

U. S. DEPARTMENT OF COMMERCE

LUTHER H. HODGES, Secretary

WEATHER BUREAU

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STORM DATA

AUGUST 1961

Volume 3 No. 8



ASHEVILLE: 1961

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
ALABAMA									
Mobile	22				1	0			Lightning Youth struck by lightning while playing in school yard.
ALASKA			NONE REPORTED						
ARIZONA									
Gila Bend	4	4:45 p.			0	0	4		Wind and rain About \$14,000 damage to homes and businesses, nearly all by wind.
Yucca	4	6:00 p.			0	0	4		Wind About \$50,000 damage to buildings at the Ford Motor Co. Arizona Proving Ground. Recording anemometer registered 61 mph before being destroyed by wind.
Marana	6	Evening			0	0	5		Lightning A fire started by lightning destroyed about \$150,000 worth of agricultural machinery.
Mesa and Scottsdale	18	Evening			0	0	5		Wind and rain About \$10,000 damage to stores and residences, mostly by wind.
Ajo	20	1:00 a.			0	0	5		Wind and rain An estimated \$10,000 damage to homes and businesses, nearly all by wind.
Tucson	22	9:00 p.			0	0	5		Rain and wind An unusually heavy rainstorm hit the Tucson area about 9 p.m. bringing over 2 inches of rainfall in one hour. The heavy runoff produced by the storm caused severe damage to roads and property. Water damage was as follows: about \$100,000 to city streets, and \$200,000 to county roads; about \$25,000 to personal property, most of which was to automobiles caught in flash floods. Wind damage to structures about \$25,000.
Pine	23	Early morning			0	0	2		Hail Hailstones 1 to 1-1/2 inches in diameter fell. No commercial crops in area, but heavy damage to domestic gardens.
ARKANSAS									
Clay and Greene Counties	5	3:00 p. to 4:00 p.	4	* 2	0	0	7	4	Hail The storm hit extreme Southeastern Clay County and Extreme Northeastern Greene County, in the Mounds Community, to the south of Hector in Clay County. Principal damage was to cotton and soybeans. There was some property damage but no estimate of the monetary loss is available.
Mississippi County	5	4:00 p. to 5:15 p.	7	* 7	0	0	4	6	Hail, wind The storm moved from 3 miles north of Dell, southeastward to Lumbra in East-Central Mississippi County. Stones averaged one-half inch in diameter, with some reported to be as large as two inches in diameter. Principal hail damage was to cotton and soybeans. There was some hail and wind damage to roofs and some trees were destroyed or damaged by wind.
Lawrence County	5	Late afternoon	3	880	0	0	0	4	Hail The storm moved southeastward over Northeastern Lawrence County. Stones averaged one-half inch in diameter, with some to two inches in diameter reported. Principal damage was to cotton and soybeans. Fifty geese were killed.
Jackson, Poinsett and Cross Counties	5	5:00 p. to 6:00 p.	28	* 6	0	0	4	6	Hail, wind The storm moved southeastward from a point in extreme East-Central Jackson County through Southwestern Poinsett County to a point near Fisher, to the north of Wynne in Central Cross County. Hail stones, some of which were reported to have been "larger than golf balls", were carried by a high wind. There was extensive damage to soybeans, cotton and rice with 100% of the crops destroyed in some areas. There was considerable wind damage to farm houses, barns and other buildings. Hail also caused considerable property damage, principally to roofs. Many trees were completely defoliated.
Lenoche County	5	7:45 p. to 10:00 p.	8	* 2 1/2	0	0	4	5	Hail, wind The storm moved southeastward from near Blakemore in Southeastern Lenoche County. Stones averaged 5/8 of an inch in diameter with some to one inch or more in diameter. Principal crop damage was to cotton and soybeans. There was considerable wind and some hail damage to farm buildings along the path of the storm.
CALIFORNIA									
Southern California	3-5				0	0	5	0	Thunderstorms Thunderstorms damaged utilities, buildings, and highways.
North Coastal Mountains and Sierras	6-7				0	0	4	0	Thunderstorms Thunderstorms started numerous forest fires and damaged highways and utilities.
All California	11-13				0	0	4	5	Thunderstorms Thunderstorms damaged homes and highways, disrupted utilities, and started numerous fires. The storms were particularly severe in the San Fernando valley. Showers resulted in substantial losses to grape growers from mildew.
Southern California	17-19				0	0	4	0	Thunderstorms Highways, utilities, and homes damaged by wind, heavy rain, and lightning.
Mojave Area	23				0	0	4	0	Thunderstorms Highway travel interrupted; at least 20 cars trapped by high water and mud, some occupants waiting as long as 10 hours for rescue. Railroad tracks blocked by debris for 12 to 18 hours.
COLORADO									
South of Denver area	1	2:48PM			0	0			Funnel cloud A pilot reported a funnel cloud, 30 miles south of Denver, dropping 300 feet from a cloud base but not touching ground.
Teller County	7	Late aft.			0	0	* 3	C	Hail Hailstones, some as large as golf balls, pelted the Cripple Creek-Victor area, doing considerable damage to roofs, windows, automobiles, signs and vegetation. This storm was considered the worst in 10 years.
Kiowa County	8	7:00PM			0	0	3		Wind A severe wind storm preceding heavy rain at Brandon, blew grain bins and small buildings away, and damaged other buildings. A tornado was reported but unconfirmed.
Pueblo County	8	6:30PM			0	0	4	6	Hail and wind Wind driven hail in the Avondale area east of Pueblo destroyed vine crops and damaged corn, beans and hay crops. Trees were uprooted and roofs, windows and buildings damaged.
West of Denver	11	1:02PM			0	0			Funnel cloud A pilot reported a funnel cloud 8 miles south of Loveland Pass, (30 miles west southwest of Denver).
Fort Collins	18	7:10PM			0	0	* 5	C	Heavy rain, wind and hail A heavy rainstorm accompanied by high wind and hail caused much damage to property and crops. Wind up to 60MPH, with hail and rain (2.68 inch) pelted the city for 1 hr. 46 min. Many basements in the business and residential areas were flooded. Power lines were damaged and many trees were uprooted. Hail was small but damaging because of the high wind. Damage from flooding 40%, wind 30% and hail 30%.
East Central Colorado	20	5:20PM			0	0			Funnel cloud A funnel cloud was reported 48 miles west of Colorado Springs.
Denver area	26	Afternoon			0	2	3		Wind Wind blew in the walls of a warehouse under construction in Denver. Two workmen suffered a fractured foot and body bruises.
South Park area	27	3:25PM			0	0			Funnel cloud A funnel cloud was observed 15 - 20 miles northeast of Buena Vista over mountainous terrain. It could not be determined if the cloud reached the ground at any time. The funnel dissipated about 10 minutes after it was first sighted. The parent cloud was observed to move eastward, leaving a strip of hail through South Park.
CONNECTICUT									
Fairfield, Tolland and Hartford Counties	29	4:00p to 10:00p (EDT)			0	0	4	5	Hail, Wind, Lightning Squall line with numerous thunderstorms caused winds which felled trees in West Hartford and Greenwich and caused power failures in Greenwich, Danbury, Bethel and New Fairfield. Winds reached 75 mph in Greenwich. Many lightning strikes recorded. Hail of various sizes fell in Willimantic, East Hartland, Simsbury, Glastonbury, Stratford, Danbury, New Fairfield and Bethel; reached 3/4 inches in diameter in Windsor Locks, Windsor and East Windsor while hailstones 1-5/8 inches in diameter were recorded at Saugatuck Reservoir. Hail caused \$100,000 tobacco crop loss in Windsor and East Windsor.
DELAWARE			None reported						

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
FLORIDA										HAWAII										None reported
Ft. Lauderdale Broward Co.	2	4:00 p.							Funnel Cloud	IDAHO										
Daytona Beach Volusia Co.	7	4:30 p.							Funnel Cloud	Minidoka County	7/31	2:25 p.			0	0				Tornado
Vero Beach Indian River Co.	7	4:40 p.							Funnel Cloud	Barnock, Power, Cassia Counties	8/6	3:55 p.			0	0				Observed by pilot at estimated 25 miles from funnel cloud that apparently touched the ground.
Alligator Point Franklin Co.	8	10:50 a.							Waterspout	Barnock County	12	Evening				4	4			Extreme turbulence associated with thunderstorms
Valpariso Okaloosa Co.	8	10:30 a.							Waterspout	Payette	15	6:00 a.			0	0	4			Rapid Creek overflowed Buckskin Basin flooding farm land followed by flooding of Greer Canyon area near Inkon where grain, hay, and buildings damaged heavily.
Tampa Hillsborough Co.	11	8:00 p.							Waterspout	Twin Falls	16-17	6:00 a. - 12:15 a.			0	0	4			Lightning fire destroyed residence. Streets flooded, power and telephone outages and a valuable horse killed by lightning.
Lutz Hillsborough Co.	12	Evening			1	0			Lightning	Bonnors Ferry Area	24	Evening			0	0	5			Heavy rain, Lightning
Orlando Orange Co.	13	2:45 p.							Funnel Cloud	Canyon and Ada Counties	25	2:00 p. - 3:00 p.			0	0	4			Strong wind, Rain
Jacksonville Duval Co.	13	4:15 p.							Funnel Cloud	ILLINOIS										
Miami Dade Co.	13	3:00 p.							Funnel Cloud	Amboy	1	morning			0	0	4			electrical
Ft. Lauderdale Broward Co.	15	11:00 a.							Funnel Cloud	Near Minonk	1	12:44 p			0	0	0	3		Lightning set fire to barn which was destroyed with contents. Nearby home also struck.
Miami Dade Co.	15	2:00 p.							Funnel Cloud	Chicago area	1	afternoon			0	0	4	0		Small tornado leveled about 60 rows of corn
New Port Richey Pasco Co.	16	Afternoon			0	1			Lightning	Kampsville	1	evening			0	0	0	0		Over 2 inches of rain flooded viaducts, basements
Ft. Lauderdale Broward Co.	16	7:30 a.							Waterspouts (2)	Urbana	1	afternoon			0	1	4	0		Over 5 inches of rain caused local flooding destroying one home and causing considerable property damage
Hollywood Dade Co.	17	Afternoon			0	2			Lightning	Central and northern Illinois	4	morning			0	0	0	0		High winds blew canopy over at swimming pool seriously injuring youth. A light aircraft was turned over as it taxied at University of Illinois airport.
Tampa Hillsborough Co.	17	2:45 p.							Funnel Cloud	Northern Illinois	4	afternoon			0	3	4	5		High winds felled trees and utility lines in central and northern Illinois. 17 tents blown down at McLean county fairgrounds. Lightning knocked out electrical service and struck several homes in Chicago area. At Lanark 300 acres of sweet corn flattened by winds and rain.
Miami Dade Co.	17	5:00 p.							Funnel Clouds (2)	10 SW to 15 SSW Springfield	5	2:08 - 2:14 a	5		0	0	0	0		Small tornado leveled about 60 rows of corn
Daytona Beach Volusia Co.	21	11:00 a.							Waterspout	Southwestern Illinois	5	morning			0	0	4	5		Extensive damage to orchards, corn, tomato and bean crops by golf-ball sized hail particularly in Griggsville, Pittsfield, Valparayer and Palta areas. Hailstones up to 2 inches in diameter reported in Edwardsville and Collinsville areas
Longboat Key Sarasota Co.	22	8:45 a.							Waterspouts (2)	Southwest Illinois	9-10	night-morning			0	0	6	6		Heavy rains of 6 inches or more at several locations caused flash flooding in extensive areas of southwest Illinois adjacent to the Mississippi river. At Hillview a broken levee flooded 50 homes with 7-10 feet of water. Lightning burned barns at Hempser and New Canton. Many highways and underpasses closed throughout the area. Heavy damage to property and crops in the Alton, Carlinville, Quincy and Edwardsville areas in one of the worst floods since 1926.
Mayport Duval Co.	26	11:30 a.							Waterspout											
Jacksonville Duval Co.	26	11:30 a.							Funnel Cloud											
Sarasota Sarasota Co.	29	11:00 a.							Funnel Clouds (2)											
Deland Volusia Co.	29	1:00 a.	1/2	60	0	0	4	0	Tornado											
Rubonia Manatee Co.	31	Late Afternoon	1/2	20	0	0	3	0	Tornado											
																				Tornado moved southwestward.
GEORGIA																				
Athens, Clarke County	1	7-9 p.			0	1	4	0	Wind, rain and electrical											An unusually heavy thunderstorm with excessive rain and strong winds caused widespread minor damage in the Athens area. Trees were uprooted and electric and telephone service was interrupted in parts of the City. Eleven fires were started by lightning and one house burned down. One woman suffered injury when lightning struck her home.
30 miles WSW of Macon	1	8:50 p.							Funnel cloud											Sighted and reported by civilian jet aircraft.
SSE of Augusta	8	11:20 p.							Funnel cloud											Pilot reported funnel cloud protruding from cloud base.
Griffin, Spalding County	21	p.m.			0	0	4	0	Wind, rain and electrical											Excessive rains, wind and lightning caused damage in much of City. Over four inches of rain fell in less than eight hours causing many streets and some homes to be flooded. Trees uprooted by wind and telephone and electric service disrupted by wind and lightning.
Hinesville, Liberty County	22	2:30 p.			0	0	5	0	Electrical											A lightning started fire completely destroyed a commercial building housing three separate businesses in downtown Hinesville.

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ILLINOIS (Cont'd.)									
Central Illinois	11	early			0	0	5	5	rain, wind, electrical
									Heavy rains, over 5 inches at several locations, flooded large areas of farmland with much crop damage. High winds did damage in Findlay and Newton knocking down trees and utility lines. A farmhouse was destroyed by fire when struck by lightning northeast of Newton.
15 southeast of Rockford	16	5:55 p			0	0	0	0	two funnel clouds
7 northwest of Dixon	16	6:52 p			0	0	0	0	funnel cloud
									Funnel extended from cloud to 1500 feet above ground
Coal City	16	7:00 p			0	0	3	0	electrical
									Lightning set fire to home causing moderate damage
Southwest Champaign	17	2:43 p - 2:58 p			0	0	0	0	funnel cloud
									Funnel cloud moved slightly SSW reaching height of about 2500 feet above ground. Formed in clear air and appeared to dissipate as result of moderate shower activity adjacent to funnel.
Havana	19	6:00 p			0	0	3	0	small tornado
									A small tornado struck Matansa Beach area lifting a dock from the water and scattering beach furniture
Chicago area	31	night			1	6	0	5	C rain, electrical
									Thunderstorms accompanied by heavy rains flooded 18 viaducts in Chicago area and caused an auto accident which killed one person and injured 3 others. Lightning shattered a plate glass window in Waukegan cutting three persons with flying glass.
INDIANA									
Clinton County, between Mulberry and Jefferson	10	6:45 p.			0	0	4	0	Tornado
									A small tornado traveling eastward damaged farm buildings about 3 miles south of Mulberry.
North Vernon, Jennings County	17				1	0	0	0	Lightning
									A farmer was killed by lightning while mowing weeds during a thunderstorm.
Indianapolis	18	7 p.			0	0	0	0	Hail
									One-inch size hail was reported between West Cook Airport and downtown Indianapolis.
Ravenswood and Nora, Marion County	19	12:38 p.			0	0	0	0	Funnel cloud
Decatur, Adams County	19	2 p.			1	0	0	0	Lightning
									A farmer was killed by lightning while hauling hay during a thunderstorm 5 miles northwest of Decatur.
Jamestown, Boone County	19	4 p.			0	0	4	0	Tornado
									A small tornado moving southeasterly damaged extensively a gymnasium and attached building.
Huntington, Huntington County	19	5 p.			0	0	3	0	Tornado
									A small tornado struck a hatchery 6 miles north of Huntington.
IOWA									
Algona	3	4:00p.					5	5	Thunderstorm
									Property damage mostly due to wind, crop damage 80% from hail, 10% wind, 10% heavy rain.
Curlew	3	5:05p.	2	100			4		Tornado
Marshalltown	3	6:50p.					4	4	Thunderstorm
									Primarily crop loss by hail and property loss from wind to 65 mph.
Riceville-New Hampton	4	5:30p.					4	5	Hail
									Hail to 2 3/4 inches diameter.
Alta Vista	4	6:30p.					4	5	Hail
Waterloo-Cedar Falls-Evansdale	4	7:12p.					5	4	Hail
									1 inch hailstones.
Washta	8	8:00p.			2		5	5	Heavy rain
									10-13 inches fell over a few square miles east of Washta mostly between 8:00 p. and 12:00 p. 2 were drowned by the swift rapidly rising waters on the Ashton Creek that washed their car downstream.
IOWA (Cont'd.)									
6NW Buffalo Center	10	3:30p.	1/2	100			4	4	Tornado
Shenandoah-Clarinda	10	11:00p.					4	4	Windstorm
									60-75 mph. winds.
Sergeant Bluff-Salix	10	11:30p.	10	8500			4	5	Hailstorm
									Loss estimated \$300,000.
Estherville	20	7:10p.					4	3	Hailstorm
									Hail 1 inch diameter.
KANSAS									
Most of northern half of Kansas	1	Afternoon and evening					1		Electrical, 2 funnel clouds, wind and hail.
									Thunderstorm conditions over the northern part of the state began early in the morning in the northeast, progressed eastward and ended about sunset in the northeast. Numerous lightning damages were reported. One man was injured by lightning at 3:15pm near Frankfort. A funnel cloud was reported in south central Thomas County, 17 miles WNW of Oakley at 11:57 am. A second funnel was sighted over the west portion of Kansas City, Kansas at 6:50pm. Local wind and hail occurred.
Graham County	12	7:30pm	20	300			3		Tornado
									The tornado travelled from NW to SE across the eastern part of the county but about the only damage was at two farm plants, 4 miles north and 1/2 mile east of Bill City and 3 miles south east of the town, where a barn and small buildings were destroyed at each.
KENTUCKY									
Henderson County	4	About Noon					4	3	Wind and Hailstorm
									Windstorm moving from west to east through Henderson county destroyed \$30,000.00 worth of equipment at drive-in theater north of Henderson and ripped away office roof of grain company in Henderson. Scattered reports of minor wind and hail damage to crops - principally tobacco.
Simpson County	9	Afternoon					4		Lightning
									Two barns burned, after being struck by lightning, destroying a total of 10,600 bales of hay and various farm equipment.
Southwest Louisville	17	5:30 PM					2	1	Hailstorm
									Hail, 1 inch in diameter, reported in southwest Louisville with minor damage to vegetable gardens and property. Electrical power off in southwest Louisville for about 1 hour due to lightning.
North Central and Southeast	18	Afternoon and Night					3	6	Hailstorms
									Scattered thunderstorms moved eastward across the state accompanied by scattered "hail-size" hail. Scattered areas received heavy damage to crops - mainly tobacco and corn. Heaviest crop damage in Shelby County where 6 to 7 percent of the tobacco crop was destroyed by two hailstorms. Additional scattered heavy crop damage reported in Jefferson, Henry, Pendleton, Robertson, Mason, Fleming, Pulaski and Clinton counties. Some disruption of electrical and telephone service in the Louisville area due to lightning.
Clark County	23	Afternoon					4	4	Wind
									High winds destroyed two barns and damaged a third, while hail destroyed 15 acres of tobacco on the Beckersville road southwest of Winchester. Minor interruptions to electrical and telephone service due to fallen trees in the same area.
LOUISIANA									
Lake Charles	6	6:00 p.			0	0	*4	C	Thundersquall
Gueydan	6	4:00 p.			0	0	*4	C	Thundersquall and hail
Rigolets	7	6:00 p.							Several water-spouts
Lake Pontchartrain	7	4:00 p.							Water-spout
St. Charles Parish	8	11:12 a.							Funnel cloud
Lake Charles	15	4:39 p.							Funnel cloud
New Roads	23	3:00 p.					*4	C	Hailstorm
									Hailstones up to golf ball size.
Quarantine	28	11:00 a.							Funnel cloud
MAINE									
Mid-Coastal to Northeastern	11	P.M.			0	0	4	0	Lightning, wind.
									Lightning caused scattered power and phone outages, mostly minor, building damages, and a home to be burned. Wind felled a few trees in several areas, with traffic blocked at Litchfield.
Boulton	20	4-5 P.M.			0	0	5	0	Lightning.
									Fires from lightning strikes damaged two homes and a large factory building.

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MAINE (Cont'd.)									
Northeastern portion	27	P.M.			0	1	3	5	Hail, lightning. Major damage to potato and oat crops at Bridgewater at 4 P.M., where hail measuring up to 4 inches in width fell. Some potatoes knocked uncovered and knocked from hills. Many windows broken. An unusual precipitation rate of 1.9 inches in 15 minutes was reported. Scattered lesser hail damage elsewhere, with flat, oval stones up to 1 1/2 inch size reported at Millinocket. Some resembled coins. A youth was slightly injured by lightning at Millinocket.
MARYLAND									
None reported									
MASSACHUSETTS									
Central and Eastern Sections	29	Evening			0	1	5	3	Electrical, Rain, Wind, Hail Storm was unusually violent in local areas. Lightning started many fires and caused power outages in many communities. Public transportation service of the M.T.A. was halted in several places in the Boston area as a result of power lines struck by lightning. Excessive rainfall flooded cellars, underpasses, and low places in streets and highways. A number of cars became stalled on flooded streets and some were abandoned. Washouts were reported in Plymouth County at road intersections and in many private driveways. A few washouts of crops were also reported. Hail occurred in many communities, with stones measuring up to a half inch diameter in Worcester. Wind gusted to 90 mph in parts of outer Cape Cod and minor structural damage was reported. Driving conditions were hazardous at times of heavy rain and a number of accidents were blamed on the storm. A young man was killed in one of these accidents. A Cambridge woman was struck and injured by lightning.
Worcester	29	5:23 PM			0	0	0	0	Funnel Cloud Reported west of Airport.
MICHIGAN									
Wurtsmith AFB	3	7:26 p.							Funnel aloft
Southern Lower	4	3:00 p. 9:00 p.				5	4	5	Thunderstorms with high winds, heavy rains, hail and lightning In Detroit, 2 teen age girls seeking shelter under a tree were struck by lightning and injured. One girl was rendered unconscious and required artificial respiration and heart massage to save her life. Both girls were treated for burns at the hospital. Three men golfers at a Detroit golf course, sought shelter beneath a tree and were struck by lightning. All three received medical treatment for minor burns. Heavy rains flooded Detroit expressways with resultant damage to vehicles. Numerous flooded basements resulted in considerable damage. Lightning induced fires and high winds caused damage to homes, buildings, TV - radio antennas and cars. Hail from pea to half inch size along with heavy rains and high winds caused crop damage.
Alpena	5	11:39 a.	(?)	(?)	0	0	0	0	Tornado Weather observer sighted funnel cloud 5 miles east northeast of the airport which touched the ground for about 3 minutes and then dissipated.
Midland County	9	3:00 p. 7:00 p.					4		Electrical Lightning induced fire destroyed large farm barn and contents of hay and equipment. Several similar fires with less damage to homes and buildings were reported. Power lines were knocked out disrupting service to several hundred homes.
Roscommon	10	8:15 a.				1			Electrical Lightning struck a truck semi-trailer rig travelling north on a road east of Roscommon knocking the driver unconscious. Nearby men in a bar, who witnessed the incident stopped and applied artificial respiration, first aid and then took him to a nearby hospital.
Southern and Central Lower	10	11:00 a. 7:00 p.				5	4	5	Thunderstorms with heavy rains, hail, lightning and high winds In Dearborn Township, 2 women standing in front of a home at 3:15 pm were felled by lightning. Both were treated at a nearby hospital for burns. Within a block distance, a few minutes later another woman was struck by lightning while in her house and was knocked semi-unconscious. Ambulance rendered oxygen enroute to hospital for treatment. At Beaverton, 2 men working in the yard were felled by lightning. One was knocked unconscious. Both were treated at the hospital for burns. Lightning induced fire destroyed a large farm barn and contents plus several lesser similar fires were reported in the area. High winds blew down TV - radio antennas and trees with some building damage. Numerous power lines were broken with resultant loss power in the area. Considerable crop damage was reported due to hail, heavy rains and high winds.
Southeastern and Thumb Area Lower Michigan	11	11:00 a. 3:00 p.					4	5	Thunderstorms with high winds, hail, heavy rains and lightning Hail along with high winds estimated at 60 mph at Bad Axe plus heavy rains caused crop damage throughout most of the entire area. Power lines were severed disrupting service to hundreds of homes. High winds blew down TV antennas, trees and damaged buildings. Damage due to flooded roads, streets and basements was reported.
MICHIGAN (Cont'd.)									
Upper and Lower Michigan	15	8:00 a. 1:00 p.						0	Hail Three fourths inch hail reported at Sault Ste Marie, Baldwin and 25 miles west northwest of Grand Rapids.
Kent and Ottawa Counties	15	1:00 p. 5:00 p.						6	Hail and high winds Hail inch thick and up to 3 inches long seriously damaged tree fruit and ground crops in the area. Orchards in the Sparta vicinity suffered the most severe damage.
Calhoun County	19	1 p. - 5 p.				1	4	0	Electrical and hail Lightning induced fire destroyed 2 story home in Leroy Township. Two large farm barns and contents also burned down due to lightning type fire. One was located in Burlington Township and the other in Sheridan Township. At Harper Creek, man seated on chair in his home was felled by lightning. He suffered slight elbow injury. Hail from a half to whole inch was reported at Grand Rapids.
Parma	24	afternoon				1			Electrical Farm hand repairing a baler was struck and stunned by lightning. He was treated for electrical shock at the hospital.
Southern Lower	27	1:00 a. 3:00 a.				1	4	0	Thunderstorms with hail, high winds and lightning High winds blew down trees, TV and radio antennas causing damage to buildings, homes and cars. Likewise, small boats on inland lakes were damaged due to high winds. Power lines were severed disrupting service to hundreds of homes. Lightning caused fires destroyed large farm barn and contents near Hourk Clemens and another barn with its contents near Albion. A City street department worker at Battle Creek was felled by lightning and treated for burns. Damage due to flooded roads, streets and basements was reported.
Southern and Central	28	8:00 p. 11:00 p.					1		Thunderstorms with heavy rains, high winds and lightning causing considerable damage. Lightning and high winds severed power lines cutting service to hundreds of homes. High winds felled trees and damaged roofs of homes and buildings. Lightning induced fires damaged a few homes and buildings.
Huron Islands	30	4:00 a.				1			High winds Commercial fisherman lost his life when high winds completely over turned his fishing tug. Wind velocity estimated at 75 mph. Huron Islands are located out in Lake Superior about 11 miles northeast of Skaneateles.
MINNESOTA									
International Falls, Koochiching County	2	2:30 p.		45	0	0	7	0	Hail Hail stones up to 3/4 inch in diameter reported by Weather Bureau Airport Station. Storm moved east southeast.
Southwestern Minnesota	3	4:00 a.			0	0	5	6	Hail Thunderstorms moving southeast accompanied by hail caused scattered damage to buildings and crops in Big Stone, Stevens, Swift, Chippewa, Kandiyohi, Yellow Medicine, Lyon, Renville, Redwood, Jackson, Martin and Faribault Counties. Greatest hail damage in Swift, Redwood and Martin Counties. Stones reported up to 1 1/2 inches in diameter and crop loss from slight to 100%.
Wabasha and Winona Counties	4	4:30 p.	30	41	0	0	0	4	Hail Hail up to 1 1/2 inches in diameter did scattered damage to crops from Plainville to Altura, southeast Wabasha County. Storm moved southeast into south central Winona County causing further damage Lewiston to Fremont. Isolated one inch hail also reported Rochester area, Olmsted County.
Austin, Mower County	4	5:45 p.	2	600	0	1	5	0	Tornado Funnel cloud touched down in southeast Austin destroying garages and damaging roofs, windows, trees and power lines. One man injured slightly when blown across street. Three fourths inch hail accompanied storm. Tornado moved east.
Southwestern Minnesota	20	5:00 p.			0	0	0	4	Hail Hail caused scattered crop damage in Swift, Chippewa, Lac Qui Parle, Redwood, Brown, Cottonwood, Nobles and Jackson Counties.
MISSISSIPPI									
Ellisville	3	4:50 p.							Funnel cloud
Hickory	16				3	0	0	0	Lightning
MISSOURI									
Ray County	1	4:20 p.							Funnel Aloft Reported by airline pilot 40 NE of Kansas City
Franklin County	5	Late Afternoon						6	Thunderstorm Heavy damage from hail on 8-10 thousand acres of cotton, corn, soybean, watermelon and strawberry fields. Damage to roofs, windows and trees. Hail stones still remained on ditches and yards until dusk.

See reference notes at end of table

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NORTH CAROLINA (Cont'd.)									
Bertie, Dare, Duplin, Greene, Pender, Pitt, Tyrrell, Wayne Counties	20	Noon-2pm			0	0	5	5	Wind, rain
A low pressure storm moving northward through the North Carolina Coastal Plain caused widespread heavy rain and strong winds. Wind damage in many localities. Numerous outbuildings and a few old homes destroyed, many damaged. In a few cases trees were twisted off, indicating very violent winds. There may have been other small tornadoes (see above) within the main storm area.									
Stokes County	21	6:00 pm					0	4	Hail
Tobacco crop damaged over fifty acres.									
Buncombe, Henderson, Transylvania, Watauga Counties	24	All day			1	0	6	5	Rain
Rains up to 10 inches in 24 hours caused washouts and flash-flooding over large Mountain area. Considerable damage to roads, streets, farms and orchards. One auto washed from road, driver lost.									
NORTH DAKOTA									
Northwestern Grant County	1	7:00PM			0	0	0	4	Hailstorm
Central McIntosh County	2	3:00PM			0	0	0	4	Hailstorm
Grand Forks	9	2:30PM	1	300	0	0	4	0	Wind Gusts to 81 MPH
Fort Yates	29	8:00PM			1	0			Boy struck by lightning
OHIO									
Zanesville	2	4:30 PM			0	0	5	0	Heavy Rainfall
Nearly 4 inches' rain fell in downtown Zanesville this day most of which came between 4:30 PM and 5:45 PM. Largest falls and most serious flash flooding occurred in Brighton and Norval Park sections. Many basements were flooded, building foundations undermined and streets damaged by rushing waters. Two bridges were washed out.									
Jerry City	5	4:00PM	Short	Narrow	0	0	3	0	Tornado
A very localized tornado struck in Jerry City, lasting only a few seconds and doing damage along a short path barely 50 yards wide. Damage was confined to loosened shingles, broken windows, trees, and utility lines. The blast of strong wind followed a period of almost absolute calm; but no funnel cloud was reported seen.									
Mansfield	25	6:45PM to 7:05PM			0	0	0	0	Funnel Clouds
Several funnel clouds were observed in the Mansfield area during the period mentioned. Two of them touched the ground momentarily in open country some 5 miles west of town, but no damage was observed.									
OKLAHOMA									
Ferry and Noble Counties	3	p.m.			0	0	4		Wind
A thunderstorm moved into the Ferry area from the northwest. Plate glass windows in several business buildings were blown out and many trees were uprooted or snapped off. Electric power was disrupted in some areas of the city. Minor crop damage.									
Portions of Harper, Ellis and Beckham Counties	5	10 p.			0	0	4	4	Hail, lightning, wind
The ground was covered with small hail for a time at Shattuck in Ellis County after a hailstorm. Roofs of buildings and homes were damaged from the storm. Lightning struck and killed five head of cattle northwest of Sayre in Beckham County. Hail destroyed many acres of feed crops in the vicinity of Laverne in Harper County. Other portions of west-central Oklahoma also were affected by these storms.									
Portions of Kiowa, Caddo, Grady, Oklahoma, and McClain Counties	5-6	10:00 p. - 2:00 a.			2	2	4	4	Lightning, wind
Severe thunderstorm moved southward accompanied by winds 50-65 mph, severe electrical storms, and heavy rain. Two killed and two injured by lightning near Ft. Cobb Lake in Caddo County. Minor damage to roofs and crops.									
Lake Texoma Area, Portions of Love, Carter, Johnston, Bryan, Murray, and Coal Counties	6	After Midnight			1	1	5	4	Wind
Winds estimated at 70 to 100 mph destroyed or damaged over 150 boats, resort cabins and dock facilities. The storm affected both Oklahoma and Texas sides of the lake. One man was drowned when his boat capsized due to strong winds, and another received electrical shock when he attempted to clear away debris from a metal boat dock across which electrical wires had been blown.									
See reference notes at end of table.									
OREGON									
Scattered over State	3-4	Afternoon and Evenings			0	0	4	4	Thunderstorm
Severe lightning widely distributed over the State started more than 90 small fires on forest lands in State. Largest was 2,000 acres near Valsetz. Between 1,000 and 1,500 acres burned over in Fort Rock area threatening 5 ranch homes, burning considerable hay and fences. In the Dale district, 70 miles south of Pendleton, 250 acres burned over. Over 1,000 men were engaged in fighting fires over State during most critical period.									
Eastern Baker County	7	Afternoon	3.5	1,000	0	0	4	2	Thunderstorm
Lightning started fire near head of Durkee Creek burned over more than 1,000 acres of grass and brush land with small amount timber.									
Western, Central Oregon	11-12	Afternoon and Evenings			0	0	5	5	Thunderstorm, Hail and Heavy Rain
Lightning started more than 60 fires in Willamette National Forest and scattered number of fires in other National and State forest lands. Extremely heavy hail in the city of Klaskan Falls and immediately adjacent area damaged more than 1,000 homes, many of them quite severely. A number of barley and wheat fields also suffered hail damage in Morrow and Gilliam counties. In addition a number of industrial buildings suffered broken windows and roof damage. Heavy rains which accompanied this storm in small local areas both here and in Lake County washed out or covered some secondary roads with mudslides and washed the shoulders off of major highways for short distances. Also 44 fires were started in farm land or buildings and brush or semi-timbered land.									
Much of State	14-16	Afternoons and Evenings			0	4	5	4	Thunderstorm, Wind Heavy Rains, Hail
Lightning touched off more than 700 fires in Oregon during these three days as thunder storms occurred over most of the State at some time during period. This included one fire of 15,000-20,000 acres near Jordan Valley, two other totaling near 10,000 acres in southeast Oregon on Bureau of Land Management grass and brush land. Lightning strikes injured 4 persons and caused numerous power outages of from few minutes to several hours at many points over State. A few homes, some farm buildings damaged by lightning and high winds. A cloudburst on the hills surrounding the small town of Lone sent a wall of water into the business district flooding stores and other businesses to a depth of several inches, ruining stock and equipment and leaving heavy mud deposits over floors. In town of Umballa high winds caused extensive power outages, blew down trees, smashed windows and damaged number of roofs. Hail in Union, Wallowa, Gilliam and Wasco counties damaged some small grain.									
Scattered over entire State	21-22	Afternoon			1	1	5	4	Thunderstorm, Wind
Lightning started approximately 50 fires in U. S. National Forest land and considerable additional number on State Forest land and on farm land in farm buildings. This included a 3,000 acre fire south of Roseburg in which one fire fighter was killed, a further sizable acreage of grazing land in south central Oregon and a 510 acre fire near Tillier. Several power outages were caused in Union and Washington counties by lightning strikes and high winds. One person was injured by lightning strike.									
PENNSYLVANIA									
Beaver Falls	20	Evening			1	1			Thunderstorm
Lightning killed one man and injured another when it struck a pavilion, under which the two men were standing.									
Wilkes-Barre - Hazleton - Pottsville Area	25	Night					4		Thunderstorms
Lightning fired several buildings including a barn and 2 homes, with damage estimated at \$1,000. Heavy rain caused a flat roof of a restaurant to collapse under the weight of the water on the roof with damage of \$3,000 to \$10,000.									
PUERTO RICO									
	27				5	25	6	5	Heavy rain & Flood
Severe flooding occurred in Puerto Rico on Sunday, August 27, 1961 associated with an easterly wave passage over the island. Practically all rivers and tributaries in the eastern two-thirds of the island were affected to some extent. Heaviest rain fell in the mountains to the north of Guayama where 49 hour amounts reached as high as 17.71 inches at Reitman. Of this, 17.55 inches fell between 4 PM Saturday and 4 PM Sunday with the heaviest rain falling between 8:50 AM and 11 AM on Sunday. Several other stations in the same area recorded 24 hour amounts in excess of 12 inches. Of the five deaths listed above three have been confirmed at Toa Baja, Guayama and Carolina while the other two represent missing persons at Guayama who are presumed to be dead. Total damages are estimated at more than one and one half million dollars including roads, agriculture, houses, bridges, electric power facilities, sewers, communication equipment, clothing and household effects. For the most part the houses which were damaged (62%) or destroyed (12%) were built in or near the rivers and stream beds and were of poor construction.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

AUGUST 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
RHODE ISLAND									
None reported									
SOUTH CAROLINA									
Summerton, Clarendon County	1	5:30 p			1	0	0	0	Lightning
Victim struck by lightning while working under a tree.									
St. Matthews, 10 mi. northeast Calhoun Cty	3	Night			0	0	4	0	Lightning
Fire from lightning destroyed the 130-year old Wolfe house, a Calhoun County landmark.									
Beaufort, Beaufort County	13	Afternoon			0	1	0	0	Lightning
Victim knocked unconscious by lightning. No permanent injury.									
Central, Pickens County	18	8:30 p	1/20	100 ft	0	0	3	0	Tornado
Tornado apparently dipped for a brief period - damaged a residence, destroyed several barns, uprooted trees.									
SOUTH DAKOTA									
Brown County	1	4-5 pm					3	4	Wind, hail
High winds accompanied by damaging hail struck a sizeable farm area of northwestern Brown County. One large barn was unroofed while another barn on second farm had north wall blown in. Swathed grain was blown away and standing grain on several farms sustained heavy damage from hail and locally heavy rain.									
White, Brookings County	2	Late pm					3	4	Hail
An area of about 11 miles long and 1 to 2 miles wide from northwest to southeast of White struck by golfball-size hail. Oats and corn suffered 50 to 75 per cent loss, and a number of family gardens were heavily damaged. Windows were broken in numerous stores and homes. High winds added to the damage by flattening standing grain crops.									
Southeast	7	Evening					4	4	Hail, wind, electrical
Wind and walnut-size hail combined to cause considerable damage to property and crops south of Wentworth, Lake County. Wind destroyed or damaged a silo, livestock shed, and windmill on one farm and a grain shed on another. About eight farms reported heavy to total loss of grain and corn crops in the Wentworth area. Lightning-caused fires destroyed a total of more than 100 tons of hay in separate blazes at Stickney, Aurora County, and near Sioux Falls.									
Winner, Tripp County	9	2:40 pm							Funnel cloud
Funnel cloud seen about 10 miles north of Winner. Associated with severe hail storm in this area.									
South Central, South-east, and Edmunds County	9	Afternoon					5	5	Hail, wind, rain, electrical
Hail of marble to golfball size struck an area from northwestern Tripp County to extreme southeastern Gregory County, a distance of about 45 miles. Homes, stores, cars, and farm buildings heavily damaged by hail and wind in or near towns of Dixon, Gregory, Bone-steel, and Fairfax. Partial to total loss of crops also occurred. Damage in Yankton and Vermillion areas of southeast mostly due to wind as college gymnasium partially unroofed in former city and trailer homes, small buildings, and trees damaged in both cities. Power failures resulted from falling limbs or trees. Rain of 1.5 to 3.5 inches caused some local flooding of streets, and crops in the area were flattened by wind and rain. Three cattle killed by lightning at Selby, Edmunds County, in the north central.									
Todd County	12	Afternoon					3	4	Rain, hail
Rain unofficially measuring up to six inches occurred mostly in northeastern quarter of the county and east of the town of Mission. Grain crops, corn, and hay crops flattened by rain and some newly-mown hay washed away. Hail added to the damage and about 15 farms reported moderate to severe loss of crops as well as some damage to buildings.									
Hamlin, Brookings, and Moody Counties	20-22	early am 20th & 21st-late pm 22nd						4	Hail
Hail storms occurred in Hamlin and Moody counties on the early mornings of the 20th and 21st and in the late evening of the 22nd in Brookings County. Damage to corn, flax, and soybeans in these east central counties was generally moderate with a few local spots heavily damaged. Corn stripped of leaves and alfalfa beaten into the ground in worst areas.									
TENNESSEE									
Memphis, Shelby County	5	6:00 p.			0	0	4	0	Lightning and wind
Nine boats sunk by windstorm on McKellar Lake and lightning burned a home. Damage by wind 70% of total.									
Campbell and Claiborne Counties	6	Afternoon			0	0	0	5	Hail
Hail damage to crops chiefly tobacco on 71 farms in Claiborne County and considerable crop damage also in Campbell County.									
Charleston, Bradley County	6	3:00 p.			0	0	4	0	Lightning
Furniture company building with furniture and appliances destroyed by lightning.									
TENNESSEE (Cont'd.)									
Murfreesboro, Rutherford County	8	3:00 p.	3	400	0	1	2	4	Lightning and hail
A Murfreesboro lady was knocked unconscious by lightning but recovered in several hours. Hail up to one inch in diameter damaged cotton and corn at Quito.									
Knoxville, Knox County	12	1:00 p.			2	0	0	0	Lightning
A 20 year old boy and a 14 year old boy were struck by lightning while taking shelter under a tree.									
Greenville-area, Greene County	18	7:00 p.			0	0	7	6	Hail
A hailstorm in a path from Warrensburg through Greenville to Tusculum inflicted heavy damage to crops and farm buildings.									
Murfreesboro, Rutherford County	18	Afternoon			0	1	3	0	Lightning
A woman was struck by lightning while talking on a telephone. She recovered after being hospitalized. Eight cattle were killed in same area.									
Bonannon, Putnam County	18	Evening	1	7	0	0	0	4	Hail
Hail damaged tobacco on about 30 farms.									
Red Bank and White Oak, Hamilton County	20	1:00 p. to 5:00 p.	6	2000	0	0	4	0	Wind and flooding
Wind damage to plate glass windows and signs. Flash flooding caused damage to 13 homes in low spots. Most of the damage was caused by flooding.									
Smithville, DeKalb County	23	Noon			1	0	0	0	Lightning
A man was struck by lightning and killed while loading hay on a truck.									
Trousdale and Macon Counties	23	Afternoon			0	1	3	5	Lightning and hail
A Macon County man was struck by lightning and required hospitalization. Hail reported as large as eggs and baseballs hit communities in both counties causing crop damage.									
McMinnville, Warren County	31	5:00 p. to 8:00 p.			0	0	6	7	Flooding
Rains of 6 to 7 inches in three hours caused widespread damage due to soil erosion and to crops 60%, public roads 30%, and urban damage 10%. Minor damage was reported to 25 homes.									
TEXAS									
Livingston, Polk County	4	4:10 p to 4:55 p	?	?	0	0	4	0	Funnel aloft, wind
A funnel aloft was observed southeast of Livingston. Winds estimated at 50 mph with gusts to 75 mph caused damage to roofs and signs in Livingston. .94 inch of rain fell within 45 minutes.									
Austin, Travis County	4	1:15 p	?	?	0	0	7	0	Wind
Strong thunderstorm winds damaged 5 homes and a boat dock in Lake Austin Estates. About 1/2 the roof of 2 homes were lifted off and one section carried about 100 yards. Several large oak trees in the area were blown down. Four homes in the Pemberton Heights addition of West Austin suffered lesser wind damage.									
2 N Harwood, Caldwell County	4	3:15 p to 3:16 p	**200	100	0	3	4	0	Tornado
Small tornado injured 3 persons and destroyed 4 large poultry houses at the Western Hatchery on U. S. Highway 90. Damage to buildings estimated at \$20,000, and loss of poultry killed by the storm, \$5000. The tornado moved from the north toward the south.									
San Antonio, Bexar County	4	5:00 p	?	?	0	0	4	0	Wind
Thunderstorm winds ripped off roofing from a building at Fort San Houston, blew down a large sign at a drive-in, and caused considerable damage at a drive-in theatre. Six-inch steel pipes of the large sign were bent double. The sign was 25 feet long and nearly 10 feet high. Widespread tree damage occurred in Brackerridge Park, with some whole trees blown down.									
SS San Antonio, Bexar County	4	5:00 p-5:20 p	3	2 1/4	0	0	4	0	Hail, Wind
Hail up to "golf ball" size accompanied by winds estimated at 55-65 mph caused minor damage to buildings near San Antonio. Hailstones averaged 3/4 inches in diameter. Some trees were blown down. Most of the damage was from wind.									
Houston, Harris County	4	night			0	0	5	0	Lightning
Lightning started a fire which destroyed a home in the River Oaks section of Houston.									
Lake Texoma, Grayson County	6	3:00 a-5:30 a	?	?	1	0	5	0	Wind
The worst marine disaster in Lake Texoma's history resulted from a 2 1/2 hour wind storm during the early morning hours. Around 100 boats were sunk or damaged. One of four fishermen drowned when their boat sunk near the Fridco Railroad bridge. Largest resort loss was at Island View where a 35-foot boat and gas dock was swept away, carrying from 45 to 50 boats to the bottom. Winds were estimated at 70 mph.									

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TEXAS (Cont'd.)											
Harlingen, near Cameron County	6	2:25 p									Funnel aloft
Los Fresnos Cameron County	6	3:15 p			0	0	5	0			Wind Thunderstorm winds estimated at 40 to 50 mph destroyed an airplane hanger and damaged 3 aircraft inside, at an airfield 1/2 mile south of Los Fresnos. The entire hanger was lifted straight up before it blew apart. One airplane tied down within 100 feet of the hanger suffered minor damage when it was torn loose from its guy ropes.
4 NW Victoria Victoria County	8	11:00 a									3 funnels aloft
Houston Harris County	8	noon	?	?	0	7	?	0			Rain, wind, lightning Strong thunderstorm winds blew out a 5 x 10 foot window pane at the Houston International Airport restaurant. 7 persons were injured by flying glass, but none were seriously hurt. Winds at the Weather Bureau office, one mile west were measured at 35 mph. Within the city, 7 aluminum sheds were blown over, and a number of tree limbs sheared off.
Near Olmito Cameron County	8	1:20 p									Funnel aloft
7 W Galveston Galveston County	8	4:30 p									Waterspout
E Corpus Christi Nueces County	9	7:28 a									Waterspout On Corpus Christi Bay.
Houston Harris County	9				0	0	4	0			Lightning One home struck by lightning and almost completely destroyed by the resulting fire.
Gilchrist Chambers County	9	6:45 p									Funnel aloft
Victoria Victoria County	10	11:08 a			0	1	0	0			Lightning One person lost consciousness when struck by lightning as he sat near a printing machine. The bolt struck a radio tower on top of the building and damaged the transmitter, as the charge was conducted into the room where the injured person was sitting.
3 S Victoria Victoria County	10	11:41 a 11:43 a									Funnel aloft
Marfa Presidio County	11	4:30 p	#100	100	0	0	4	0			Wind Thunderstorm winds ripped the sheet steel roof off the grandstand at the fair grounds. Metal sheets were twisted and some carried 300 yards by the wind. Splintered 4 x 4 and 2 x 6 timbers were scattered over the area. A loud roaring noise was heard immediately preceding the destruction, but no one saw a tornado funnel. Vision was restricted by a heavy downpour during the storm.
3 Corpus Christi Nueces County	12	9:23 a 9:28 a									Funnel aloft
Beaumont Jefferson County	12	3:45 p									Funnel aloft
ESE Galveston Galveston County	13	9:18 a 9:45 a									Waterspouts and funnels aloft
Near Beaumont Orange County	14	11:41 a 11:46 a									Funnel aloft
12 NE Kress Swisher County	14	3:18 p									Funnel aloft
2 S Garland Dallas County	14	3:30 p									Funnel aloft
Graham Young County	15	afternoon			0	0	5	0			Lightning Fire destroyed 2 business houses and damaged 2 others in downtown Graham when lightning struck a lumber company.
Pasadena Harris County	17	afternoon			1	0	0	0			Lightning One woman was killed instantly when struck by lightning during the passage of a thunderstorm.
10 WNE Brownsville Cameron County	18	10:25 a									Funnel aloft
Houston Harris County	18	?			1	0	0	0			Lightning A Houston woman was killed when lightning struck a large pecan tree under which she was standing. The bark was stripped from the tree in several places by the lightning.
Bassett Bowie County	22	noon			0	1	0	0			Lightning One man suffered burns on his head and neck, also one arm, hip and leg when struck by lightning while standing on the porch of his home. He was unconscious for about 10 minutes. The lightning also broke windows in the home, tore up walls, knocked a cabinet of dishes from the wall, ripped the kitchen floor, knocked a hole in the roof of the back porch, and set some
TEXAS (Cont'd.)											
10 W Beaumont Hopkins County	28	5:47 p									Funnel aloft
Grayson Co.	30	Afternoon			0	1	0	0			Lightning A farmer near Sherman was struck by lightning as he was milking.
UTAH											
Moab	25	Morning			0	0	4	1			Wind, rain Wind and flood damage resulted from thunderstorms.
VERMONT											
Northern	11	P.M.			0	0	4	0			Lightning A cottage was destroyed near Newport. Scattered phone and power outages also occurred in Orleans County. A barn was damaged at Middlesex, in Washington County.
St. Albans	15	Evening			0	0	4	0			Lightning Fire from lightning destroyed large barn and contents.
Richford	27				0	0	4	0			Lightning Barn and contents burned.
U.S. VIRGIN ISLANDS											
None reported											
VIRGINIA											
Camp A.P. Hill, Caroline County	3	3:40 p.			2	10	7	?			Lightning Two soldiers were killed and ten were injured, one critically, when lightning struck a field kitchen tent.
Albemarle and Madison Counties	4-5	Night			0	0	?	?			Heavy rains and flash floods Heavy rains and resulting flash floods did considerable damage to crops and farm property, flooded basements, felled trees and washed out bridges and sections of highway.
Norfolk County	5	Morning			1	0	?	0			Rain Heavy rains caused local flooding in the Norfolk-Portsmouth area. A motorcyclist skidded and lost control of his vehicle. He died on August 7th from injuries received in the accident.
Lee, Scott and Claiborne Counties	6						?	5			Hail, winds, rain. Hail up to 1 1/2 inches in diameter caused heavy damage to tobacco, garden and field crops. Most of the damage, estimated at over \$250,000, occurred between Jonesville and Blackwater in Lee County. A number of rabbits and ducks were killed by the hail. Heavy rains caused considerable erosion and some road damage.
Southern Hanover County	24	12:22 p.									Funnel cloud A funnel cloud was reported 30 miles southwest of Norfolk airport by aircraft.
Roanoke and Botetourt Counties	25	4:00 p.- 10:00 p.			0	1	4	C			Rain, flash floods and lightning Heavy rains caused flash floods in Roanoke, Troutville and Buchanan, flooding more than one hundred basements, inundating the first floor of several homes and washing away automobiles. A woman was struck by lightning and was treated for minor burns.
Western Rockingham County	28	Evening			0	0	4	C			Wind and rain High winds destroyed a number of farm buildings and unroofed others. Torrential rains and wind did considerable damage to corn and garden crops. Two large farms alone suffered about \$20,000 damage.
WASHINGTON											
Yakima and Walla Walla Valley	15				0	0	3	4			Thunderstorm-wind Several orchards and hop yards were damaged by wind. One light airplane was turned over and numerous power outages occurred. Several range fires were started by lightning.
WEST VIRGINIA											
Wirt County	2-3	evening and early morning									Flash flooding Flash flooding caused heavy damage to roads, crops, dwellings and farm buildings.
Wood County, Vienna	2-3	evening and early morning									Local flash flooding Many streets and storm drains flooded with mud and debris.
Dallison	2	afternoon									Local flash flooding Local flooding included first floor of Pleasant Valley Grade School and extensive road damage; trees were blown down.
Cabell County, Huntington	2	afternoon									Local flash flooding Flash flooding of basements, viaducts and some highways; some trees and power lines down.

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					KILLED	INJURED	PROPERTY	CROPS	
WEST VIRGINIA (Cont'd.)									
Preston County, Bowlesburg, Amboy, Erwin	11	6:50 P.M. to 11:30 P.M.			1		5		Flash flooding
									Highways and roads damaged and blocked with land slides and high water. Much damage to several stores and at least 12 dwellings. Foundation from one house washed out; 1 cement driveway destroyed; a hogan garbans and lawns ruined. Extensive damage to a sawmill, \$40,000 worth of lumber lost.
Wood County, Stephens Fork Area	20	night							Local flash flooding
									Bridge washed out, much damage to crops.
WISCONSIN									
Grantsburg	2	7:00 pm							Tornado and Funnel
									Southwest of city. Touched down momentarily.
Maiden Rock Area	3	Late evening					4	4	Hail
									Hail up to one inch in diameter damaged buildings and crops.
West Central, South	4	Afternoon-evening					5	5	Hail, wind.
									A squall line crossed over the area resulting in several locally severe wind and hail storms. Hail up to one inch reported 2 miles west of Eau Claire at 1:40 p.m. Hail of up to baseball size damaged crops and property in an area 6 miles long and 1 1/2 miles wide between Spring Valley and Menomonie at about 2:30 p.m. Wind did extensive damage at Prairie du Chien at 7:35 p.m. Hail up to 3/4 inches reported 2 1/2 miles south of Madison during late afternoon. Hail up to 3/4 inch reported in Milwaukee about 9:30 p.m.
Ladysmith 30 NW	4	Evening							Funnel
Park Falls 5 NW	14	7:50 pm	5	400			5	4	Tornado
									Moved northeast between Park Falls and Butternut. Also wind and hail damage throughout area.
Central Counties	25	Evening					4	5	Hail
									Hail up to 1 1/2 inches. Particularly hard hit was western Marathon County, Mauston, and Pittsville.

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
WYOMING Lander 25SE	7	afternoon			0	1	0	0	Lightning
									Lightning struck a highway guard rail upon which a man was leaning, causing minor injuries.

- ° Includes crop damage.
- C Crop damage.
- * Miles instead of yards.
- ** Yards instead of miles.
- † 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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