, rain
	<p>Tornado exploded restaurant and curb building. Storm moved south-southeastward. Three inches of rain fell in 20 minutes.</p>								
Temple, Cotton County	9	Noon	?	?	0	0	1	0	Tornado
	<p>Tornado touched ground for short period of time just south of Temple. Only damage was to fences.</p>								
Warner, Muskogee County	9	2:57 p.			0	0	0	0	Funnel aloft
	<p>Sighted high in sky by public and pilot.</p>								
Ponca City, Kay County	17	11:00 p.			0	0	4	0	Electrical
	<p>Lightning caused fire which damaged motel.</p>								
Bartlesville, Washington County	20	4:00 p.	?	?	0	0	4	0	Hail, wind, rain, electrical
	<p>A severe thunderstorm with hail up to the size of tennis balls, strong winds, heavy rain and numerous lightning strikes caused general damage over the area. The only hail damage reported was to about 300 automobiles. Heavy rain accumulated on flat roof of a bowling alley causing roof to collapse, possibly caused from blocked drains due to hail. Strong winds damaged utility lines and trees.</p>								
McAlester, Pittsburg County	20	10:45 p.			0	0	4	0	Electrical
	<p>Lightning caused fire which destroyed large metal barn filled with hay.</p>								
Cashion, Kingfisher County	20	p.m.			0	0	4	0	Electrical
	<p>Lightning caused fire that destroyed home and contents.</p>								
Hennessey, Kingfisher County	24	3:30 p.	?	?	0	0	5	0	Wind, rain, electrical
	<p>A severe thunderstorm with strong winds toppled two oil well drilling rigs near Hennessey. Trees and utility lines were damaged by the winds. Heavy rain of 3 to 5 inches fell in the area. Lightning caused damage to homes and utilities. Storm moved southward.</p>								
Jat, Alfalfa County	26	6:00 a.			0	0	4	0	Electrical
	<p>Lightning caused fire which destroyed house and contents.</p>								
OREGON									
Northern Oregon	2-3	Night			0	0	4	3	Lightning
	<p>Fairly severe lightning storm started large number fires in northern Oregon forests. Mostly less than acre but two exceeded 50 acres each.</p>								
OREGON (Cont'd.)									
Northeast and East Central Oregon	9-10	Night			0	0	4	4	Lightning
	<p>Numerous lightning strikes in northeast, east central forests started numerous fires three of which burned over a total of more than 3,000 acres. Some farm buildings, power installations damaged; sizable acreage range grass land burned over.</p>								
Mouth of Columbia River	21	Morning			2	0	3	3	Wind
	<p>Sudden storm moved in on Oregon coast with strong winds overturned small boat in mouth of Columbia drowning two men occupants.</p>								
PENNSYLVANIA									
Chester & Delaware Counties	8	Night					4		Thunderstorm
	<p>Lightning fired a barn destroying structure and contents. Lightning also struck a power transformer resulting in \$700 loss.</p>								
Schuylkill & Carbon Counties	29	Night				1	5		Thunderstorm
	<p>Lightning struck numerous buildings, setting fires to a few. One woman was injured when struck by lightning.</p>								
Southeastern Counties	31	3-6 A.M.					5		Thunderstorm
	<p>Lightning fired numerous barns and several bolts struck utility poles and residences. One radio station was knocked off the air for almost an hour from a lightning strike. Two horses were killed by lightning.</p>								
PURTO RICO									
Yauco	2				1	0	0	0	Thunderstorm
	<p>A nine year old boy was killed by lightning when he crawled beneath his house to get out of the rain. His sister who was with him under the house when the bolt hit was not harmed.</p>								
RHODE ISLAND									
Warwick; Kent County	15	Even			0	0	3	0	Wind
	<p>Strong gusts of wind caused \$1800 damage to home.</p>								
Woonsocket; Providence County	15	Even			0	0	3	0	Lightning
	<p>Brief fire in 20,000 gallon tank containing 2000 gallons of toluol set by lightning. Damage confined. Serious damage to home caused by lightning.</p>								
Foster, Rumford; Providence County and Warren; Bristol County	30	4:15p to 6:00p (EDT)			0	0	4	0	Lightning
	<p>Lightning strikes set fires which destroyed a home in Foster, damaged a home in Rumford and a barn in Warren.</p>								
Warren, Bristol, Barrington; Bristol County and Middletown, Portsmouth, Newport; Newport County	30	4:30p to 5:30p (EDT)			0	0	3	0	Lightning
	<p>Lightning smashed transmission lines and knocked out power.</p>								
SOUTH CAROLINA									
Laurens (3 SE) Laurens County	3	5:30 pm	-	-	0	0	3	0	Windstorm
	<p>Severe thunderstorm. Area of damage about 200 ft. in diameter.</p>								
Newberry County	8	Late aftn.	-	-	0	0	1	0	Wind and hail
Anderson, Anderson County	9	3:00 pm	-	-	0	0	3	0	Windstorm
	<p>Severe thunderstorm, excessive rain of short duration caused toppling of trees, interruption of public services and some fires from lightning.</p>								
Kingstree, Williamsburg County	9	Night	-	-	0	0	1	0	Lightning
Jefferson (6 W) Chesterfield County	9	Night	-	-	0	0	3	0	Windstorm
	<p>Extremely high winds uprooted trees, damaged roofs and moved some buildings from their bases.</p>								
Greenville County	15	4:14 pm - 4:33 pm	-	-	0	0	3	0	Thunderstorm
	<p>Severe thunderstorm with hail and lightning interrupted service and damaged some property.</p>								

See reference notes at end of table.

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
SOUTH CAROLINA (Cont'd.)									
Pinopolis, Berkeley County	15	2:15 pm	-	-	0	0	0	0	Funnel aloft
Hartsville area, Darlington County	15	Aftn.	-	-	0	0	0	3	Hail Tobacco in the area suffered when hail stripped leaves from tobacco stalks.
SOUTH DAKOTA									
Northeast	2	Late P. M.					5		Hail, wind
South Central	4	Early P.M.					5	5	Hail, wind, tornado (possible)
Southeast	5	Early P.M.			1	5	5		Hail, electrical, wind
Western third	5-6	Late P. M. of 5th to Late A. M. of 6th			1	5	6		Hail, electrical
East Central	13	3 to 6 P.M.					4	4	Hail
Dupree, Ziebach County	16	Late P. M.					3		Electrical
Carthage, Miner County	17	11 A.M.							Funnel cloud
Sanborn, Miner and Hanson Counties	18	11 to 12 A. M.							Funnel clouds
A total of four funnel clouds reported: near Carthage and Howard, Miner County, Artesian, Sanborn County and in northern Hanson									
SOUTH DAKOTA (Cont'd.)									
Wentworth, Lake County	19	1 P.M.							Funnel cloud
Minnehaha County	19	Afternoon						3	Hail
Butte County	22	Afternoon						3	Wind
East Central and Northeast	23	P.M.					4	5	Wind, electrical
Stanley County	24	6 P.M.	15	200	1		4°		Tornado
Central and South Central	24	Late P. M.					5	4	Hail, wind, electrical, rain
Central and Northeast	25	A. M.						4	Electrical, wind
Northeast	27	A. M.						4	Electrical
TENNESSEE									
Oak Ridge, Anderson County	7	4:50 p.			0	1	0	0	Lightning
Clinton, Anderson County	7	?			0	0	?	0	Rain and flash flood
Rockwood, Roane County	9	2 p.-3:30 p.			0	0	?	0	Rain and flash flood

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<u>TENNESSEE (Cont'd.)</u>									
Dayton, Rhea County	9	afternoon			0	1	0	0	Lightning
									Lightning striking nearby entered a home, stunning but not seriously injuring a woman.
Oak Ridge, Anderson County	10	3 p.- 8 p.			0	0	?	0	Rain and flash flood
									7.45 inches of rain in 24 hours, highest of record at the Oak Ridge (Townsite) station, caused flooding of streets and minor damage to some business houses. 7.43 inches of the total fell in 3 hours; 3.43 inches in one hour.
Callista Community, Robertson County	17	3- 3:20 p.	?	?	0	0	4	4	Tornado and hail
									Winds wrecked two tobacco barns, blew half the roof from one house and damaged another, blew a garage over and damaged farm out-buildings. Hail caused considerable damage to crops, mainly tobacco. Residents of the area reported seeing two dark clouds converge after which a funnel formed and swooped down, skipping across the area. Sheets of torrential rain and hail followed.
Dandridge (and vicinity), Jefferson County	19	late afternoon	8	* 2	0	0	0	5	Hail and wind
									A severe wind and hail storm centered at Dandridge and lasting only about 10 minutes severely damaged tobacco and other field crops. Hailstones were reported to have been "not too large".
Maynardville, Union County	19	?			1	1	0	0	Lightning
									A woman was killed when lightning struck near a corn crib in which she and her 7 year old daughter had sought shelter. The daughter was seriously injured.
Nashville, Davidson County	21	7 p. (approx)			0	0	6	0	Lightning
									Lightning ignited a college building destroying the third and fourth floors. The bottom 2 floors received extensive smoke and water damage. Damage to the building amounted to \$350,000. Furnishings and equipment (including 20 grand pianos) destroyed were valued at \$150,000.
Sweetwater, Monroe County	31	4:45 p.			1	0	0	0	Lightning
									Lightning struck and killed a man unloading tobacco from a wagon at his barn.
<u>TEXAS</u>									
10 SE Victoria	1	10:53 a.							Funnel aloft
Fort Stockton	6	6:30 p.- 6:50 p.			0	0	5	0	Wind
									Four cotton warehouses badly damaged, with tin from warehouse roofs and walls blown over wide area. Several power lines, and telephone lines knocked down. Several television antennas twisted and windows smashed. A heavy rain shower accompanied the storm.
15 SE Beaumont	7	8:27 a.- 8:37 a.							Funnel aloft
									Sighted over Lake Sabine.
Beaumont (near)	8	12:10 p.- 12:11							Funnel aloft
									Observed 10 ENE Beaumont airport.
Corpus Christi	8	11:00 a.- 11:05 a.	**50	17	0	0	3	0	Tornado
									Small tornado occurred NW portion of city. Storm moved from South-east toward Northwest. Corrugated iron siding and roof blown off one building into two other houses across the street. Planks blown through roofs and sides of these houses.
Beaumont (near)	10	15:19 p.							Funnel aloft
									Observed 8 NE Beaumont airport.
10 W Terminal	10	10:50 a.							Funnel aloft
3 SE Rockport	11	12:15 p.- 12:25 p.			0	0	0	0	Waterspout
Corpus Christi	14	10:48 a.							Funnel aloft
									Observed 3 SE Corpus Christi airport.
McMillen County	15	9:55 a.							Funnel aloft
									Observed N of Callham.
Lamb County	16	5:30 p.- 6:30 p.	9	*3	0	0	0	5	Hail
									Heavy damage to cotton in 2x3 mile strip NW of Olton. 900 acres covered to depth of 1 1/2", average diameter stones 3/4". Heavy rain and strong winds accompanied the storm which moved from Northwest to Southeast.

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<u>TEXAS (Cont'd.)</u>									
Freestons County	16	3:30 p.- 4:00 p.	5	*1	2	0	0	0	Wind
									Sudden squall with winds estimated between 40 and 50 mph, caused small boat to capsize on Teague City Lake, near Teague, causing a mother and her 11 year old daughter to drown. Storm moved from South toward North with strong winds over an area 5x1 miles.
Beaumont (near)	18	12:50 p.							Funnel aloft
Fort Neches	19	1:05 p.- 1:10 p.	1/4	20	0	0	3	0	Tornado
									Struck small area on west side of city. Several concrete blocks from tourist court carried nearly 200 yards. Several reports of hearing a roaring sound.
Roberts County	20	night			0	0	2	4	Hail
									Caused severe damage to grain sorghum in a narrow strip between 5 and 9 miles West of Miami. Window panes broken and shingles blown off several farm homes. Heavy rain and strong winds accompanied the storm.
Gray County	20	evening			0	0	0	4	Hail
									Severe damage to cotton, sorghum, and watermelon crops on 200 acres south of McLean.
4 NW Seguin	20	6:00 p.	short narrow		0	0	3	0	Tornado
Canadian	20	5:30 p.- 6:00 p.			0	0	1	0	Electrical, Hail
									Lightning through electrical wiring set fire to a home. The fire was quickly extinguished and damage negligible. A small amount of 3/4" hail fell, but caused no damage.
Frisco, Collin County	21	1:55 p.							Funnel aloft
Tarrant County	21	afternoon							Funnel aloft
									Sighted between Hurst and Arlington.
10 NE Waco	21	7:30 p.							Funnel aloft
Lake Dallas, Denton County	21	3:15 p.	1/4 narrow		0	2	4	0	Tornado
									Two small store buildings destroyed and one home severely damaged in Lake Dallas Community. Six people were in one building when roof caved in and concrete block wall tumbled down. Two persons injured by flying glass and falling roof timbers. Tornado sent portion of roof flying across vacant lot and into residence. Other store building destroyed was 300 yards away. Tornado moved from Northwest toward Southeast. Heavy rain accompanied the storm severely restricting visibility.
10 NE Galveston	26	8:45 a.							Funnel aloft
Galveston County	26	2:40 p.- 3:00 p.							Funnel aloft
									Sighted South of Ellington APB.
<u>UTAH</u>									
Northern and western portions	22				0	12	5		Wind
									An intense cold front, accompanied by winds up to 69 MPH, moved across the State causing extensive damage to power lines, buildings, and trees. Blowing dust contributed to a car-truck accident in Salt Lake County in which six persons were injured. Two boys were hurt in Weber County when an uncompleted house was blown down. Four persons in Tooele County were injured in an accident due to auto going out of control in strong winds.
<u>U.S. VIRGIN ISLANDS</u>									
									NONE
<u>VERMONT</u>									
Windser	15	P.M.			0	0	3	0	Electrical
									Lightning killed a former National Morgan Horse Show Grand Champion.
Southeastern portion	22	P.M.			0	0	4	0	Rain
									Heavy rains washed out some roads, sidewalks, and soil. Nearly one inch rainfall was reported in 20 minutes near Halifax and two inches in less than one hour at Springfield. Both are unusual rates of fall.
<u>VIRGINIA</u>									
Richmond and the counties of Henrico, Goochland, Fluvanna, Hanover & New Kent	4	Afternoon & Evening			0	0	?	?	Thunderstorms.
									Winds in thunderstorm toppled many trees, one on an automobile. A garage was removed from its foundation in Henrico County and a front porch was lifted from a home in Richmond and deposited in a back yard. Falling trees blocked some roads. Lightning interrupted power and caused a number of small fires. Fires set by lightning destroyed a barn and home in Fluvanna County. Flash flooding interrupted highway traffic at several spots.

See reference notes at end of table.

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (FAROS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
VIRGINIA (Cont'd.)										
Richmond	6	Late afternoon	-	-	0	0	5	0		Heavy Rain.
Torrential rains from thunderstorms caused severe flash flooding in Metropolitan Richmond's West End, primarily in Lakeside, Tuckahoe and other sections drained by Urban Branch. Damage is estimated at over \$200,000. 101 homes had water above floor level. Unbridled flooding of foundations and basements occurred.										
Shenandoah - Verbena Park Area	6	1:00 pm	2	?	0	0	?	0		Tornado
Near Rockingham County-Page County line a tornado crossed over the valley near Shenandoah, moved a trailer home 21 feet and destroyed it, moved a number of buildings off their foundations, unroofed a barn, twisted tops out of many trees and downed others.										
Campbell, Appomattox Counties	6	Afternoon	-	-	0	0	?	?		Thunderstorms
Thunderstorms with high winds, some hail, and lightning, caused scattered damages in these two counties. East of Altavista, lightning caused over \$3,000 damage to an outbuilding and occupants. Hail damage was surprisingly light and mostly to tobacco crops.										
Richmond Area	7	Night	-	-	0	0	?	0		Thunderstorm
Heavy rains caused minor brief flooding with only slight damage. Traffic impeded on streets, some erosion. Lightning knocked out utilities and caused a number of small fires, although falling limbs in high winds was responsible for some of the utilities disruption.										
Tidewater, Middle Peninsula	8	Late afternoon & Night	-	-	0	0	?	?		Thunderstorms
High winds in thunderstorms downed a number of trees, some across utility lines, to cause widespread utility disruption in counties of King William, King & Queen, Mathews, and Gloucester. Lightning and heavy rains contributed to the utility outages. Scattered light damages were inflicted on numerous buildings and dwellings.										
Pittsylvania County	9	Afternoon	-	-	0	0	?	?		Thunderstorm
High winds in the thunderstorm toppled several trees with resulting damage, blew down television antennas and broke leaves from plants of tobacco fields. A packing barn was unroofed and lightning set fire to a home.										
Hampton Roads	12	Early Morning	-	-	0	0	?	0		Heavy rain.
Thunderstorms with torrential rains, high winds and lightning lashed the Newport News, Portsmouth, Norfolk and Virginia Beach areas early this morning. Widespread flash flooding suspended traffic, damaged roads, submerged automobiles. Sewers overflowed and floors of many buildings were flooded. High winds toppled many trees with scattered resulting damages, principally to disrupting communications and power facilities. Lightning caused several small fires.										
Henry County	13	5:00 pm	-	-	0	0	?	?		Heavy rain.
A late afternoon thunderstorm dropped torrential rains causing serious but brief localized flooding. Much of the resulting damage was the cleaning up of mud and debris from streets, roads and private property along with erosion of road beds. However in one instance alone, a creek overflowing caused several thousands of dollars damage.										
Waynesboro & Vicinity	15	Late afternoon	-	-	0	0	4	?		High Wind.
Several thunderstorms, with high winds and heavy rains, swept through parts of eastern Augusta and western Albemarle Counties, causing damages into the thousands of dollars. Heaviest damage reported was in the Weyers Cave area where a huge loaded barn was moved from its foundation and destroyed, a loss estimated at about \$20,000. In other sections, fruit trees were blown down with some loss of fruit. Some power interruptions were attributable to both wind and lightning.										
Winchester Area	30	Late afternoon	-	-	0	0	4	?		Lightning
A thunderstorm with heavy rains, some wind, and an almost incessant display of lightning was responsible for a variety of damages mostly from lightning. Fire set by lightning destroyed a home and numerous smaller fires were reported. Interruption of power and telephone service were common and flooding of streets suspended traffic.										
WASHINGTON										
Eastern Washington	2-3				0	0				Thunderstorms
Several forest fires were started by lightning in the timber covered mountainous areas of northern and southeastern Washington. Power outages occurred in some localities along the eastern border of the State.										
Entire State	22				0	0				Thunderstorm
Power outages were reported in all areas of the State as the result of lightning. A barn in southwestern Washington, and a rather large supply of hay in the Methow Valley were destroyed by lightning-caused fires.										
Seattle	25				0	1				Thunderstorm
One person was injured when lightning struck a residence near Seattle.										
WEST VIRGINIA										
	3-4				1	0	4	4		Rain
A series of severe thunderstorms giving excessive rainfall up to 5 inches locally within 6 hours, in a zone from Bens Run area ESE to the Salem area, caused local flash flooding mostly during the morning of the 4th.										
WISCONSIN										
Southern Counties	3						5	5		Wind, Rain, and Hail
A squall line with strong winds, heavy rain, and hail crossed over the southern third of the state during the morning and afternoon. It was one of the most destructive storms in years to trees and power lines. Particularly hard hit was the area south and east of Madison. Hail the size of golf balls fell on numerous localities. Considerable local flooding resulted from the heavy rains.										
Reeseville, 3 S	8	4:00 p.m.						3		Tornado
Tornado touched down and took the roof and a wall of the Leader Cheese Factory. Also touched down momentarily 1 mile northwest. Travelled from northwest to southwest.										
Green Bay	13	8:55 p.m.								Funnel
Just north of airport.										
Madison, 40 NW	20	10:00 a.m.								Funnel (Unconfirmed Tornado)
Believed to have briefly touched ground at 10:35 a.m.										
Milwaukee, 20 NW	20	3:00 p.m.								Funnel
Lone Rock, 15 SE	20	4:05 p.m.								Tornadoes
Two funnel clouds briefly touched ground.										
Northwestern Counties	27						5			Wind, Rain, Hail
Washed out roads, bridges, and blew down power lines.										
Medford, 3 N	27									Tornado
Touched down briefly. Slight damage to wooded area.										
Sparta, 8 N	28	3:30 p.m.					4			Tornado
Barn and adjacent farm buildings.										
Green Bay, 60 WSW	28	8:10 p.m.								Funnel
Green Bay, 25 SW	28	8:40 p.m.								Unconfirmed Funnel
Green Bay, 45 SW	28	Unknown								Funnel
Between Oshkosh and Fond du Lac.										
WYOMING										
Midwest	13	11:00 a.			0	1				Lightning
Jackson	15	afternoon					4	4		Hail
Torrington	21	2:00 p.	?	?	0	0	2	0		Tornado
Small tornado touched down, damage to chicken house and sheep shed.										
Lusk	22	5:00 p.			0	1	4	0		Wind
CONNECTICUT										
Bethlehem, Watertown, North Woodbury, Litchfield County	15	4:00p to 6:00p (EDT)			0	0	4	3		Wind, rain and lightning
Six small trees toppled by wind, 100 feet of roadside washed out in Bethlehem. Washouts resulted from 2 1/2 inches of rain in a short period at North Woodbury and lightning hit caused considerable damage to a home in Watertown.										
Waterbury, New Haven County	15	Evening			0	0	2	0		Lightning
Lightning hit home. No fire resulted.										
Moosup, Windham County	15	PM			0	0	2	0		Lightning
Lightning hit power station with resultant minor damage.										

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED [†] DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
CONNECTICUT (Cont'd.)									
Statewide	30	3:00p to 6:00p			0	0	5	4	Wind, rain, hail and lightning
<p>In Middlesex County, a \$10,000 garage fire was set by lightning in Middletown, two homes were hit with resultant minor damage and hail the size of quarters was reported in Haddam and Higgamum.</p> <p>In New Haven County, heavy rains caused washouts of streets and sidewalks resulting in \$100,000 damage in Ansonia, caused a \$30,000 loss to a printing firm in Derby while lightning destroyed a \$12,000 barn and set two small fires in homes in Woodbridge. Lightning also struck 3 homes and a school with minor damage in West Haven. A school was also hit with slight damage in Hamden. Lightning hit 4 homes and a transformer in Ansonia, all with minor damage; set a \$7000 blaze in a home in North Haven and hit 2 houses and a school in Mount Carmel, where small floods and sheet erosion also occurred. Several trees were felled by lightning and wind toppled one which damaged a home in Ansonia. In Orange a falling tree damaged two automobiles.</p> <p>In Fairfield County lightning strikes started small fires in homes in Harten and Byram. In Riversdale a home was also hit but no fire resulted.</p> <p>In Hartford County one inch hail was reported in Bristol. Violent rain, wind, and hail felled small trees in Eagleville and Mansfield, Tolland County and in Chaplin, Windham County. Much soil erosion occurred in Windham County. Lightning struck several trees in Norwich, New London County.</p> <p>Power failures were reported in New Haven, Middletown, Higgamum, Haddam, North Haven, Hamden, East Haven, Bethany, Orange and Woodbridge and many short communication failures in various locations occurred.</p>									
INDIANA									
Northern	3	A.M.			0	4	4	3	Rain, wind, lightning
<p>Two squall lines passed through northern Indiana. The Fort Wayne Weather Bureau tracked one of the squall lines on radar moving as fast as 65 miles an hour. Blinding rain drove motorists off the Northern Indiana Toll Road. Lightning struck a house at Frankfort with explosive action injuring one person. A plant guard at Valparaiso was shocked by lightning and two people were injured by lightning in Indianapolis. A fire caused by lightning destroyed a house worth \$15,000 near New Carlisle. One person was injured in South Bend when wind broke a plate glass window. A seiche raised the water as much as four feet near the southern end of Lake Michigan but loss of life along the beaches was prevented by police action as the result of the first forecast of a seiche by the Weather Bureau.</p>									
Posey County	20	3:42 P.			0	3	3	3	Wind, rain
<p>High winds struck the southern half of the county. Three people were injured by flying glass. Many trees crashed to the ground cutting power lines. Some house roofs were damaged by the gusty winds. Heavy rain damaged some crops.</p>									

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED [†] DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MARYLAND									
Northern Central Maryland and Chesapeake Bay Area	3	P.M.			2	0	*4	C	Thunderstorms & Lightning
<p>Thunderstorms, lightning and heavy rain caused considerable damage from Frederick to the Chesapeake Bay, hitting hard in the Baltimore and Washington metropolitan areas. In the Frederick area telephone service was affected more than electrical services with 94 lines in the County out of order and 24 stations not operating properly. Tree limbs breaking and falling over lines was the principal cause of trouble to utilities; however, a great deal of damage was caused by lightning. In the Washington area electrical power was knocked out in more than 12,000 homes as lightning struck substations and transformers. In the Baltimore area only about 300 telephones were out of order with scattered sections cut off from electrical service as lightning snapped power poles or trees fell across power lines, etc. Gale-force winds churned up the Chesapeake Bay and swamped or damaged some small boats. One fisherman was drowned when his boat capsized in the storm and another apparently was swept overboard by winds or waves. Lightning struck several homes in the Washington area.</p>									
Montgomery Co., Md. and Washington, D.C.	4	P.M.			0	0	*5	C	Thunderstorms, Lightning and Heavy Rains
<p>A flash flood in lower Montgomery County from 8:00 to 9:00 P.M. EST left hundreds of motorists stranded as highways were covered with 4 to 6 inches of water and mud. In the Bethesda-Chevy Chase area the lower walls caved in on several houses caught in the flood path. The worst floods occurred at the upper Massachusetts Avenue bridges, on Bradley Blvd. at the railroad tracks, and at the intersection of East-West Highway and Glenale Road. Trees and wires were blown down all over the lower county. Basements were flooded in some sections. Lightning struck several homes and numerous trees were uprooted by the strong winds.</p>									
Howard County, Md.	10	A.M.			0	0	4	0	Lightning
<p>A barn four miles west of Elllicott City was destroyed by lightning.</p>									
DELAWARE									
New Castle County	15	P.M.			0	0	*4	C	Thunderstorm
<p>A freak storm demolished two house trailers, knocked over trees, damaged roofs, and knocked out electrical power in the Marshallton area. The same storm hit a larger area of New Castle County with high winds, rain, lightning, and falling tree limbs. Electric power was cut from about 2,000 homes, and telephone service from about 500 homes. Part of the roof was blown off of a barn and some small buildings were demolished or damaged.</p>									

- * Miles instead of yards.
- ** Yards instead of miles.
- † 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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