

U. S. DEPARTMENT OF COMMERCE
FREDERICK H. MUELLER, Secretary
WEATHER BUREAU
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STORM DATA

JULY 1960
Volume 2 No. 7



ASHEVILLE: 1960

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 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									
Geneva County	4	6:00 p.			0	0	4		Wind and rain, electrical
Heavy rain, high winds and lightning caused scattered damage over county. Most of the damage was at Geneva where the roof of the Post Office caved in, a section of the stadium wall was blown down and telephone and electric lines broken by falling limbs and a large tree. At Slosscomb lightning set a barn on fire which was destroyed. Damage by wind 60% of total, by rain 30%, and lightning 10%.									
Butler County	4	5:50 p.							Funnel Clouds
Pilot reported two small funnel clouds touching ground 10 miles south of Greenville.									
Mobile County, Mobile	4	10:12 a.							Funnel Cloud
Reported by pilot near Brookley Field									
Jefferson County	4	Afternoon			0	0	4		Wind and rain
Heavy rains and high winds caused flash flooding and scattered damage about the city. Damage by wind 75% of total, by rain 25%.									
Cullman County, Cullman	20	1:00 p.			1	0			Electrical
Struck by lightning while standing near a tree in rural area.									
Mobile County	22	Afternoon			0	0	4		Wind and electrical
High winds and lightning caused scattered damage over county. Part of roof was blown off of a warehouse at Indian Springs, lightning set barn on fire in the Dawes area. A boat at Dauphin Island was smashed against a general, and numerous trees and utility lines blown down. Damage by wind 75% of total, by lightning 25%.									
Tuscaloosa County, Tuscaloosa	29	Afternoon			0	0	4		Wind
High winds demolished a large hay barn and damaged 12 other buildings in Bryce Hospital area. Telephone poles were blown down and falling limbs broke electric lines. Minor damage in surrounding areas.									
Fayette County	29	2:15 p.			0	2			Electrical
Severely burned when lightning struck tree under which they were working on tractor.									
ALASKA									
None									
ARIZONA									
Tucson	18	5:00 p.m.			1	2			Wind
Wind-blown roof critically injured a passerby.									
Bartlett Dam (5 miles northeast)	20	Afternoon					2		Lightning
Lightning struck near 6 workmen. 2 were hospitalized.									
Sabino Canyon	25	Evening					4		Wind
Wind damage to 2 homes totalled \$15,000.									
ARKANSAS									
Gillette, Arkansas County	24	1:00 PM	5	1,500			5		Tornado
The tornado moved from the southwest to the northwest. The funnel was observed by several persons. Principal damage was at the Gillette Airport where five airplanes were heavily damaged. There was also extensive damage to barns, garages and other buildings in the town.									
Washington County	24-25						6	4	Rain, lightning
Heavy rains, with precipitation amounts locally as great as 9 to 11 inches, over the northern half of Washington County resulted in local flash flooding which caused extensive damage to County roads and bridges and to streets in the City of Fayetteville. Damage to County roads and bridges is estimated at \$500,000 and damage to City streets in Fayetteville at \$80,000. Loss of livestock is estimated at \$50,000 and field crops, \$50,000. Many homes and basements in Fayetteville were flooded. Lightning caused an estimated \$10,000 damage, principally to telephone equipment.									
Little Rock and North Little Rock, Pulaski County	27	8:55 PM to 8:50 PM					5		Wind, Hail, Lightning
A locally severe thunderstorm accompanied by strong, gusty winds first struck in the Levy area of North Little Rock and moved southeastward into Little Rock. Principal damage was in the Levy area where a drive-in theater screen was destroyed and the roof of a new shopping area store building damaged. There was scattered wind damage over a large portion of both cities. Trees suffered extensive damage. Lightning started two fires in North Little Rock. There was some small hail but no damage reported.									
CALIFORNIA									
Tehachapis and Southern California	18-20				0	0	5	4	Thunderstorms
Wind associated thunderstorms downed utility lines, damaged farm buildings, and spread forest fires.									
Camp Angelus	23				0	0	4	3	Thunderstorm
Cloudburst with one-half inch hail and gusty winds. Mud slide closed highway in Snow Creek canyon.									
Imperial Valley	27	5:20 pm	20		0	0	4	3	Wind
Wind blew down trees, damaging houses and utility lines, upset parked aircraft, damaged metal roofing, patios, and plate glass windows, and demolished TV antennas.									
COLORADO									
Adams County	1	Afternoon			0	5	2		Wind
A severe "dust devil" moving through a suburban shopping center blew over a fireworks stand, injuring an 11 year old boy customer and two women operators of the stand. The boy was found under the demolished stand 100 feet away.									
Eastern Colorado, Jefferson, Arapahoe, Douglas, Elbert, Larimer, Logan and Pueblo Counties	5	6-8PM			1	2	6	4	Hail, wind & rain
Heavy thunderstorms with hail, high winds and heavy rain scattered over the eastern plains caused extensive damage and local flooding. In South Denver, Englewood, Littleton and Golden, wind driven hail, with some hailstones as large as golf balls, and flooding from heavy rain caused \$1.5 million damage. Winds were estimated at 60 to 70 MPH, rain was estimated at 2 to 3 inches, and there were hail accumulations of 3 to 4 inches in some sections. Hail carried by flood waters was piled 3 to 4 feet deep in places. An Englewood patrolman was injured when hail broke the windshield of his car. One inch of rain in 10 minutes and heavy hail damage were reported in the Parker area. In Logan County, one man was killed and his companion injured by lightning while fishing on a lake 1 mile northeast of Padroni. Record amounts of rain, estimated up to 5 inches north of Sterling flooded areas in and near Sterling. In Pueblo, there was extensive lightning damage to power lines, homes and trees during a violent electrical storm. Rain was heavy in some parts of Pueblo. Extensive damage was reported from wind, hail and rain in the Loveland area.									
Pueblo	4	Afternoon			0	0	4	3	Hail, wind & rain
Wind driven rain flooded streets, roads and crop lands. Some golf-ball sized hail fell in parts of the city. Truck farm crops east of the city were damaged.									
Custer County	4	PM			0	0	5		Tornado
A small tornado in an area nine miles south of Westcliffe, damaged a farm house and farm equipment. A power saw was lifted up and dropped on a new gate demolishing it. Fences were damaged by flying lumber and a 3 ft. culvert destroyed. Part of the roof was torn from the house and boards blown through the windows. The funnel cloud was seen by a number of observers to dwell over the area for about 1/2 hour.									
Denver	10	1:23PM			0	0			Funnel cloud
A funnel cloud was observed north of Lowry Airfield, dissipating by 1:52PM.									
Northeast Colorado	14	2:26PM			0	0			Funnel cloud
A pilot reported sighting a funnel cloud 85 miles NNE of Denver. It dissipated after 3 minutes.									
Arapahoe Peak, west of Boulder	17				3	0			Lightning
Three young people were killed by lightning while climbing Arapahoe Peak. Their bodies were found the 18th & 19th by a search party.									
Morgan County	17	4:00PM			4	0	0	4	Hail and wind
A strip 4 miles wide between Wiggins and Goodrich suffered damage from wind driven hail. Corn was stripped and beasts were chopped.									
Mesa County	22	Evening			0	2	4		Wind
Strong gusty wind injured 2 people in Grand Junction. Large tree limbs were blown down which fell on a group while they were eating a picnic dinner. Trees were uprooted, some falling on cars. A cement wall of a building under construction, was blown out, falling on parked cars. Other damage was reported through the area.									
Denver area, South Adams and Northeast Jefferson Counties	25	Late			0	1	3		Hail and lightning
Lightning struck many points in the area north of Denver. A Boy Scout leader was struck and injured at Rocky Mountain Arsenal. Some sections of arched ways were blanketed with a white layer of hailstones. A number of weed fires were caused by lightning. Some houses were struck, but no serious damage reported.									
Grand County	25	PM			2	0			Thunderstorm and wind
Two people were drowned in Williams Fork Reservoir when their boat was capsized by gusty winds in a thunderstorm.									
Sedgwick	27	5:45PM			1	0	5		Tornado
The Highway Patrol reported a tornado with \$25,000 damage and one fatality, 5 miles west of Sedgwick.									
Holyoke	27	6:30PM			0	0			Tornado
The Highway Patrol reported a tornado, 10 miles north of Holyoke.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS	
COLORADO (Cont'd.)									
Wray	27	7:00PM			0	0			Funnel cloud
			A funnel cloud was reported in the vicinity of Wray, Colo. 45 miles southwest of Imperial, Nebr. The cloud was moving southeast.						
Sterling	28	Around 8:00PM			0	0	5		Wind
			A high wind caused extensive minor damage to buildings. A tornado was suspected, but there was no confirmed evidence of a funnel cloud.						
CONNECTICUT									
Waterbury; New Haven County	3	PM			0	0	5	0	Wind, Electrical
			Wind knocked down 7 eight-ton wooden trusses on partially completed building. Lightning started fire in unoccupied building with resultant \$50,000 damage.						
Greenwich; Fairfield County	3	PM			0	0	3	0	Electrical, Wind
			Lightning strikes damaged 8 homes. Wind capsized small boat.						
Waterbury; New Haven County	9	5:15p. to 5:45p. (EDT)			0	0	3	0	Electrical
			Brief thunderstorm felled large tree and power lines. One house hit by lightning.						
Statewide	30	1:00a. to 5:00p. (EDT)			1	?	4	4	Wind, Tide, Rain
			Tropical storm "Brenda" entered southwest Connecticut just west of Bridgeport shortly after 2PM and passed west of Hartford by 5PM. Highest winds were 45-50 mph in gusts from the SSE. Most damage was limited and was confined to small boats along the coast, except for \$20,000 damage to boats at Niantic which were being organized for a regatta. There were many minor skidding accidents with one death reported near East Lyme. Other minor damage resulted from felled trees and many short power failures occurred in the southwestern sections of the state as far east as East Haddam. Scattered minor floodings were reported inland in Fairfield, New Haven and Hartford counties and along the coast where tides were 3-5 feet above normal.						
DELAWARE									
FLORIDA									
West Palm Beach Palm Beach Co.	3	11:00 AM EST	-	-	0	0	-	-	Funnel Cloud
Tampa Hillsborough Co.	4	2:04 PM EST	-	-	0	0	-	-	Waterspout
Vero Beach Indian River Co.	4	4:30 PM EST	-	-	0	0	3	0	Wind
Bonifay Washington Co.	5	Afternoon	-	-	1	0	0	0	Lightning
Fort Lauderdale Broward Co.	6	7:04 AM EST	-	-	0	0	0	0	Waterspouts (2)
Miami Dade Co.	6	8:10 AM EST	-	-	0	0	0	0	Waterspout
Key West Monroe Co.	6	5:00 PM EST	-	-	0	0	0	0	Waterspout
Key West Monroe Co.	7	9:23 AM EST	-	-	0	0	0	0	Funnel Cloud
Plant City Hillsborough Co.	7	1:30 PM EST	-	-	0	0	0	0	Funnel Cloud
Vero Beach Indian River Co.	8	12:08 PM EST	-	-	0	0	0	0	Funnel Cloud
Green Cove Springs Clay Co.	9	Afternoon	-	-	0	0	3	0	Lightning
Leesburg Lake Co.	11	Afternoon	-	-	1	0	0	0	Lightning
			Lightning killed man fishing in nearby lake.						
Hardaway Gadsden Co.	11	Afternoon	-	-	1	2	0	0	Lightning
			Lightning killed one tobacco worker and injured two others as they were seeking shelter in a nearby building.						
Mims Brevard Co.	13	Afternoon	-	-	1	0	0	0	Lightning
			Lightning killed fisherman in nearby lake						
Key West Monroe Co.	13	2:40 PM EST	-	-	0	0	0	0	Waterspout
Oak Hill Volusia Co.	14	3:45 PM EST	-	-	0	0	-	-	Tornado
			Two waterspouts seen offshore, one waterspout came ashore but dissipated very shortly after reaching shore and caused minor damage.						
FLORIDA (Cont'd.)									
Mico Brevard Co.	15	Afternoon	-	-	1	0	0	0	Lightning
Port Myca Martin Co.	19	Afternoon	-	-	0	0	0	0	Waterspout
			Waterspout seen over Lake Okechobee						
Tampa Hillsborough Co.	19	6:35 PM EST	-	-	0	0	0	0	Waterspout
Ormond Beach Volusia Co.	19	3:15 PM EST	Short	Narrow	0	0	-	-	Tornado
			Waterspout came ashore as tornado in Tonoka State Park.						
Key West Monroe Co.	21	5:30 PM EST	-	-	0	0	0	0	Waterspout
Ocala Marion Co.	22	Afternoon	-	-	8	1	0	0	Lightning
Orlando Orange Co.	25	Afternoon	-	-	0	0	-	-	Heavy Rain
			Vigorous thunderstorm dumped 7.95 inches of rain in 2 hours on Orlando Airport causing severe local flooding in a limited area and forced evacuation of some residences.						
GEORGIA									
Calhoun, Gordon County	2	p.m.			0	0	3	0	Wind and rain
			Winds damaged roof of textile mill and rain caused water damage to machinery inside. One business building also unroofed and drive-in theater screen blown down. Minor roof damage to several residences.						
South and Central	3	p.m.			0	2	4	4	Wind, rain and hail
			High winds, hail and heavy rains associated with widespread thunderstorm activity caused heavy damage in several south and central Georgia counties. Two boys were injured near Rayley, in Appling County, when the roof of a shed was blown down on them. A floating boat-house was destroyed by wind on Lake Sinclair. The County Police radio tower was blown down in Savannah, crushing one automobile and severing power lines. Electrical and telephone service was disrupted in many parts of the City. Hail and high winds caused major damage to crops in Colquitt County with tobacco being hit hardest. Wind, hail or lightning damage was also reported in Milledgeville, Macon, Columbus, Americus and in Jones and Calhoun Counties.						
Columbus	5	12:45 p.			0	1	4	0	Wind, rain and electrical
			Winds estimated at 70 mph hit the Columbus and Fort Benning area. A small airplane was ripped from its moorings and demolished, and two other planes were damaged at Municipal Airport. A Fort Benning soldier was injured when struck by lightning. Several buildings were also struck by lightning and trees were uprooted.						
Richmond County, SE of Augusta	7	12:45 p.							Funnel cloud
			Funnel cloud reported by ABC Patrol across Savannah River from ABC Plant.						
South Central Area	11	p.m.			0	0	3	4	Wind, hail, rain and electrical
			Severe thunderstorms in several south Georgia counties caused damage to buildings, trees and crops. Most of property damage caused by wind and lightning with crop damage due to hail and high winds.						
Lake Allatoona, Bartow County	23	7:15 p.			0	1	5	0	Wind
			A sudden squall, with winds estimated between 60 and 70 mph, caused major damage to a large boat landing and varying amounts of damage to several boats. One woman suffered a back injury.						
IDAHO									
Jefferson and Madison Counties	16	Near Sunset			0	1	0	0	Wind
			Structural damage reported from Menan and Lewisville to vicinity of Rigby. Heaviest damage 1/2 mile north of Rigby where storm was described as "twister". Roof of barn blown off on one farm; on another, roof of dairy barn was lifted and split with one half landing 100 yds to the northwest, the other half 200 yds to the northeast. Plank from roof driven through another shed killed one heifer. Tree limbs were torn off like match sticks, falling on power lines and cutting off service to some 2000 customers.						
Middleton, Canyon County	19	9:00 p.					3		Wind
			Following a day of record-breaking temperatures a "whirlwind", probably associated with a thunderstorm, struck a home north of Middleton, tearing off most of the roof and carrying household goods, including furniture, several hundred yards. On a nearby farm metal grain bins were moved several feet from their cement foundations, a field of sweet corn was flattened and several trees were blown over.						

See reference notes at end of table.

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JULY 1960

PLACE (Georgia)	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
IDAHO (Cont'd.)										
Nes Perce, Clearwater and Idaho Counties	19-20	Night					4		Lightning	
			Nearly 3000 acres of pasture, wheat and barley were destroyed by fires started by lightning.							
St. Anthony and Teton, Fremont County	21	5:00 p.					4		Wind	
			Destructive wind of about 15 minutes duration blew off several roofs, broke plate glass windows, toppled several trees onto power lines, causing 2-hour power outage.							
Homedale to Weiser	30	Night			0	1	0	0	Wind and rain	
			Strong winds and rain accompanying thunderstorms did considerable structural and crop damage in Homedale-Wilder area. Trees blew down in the vicinity of Parma. Considerable damage to ripened grains and cut hay near Weiser.							
Cassia County	30	Afternoon					4		Hail and rain	
			Hail cut wide swath through Burley Irrigation Project, centered principally south of Starrs Ferry and north of Pella. Potatoes, beans, barley and wheat severely damaged by hail on hundreds of acres. Flash floods east end of county gutted hay and grain fields in the vicinity of Almo and Elba and washed out a county bridge.							
Bannock County	31	Afternoon			0	1	0	0	Hail and rain	
			Wall of water swept across a farm yard 5 1/2 miles west of Lava Hot Springs, damaging house, shops and farm equipment. Hail up to 1 inch in diameter destroyed more than 500 acres of grain 4 to 5 miles northeast of Arimo. Flash flood washed out portion of county road and carried away much fertile topsoil.							
ILLINOIS										
Northeastern Illinois	2-3	7:00 p-1:00 a			0	0	6	0	Wind, electrical rain, 2 funnel clouds	
			Heavy thunderstorms with wind gusts estimated as high as 80-100 mph were reported throughout northeastern Illinois damaging many trees, utility lines and homes. Heaviest damage was in the Joliet, Kankakee and Manteno areas. Heavy rain caused flash flooding in the Rockford and Chicago areas (41 viaducts flooded). Lightning struck homes in Geneva and Deerfield.							
Joliet-Manteno	2-3	11:42 p-1:00 a	25	15	0	0	5		Tornado	
			An intermittent tornado, moving from the northwest at about 25 mph demolished a barn and blew out the side of a house trailer on a farm one mile south of the Joliet airport. Two buildings were destroyed at a sports club across the street from the farm with several building blocks carried a distance of about 200 feet. The tornado was sighted at Manteno at trestle height and hit the ground in the rural areas. One large tree fell through a house trapping a couple in their bed. Numerous farmsteads were damaged.							
Macomb, Ashland	12	night			0	0	4		Rain	
			Heavy rains flooded basements and streets with water reaching the hoods of some parked cars.							
Ashland	13	early morning			0	0	3		Electrical	
			Lightning struck a home causing a fire in the basement.							
Rockford	18	night			0	0	4		Rain, electrical, winds, hail	
			Lightning struck a power line at furniture plant, also knocked out power in west end of city. Numerous trees blown down. Heavy rain and small hail caused minor damage.							
Chicago and suburbs	22	evening			0	1	5		Wind, rain, lightning	
			Thunderstorm activity with winds up to 52 mph felled trees and powerlines. Heavy rains caused flooding of streets and basements. A carnival worker was injured when struck by lightning. Power was interrupted in LaGrange as a result of severe lightning. Also, lightning knocked a chimney down in Chicago. Four men were thrown into Lake Michigan when high waves hurled their 18 foot coat on top of the breakwater off 95th street. At Hinsdale six homes and several garages were damaged and about 200 power lines broken from high winds and falling branches.							
McClure	22	6:30 p			0	0	4		Electrical	
			Lightning destroyed barn containing 1500 bales of hay, other items.							
Joliet	22	evening			0	0	4		Electrical	
			Lightning set fire to church as minister was preaching. Entire interior of structure was burned out.							
Macomb, 2 miles SE	24	6:25 p			0	0	0		Funnel cloud	
			State police reported funnel cloud dipped down close to ground and then went back into cloud.							
ILLINOIS (Cont'd.)										
Monmouth	25	early morning					0	0	3	Electrical
			Lightning killed 35 hogs, also damaged shed.							
Edwardsville	25	3:00 p					0	0	3	Electrical
			Lightning killed 6 purebred cattle valued at about \$400 each.							
Pekin	25	morning					0	0	3	Electrical
			Lightning struck home causing about \$2500 damage.							
Springfield	25	8:41 a					0	0	1	Electrical
			Lightning struck a home causing minor damage.							
Clay City	25	3:30 p					0	0	4	Electrical
			Lightning set fire to home causing considerable damage.							
Rock Island	25	morning					0	0	1	Electrical
			Lightning struck 2 homes and a tree.							
Atlanta, 10 Miles NW	26	11:40 p					0	0	0	3 funnel clouds
Springfield	26	10:00 a					0	0	1	Electrical
			Lightning destroyed 2 flags atop the Illinois capital building.							
West Frankfort, Herrin	27	evening					0	0	1	Electrical
			Lightning struck 2 homes causing minor damage.							
Moline, 8 Miles NE	29	10:00 p					0	0	?	Hail, wind
INDIANA										
White County eastward to Huntington County	3	1 to 2 A	?	?	0	0	4	4	Wind, rain	
			Scattered damage to crops resulted from high winds and heavy rain.							
Lake Shafer, White County	3	1 to 1:30 A	?	?	2	1	4	0	Wind	
			Tree fell on a house trailer killing one person and injuring another. Boat on Lake Shafer swamped by the storm and the single occupant drowned.							
Logansport, Cass County	3	1 A	?	?	0	2	6	0	Wind	
			Injuries caused by trees falling on buildings, trailers, and cars. Extensive scattered damage to property caused by severe thunderstorm winds.							
Peru, Miami County	3	1:15 A	?	?	0	30	6	0	Wind	
			A number of injuries occurred when severe winds struck a trailer park in east section of City damaging 10 trailers. Several factories hit hard by winds. Furniture factory damage estimated at \$500,000. Hundreds of trees, power and telephone lines and TV antennas blown down. Several cars crushed by falling trees. Numerous roofs damaged.							
Kokomo, Howard County	3	1 - 2 A	?	?	0	0	5	0	Wind	
			Eight trailers in park two miles northeast of city damaged beyond repair. Large uprooted trees halted traffic on at least 100 blocks of streets in the city.							
Warren, Huntington County	3	about 2A	?	?	0	0	4	3	Wind	
			Cannery, large barn and one home damaged when winds raced through a four-block area. Grain fields suffered some damage.							
Connersville, Fayette County	3	5 A					0	0	0	Funnel cloud
			Funnel cloud reported by State Police.							
IOWA										
Spirit Lake	11	5:25 p.	1	300			5	4	Tornado	
Dickinson County	11	5:30 p.					4	5	Hail	
			Severe thunderstorms with hail to the size of baseballs, high winds and heavy rains associated with a squall line caused damages to crops and property mostly around Montgomery, Spirit Lake and Milford. Hail 80% damage, hail 15% and Rain 5%.							
SN Storm Lake	11	6:15 p.	5	1500			5	4	Tornado	
			Tornado associated with squall line causing associated hail, wind and rain loss as it moved southeastward. Buildings on five farms demolished. Damage by hail 50%, high winds 25%.							
SE Iowa	12	1:00 p.					5	4	Heavy rains	
			Flash flooding from Amara Colonies, What Cheer and Ottumwa through Keokuk. Highest water level in 20 years at What Cheer.							

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
IOWA (Cont'd.)									
Joice	17	3:00 p.					5		Hail
Extensive area of marble size hail.									
7N Milford	17	5:00 p.					4		Hail
One inch hail.									
E of Parkersburg	23	3:28 p.	50				3		Tornado
Pilot reported a tornado touched ground in open field.									
Larchwood	25	11:54 p.	2	150			5	4	Tornado
Maquoketa	25	7:30 p.	1	50			4		Windstorm
Waterloo	26	5:00 p.					4		Hail
Fayette & Clayton Counties	26	5:30 p.							Hail
One inch hail.									
1NW Davenport	26	7:30 p.					4		Hail
Earlville	26	9:00 p.			1				Lightning
6SE Oskaloosa	29	3:20 p.	2					4	Hail
One inch hail.									
Fairfield	29	5:45 p.	1					4	Hail
1 to 1½ inch hail.									
KANSAS									
Harvey County	2	12:30am							Wind
Local damage near Burton resulted from a locally severe wind that seemed to have some tornadic characteristics. Sheds, and fences were blown over and parts carried for a distance of 1/8 mile. A number of trees were uprooted.									
Wyandotte County	2	2:30am-4:00am							Electrical and wind.
Lightning was unusually severe about 2:45pm. Four buildings in Kansas City, Kansas were struck but without serious damage. Numerous trees were struck. Power failures were frequent due to ruined transformers and from broken power lines where branches fell on them.									
Osage County	9	early AM							Electrical
Three cows were killed when struck by lightning in a pasture near Burlingame. Their small calves survived.									
Pottawatomie County	10	1:05 am							Funnel cloud
A funnel cloud was reported 6 miles east of Manhattan, no damage, lasted only a few minutes.									
Mitchell County	11	evening							Electrical
Lightning struck a tractor near Hunter knocking out the electrical equipment, but not injuring the driver.									
Scott County	11	8:00pm				2			Electrical
Lightning struck a wind charger on a farm in southeast part of county. A dog was killed and leaves on trees burnt 250 feet from the wind charger tower. Some electrical appliances were damaged.									
Shawnee County	12	5:00am-11:00am				2			Electrical
Lightning did minor damage at 7 Topeka homes during the morning, especially about 11:00am.									
South Central and southeast Counties	12	4:00pm-7:00pm			5	4			Wind, tornado, (5) electrical, hail.
A severe thunderstorm over a large southeastern section of the state produced numerous wind damages and lightning strikes. The storm struck near Burlington and Emporia about 4pm where several barns were destroyed by severe winds. (\$2,000. wind). From about 4:45pm to 5:00pm Wichita and vicinity as far south as Winfield and east to Augusta, were buffeted by winds and lightning. Five boys were injured when the tree under which they took shelter was struck by lightning. Lightning strikes over the area were numerous but with minor damage generally. Wind damaged buildings, trees and power lines resulting in many temporary outages. Near Clearwater in southern Sedgewick County a tornado dipped at 5:05pm and destroyed a barn. Lightning caused about \$1,200 damage at a home in Augusta. Heavy hail was reported in the Forest Hill section of Wichita. Severe wind and lightning caused damage to a number of buildings along the Kansas-Missouri border about 6pm from Columbus as far north as Paola. Fifteen head of cattle were killed in western Cherokee County. Over Allen and Bourbon Counties strong winds uprooted trees, damaged power lines and roofs, and flattened crops.									
Republic and Cloud Counties	16	about 7pm							Severe wind and hail
A severe wind blowing from the east damaged several barns over Republic County from near Republic to Eydah. Hail damaged sorghums and corn south of Republic. In northern Platte County a barn or two and some sheds were destroyed by wind and an outdoor movie screen was blown over. Numerous electric outages occurred.									
South Central Counties	16	night							Electrical (2)
Lightning struck near Newton and Belle Plaine destroying a shed near Newton and splitting a large tree in Belle Plaine.									
Sherman County	16	night							Winds
Strong winds toppled a 150 foot television booster tower north of Ockland.									
KANSAS (Cont'd.)									
Jackson County	17	2:00pm-3:00pm							Hail
Severe crop damage resulted from wind driven marble sized hail over several square miles southwest of Soldier.									
Saline and Marion Counties	17	afternoon							Hail
Hail damage crops near Gyssum in Saline County and from Hillsboro to Marion. Windows were broken in green houses in Marion.									
Sumner, Sedgwick, Cowley, and Chautauquan Counties	17	4:00pm-6:00pm					3		Hail, electrical and wind.
During a severe thunderstorm over this area with damage at many places from hail and winds. Crop damage from hail was limited but many trees, signs, sheds, barns and transmission lines were destroyed. A school house in Wichita was damaged by lightning (\$1000).									
Crawford County	18	1:00am					3		Electrical
A large barn and contents of 100 tons of hay were destroyed by fire started by lightning.									
Neosho County	18	2:00am					4		Electrical
A grain elevator in northeast Neosho County at Stark was struck by lightning and burned with all its contents of 11,500 bushels of wheat and some other grain.									
Sumner, Sedgwick and Butler Counties	22	11:00am-4:00pm							(3) Funnel clouds (1) tornado
Three funnel clouds were sighted as follows: (1) a few miles south of Belle Plaine at 11:20am, (2) 14 miles east of Wichita in the Andover area at 12:33pm, (3) 6 miles west of Wichita at 12:58pm, and the tornado was sighted 10 miles west of Eldorado but disappeared about 3 minutes later, no damage. Travelled northeast.									
Coffey, Labette, and Cowley Counties	24	afternoon							4 funnel clouds
During the afternoon 4 funnel clouds were sighted as follows: (1) at 12:30pm 7 miles west and 3 north of Chanute, (2) at 1:26pm 12 miles west of Parsons; and (3) at 6:05pm near Parsons, (4) at 6:16pm, 5 miles north of Wilmot. All were short lived and caused no damage.									
Decatur County	25	7:30pm				12			Hail
Severe hail damaged crops over a 12 mile strip beginning 5 miles east of Oberlin. Crops were damaged 50 to 90%. Hail path extended northeast.									
Central Counties	26	4:00pm-10:00pm					4		Hail, electrical (6) severe wind
Numerous local areas across the central counties were damaged by wind and hail. In Horton County hail and wind occurred about 4:30pm and the storm hit near Wellington about 11:00pm. Electrical service interruptions were frequent from both lightning and winds blowing broken branches onto wires. Windows, signs, and buildings were damaged by high wind and crops in a number of localities in McPherson and Barton Counties were badly damaged by hail. In northern Barton County some of the stones were as large as baseballs. Lightning strikes were reported to have done major damage near Council Grove about 7:30pm, at 2 places near Great Bend where one grain elevator was struck and burned between 7 and 8pm. In Lyons a church was damaged and near Hutchinson a farm house was partially burned after a bolt struck. At 10:26pm a house in south Wichita was set afire by lightning and destroyed. A barn west of Wellington was destroyed by fire after lightning struck at 10:50 pm.									
Riley County	27	10:30am			1	1			Electrical
One soldier was killed and one injured when lightning struck them while training on the firing range at Fort Riley.									
Miami County	27	3:45pm				1			Electrical
A man sitting in a steel chair under a tree was injured slightly by lightning.									
Eastern Rawlins and Western Decatur Counties	28	5:10pm-5:35pm	16	*3			4	4	Hail and severe wind.
Severe hail accompanied by violent winds damaged crop and buildings over a path from west of Berdon to 9 miles west of Oberlin. Storm moved southeast. Ground was covered 2 inches deep with hail. Some stones were hen egg and baseball size. At Berdon there was evidence of near torpedic winds. Winds were estimated up to 120 miles. Hailed fields looked as if they had been mowed. The storm moved across the line from Nebraska.									
Logan County	28	evening							Hail and wind.
Near Page City in north central part of county hail and wind caused damage at several farms. Veggies, milo, and corn were stripped. High winds accompanied the hail and caused some building damage.									
Morris, Chase, Harvey, Sedgwick and Butler Counties	29	12:30pm-6:00pm							Hail, (2) tornadoes, severe winds, and (3) electrical
As a thunder storm moved from north to south over this area locally destructive winds and hail resulted in crop losses. Hail was near golf ball size in southwest Chase County. Two tornadoes simultaneously travelled south a short distance 8 miles south of Leon at 4:15 pm. They touched ground in an open area and then disappeared. Three lightning bolts destroyed 2 barns and set fire to several oil storage tanks.									

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
KENTUCKY									
Central & Eastern	3	Afternoon			1		*6	C	Heavy rain, lightning and windstorm
									Heavy thunderstorms caused slight damage from flash flooding and lightning in western and southern portions of the area but heavy damage from flash flooding, lightning, and winds in Fayette, Clark, Bourbon, Mason, Fleming, Lewis, Rowan and Carter Counties. Most serious damage was in Morehead which the American Red Cross declared a disaster area as a result of severe flash flooding which caused about 1,000 persons to be evacuated from their homes. Other reports included a railroad bridge washed out east of Mayville, several businesses flooded in Flemingsburg, heavy damage to crops in Lewis county, several barns damaged throughout the area and washed out roads at scattered spots throughout the storm area. One person was injured near Boonesboro when the car in which she was riding was struck by a large falling tree.
Paducah	25	3 PM			2	2			Lightning they took refuge under a tree during a brief electrical storm.
Monroe County	26	Noon					*4	C	Electrical and rain storm
									Tobacco and corn crops damaged slightly by rain. One cow killed by lightning in a pasture near Tompkinsville. Drive-in theatre at Tompkinsville struck by lightning with heavy damage.
LOUISIANA									
New Orleans (Algiers)	11	2:00 pm	3	?	0	0	4	0	Windstorm
									High winds damaged several homes, caused widespread minor damage.
Bellerose Assumption Parish	11	3:25 pm	?	?	0	0	5	0	Windstorm
									Struck Lula Plantation and Bellerose Airport.
Baton Rouge 10 mi. N	13	1:00 pm	-	-	0	0	4	C	Hailstorm
									Hail stones up to marble size caused crop and property damage.
Lake Charles 15 mi. SSW	19	1:00 pm	-	-	0	0	0	0	Waterspout
Burrwood, west of Lake Pontchartrain	19	5:15 pm	-	-	0	0	0	0	Waterspout
Tallulah	29	8:00 pm	-	-	0	0	4	0	Wind and electrical storm
									Weather Bureau instrument shelter blown over, roof damage, trees, electric wires.
Lake Charles	31	11:15 am							Funnel clouds (3 reported)
MAINE									
Farmington and vicinity	3	7-9 P.M.			0	0	4	0	Rain
									Washing and flooding rain damaged roads and driveways and flooded homes and store basements.
Central and East Central Portions	11	Evening			0	0	4	0	Electrical, wind
									Lightning destroyed a factory wall under construction at Hampden and fired a home at Sherman. Winds felled trees in Dover-Foxcroft, crushing one auto, and trees and limbs in other areas, causing utility outages.
State	12	P.M.			1	0	5	4	Electrical, wind, rain, hail
									Property damage caused mainly by lightning. Blueberry processing plant near Rockland received \$250,000 loss. Several houses and barns were destroyed and others damaged by lightning elsewhere in State, with combined additional loss from \$50,000 to \$100,000. One death at Bremen from lightning. Some damage to utilities from lightning. Wind felled numerous trees and branches, some falling on and damaging homes as well as utilities. Excessive rains caused street flooding and road washouts in scattered areas. Considerable hail in scattered areas of Aroostock County, the Selden-Wyman area, and at Roadfield Depot, with damage to crops, gardens, and tree-fruits estimated near \$10,000. Hail size ranged to 1/2 inch or more.
Augusta and vicinity	13	P.M.			0	0	4	0	Wind, rain, electrical
									Winds with gusts measured at 88 m.p.h. at Augusta Airport caused considerable damage to trees and utilities in the local Augusta area, toppled a chimney, and inflicted minor damage to several airplanes. Over 3 inches of rainfall flooded some cellars and caused some washouts. Minor lightning damage was reported.
Old Town and Stillwater, Penobscot Co.	23	2 P.M.			0	0	4	3	Hail, electrical, wind
									Hail accumulated to depths up to 1 1/2 inches, with sizes ranging mostly less than 1/2 inch but some to 1 1/2 inch in diameter. Windows were broken, roofing and siding damaged, and gardens extensively damaged. One house damaged by lightning. Wind felled trees and downed power lines.
MAINE (Cont'd.)									
State	30-31	P.M. and A.M.			0	0	4	0	Wind
									Tropical Storm Brenda brought minor damages from falling trees and limbs throughout the State and a few cases of damage to boats and installations along the Coast. The storm center passed near the northwestern border of State. Rainfall totals ranged from less than 1/2 inch to more than 2 1/2 inches.
MARYLAND									
Harford County and Cecil County	3	Evening	?	?	0	0	*4	C	Severe Thunderstorm
									A severe thunderstorm struck portions of Harford and Cecil Counties and caused considerable damage to trees. Utility company crews worked through the night and the next day repairing equipment and broken power lines. County highway men were called out to clear the roads of fallen trees. In Cecil County strong winds downed the end walls of a bowling alley under construction with losses estimated at \$15,000.
Towson, Baltimore County	8	Afternoon	Short	Narrow	0	0	0	0	Severe Whirlwind
									An unusually large dust devil struck a section of Towson sucking up dust and debris, uprooting a back yard umbrella and damaging a plastic swimming pool. It lasted only a few minutes.
Southern Maryland and Lower Delmar Peninsula									
	29-30	Night	100	*10-20	0	0	*4	C	Tropical Storm BRENDA - Heavy rains and strong winds.
									As tropical storm BRENDA moved northeastward from St. Marys County, Md. across the Chesapeake Bay and central portions of Delaware during the night of July 29-30, Great Mills, St. Marys County was apparently the hardest hit section. Heavy rains and winds swelled tides to three to four feet above normal. The head of the St. Marys River overflowed its banks and at its peak, at about 7:00 A.M. EDT on the 30th, stood four feet over the road. About 12 families had to be evacuated in Great Mills as Route 5 remained impassable until about noon. The worst part of the storm hit between 1:00 and 3:00 A.M. on the 30th when about 3/4 inches of rain fell, according to Patuxent NAS weather observers. Five other county roads in St. Marys County were damaged. A limited amount of damage to telephone and electric lines resulted from falling trees during the windstorm. Scores of small boats were swamped by the torrential rains, raising tides and strong winds. Damages on the Eastern Shore and central Delaware were generally confined to local flooding and erosion damage to roads and bridges with some light damage from falling trees and some losses to crops. However, benefit of rain to crops exceeded damages to crops.
Southern portion of Queen Annes County									
	29	1:30PM-1:45PM EST			0	0	0	0	Funnel Cloud
									A Federal Aviation Agency pilot reported a funnel cloud during a rain squall with a 2000 foot overcast sky. The funnel cloud was estimated at 800 feet above the ground.
MASSACHUSETTS									
Essex Co., Northwestern portion	1	5 P.M.			0	0	3	0	Rain, electrical
									One to two inches of rain falling at an excessive rate for a short time flooded numerous streets and cellars. High pressure in sewer system caused man hole covers to fly off, with one hitting and damaging an auto in Methuen. A minor injury was indirectly attributed to the storm. Lightning knocked 100 phone lines out of service.
Northwestern section	3	6-8 P.M.			0	0	4	0	Wind, electrical, rain
									Wind downed trees and limbs, causing power and phone failures in scattered areas and damaging a house in North Adams. Lightning knocked out additional phone lines. Heavy local rains caused numerous road washouts.
Greater Boston	3	8-10 P.M.			0	0	3	0	Rain
									Heavy rains caused local flooding some sections and general cancellation of many night-before-the-Fourth celebrations.
Methuen	13	4 P.M.	Very short		0	0	1	2	Tornado
									Described as "baby twister." Some trees uprooted, others were broken off at the trunk. Very little property damage. Doors blown open and loose objects blown about. Some crop damage from flooding and washing heavy rains immediately following storm.
Greater Boston	13	Evening			0	0	4	0	Electrical, rain, wind
									Lightning started church fire at Medford, at which 4 firemen were injured. Ten homes struck by lightning in suburban communities, with 2 fires resulting. Locally heavy excessive rains flooded streets and underpasses, delaying thousands of autos in evening rush hour. Some cellars flooded. Some wind damage to trees, causing minor utility outages.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1960

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					KILLED	INJURED	PROPERTY	CROPS		
MASSACHUSETTS (Cont'd.)										
Northwestern and North-central Portions	19	Evening			0	0	4	0	Electrical, rain, wind, hail	
			Numerous but mostly minor damages scattered throughout area, including lightning damage to utility lines, wind damage to trees and utilities, and washouts and street flooding from heavy rains. Small hail in several areas but no damage reported.							
Marblehead	27	P.M.			0	0	3	0	Wind	
			Wind broke masts of 13 boats taking part in Race Week activities.							
State	30	Daytime			0	0	5	3	Wind, rain	
			Tropical Storm Brenda moved northeastward across the State in the vicinity of the Connecticut River bringing winds mostly 20 to 30 m.p.h. with many instances of minor damage to utility lines from fallen limbs and a few fallen trees. Wind damage was most numerous in the extreme eastern, southeastern, and Cape Cod portions of the State, as peak gusts of wind ranged up to 50 to 70 m.p.h. in the Cape Cod area. Damage to boats and coastal installations accounted for a large share of total losses. A house was damaged by a falling tree at North Reading and an auto was smashed at North Attleboro. Rainfall totals mostly ranged from 1 to 3 inches and some washing and flooding losses occurred. Some cellars were flooded. Combined rain and wind damaged some corn.							
MICHIGAN										
Southern Half of Southwestern Lower Michigan	2-3	10:00p. 2nd - 3:00 a. 3rd					4	4	Thunderstorms with high winds, heavy rain and electrical.	
			High winds toppled trees on cars causing serious damaging and completely wrecking several. Power lines severed by falling trees cutting service for a couple of hours at St. Joseph, Michigan. Roads, streets and several bridges blocked by felled trees. TV antennas blown down. Sour cherry fruit tree crop damaged by high winds. Numerous buildings and roofs damaged by high winds. Lightning bolt caused fire which destroyed farm barn and contents in Oshtemo township. Wind blew roof off bath house at Quincy, Michigan.							
Alpena 208	16	1:30 p							Funnel aloft	
			A funnel cloud aloft observed by several persons in the Nicholson Hill-Spruce area, 20 miles south of Alpena for about 10 minutes. The funnel extended from a 5 thousand foot base cloud to within 200 feet of the ground for about 10 minutes then disappeared back into the base cloud which moved off in an easterly direction.							
Southeastern Lower Michigan	17	3:00 p 10:00p					4		Thunderstorms with high winds, lightning and heavy rains.	
			Lightning bolts hit transformers and severed power line wires in Saginaw, Michigan area cutting power service to many homes for several hours. Three fires caused by lightning at Ann Arbor, Michigan damaging an apartment building, house and a garage. High winds blew down trees, blocking roads and streets and felled trees cut power lines in Ypsilanti township.							
Reading 4W	18	2:30 a.					4		Electrical	
			Lightning caused fire which destroyed farm barn including contents of mow of hay, farm machinery and chickens.							
Marquette	21	12:30 a					4		Thunderstorm with high winds, hail and heavy rain.	
			Streets and sewers damaged by heavy rains. Power lines severed by falling trees due to high winds interrupted service to homes. Many tree fires caused by broken wires.							
Battle Creek	22	11:00 a			1		4		Thunderstorm with high winds, heavy rain and lightning.	
			Arm of 10 year old girl burned when struck by bolt of lightning. Felled trees damaged homes and garages. Power service cut to nearly 500 homes due to power cables being severed by high winds. Minor flooding of streets caused by heavy rain.							
MICHIGAN (Cont'd.)										
Southern Lower Michigan	22	5:00 p, 10:00 p						5	5	Thunderstorm with high winds, heavy rain, hail and lightning.
			Wind gusts estimated at 104 mph Detroit City Airport seriously damaged 8 airplanes and three cars there. Sears, Roebuck plate glass store window blown in at Grosse Pointe Farms, Michigan. Felled trees severed							
Southern Lower Michigan (Con't)	22	5:00 p, 10:00 p						5	5	Thunderstorm with high winds, heavy rain, hail and lightning.
			power lines cutting service to hundreds of homes. Numerous homes, buildings, house trailers and cars damaged by falling trees due to high winds. Several cars, trucks and house trees were blown over and damaged. Roof and one end of factory building of Western Stamping Company of Jackson, Michigan blown off due to high winds. Two men standing nearby a truck by the factory were struck by lightning but not injured. Southwestern Michigan tree fruit crop heavily damaged by hail up to 1" in diameter and high winds especially near Fennville. Some orchard owners reported complete crop losses of fruit due to hail. Southeastern Lower Michigan grain crops suffered damaged by hail.							
Bark River 4NE	25	9:50 p.						4	Electrical	
			Lightning set fire to Butler farm barn 4 miles north-east of Bark River. This large barn and contents completely destroyed with estimated loss of \$22,000.00.							
Hart	26	1:00 a, Noon						4	Heavy rain	
			Heavy rains amounting to 3.89" from 1:00 A.M. - Noon, flooded numerous basements causing serious home and contents damage. Streets flooded and county roads washed out by the heavy rain with repair damage heavy.							
Southwestern Lower Michigan	29-30	Late evening 29 - early a 30th.						5	5	Thunderstorm with high winds, hail, heavy rain and lightning.
			High winds estimated at 77 mph felled trees and capsized few small boats within the Muskegon and Grand Haven area. Buildings and homes were damaged by high winds and falling debris and tree limbs. Lightning hit transformers and severed power lines cutting service to over a thousand homes in the Grand Rapids area. Considerable damage to tree fruit crop due to hail up to 1/2" in diameter and high winds.							
Ishpeming	29	7:30p					1	4	Lightning	
			Lightning caused two house fires, seriously damaging the second story of one home plus the contents. Only the side of the other home was damaged. A fireman on a ladder was struck by lightning and slightly injured on the arm and side while fighting one of the fires.							
MINNESOTA										
Western Polk County	1	6:00 p.	25	* 5				6	Hail, rain	
			Hail and heavy rain damaged grain, sugar beets and peas in an area running from near Bygland southwesterly to near Betrami. Storm moved southeast. Spotty hail damage also reported in Norman County.							
Mahnomen, Mahnomen County	1	10:00 p.						3	4	Hail
			Hail damaged crops over about 40 square mile area.							

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STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1960

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					KILLED	INJURED	PROPERTY	CROPS	
MINNESOTA (Cont'd.)									
Big Stone, Swift and Chippewa Counties	2	3:00 p. - 5:00 p.	50	*2-3	3	5	6		Hail, wind, rain
									Hail shredded corn, flattened grain and hay, and pounded soybeans into the ground in a strip extending from Elinton to Montevideo. Leaves and bark stripped from trees. Hail stones piled up to a depth of 4 feet in low spots. One farmer reported loss of 2000 turkeys. Twelve barns demolished, many outbuildings destroyed and several homes damaged by wind. Near Appleton 45 cars of a moving 174-car freight train derailed by the wind, one car destroyed, 2 planes were damaged and one moving automobile flipped over. Hundreds of power lines and trees downed. In Big Stone County alone cost to repair power lines and poles estimated near \$10,000. Total crop acreage affected near 61,000 acres. The three county area was designated a disaster area. The storm moved southeast from Houston exceeded its banks by 1.5 feet cresting at Hokah at 4:46.6 feet. Flood stage is 4.7 feet.
Caledonia-Freeburg area, Houston County	2	3:00 p.				3	4		Rain
									Rain up to 4 inches flooded and eroded farm land washing out and burying crops. Many miles of fences knocked down. Several bridges and county roads washed out. Stores and homes in Freeburg flooded with silt laden water. Official rainfall at Caledonia from 3:40 p. to 8:35 p. was 3.53 inches. The Root River downstream from Houston exceeded its banks by 1.5 feet cresting at Hokah at 4:46.6 feet. Flood stage is 4.7 feet.
Stewartville-Simpson Area, Olmstead County	2	4:00 p.	15	*2-3			4		Hail
									Hail up to one inch in diameter damaged crops.
South part, Lincoln County	11	5:00 a.					4		Hail
									Hail damaged crops in 2 by 7 mile area. Storm moved east and south.
Tyler, Lincoln County	11	4:00 p.					4		Hail, wind
									Hail damaged houses and crops. Several barns downed by wind. Storm moved southwest.
Worthington near, Nobles County	11	4:00 p.				3	4		Hail
									Hail damaged crops in 5 sections northwest of Worthington.
Slayton, Murray County	11	5:30 p.	4	1500			5	4	Wind, rain
									Strong winds bent three 100 foot baseball light towers to the ground and unroofed grandstand with flying debris damaging two homes, one extensively. One trailer home destroyed and 12 damaged. Trees, TV aeriels, light and phone lines downed. Several barns and outbuildings damaged. Crops beat down by wind. Official rainfall at Dayton was 2.90 inches from 5:30 p. to 6:10 p. Storm moved east northeast.
South central Jackson County	11	6:00 p.	9	*1 1/2			5		Hail, rain
									Hail averaging 1/2 to 3/4 inch in diameter and rain unofficially reported at 4 inches and falling in one hour damaged crops.
Gaylord, McLeod County	11	4:00 p.							Funnel aloft
									Funnel cloud aloft observed and photographed. Funnel visible for about 30 minutes.
Northwest part, Swift County	17	a.-p.	1-5	*1-2		3	4		Hail
									Pea sized hail caused spotty crop damage. Storm moved southeast. Isolated hail damage also reported over Yellow Medicine, Chippewa, Kandiyohi, Lincoln, Lyons, Murray, Rock, Nobles and Pope Counties.
Litchfield 58, Meeker County	17	3:00 p.							Funnels aloft
									Three funnels observed, one touching the ground momentarily with no damage reported.
Twin Lakes (near), Freeborn County	22	5:00 p.	4	* 1/2			5		Hail
									One half to three quarter inch hail caused 10 to 15 per cent crop loss Twin Lakes area. Storm moved southeast.
Jackson (near), Jackson County	22	6:00 p.	4	* 1			4		Hail
									Storm moved eastward. Some hail loss also reported for parts of Martin and Faribault Counties.
Hitterdal 5NE, Clay County	24	9:00 p.					4		Possible tornado
									Barr blown down.
Biscay (near), McLeod County	26	12:00 p.							Funnel aloft.
									Farmer reported perfect funnel cloud, not touching ground, and moving to the south.
St. Peter SSE, Le Sueur County	26	1:00 p.	5	* 2			4		Hail
									Hail, up to size of quarters, riddled corn; flattened and shelled grain.
MINNESOTA (Cont'd.)									
Minneapolis, Hennepin County	26	4:00 p.						4	Electrical
									Lightning knocked out a transformer disrupting electrical service to veterans hospital and military reservation for several hours requiring use of emergency power.
Grant-Stearns Counties	28	6:00 p.						4	5 Hail, wind
									Hundreds of acres of corn and grain fields stripped and laid low by the hail and wind in southern Grant County extending southward into Stevens County. Farm homes and barns suffered heavy damage to their siding, many windows were broken. Hens and barn roofs were pitted, many will have to be replaced. Spotty hail damage also occurred in parts of Becker, Traverse, Big Stone, Lac Qui Parle, Yellow Medicine, Chippewa, Stearns, Morrison, Benton and northern Wright Counties the afternoon and evening of the 28th.
Carlisle 4NW, Otter-tail County	29	3:00 p.						4	Possible tornado
									Barr demolished on one farm and buildings damaged on four other farms. Trees twisted and uprooted. Baled hay scattered over a wide area.
Southwestern Ottertail County and northwestern Grant County	29	3:00 p.						4	Hail, wind
									Hail storms centered over western in Ottertail County and Wendell-Wibow Lake in Grant County doing considerable damage to corn, soybeans and grain. Leaves on corn stalks completely stripped on several fields. Isolated hail damage also occurred over parts of Polk, Norman and Red Lake Counties as well as Wilkin, Big Stone, Stevens, Pope, Chippewa, Pipestone, Cottonwood and Benton Counties. This hail storm was practically over the same area of the hail storm of the day before, the 28th.
Eastern part, Stevens County	29	5:00 p.	9	3000				5	Hail, wind
									Corn and soybeans destroyed, trees and small buildings damaged.
MISSISSIPPI									
Vicksburg, 4 mi. NW	5	12:30 pm	Short	Narrow	0	0	4	0	Tornado
									Moved from NW over short path
MISSOURI									
Marshall, Saline County	1	6:30 p.-8:00 p.						3	Thunderstorm
									Homes, trees, power and telephone lines were damaged.
Salem, Dent County	12	9:45 p.						4	Thunderstorm
									Damage was reported to trees and utility lines.
Caplinger Mills, Cedar County	12	12:10 p.						4	3 Thunderstorm
									Farm buildings, trees, power lines, and crops sustained damage.
12 miles NW. of Stanberry, Gentry Co.	18	4:50 p.							Funnel Aloft
35 miles S. of Vichy, Phelps County	22	11:57 a.							Funnel Aloft
Jasper, Newton, and McDonald Counties	27	5:30 a.						4	Thunderstorm
									Damage to trees and utility lines were reported. Several roofs were also damaged.
MONTANA									
Rock Springs Rosebud County	1	5:00 pm	8	*3	0	0	3	4	Hail and Wind
									Storm about 1 to 4 miles south and 8 miles west of Rock Springs. Average size of hailstones 1/4 inch, largest 1/3 inch. Wind destroyed a steel grain bin.
Conanche Yellowstone County	1	6-6:30 pm	4	*2	0	0	?	4	Hail and Wind
									Hail destroyed about 50% of all grain crops in path. Hailstones 1/4 to 1/2 inch diameter.
Medicine Lake Sheridan County	2	1:00-1:30 pm	4	*2	0	0	2	4	Hail
									All grain crops destroyed in main path of storm. Hailstones about 1/2 inch diameter.
Northern Toole County	3	3:00 pm	60	*25	0	0	3	5	Hail and Funnel Cloud
									Areas affected by the storm were Galata, Ferdie, Kevin, and Sweetgrass. The most intense damage was at Sweetgrass. There was a funnel shaped cloud in storm not reaching ground. The funnel was rising above ground and about 1/4 mile long. Hail up to golf ball size at Sweetgrass.
Northwestern and North Central Daniels County	3	4:00 pm	20	*1/2-2	0	0	0	4	Hail
									About 40 sections were damaged, with damage varying 5 to 75%. Average diameter of stones 1/2 inch, largest stones about 1 inch.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MONTANA (Cont'd.)									
Chester (South of) Liberty County	3	9:00 pm	15	*1-2	0	0	?	?	Hail
					Hailstones up to 3/4 inch, average about 1/2 inch.				
Peerless Daniels County	8	4:30 pm	7	*3	0	0	?	?	Hail
					Size of largest hailstones 1 inch.				
Miles City (East of) Custer County	11	7-7:10pm	4-1/4	*1/4	0	0	?	?	Hail
					Hailstones were 1 to 1-1/2 inches in diameter.				
Wolf Point Roosevelt County	11	5:00 pm	25	*1-2	0	0	0	5	Hail and Wind
					Storm was north and northeast of Wolf Point. There was \$3,000 damage to property and crops from wind, also \$2,000 property damage and \$1,000 crop damage from dust. Hailstones 1/2 to 1 inch in diameter.				
Lustre Valley County	11	5:00 pm	10	*5	0	0	0	4	Hail
Hogland to Turner Elaine County	16	4-4:10 pm	20	*1/4-1/2	0	0	3	4	Hail
					Largest hailstones 3/4 to 2 inches in diameter. Some windows broken. A trailer house at Hogland sustained severe damage.				
Helena Lewis & Clark County	22	2:25-2:28 pm	1	10	0	0	0	0	Tornado
					Very small tornado formed south of airport, advanced to north, and dissipated over airport. Picked up considerable dust.				
Great Falls Cascade County	22	About 4:35 pm	?	?	0	0	?	?	Funnel Cloud
					Funnel cloud observed several miles south of Great Falls WBAS. Did not touch ground.				
NEBRASKA									
West of Glenvil	5	afternoon	1	* 1/2	0	0	0	4	Hail
					50% damage to corn				
Near Atlanta & 2 mi. north of Alma	9	6:30 pm	6	* 1 1/2	0	0	0	4	Hail
Southeastern Nebraska	9	5pm-10pm	3 to 12	* 1/2 to 3	0	0	4	6	Hail and Damaging Wind
					Numerous strips in Adams, Hamilton, York, Seward, Saline, Saunders, Lancaster and Gage Counties with isolated spots in neighboring counties. Individual storms generally moved to the southeast. Storms averaged 1/2" to 1" diameter with maximum size around 2" except in York County where average was 1 1/2" to 2" diameter with maximum 4". Some of the property damage due to high winds.				
Spots across Nebraska	11	early eve	spots	spots	0	0	4	0	Lightning
					11th to 2 am 12th				
					Widespread electrical storms across the State with strikes reported at Kearney, Havena, Palmer, Grand Island, Geneva, Allen, Saint Paul, Enderleke, Sweetwater. Barns and stores burned, houses damaged, livestock killed at several sites.				
Frontier, Lincoln and Logan Counties	11	7:00 pm	-	-	0	0	0	5	Hail & strong winds
					Scattered areas from southern Logan County to northern Frontier. Storms 1" to 2" diameter with largest reported 4" diameter in Frontier. Ground 7% covered. Storm moved NW to SE.				
Hall, Merrick, Hamilton & York Counties	11	9:30pm - midnight	short narrow	0	0	4	4	4	Hail and Damaging Winds
					Damaging winds accompanied by local hail. Gusts to 105 miles per hour recorded at Grand Island at 9:41 pm CST with damage to trees and power lines, buildings, moved eastward reaching Benedict by midnight with winds estimated at 90 miles per hour.				
Near Omaha	11	9:05-9:18 p.m.	-	-	0	0	0	0	Funnel Cloud
					Observed north of Offutt Field				
Near Hastings	16	5:30-5:45 p.m.	12	* 1	0	0	0	4	Hail
					Several strips of hail ranging 1/2 to 1 mile wide and 2 to 12 miles long. Ground nearly covered with stones 1/4" to 1/2" diameter.				
Strips in Stanton, Platte, York, Clay, Fillmore, and Thayer Counties	16	4pm-7pm	4-13	* 1/2 - 2	0	0	0	5	Hail
					Storms mostly 1/4" to 1/2" diameter. Individual storms moved to SE or SW. Damage was heaviest in Thayer and Fillmore Counties where hail accumulated to 2" depth in storm centers. Corn and milo suffered severe damage. Most wheat previously harvested.				
Nern Nebraska, Knox, Antelope, Pierce, Wayne, Wheeler, Boone, Madison Counties	17	2pm-7pm	5-13	* 2-5	0	0	4	5	Hail
					Many individual storms with movement from NE, NW, W, SW AND SE. Storms generally ranged from 3/4" to 1 1/2" but in Boone County ranged up to 3" diameter. Ground covered 1" to 2" in some areas and southern Antelope County reported depths 3" to 10".				
Merrick County	17	8:45pm-9:30pm	-	-	0	0	0	4	Hail
					Scattered areas throughout County. Hail 1/2" diameter.				
NEBRASKA (Cont'd.)									
Spots across Nebraska	17	-	spots	spots	0	0	4	0	Lightning.
					Widespread electrical storms across the State with strikes reported at Scottsbluff, York, Fairbury, Dunbar, Meadow Grove and Ord. Minor damage to houses and power lines; barns and haystacks were burned.				
Southern Nebraska	26	2pm-7pm	1-10	* 1/2 - 3	0	0	5	5	Hail, lightning & damaging winds
					Scattered areas of hail reported during afternoon and evening from Custer, Hitchcock, Red Willow, Furnas, Harlan, Hamilton, Clay, York, Saline, Lancaster and Gage Counties. There was no pattern in the time of occurrence. Some hails fell under calm conditions while others were accompanied by damaging winds. Storms generally 1/2" to 1", some up to 1 1/2" diameter. Storms moved to the east and southeast. Heavy crop damage, unroofed buildings, tree damage, etc. were widespread. Considerable wind damage reported in northeastern Saline, south-western Lancaster, and north-western Gage Counties. A severe storm near Mascot, Harlan County, resulted in many damaged and demolished buildings, automobiles, an estimated 1,000 turkeys. Thirteen head of cattle killed by lightning.				
Nern Nebraska	27	noon till 4:00 pm	30	* 5-8	0	0	4	5	Hail
					Storms generally 1/2" to 3/4" diameter with some to 1 1/2". Ground covered 3" to 4" in storm centers. Major strip from Meadow Grove to Humphrey plus additional strips near Brunswick and Stanton. Storms moved from NW to SE.				
Weissert	27	4:00 pm	short narrow	0	0	0	4	4	Hail
					Storms averaged an inch in diameter with some ranging up to 3". Storm moved from east to west.				
2 miles north Hayes Center	28	3:15 pm	short narrow	0	0	4	0	0	Tornado
					Unroofed buildings and tore down power lines.				
Trenton	28	4:30 pm	-	-	0	0	0	0	Funnel Cloud
SWrn Nebraska	28	3:15pm -7:00pm	3-15	* up to 1 1/2	0	0	4	5	Hail & damaging Winds
					Several strips of hail in Perkins, Chase, Hayes, Dundy, and Hitchcock Counties. Storms moved NW to SE. Storms 1/2 to 1" diameter with some up to 2 1/2". Most damage from hail. Crops total loss in storm centers. Some building and tree damage by wind.				
East of Broken Bow	29	5:30 am	short narrow	0	0	3	4	4	Hail & damaging Winds
					Wind damage to buildings and trees, hail damage to crops.				
NEVADA									
					NONE				
NEW HAMPSHIRE									
Bethlehem-Littleton Vicinity	12	8-9 P.M.			0	2	3	0	Electrical, wind, possible tornado
					Two slightly injured when struck by lightning at Littleton, with some damage to their home. Lightning set trees afire in two locations. At Bethlehem trees felled in various directions, to south, north, and east by possible tornado, but fall pattern and other evidence not conclusive. Storm mentioned in press as resembling a twister.				
State		30 P.M.			0	0	3	3	Wind, rain
					The center of Tropical Storm Brenda crossed the State from the southwestern corner to near the northern end of the Maine border. Resultant damages were confined to very minor but fairly numerous losses from falling limbs and a few fallen trees. These broke some utility lines. Very little damage by the high surf along the coast. Rainfall totals ranged mostly from 1 to 2 inches, and caused minor instances of washing and flooding. Combined wind and rain caused some damage to corn.				
NEW JERSEY									
Ocean County	1	6:00 pm	2	50	0	0	3	3	Tornado
					Waterpout developed over Barnegat Bay, moved across bridge on State Highway 628 at Mantoloking, then continued across bay, passing over Bay Head, then into Atlantic Ocean. Two buildings unroofed, several boats overturned, and power lines damaged.				
Salem and Gloucester Counties	14	12:30 pm	8	450	0	6	5	5	Tornado
					Tornado struck Carney's Point, Salem County, lifted from the ground and increased in intensity, then dropped again at Jefferson, continuing to Barnshero and Sewall in Gloucester County. One large barn demolished; several chicken houses and other outbuildings destroyed; several residences damaged; many trees uprooted; roofs to numerous houses damaged.				
Statewide	30	Morning			0	0	5	5	Tropical Storm BRENDA, Heavy Rain.
					Tropical Storm BRENDA passed over Delaware Bay and moved along a northeasterly course over the central portion of southern New Jersey, then passed off the North Jersey coast and into the Atlantic Ocean. The greatest rainfall from the storm was at Hays Landing, where 5.07 inches of rain fell between 5 p.m. on July 29th and 1 p.m. on July 30th. No tidal flooding reported. Streets and highways flooded in many localities due to excessive rate of rainfall. A broken dam at Woolen Lake, near Mount Holly in Burlington County, resulted in flooding in the business section of Mount Holly.				

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 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 MEXICO									
Tucuman (near)	17	pm			0	0	3	0	Wind (possible tornado)
Two TV towers on nearby mountain completely destroyed.									
Melrose, 5 miles SW	20	11:20 am			0	0	0	0	Tornado
Small tornado observed on ground about 10 minutes over open country.									
Livington (near)	24	2:00 pm			0	0	4	5	Tornado and hail
Small tornado wrecked several farm buildings. Hail did extensive damage to crops in vicinity.									
Socorro (near)	25	pm			0	0	0	4	Hail
Considerable damage to vegetable and cotton crops.									
NEW YORK									
Eastern one-third of State, principally upper Hudson Valley southward to New York City	3	late afternoon			1	0	5		Thunderstorms, strong winds, heavy rain
Cold frontal trough passed across area setting off thunderstorms, with severe lightning, strong damaging winds and heavy rainfall; particularly severe in Schenectady, Albany, Troy, Saratoga, Poughkeepsie, Orange County, Monticello and parts of Long Island. Wind downed trees and knocked out power and communication lines; lightning caused many fires in above areas. One man killed by downed high tension line at Monticello.									
Central and east-central Counties	10	late afternoon & evening			0	6	5		Thunderstorms
Frontal passage set off severe thunderstorms; Albany, Old Forge, Rome, Glens Falls areas important areas of damage due to high winds, heavy rainfall with surface flooding, lightning caused fires and some limited areas of hail damage. Water 4 feet deep in some Albany streets. Wind-blown tree limb dropped on bar and injured six people in Glens Falls.									
Scattered areas across the State	14				1	0	5		Thunderstorms, wind, rain
Cold front passed across the State then a wave formed on front moving northeastward through the southeast portion; severe thunderstorms with damaging winds, heavy rains and severe lightning; Albany, Rochester, New York City and Long Island and other scattered areas. In Rochester wind-driven lake waves did heavy damage to shore properties. There was some flooding in the New York City - Long Island area where one man drowned when trying to open a roof drain.									
Scattered areas across the State	18-19	late afternoon			0	1	5		Thunderstorms, heavy rain, wind
Severe thunderstorms with heavy downpours of rain, severe lightning and damaging winds; particularly severe in Albany-Troy area where woman gaffer injured by nearby lightning strike; Rochester area due to flooding from torrential downpour; Syracuse area from wind, rain and lightning fires; Utica area due to winds and lightning.									
Jefferson and Lewis counties, Gloversville area, Saranac Lake and Lake Placid area	22	afternoon			0	1	4		Thunderstorms
Severe thunderstorms and lightning-caused fires in Gloversville area with one injury as home trailer was blown over. In the Adirondack area there were severe thunderstorms, high winds and heavy rains with power failures and minor flooding.									
Western and northern counties	26	late afternoon & evening			0	0	5		Thunderstorms, strong winds, rain, lightning
Severe thunderstorms, strong winds, lightning and heavy rain at Watertown, Syracuse area, Buffalo-Niagara Frontier; several fires due to lightning.									
State-wide	30	a.m. to late afternoon			0	0	6		Tropical storm "Brenda", strong winds, thunderstorms, heavy rain
Tropical storm "Brenda" passed northeastward across the New York City - Long Island area during the 30th. It brought torrential rains to the New York City - Long Island area and over much of the southeastern portion of the State and as far north in upstate sections as the upper Hudson Valley. Most of the rain fell in a 15 to 18 hour period and amounts ranged up to 7 inches on Long Island, 4 to 5 inches in the metropolitan sections of New York City and 3 inches or more as far north as the Albany area. Over the western and northern counties rainfall was moderate and generally less than 1 inch. Thunderstorms in the western and northern counties were severe in some sections, resulting in wind and lightning damage. Damage as a result of the storm was due principally to surface flooding. Most of the flooding occurred in the metropolitan area of New York City, Long Island and the counties just north of New York City. Thousands of basements were flooded, as were many highways with damage to flood-trapped cars and trucks. Transportation was seriously slowed down or blocked for a number of									
NEW YORK (Cont'd.)									
NORTH CAROLINA									
Buncombe, Gates, Mecklenburg, Pender, Halifax, Hertford, Nash, Richmond, Person Counties	1	Aftn					4	5	Wind, electrical, hail
Scattered thunderstorms caused damage in a number of localities. Lightning damaged power and telephone lines, winds uprooted trees and damaged roofs, hail damaged crops.									
Carteret County	2	7am					3	0	Electrical
Lightning set fire to tank of aviation gasoline; blaze was put out with chemicals, preventing much heavier damage.									
Davis, Guilford, Rockingham, Forsyth Counties	3	Aftn					4	3	Electrical, wind, hail
Lightning burned building; wind blew trees on power lines; hail damaged tobacco									
Harnett, Pitt Counties	14	Aftn			1		4	3	Electrical, rain, wind
Boy killed by lightning, wind blew off roofs. Rain and wind damaged crops.									
Mitchell County	17	Aftn					0	2	Hail
Carteret County	21	Late aftn				1			Electrical
Fisherman standing beside boat killed by lightning.									
Lincoln County	22	Aftn					4	3	Wind
Roofs blown off, corn crop blown down.									
Edgecombe, Surry, Person, Harnett, Lincoln, Rockingham, Watauga, Wilkes Counties	23	Aftn			1		4	5	Electrical, hail, wind
Youth killed by lightning while throwing light switch in home. Fires also set. Damage to tobacco and other crops by hail, wind.									
Person, Franklin Counties	24	Aftn					0	4	Hail
Sampson, Wayne Counties	25	Morning				1	4	0	Electrical
Woman killed while standing under tree. Livestock also killed, barn burned.									
Catawba County	27	2-4am					4	0	Electrical
Early morning thunderstorm caused lightning damage to several homes and to power and telephone facilities.									
Coastal Plain	29	-					5	5	Tropical storm
Storm Brenda did widespread minor damage from wind and rain. No severe damage and no deaths or injuries reported.									
Forsyth County	31	Aftn					0	4	Hail
NORTH DAKOTA									
Divide County	1	Evening					3	3	High wind and hail
South-central	2	Afternoon						3	Hail and wind Tornado
Northwest and Central	4	Afternoon						4	Hail and high wind. Several tornadoes seen Burleigh and Kidder counties
Eastern North Dakota	10	Evening and night					3	5	Strong winds and hail Tornado
Renville and adjoining counties	12	Afternoon					2	6	Hail, strong winds and tornadoes
Southwest	17	Afternoon					3	5	Hail and wind
South-central	24	Afternoon and evening					3	5	Hail and high wind Tornadoes
South-central	27	Afternoon						4	Tornadoes

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OHIO									
Montgomery	2	5 AM					5		Lightning
	A lightning strike set fire to plant of Carrol & Edwards Co. destroying large part of building, equipment, and contents.								
West Central Counties	3	Early AM					4	4	Thunderstorms
	An outbreak of violent local thunderstorms over west central counties caused widespread damage to trees and small buildings, and flattened acreage of wheat, oats, and corn, especially in Mercer and adjoining counties. Also flash floods in the Portsmouth area washed out several bridges, especially on Island and Isaac's Creeks.								
Premont	19	1 PM					5	C	Thunderstorm
	A violent thunderstorm accompanied by winds up to 75 MPH lashed Premont during early afternoon. Many trees were blown down, some of which damaged cars and roofs. Greatest damage, however, was at the Northern Ohio Sugar Co. plant where a large gantry crane was blown over.								
	At the same time wind damage occurred in many other scattered communities in northern Ohio where numerous lightning fires were set, and winds wreaked havoc to trees, utility lines, signs, etc.								
Columbus	26	Early afternoon					4		Thunderstorm
	Locally strong, gusty winds severely damaged 4 light aircraft at Northway Airport. Gusts to 70 MPH were reported.								
	During the same afternoon and evening, thunderstorm winds were reported from numerous other localities, mainly in eastern Ohio. A farmer near Amesville was killed by lightning, and damage to trees, utility lines, etc was widespread.								
OKLAHOMA									
Cherokee County	3	6:10 p.			0	0	0	0	Funnel aloft
	Pilot reported funnel cloud 20 miles northeast of Muskogee. Vortex was observed lifting back into cloud base.								
North-Central Area of State	3-4	Afternoon and night			0	0	5	C	Rain, wind, hail, electrical
	Heavy rains fell over much of the area. The heaviest of 6 to 12 inches fell over Garfield and Noble counties along Black Bear Creek. Newly plowed fields were washed badly. Bridges were destroyed and roads badly damaged. Damage in Garfield County was heaviest and was estimated at a quarter of a million dollars. Only small amount of crops in lowlands were destroyed. Strong winds caused light damage through the area. Wind and hail caused \$10,000 damage each to buildings in the Cashion area in Kingfisher County. Numerous lightning strikes damaged and destroyed several buildings and homes.								
Stillwater, Payne County	17	4:50 p.			0	0	3	3	Wind, hail, rain
	A severe thunderstorm with winds up to 95 miles per hour and hail up to the size of golf balls moved southward across Stillwater and Cushing and surrounding area. Variable damage resulted to buildings, trees, utilities, etc. in the two cities. The hail was confined mostly to a path 2 by 4 miles at the north edge of Stillwater. Heavy rain of near 4 inches fell in the area.								
Oklahoma, Cleveland, McClain Counties	17	5:00 p.			0	0	5	4	Wind, hail
	A severe thunderstorm with winds estimated at 95 miles per hour and golf ball sized hail moved southward across the three counties. Extensive property damage resulted to buildings, trees, utilities, etc. A school was unroofed in northeast Oklahoma City. Effects of the hail was greatest along a 15 mile path in Cleveland County.								
Lawton, Comanche County	17	8:45 p.	1	3	0	0	4	0	Wind, hail
	Strong winds gusted up to 60 miles per hour, 1/2 inch hail and near 2 inches of rain in a severe thunderstorm moved southward across Lawton. Walls of a building under construction collapsed and damaged a building next to it, windows were broken, roofs damaged and utility lines and trees were blown down. One report indicated hail was ankle deep.								
Tulsa, 5 miles southwest, Tulsa County	21	2:55 p.	Short	Narrow	0	0	0	0	Tornado
	Two farmers observed tornado funnel raise a cloud of dust as it hit ground and returned into cloud.								
Texas and Beaver Counties	21	3:30 p.	?	?	0	0	?	?	Rain, hail, wind
	Heavy rain of 2 up to unofficially 7 inches fell over parts of the two-county area from Baker and Turpin to Ardmore in a short period of approximately an hour. Strong winds and some hail (mostly soft) up to the size of golf balls accompanied the storm. Damage to row crops ranged up to 100 per cent and fields were badly washed. Rivulets in fields ranged up to 8 feet wide and 3 feet deep.								
Laverne, Harper County	21	p.m.			0	1	0	0	Electrical
	Lightning struck man on tractor knocking him unconscious.								
OKLAHOMA (Cont'd.)									
Beckham, Custer, and Washita Counties	21-22	Afternoon and night			0	0	?	4	Rain, wind
	Heavy rains of 4 to 7 inches fell over much of Beckham, western third of Washita, and extreme southwest Custer Counties. An unofficial amount of 7.5 inches was reported at Canute. Crops and soils were badly washed. Fields were under water or flooded along streams. Roads and bridges were damaged or washed out. Strong winds caused some general damage in the area with the greatest in Sayre to buildings, windows, trees, etc.								
Chickasha, Grady County	22	3:30 p.			0	0	4	0	Wind, electrical
	A severe thunderstorm with strong winds and lightning caused damage just east of Chickasha. A barn was blown down and other general wind damage was noted in the area. Lightning caused fire which destroyed a home. Storm moved southeastward.								
Talala, Rogers County	22	5:00 p.			0	0	0	0	Funnel aloft
	Funnel was first sighted 10 miles southwest of Nowata, then 4 miles west of Talala moving southeastward and the last report was from a pilot 7 miles northeast of Collinsville.								
East-Central Section of State	22-24				0	0	?	?	Rain, lightning
	Heavy rains fell over extensive portions of the east-central area of the State on the 22nd, again late the 23rd, and only over parts of Okmulgee, McIntosh, and Muskogee Counties late the 24th. Many stations recorded storm totals of 6 to over 10 inches with Checotah in McIntosh County reporting the greatest of over 15 inches, 11.70 of which fell in 11 hours the afternoon and night of the 24th. Extensive damage to top soil, crops, roads, bridges, etc. resulted from washing and flooding. Many head of cattle and hogs were drowned. A youth was drowned trying to cross a stream on horseback. Many motorists were stranded for hours when roads were closed by high water. Several outbuildings were burned as a result of lightning strikes.								
Nowata, Nowata County	24	3:30 p.			0	0	0	0	2 Funnels aloft
	Civil Defense spotters reported first funnel at 3:30 p., 3 miles northwest of Nowata moving southeast and 2nd funnel at 5:30 p., 5 miles southwest moving eastward.								
Wagoner, 3 miles north, Wagoner County	24	4:00 p.	?	?	0	0	0	0	Tornado
	A tornado touched ground for about 3 minutes and returned into the cloud. This was repeated 3 times over a period of a few minutes. There was no damage as each time it hit in open country. Storm moved eastward.								
Louis, Harmon County	25	3:30 p.	4	*2	0	0	2	4	Hail, wind
	A severe thunderstorm with 3/4 inch hail and strong winds caused damage to crops and property. Several farms reported cotton completely destroyed. Wind damage was mostly minor.								
Enid, Garfield County	29	6:30 p.	?	?	0	0	4	0	Tornado
	A 45-foot cooling tower and 4 buildings were destroyed at a gas plant.								
Eastern One-Third of State	27-28	Night			0	9	6	?	Wind, rain, electrical
	Strong winds that reached over 90 miles per hour caused widespread destruction over much of the eastern third of the State as thunderstorms moved southward across the area. Hardest hit were Tulsa, Muskogee, Poteau, Checotah, Wagoner and several others. In Tulsa 5 persons were injured, 4 in a trailer that was blown over and one by flying glass. Three persons were injured in Muskogee. None of the injuries were serious. A woman was injured by lightning in Sand Springs. Most of the destruction in Tulsa was over the eastern edge of the City. Three motels were damaged, a high school unroofed, elementary school damaged, several trailers destroyed at a trailer firm, and 10 planes and several hangers damaged at the airport. Loss to utilities was estimated at near \$100,000. Destruction in Muskogee was estimated at \$900,000. A wholesale drug and paper firm was destroyed; loss to building and contents set at \$450,000. There was destruction over all the City. The windstorm was labeled the worst in the history of Muskogee, next in severity to the tornado of 1945. Drive-in theaters were destroyed at Wagoner and Checotah. A glass plant was unroofed at Poteau where over 200 insurance claims were filed as a result of the extensive damage. There was widespread damage to utilities, outbuildings, roofs, trees, etc. Numerous lightning strikes were noted. Fire caused by lightning destroyed a home near Pharoah, and resulted in \$5,000 damage to a motel at Sallisaw.								
Central Area of State	29	6 to 10p.			0	7	6	?	Wind, rain
	Strong winds of near 100 miles per hour moved southward from near the Kansas border across the northern 2/3 of the central section of the State. Cities reporting most extensive damage were Enid, El Reno, Oklahoma City, and Chickasha. Extensive damage to buildings, outbuildings, windows, roofs, trees, utilities, etc. was noted throughout the area. Damage at Tulsa's Airport in Oklahoma City resulted to 8 planes and several hangers. At Will Rogers Airport damage to 2 planes, hangers and buildings was estimated near \$15,000. A couple were injured when their auto struck a utility pole during the blinding rain. Three persons were injured when their trailer house was blown over in El Reno. Damage in Chickasha was estimated at \$250,000. Two youths were injured by flying debris in Chickasha.								

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
OREGON										
Central Oregon	7	Afternoon			0	0	4	2	Lightning	
									Dry thunderstorm in Central Oregon with numerous strikes in Ocoee National Forest. Number of forest fires started, one of which burned over approximately 150 acres lodge pole pine.	
Northeast and East Central Oregon	12	Afternoon and Evening			0	0	5	3	Lightning	
									Lightning touched off number of fires in both forest and range land. One in northwest Malheur and northeast Harney counties burned over about 25,000 acres range grass land.	
Eastern and Central Oregon	19-20	Afternoon and Night			2	Sev-eral	6	4	Lightning	
									Hundreds of fires started by lightning during this storm. In Willows-Whitman Forest alone estimated it was cause of over 200. Most were controlled before reaching significant proportions, but three of them burned over a combined total of nearly 40,000 acres much of it heavily timbered with high grade marketable trees. Several fire fighters were injured, and two were killed when plane from which they were dumping borate on fire crashed. Nearly 5,000 men were fighting these fires at one time. In Central Oregon near Wagonfire in Harney County another lightning caused fire burned over more than 2,000 acres of range grass land.	
Scattered over entire State	26-27	Afternoon and Night			0	0	5	5	Lightning	
									Lightning storms widely distributed over state that hit most national forests, some range grass land and several hundred acres of ripening grain, started large number of fires. Most strikes in forest land were controlled before reaching more than fraction of acre in size, but over 4,000 acres of range grass in Harney County and 1,200 acres of ripening wheat near Pendleton were destroyed.	
Jackson and Baker County	27	Afternoon	1	400-500	0	0	3	4	Hail	
									Small but fairly heavy hailstorms occurred in both Jackson and Baker counties. In both, hailstones of 3/4 inch in diameter were observed but in Jackson County only few acres of fruit damaged. In Baker County, 200 acres ripe grain were completely destroyed and sizable acreage alfalfa was hurt.	
Prineville	29	7:00 PM	5-10	*3-4	0	0	4	2	Wind	
									Strong very local winds in city of Prineville demolished new school under construction, caused damage to lumber mill and other buildings, caused widespread power outage in city, broke number of windows and uprooted or broke off several trees.	
Malheur and Klamath Counties	30	Afternoon	Sctd. Areas	Sctd. Areas	0	0	3	5	Hail	
									Near Ontario in Malheur County small acreage of alfalfa was badly damaged by hail. In Langell Valley in Klamath County between 2,000 and 3,000 acres grain suffered varying degrees damage, about 200 acres alfalfa seriously damaged as was a lesser acreage of potatoes.	
PENNSYLVANIA										
Avoca	4	5:30 PM	U	U			4		Tornado	
									The tornado uprooted large trees, tore off roofs and ripped down power and telephone lines. Several large plate glass windows were blown out. A few buildings were also struck by lightning.	
Lower Bucks County	14	Afternoon					5	U	Heavy Rain	
									Heavy rain measuring over 2 inches in one hour resulted in extensive local flooding to streets and basements. The roof of a furniture store collapsed under the weight of the water which failed to drain off, due to inadequate roof drains. Water damage was extensive to the furniture in the store.	
Bris	19	11:20 PM			1		3		Thunderstorm	
									One person was injured when struck by a falling tree limb which was blown down by the high winds. A barn was struck by lightning and burned to the ground.	
Snow Shoe	19	Evening					3		Hailstorm	
									Hail up to 3 inches in diameter pelted the area for about one-half hour causing considerable damage to crops.	
Corry	22	8:30 PM					4		Thunderstorm	
									Lightning fired a barn which burned to the ground, along with the contents.	
PENNSYLVANIA (Cont'd.)										
Philadelphia	27						2	3	3	Rain
										Two people were killed and three injured in an auto accident attributed to wet streets.
Near New Castle	27	Evening						4	5	Hail
										The hail (size unknown) ruined over 100 acres of corn and some wheat for a total loss of over \$100,000. Property damage of \$10,000. was also reported.
PUERTO RICO										
Aguadilla	1	12:30 p. to 2:45 p.			0	0			4	Flood
										During the afternoon of July 1, 1960 flood waters rose a reported four feet on business and residential streets in Aguadilla in the northwestern section of Puerto Rico resulting in damage to business establishments and homes. There is no Weather Bureau observing station in the immediate area but the closest stations which are only three and four miles away did not receive any excessive rainfall on that or the previous day. Hourly observations taken at Ramey Air Force Base, which is located about four miles to the north of Aguadilla indicate thunderstorm activity with violent lightning in the area south and west of Ramey Air Force Base. Reports from Aguadilla indicate that while heavy rain fell between 12:30 and 2:45 P.M. it was not exceedingly heavy for the area but that construction work on a new highway was in progress in the hills to the east of the flooded area and that rocks, stones, dirt and other debris swept down into town clogging sewers and causing the flood.
RHODE ISLAND										
Diamond Hill, Cumberland; Providence County	18	2:15p. to 3:15p.			0	0		3	3	Electrical, Rain
										Two and one-half inches of rain accompanied a 1 hour thunderstorm. This was only storm reported in State. Several basements flooded and several minor washouts occurred. Two homes hit by lightning with minor damage resulting.
Grant Mills; Providence County	19	5:00a.			0	0		3	0	Electrical
										Lightning strike caused \$2,000 damage to shed.
Pawtucket, Pawtuxet; Providence County	24	11:00a.			0	0		2	0	Dust Devils
Warwick; Kent County	24	12:30p.	200 yds.		0	0		2	0	Dust Devils
Statewide	30	9:00a. to 3:00p.			0	0		4	4	Wind, Tide, Rain
										Tropical storm "Brenda" passing through western Connecticut caused wind gusts of 60 mph at Block Island. At Providence the wind reached 48 mph in gusts at 1:11 PM. Tree limbs were knocked down and short circuits cut power to about 1/2 of the towns in the state. Several small boats were capsized or wrecked on the rocks and several 40 ft. yachts were damaged. Nevertheless damage was comparatively minor and no injuries or deaths were reported.
SOUTH CAROLINA										
Columbia area, Richland and Lexington Counties	1	Afternoon	-	-	0	0		2	0	Wind and hail
										Severe thunderstorm.
St. George, 10 mi. SE Dorchester County	1	Night	-	-	0	0		2	0	Windstorm
Ocean Drive, Horry County	1	Night	-	-	0	0		2	0	Windstorm
Hilton Head Island, Beaufort County	3	5-6 p.m.	-	-	0	0		4	0	Windstorm and hail
										Very heavy winds blew down 4 dwellings.
Columbia area, Lexington and Richland Counties	3	9:00 p.m.	3	500	0	0		2	0	Windstorm
										Severe thunderstorm with light hail.
Camden, 10 mi. north Kershaw County	3	Late aftn.	-	-	0	0		1	0	Hail
										Hail stones 1/2 to 1 inch in diameter.
Charleston, 8 to 12 mi. SW, Charleston County	14	Afternoon	-	-	0	0		0	0	Funnel cloud observed
Columbia and vicinity Richland and Lexington Counties	14	2-3 p.m.	-	-	0	0		1	0	Thunderstorm
										Locally severe thunderstorms in Central South Carolina.
Oak Grove section, Colleton County	19	3:15 pm	-	-	0	0		3	0	Lightning
										Cattle killed and minor damage from fires.
Lester and Brightsville Sections, Marlboro County	21	3:00 pm	-	-	0	0		3	0	Lightning

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1960

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 Eastern South Carolina	(Cont'd.) 29	Daylight hours	Coast line	-	0	0	*	*	Tropical Storm
									*Tropical Storm Brenda caused strong to gale winds with heavy to excessive rains and local flooding. Damage so far unassessed but negligible for a tropical storm.
SOUTH DAKOTA									Report not received by printing deadline.
TEXASSEE Chattanooga (40 miles NE)	3	11:55 p.			0	0	0	0	Tornado funnel cloud
									Funnel cloud reported by pilot.
Brownsville (near), Haywood County	4	2 p.			0	1	2	0	Lightning
									Lightning struck a tree which fell upon a moving car injuring the driver.
Coke County	10-11				0	0	0	5	Rain
									Heavy rains extensively damaged burley tobacco, hay and corn crops.
Mt. Sharon Community, Robertson County	17	After-noon			1	0	0	0	Lightning
									Lightning struck and killed a 15 year old boy playing in a tree.
Memphis, Shelby County	23	After-noon			1	0	0	0	Lightning
									A 5 year old boy was knocked from a chair and killed when lightning struck the house.
TEXAS									
Terry-Lynn, Cos.	4	7-7:30 pm	? narrow	0	0	?	C		Hail
									Cotton heavily damaged by marble-sized hail which fell 3 to 4" deep over northern parts of the two counties between Meadow, Terry Co. and Yahoka and Wilson, Lynn Co. Accompanying heavy rain.
Abernathy, Hale and Lubbock Cos.	4	9:30 pm			0	1	5	C	Wind
									Wind knocked down fireworks stand, tumbled it 25 feet with youth inside who was hospitalized. Showed steel beam roof supports of school addition into street, damaging parked cars along street. Tin from building also showered into street causing damage to parked cars. An estimated 2 inches of rain fell in 30 minutes.
El Paso	4	Evening			2	0	?	0	Electrical
									Lightning struck a gasoline storage tank in which two men were working. Resultant explosion of tank and chemical supply building killed both men.
Valley Creek, Fannin Co.	?				0	0	2	0	Electrical
									Lightning struck four cows and killed them near a fence during the peak of July 3-9. Total loss estimated \$900.00.
Fluvanna, Scurry Co.	6	Evening 1/4	narrow	0	0	3	0		Tornado
									Tornado demolished a new granary and three barns 3 miles east of Fluvanna. Traveled northward strewn debris for 1/4 mile. Also destroyed a chicken house on the Willis farm north of point where granary and three barns destroyed.
Lubbock-Plainview, Lynn, Lubbock and Crosby Cos.	4-9	Evening 4th to 9th			0	0	5	C	Rain
									Heavy rains caused flooding in Plainview and Slaton with resulting evacuation of 70 homes in Plainview. High water inundated railroad tracks and highways as well as homes and businesses. 200 persons were evacuated from their homes and fed by the Red Cross in Plainview. Slaton flooding required 150 homes to be evacuated where unofficial reports showed 14.50 inches of rainfall over the period.
Amarillo, Potter Co.	9	6:00 pm			1	0	0	0	Electrical
									Man standing between car and a tree was struck by lightning and killed. No damage to car or tree.
North and South parts Cottle Co.	12	Night			0	0	0	?	Hail
									In northern section about 200 acres of cotton heavily damaged and in southern section 350 acres of cotton heavily damaged. There were two clouds and between the two areas no hail or rain occurred. Too late to replant the cotton.
Paducah, Cottle Co.	12	8:20 PM			0	0	?	?	Hail
									Radar report from Wichita Falls reported golf ball size hail 15 miles south of Paducah.
Dallas area, Dallas Co.	13	8:30 to 10:30 pm	14	#6	0	0	5	0	Wind
									Locally high straight winds moving toward the east southeast with accompanying thunderstorms caused heavy damage in northern part of city of Dallas and northern Dallas Co. Damage to buildings estimated at \$150,000.
TEXAS (Cont'd.)									
Olney, Young Co.	13	9-10:00 pm			0	0	3	0	Electrical
									Lightning struck a church building setting it afire. Resultant fire severely damaged 90% of interior. No estimate on damage.
Near Coleman, Coleman Co.	14	5:00 pm			1	0	0	0	Electrical
									Lightning struck man on tractor killing him.
Near Waxahachie, Ellis Co.	14	2:30 pm			0	0	0	0	Funnel cloud
									Bradley Airlines reported sighting a funnel cloud 3-5 miles west of Waxahachie. Nothing on Fort Worth radar in that area.
10 miles WSW Jefferson Co. Airport	15	4:33 pm			0	0	0	0	Funnel Cloud
									Pilot reported funnel cloud 10 miles WSW of Beaumont-Port Arthur Airport.
Lubbock, Lubbock Co.	17	9:50 pm			0	0	4	0	Electrical
									Masonry grocery store was struck by lightning causing fire which was whipped by 50 MPH wind resulting in \$15,000 to \$20,000 damage.
Burst, Tarrant Co.	18	Mid-Aftn. 1/4	100	0	0	4	0	0	Wind
									Locally straight wind caused damage to Post Office estimated at \$15,000. Also damage to Fire Station resulting from heavy siren falling through roof as support buckled. One house trailer blown on side.
Methis, San Patricio Co.	18	2:40 - 4:30 pm			0	0	0	0	Funnel Cloud
									Funnel cloud was observed moving northeast to 2 miles east of Papalote from Methis. No known damage.
Aiken, Floyd Co.	18	3:30 pm	5	#1	0	0	0	?	Hail
									Thunderstorms moving southeast damaged crops this area from 25% to 100%. Average 7% damage. Southern portion of Terry Co. reported marble sized hail and rains up to 2 inches.
Corpus Christi, Nueces Co.	18	2:45 pm			0	0	0	0	Funnel Cloud
									Funnel cloud reported 35 miles northeast of Corpus Christi, moving northeast.
Vernon, Wilbarger Co.	18	4:00 pm			0	0	4	0	Wind
									Strong winds caused a wall of a building being raised to collapse on another store building's roof causing damage to merchandise. Also numerous telephone lines blown down and TV antennas twisted. Estimated damage \$50,000. Winds were accompanied by some hail and rain and lasted about 1 hour.
Near Brownfield, Terry Co.	18	2-2:30 pm	4	#2	0	0	0	5	Hail
									Hail, covering the ground to a depth of 3 inches and 1/4 inch in diameter damaged crops in an area 4 miles wide and 2 miles long, 18 miles south of Brownfield. Damage to crops estimated at \$80,000.
Port Isabel, Cameron Co.	19	9:35 am			0	0	0	0	Funnel Cloud
									Border Patrol aircraft reported funnel shaped cloud 1/2 mile north of Port Isabel. Specific vortex indication not detected by Brownsville radar.
Galveston Bay, Galveston Co.	19	Early Morning			0	0	0	0	Waterpout
									Funnel shaped cloud touching the water skipped over Galveston Bay and Coast Guard alerted all shipping to steer clear. No known damage.
Port Arthur, Jefferson Co.	19	1:00 pm			1	0	0	0	Electrical
									Lightning struck a 13 year old boy near Port Arthur killing him instantly. Thunderstorm in progress was not especially severe as Port Arthur Weather Bureau reported maximum gust of 38 MPH during a thunderstorm.
Near Corpus Christi, Nueces Co.	19	9:30 am			0	0	0	0	Funnel Aloft
									Pilot reported funnel cloud 1/2 mile north of Mary station on Padre Island. No movement.
10 Miles Southwest San Antonio, Bexar Co.	20	Noon			0	0	3	0	Tornado
									Small tornado struck ground 10 miles southwest of San Antonio demolishing a barn and uprooting trees.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 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	
TEXAS (Cont'd.)									
Port Arthur, Jefferson Co.	20	10:27 am			0	0	0	0	Funnel Cloud and Waterspout
									Beaumont-Port Arthur Weather Bureau reported funnel not touching ground and waterspout distant south-southeast dissipating.
Andrews, Andrews Co.	20	7:15 pm			0	0	5	0	Electrical, Wind
									Lightning struck a bowling alley causing 50 persons to evacuate the building. No one was injured. High winds accompanying the storm caused the roof to lift and collapse. Damage was estimated at \$60,000.
Houston, Harris Co.	20	3:25 pm			0	5	4	0	Wind
									Strong winds accompanied by thunderstorms and rain damaged 10 airplanes at Houston International Airport and blew a plate glass window out of the airport restaurant injuring five persons, none seriously. Damage to the airplanes is estimated to exceed \$10,000. During the same storm lightning struck the Houston-Harris County Red Cross building in downtown Houston tumbling a brick chimney onto the roof. No one was injured.
Austin, Travis Co.	20	4:15 pm	1/4	10	0	0	3	0	Tornado
									A small tornado dropped down on a farm southeast of Austin and picked up a barn and demolished it on a fence. Nearby the same twister picked up a garage and dropped it back on the foundation badly damaging it.
Fort Worth, Tarrant Co.	20	Aftn.			0	1	0	0	Wind
									Strong gust of wind during thunderstorm blew man off a scaffolding and he fell on concrete fracturing his skull.
Corpus Christi, Nueces Co.	21	7:28 am			0	0	0	0	Waterspout
									Waterspout reported 7 miles northeast of Corpus Christi.
Corpus Christi, Nueces Co.	22	7:45 am			0	0	0	0	Waterspout
									Naval Air Station, Corpus Christi reported waterspout 20 miles northeast of the station.
Lake Weatherford, Parker Co.	26	Evening			0	0	4	0	Wind
									Strong winds accompanied by brief heavy showers wrecked a cabin and a boat dock and blew down several sheets from boat sheds.
Port Arthur, Jefferson Co.	30	1:35 & 1:37 pm			0	0	0	0	Funnel cloud
									Two funnel clouds sighted southeast and south-southeast of Port Arthur, both dissipated.
U.S. VIRGIN ISLANDS									
N O N E									
UTAH									
Minersville, Beaver County	18	3:00 PM	1/2	5	0	0	3	0	Dust Devil
									Filling station damaged and several residence windows broken by a large dust devil.
VERMONT									
Southern Portion	3	7 P.M.			0	0	4	0	Wind, rain, electrical
									Electrical storm brought damaging wind and washing rains to local areas. Utility failures from lightning, falling limbs, and wet cellars.
State, scattered localities	19				0	0	4	0	Wind
									Winds accompanying thundersqualls were damaging in several localities. This included considerable phone and power interruptions from downed wires in the Bradford-Fairlee area, where damage to a barn roof also occurred. Several trees were felled and other minor damage occurred on Coates Island, Walleys Bay, in the Burlington area by winds reported to be a "small twister," but storm was not confirmed as a tornado.
Southeastern Portion	30	During day			0	0	3	0	Rain, wind
									Tropical Storm Brenda caused minor damages by washing and flooding from rainfall totalling up to slightly over 3 inches. Some limbs blown from trees.
VIRGINIA									
Northern Shenandoah County	18	Afternoon	-	-	0	0	?	?	Rain, lightning
									Flash flooding following a cloudburst, said to be worst in area in 25 years. Highway and railroad beds washed out, buildings damaged, basements flooded and fields eroded. Popsail on some fields was completely washed away. Lightning struck two barns which were destroyed by fire.
VIRGINIA (Cont'd.)									
Frederick County near Gainstboro	19	5:50 pm	-	-	0	0	?	?	Hail
									One half to one inch hail for about 10 minutes damaged crops, vegetable gardens, flowers and other foliage. Some glass windows were also broken.
Rustburg, Campbell County	21	1:30 pm	?	?	0	0	2	0	Dust devil.
									A dust devil picked up a 200 lb. wooden well cover and slammed it into the side of the porch of a farm house with some resulting damage.
Richmond area, north-eastern Piedmont and Northern Tidewater Counties	23	Night	-	-	0	0	?	0	Thunderstorms
									Scattered thunderstorms mostly in early night were responsible for a number of uprooted trees and broken limbs, some across power and telephone lines, causing scattered outages of these utilities. Some broken power lines caused a scattering of small fires, and a few small fires were started by lightning.
Amherst County	26	Night	-	-	0	0	4 ⁰	0	Heavy rain
									Up to 6 inches of rain in two hours caused serious flash flooding and several thousand dollars damage when the south prong of Buffalo River flooded a large section of Route 60 from Myers Store to Midway Church.
Newport News Area	27	Late afternoon	-	-	0	0	?	0	Lightning, Rain
									Heavy rain with thunderstorm briefly flooded streets and halted traffic in Warwick, Newport News and Hampton areas. Lightning struck two houses in Newport News with only slight damage and a power distribution circuit which disrupted power for about three hours.
Lynchburg	31	4:45 pm	-	-	-	-	?	?	Thunderstorm
									Strong winds blew down several apple trees in the Old Forest Road section and broke limbs from many more; it also blew away some lawn furniture, overturned a heavy piece of farm machinery and damaged the roof of a house sufficiently to permit a lot of water to leak in during the heavy rain which followed the strongest gusts.
Richmond	31	Evening	-	-	0	0	?	0	Heavy Rains
									A thunderstorm dumped over two and a half inches of rain in two hours on Richmond's West End and caused flooding in Richmond's suburban West End primarily along Upton and Horsepen Branches. Several Lakeside homes were flooded above main floor levels. Basements and foundations were flooded in countless homes which were surrounded and isolated. Many streets were inundated, some overnight. Numerous automobiles were inundated or partly so and damaged by water. Lightning and water caused widespread power and telephone outages.
WASHINGTON									
Southeastern counties	19	Evening							Lightning
									An estimated 69 forest fires were started by lightning in the Walla Walla and Pomeroy districts of the Unatilla National Forest and in the Blue Mountains. Several hundred acres of range land and a few fields of grain were burned.
Cascades	26								Lightning
									Several forest fires were started by lightning in the southern Cascades and in the Panatchee and Okanum areas.
WEST VIRGINIA									
NONE									
WISCONSIN									
Southern Counties	2	late afternoon					6	5	Hail, wind, rain.
									Severe thunderstorms with heavy rains, wind of gale proportion and hail from pea size to more than 4 inches in diameter damaged trees, roofs, cars, windows, and crops. Some cattle were killed and hurt. Particularly hard hit was the southwest and area immediately south of Madison. Crops being late prevented extensive crop damage.
Madison 35 SE	2	5:30 p.m.							Funnel
Milwaukee 10 S	2	8:25 p.m.							Unconfirmed funnel
									Moving eastward.
Southeast Counties	22	late afternoon					5	5	Hail, wind, rain.
									Severe thunderstorms with greatest intensity from Milwaukee north-westward. Although hail fell in widely scattered areas, most damage resulted from wind and rain. Damage to farm buildings, power lines, trees, and crops.
Laona	25	6:00 p.m.					4		Lightning
									Home destroyed.

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
WISCONSIN (Cont'd.)									
High Bridge, Ashland County	25	afternoon			1				Lightning
Madison 45 NW	27	8:00 p.m.							Funnel
Ripon	29	afternoon					4	4	Hail, wind, rain.
		Hail	1½ inches	in diameter.					
WYOMING									
Thirty-eight miles west of Laramie	3	2:30 p.	1½	100	0	2	?	0	Tornado
West-southwest of Casper	14	1:03 - 1:08 p.		No apparent movement					Funnel cloud

* Miles instead of yards.

** Yards instead of miles.

° Includes crop damage.

† 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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