

U.S. DEPARTMENT OF COMMERCE

C. R. SMITH, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

STORM DATA

SEPTEMBER 1968

Volume 10 No. 9



ASHEVILLE: 1968

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Georgia Quitman	6	pm			0	3	2	0	Lightning
	Three men were badly shocked when lightning struck a gin in which they were working. Only minor damage to gin.								
Woodbine, 4 miles north	8	am			1	0	0	0	Lightning
	One man was killed by lightning while fishing from a small boat. Another man in the boat was stunned but not hurt.								
Griffin	8	pm			0	0	3	0	Wind and hail
	Thunderstorm wind 40-45 mph and hail up to 3/4 inches in diameter caused only minor damage in the southeast section of Griffin.								
Haysville	9	4:15 p			0	0	3	0	Wind, hail and rain
	Trees were uprooted and windows knocked out by wind. Hail up to 1/2 inch and heavy rain also reported.								
Brunswick, 30 miles northeast	16	10:16 a							Funnel Cloud
	Reported by pilot.								
Hawaii									None reported
Idaho Paul, Minidoka County	11	6:00 a.	1/2	440					Tornado
	Witnesses reported funnel cloud touching down on farm northwest of Paul. Trees uprooted, some large branches blown several hundred yards. Beans in windrows strewn over area. Storm lasted 4 or 5 minutes.								
Illinois DuPage County	1	abt 4:51p			0	0	0	0	Hail
	Pilot reported 3/4" hail for about 1 minute 5 miles WSW of O'Hare International. No damage reported.								
Indiana Portage (Porter County)	19	E.S.T. 4:30 p.	Short	Narrow	0	0	4	0	Wind
	Storm in northwestern part of County did most damage in Portage where ice cream stand was heavily damaged, some houses were damaged by falling trees, TV antenna were broken and shingles were blown from roofs. Total loss estimated at \$30,000.								
Iowa Cedar Rapids	1	2:31 p							Funnel cloud
	In southeast Cedar Rapids.								
10E Cedar Rapids	1	2:50 p							Funnel cloud
Rolfe, Pocahontas County	18	Before 1:00 p							Funnel clouds
	Several funnels sighted.								
Near Waterloo	19	8:20 p							Funnel cloud
Near Sheldon	22	3:30 p				1			Lightning
Orange City, Sioux County	22	4:00 p	5	50			6		Tornado
	Five funnels observed. Losses totaled over \$1 million. 50 homes damaged or destroyed. Tornado moved toward NE through west and northwest part of city.								
2S Alton, Sioux County	22	4:30 p							Tornado
	Touched down for short distance in open country.								
Hospers, Sioux County	22	4:35 p							Tornado
Black Hawk County	23	Early a. m.					4		Lightning
	Losses at Dunkerton and surrounding area.								
Davenport	23	a. m.					5		Heavy rains
	Localized flooding.								
8NE Elberon, Benton County	23	4:35 p							Funnel cloud
Kansas Sedgwick County	3	6:00 - 8:00 p.	6-8	*2-3	0	2	5	0	Wind, rain
	Heaviest damage occurred in Wichita where extensive street flooding and some damage to buildings, power lines, signs, and telephone lines was reported.								
Cowley County	3	8:30 - 9:10 p.			0	0	4	0	Lightning
	Two barns plus contents were destroyed near Atlanta								
Western one-third	6	afternoon-evening			0	0	4	7	Hail, wind, rain, funnel aloft
	Hail damage occurred locally in Scott, Trego, Graham, and Norton Counties. Severe hail damage to crops occurred over portions of Stanton, Decatur, Lane, and Sheridan Counties. Stones up to 3" in diameter fell locally near Allison and in the Healy area. Flash flooding was reported in Lane and Norton counties. A funnel aloft occurred 11 mi. ENE of Scott City at 5:15 p.								
Kansas (continued) Cloud County	6	6:30 - 7:30 p.	8	*5	0	0	0	5	Hail
	Hail stones up to 3/4" diameter fell west and north of Jamestown.								
Decatur County	15	evening			0	0	4	5	Hail
	Hail stones up to about 2 1/2" diameter fell in the Dresden-Jennings area, severely damaging property and crops.								
Sedgwick County	22	evening			0	1	5	0	Wind, hail, rain
	A strong thunderstorm moved through the Wichita area about 6:00-7:00 p. Several mobile homes were blown over, some power lines and light buildings were toppled, and a few streets and basements were flooded. Hail up to 1/2" diameter did light damage.								
Ellis, Russell Counties	22-23	night			0	0	4	0	Rain, lightning
	Flash floods due to heavy rains in the Hays area damaged two bridges and caused some basement flooding. Lightning severely damaged a church building at Russell.								
	SPECIAL HAIL SUMMARY								
	Hail Loss Clearing House reports indicate hail was especially severe on these dates in the following counties								
	6 Lane, Scott								
Kentucky Pulaski County	9	1:00 p.			1	0			Lightning
	Lightning killed a man as he sought shelter under a tree during a thunderstorm near the Goodwater community.								
North Central	9	Afternoon					5		Hail, wind
	Hail damaged crops (mostly tobacco) in at least two counties. In Owen County there were reports of hail and wind damage in several sections, in the Sparta and Glenco neighborhoods and in the area of Boxley - New Liberty - Bromley - Poplar Grove. The storm lasted from about 4:00 to 4:30 p.m. in the Sparta-Glenco area, affecting an area about 2 miles wide and 10-15 miles long. The hailstones varied in size from 1/4 to 3/8 inch, covering about 80% of the area. The hail was accompanied by heavy rain and high wind. There was some wind damage to tobacco and minor wind damage to roofs. In Shelby County there was heavy damage in the Simpsonville-Finchville area about 4:30 p.m. It was reported that a belt of hailstorms about 5 miles wide moved from west to east along a path about 15 miles long; that the overall area on which some hail fell was estimated to be about 150 square miles. The hailstones varied in size from very small to about 1/2-inch in diameter, and were accompanied by high wind and heavy rain. Some of the hail remained on the ground until about 7:30 p.m. The same tobacco had been damaged by hail two other times this season - once while it was in the plant bed, then again 7 days after it was set.								
South Central	9	Afternoon					4	5	Hail, lightning, wind
	Hail damaged crops in at least 3 counties. In Taylor County there was a report of hailstones 1 3/4-inch in diameter between 2:00 and 2:30 p.m., about 4 miles south of Campbellville. At approximately the same time a fire apparently set by lightning destroyed a barn near Mannsville. Between 4:30 and 5:00 p.m., a hailstorm moved from west to east, beginning on Meadow Creek and extending into the Burdick section east - southeast to the Adair County line. The path was 2000 yards wide and 3 miles long. The hailstones varied in size from 3/4-inch to 1 1/2 inches; covered about 2/3 of the ground over an area of 4 square miles. In Green County, a hail and wind storm struck the Cox's Bend area about 3 p.m., severely damaging tobacco and other crops. The loss would have been much greater if much of the tobacco had not already been cut and put in the barns. Hailstones 3/4-inch in diameter fell on an area about 500 yards wide and 3 miles long. In Warren County hail fell on scattered locations, associated with heavy rain. Heaviest damage to tobacco crops was reported to have been in the Riseville area.								
Ohio County	18	6:00 p.			1	0			Lightning
	A man was fatally injured when the barn near Hartford in which he had taken shelter was struck by lightning.								
Louisiana St. Bernard Parish	5	11:10-11:15 a.m.							Waterspouts (3)
	These waterspouts sighted over Lake Borgne apparently passed over Proctor Point (29.9°N., 89.7°W.), briefly.								
Jefferson Davis Parish	9	3:23 p.m.							Funnel cloud
	Reported 10 miles northeast of Iowa, La. No damage.								
St. Charles Parish	10	9:14 p.m.							Funnel cloud
	Sighted some 7 miles west of Moisant Airport near Good Hope, La.								

See reference notes at end of table.

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Louisiana (continued)									
Calcasieu Parish	15	10:40 a.m.	short	narrow	0	0	3	0	Tornado
									Small tornado at Boones Corner picked up and demolished garage. Some power lines down.
St. Landry Parish	15	12:00 n.			0	3	3	0	Wind, rain
									Winds overturned mobile home west of Eunice, injuring mother and 2 children. Implement shed and rice warehouse unroofed, 2 houses damaged east of Eunice.
Vermilion & Lafayette Parishes	15	1:30 p.m.			0	0	3	0	Wind, rain
									Winds overturned camping trailer near LeBlanc community in northern Vermilion Parish. Mobile home near Milton, Lafayette Parish overturned several times by winds.
Washington Parish	17	2-3 p.m.			0	0	3	0	Tornado
									Barn demolished, another unroofed on Pine-Thomas Highway. Trees uprooted and twisted off above ground at Washington Parish Fairgrounds in northwest part of Franklinton. Funnel cloud sighted by observer from point 3 miles southwest of Franklinton.
Caddo-Bossier Parishes	24	5:42 p.m.							Funnel cloud
									Sighted by public just south of Madison Park in Shreveport, moved east-northeast. Unusual shape and division at bottom of apparent funnel not typical.
Northwest and North Central Divisions									Rain
									Two periods of very heavy rainfall on September 3-4 and September 14-15 throughout this area brought monthly totals to near or more than 10 inches at many places. From 3/8 to five inches of rain was general during the first period and 4 to more than 6 inches during the latter. Comparatively little damage.
Maine									
Southwestern	11	A.M.			0	0	4	0	Rain, wind
									Heavy rains caused local washing and flooding. Wind tore boats from moorings along the coast and caused many cases of minor damage inland. Falling trees and limbs caused utility failures. In Portland a car was crushed by a falling tree.
Central and northern	28	P.M.			0	0	4	0	Lightning
									Scattered damage from lightning, with loss of barn and contents near Ft. Fairfield.
Maryland									
Northcentral and Central Maryland, including Washington, D.C. metropolitan area	10	Morning to Night			2	1	5	0	Heavy rain
									Interaction between a cold front moving into the area from the west and a disturbance moving northward about 100 miles off the Maryland coast brought heavy rain to this area. Rainfall was especially heavy in the northwestern metropolitan areas of both Baltimore and Washington, D.C. Among the heavy totals for the Baltimore area were 6.30 inches (5.90 inches in 12 hours) at Ashburton Filtration Plant, 6.00 inches at Cylburn Park, and 6.00 at Pikeville State Police Barracks. In the Washington, D.C. area 4.52 inches fell at Great Falls. Many streams overflowed their banks. Two persons were drowned in the flooding waters at Wyman Park, Baltimore; narrow escapes from drowning were listed in newspapers. Considerable property and road damage was reported; many automobile accidents, mostly of the fender-bender variety, were also reported. One person was seriously injured in Washington, D.C. when struck by a falling water-soaked tree limb. Some minor wind damage occurred in the Baltimore area.
Massachusetts									
State	11	A.M.			0	0	6	0	Rain, wind
									Local washing and flooding from heavy rain. Rain set off a rock-slide in Leicester, reported as the cause of 52-car freight train derailment. Cellars flooded in many communities. Bridges weakened, delaying train and auto traffic in the Woburn area. Wind felled limbs and trees, crushing several cars, damaging some homes, breaking utility lines, and blocking streets. Many boats blown from moorings, with some badly damaged. Extent of storm damage decreased to westward over State.
Michigan									
L'Anse, Baraga, Baraga County	4	5-6 PM			0	0	4	0	Heavy Rain
									With repairs still incomplete from the July 15th storm, this area was hit a second time with flooding. Road washouts and flooding in the business districts caused most of the damage. The high school athletic field, rebuilt after the July storm was again ruined.
Michigan (continued)									
St. Ignace, Mackinac County	6	1 PM			0	0	3	0	Wind
									While crossing the Mackinac Bridge, high winds tore the camper unit from the pickup truck and deposited it on the bridge.
Lake Michigan	6	11:12 AM			0	0	0	0	Waterspout
									Waterspout observed 12 miles west Mackinaw City, moving northeast.
Portage Lake, Manistee County	8	7 AM			0	0	4	0	Lightning
									A 27-foot sail boat with auxiliary power was struck by lightning and burned. The total loss of the boat was set at more than \$10,000. Portage Lake is 10 miles north of Manistee.
Cedar Springs, Kent County	9	1:30 PM	1	30	0	1	4	0	Tornado
									Tornado observed to touch down briefly at south edge of town, then move northward along or very close to US 131. Seven businesses were damaged, loss estimated at \$15,000. One person suffered minor injuries when hit by flying glass.
9W Monroe, Monroe County	9	6:01 PM	7/8	20	0	0	4	0	Tornado
									Funnel was on the ground less than 1/4 mile with damage confined to tree tops along the rest of the path. Along the path toward the northeast, one large storage shed was destroyed, one damaged. A silo, farm home and smaller buildings also suffered minor damage.
Lake Michigan	9	11:00 AM			0	0	0	0	Waterspout
									Waterspout observed 13 miles northwest of Muskegon.
20SE Lansing, Ingham County	20	2:15 AM	1/4	20	0	0	4	0	Tornado
									Tornado moved north-northeast destroying a machine shed, damaging two barns, one shed and equipment. Path continued into a bean field before lifting.
Bad Axe, Huron County	22	11:30 AM			0	2	0	0	Lightning
									Two boys were treated for minor burns at the hospital after lightning struck a tree close to where the boys were playing.
Port Huron, St. Clair County	24	1:45-2:15 PM	16	100-300	0	0	5	0	Thunderstorm-Wind
									High winds caused an estimated \$100,000 in damages along a 16 mile path in St. Clair County. The path began southwest of Port Huron and ended at the city's north edge. While witnessed by many, no funnel clouds were observed. Peak wind gusts at Port Huron, 60 mph. Lightning killed one of a team of white oxen at the St. Clair County Farm Museum in Goodells.
Minnesota									
Owatonna, Steel County	7	About 9a			1	0	0	0	Lightning
									Lightning from thunderstorm struck and killed one man on golf course.
Traverse and Swift Counties	7				0	0	0	4	Hail
									Thunderstorm with hail damaged crops.
Southern and Southeast Minnesota	8				0	0	0	5	Hail
									Thunderstorms with hail 1 3/4 inch caused crop damage in Olmsted, Wabasha and Winona Counties. Hail also reported in Jackson, Cottonwood, Martin and Faribault Counties.
Southwest Minnesota	21	4a-10a			0	0	4	4	Hail, lightning, heavy rains
									Thunderstorm cells with hail, heavy rains and numerous lightning strikes. The hail damaged crops primarily in Cottonwood and Murray Counties. Heavy rains flooded basements and washed out farm roads in Tracy, Walnut Grove, Hevere and Lamberton areas. Lamberton 4.02 inches and an unofficial 6.20 inches at Walnut Grove. Lightning strikes burned a barn down south of Edgerton, Mesnic Lodge at Lamberton and caused many minor damages in Bevere, Springfield, Gibbon and Hutchinson areas.

See reference notes at end of table.

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Minnesota (continued) Eastern 1/2 of Minnesota	22				1	0	4	0	Electrical storm
		Thunderstorms with severe lightning reported across the State. Lightning killed one farmer at 4:30p east of Mora while bringing in his cattle. Cattle killed in fields; 15 head at Deerwood, 3 head NW of Berum and 4 head east of Hinckley. Lightning strikes burned; house at 3a near Atkin, second hand store warehouse 1/2N Brainerd, barn east of Berum, barn 1/2N Vernon Center, and barn at 6:25p 73W Brainerd. Many minor damages from lightning reported at Gold Springs, Fatbault, International Falls, Isanti, Kinball, Kenyon, Mankato, Mora, North habkato, Princeton and Rochester. Lightning struck horse twice at Mora at 3:30p and 6:30p. Both strikes caused minor damages.							
Mississippi Humphreys and Yazoo Counties	C. S. T. 3	12:30p to 1:00p	8 to 10	200 to 50	0	0	4	3	Tornado
		Storm moved from SW towards NE, caused wind damage, and followed by heavy rain. Crop and property damage attributed to small tornado reported in Wolf Lake community area and in Carter area, about 5 miles away (lat. 33.4 N, long. 90.7 W). Trees uprooted, some houses or buildings damaged, and farm equipment (mostly cotton trailers) overturned and damaged. The most damage was in the Wolf Lake area, especially towards the north end. Man reported sighting one funnel in Humphreys County about 12:30 p.m., c.s.t.; under a cloudy sky in Wolf Lake area it reached ground and had debris in funnel; he reported length path 10 miles, width 50 yards, and storm over about 1 p.m. Wolf Lake woman who had no property damage reported "I had just looked outside and saw nothing except low rainy clouds ... with the winds from NW ...;" the sky was "smoothly cloudy ... a blast of lightning ...;" the weather was slightly rainy ... "When ... the lightning started it seemed to be striking everywhere, from the sounds - then - the winds suddenly switched from NW to SE; ... when the wind switched I had to let down a south side window and that's when I saw the tornado ... it was on the ground when seen, no visible funnel as such, the cloud just seemed to be on the ground when sighted." She indicated damage in Wolf Lake area 1 1/2 miles long and 700 yards wide where "one house almost completely destroyed, 3 trailers (total), 5 other houses with ... damaged cotton trailers, club houses, one house trailer slightly damaged." At Carter, about 12:40 p.m., during cloudy, rainy weather a roaring sound was heard; the major damage was to a community church which was flattened, also several houses were damaged. Radar at 12:45 p.m. indicated thunderstorms increasing in areal coverage and intensity; individual cells moving towards NE 20mph; thundershowers covered about 60% area bounded by 15W Meridian ... Bogalusa ... Winnsboro, La. ... and Drenoville. Strongest thundershower in this area 10 NW Yazoo City.							
Tunica County	8	about 11:00p							Funnel Cloud Aloft
		Highway Patrol reported truck driver sighted funnel cloud just above tree top level moving NE causing no damage, on Highway 61, 6S Tunica (lat. 34.6 N, long. 90.4 W). No additional sightings or damage reports received.							
Forrest to Greene Counties	9	3:07p to 3:45p							Possible Funnel Cloud Aloft
		Possible funnel cloud reported by airline pilot 3:07 p.m. about 10S Hattiesburg. At 3:25 p.m. pilot reported heavy thunderstorms moving S with possible funnel cloud on S edge about 50NW Mobile. At 3:45 p.m. Jackson radar indicated isolated thundershowers developed and moving SE about 10W Lucedale. No damage reports received, or sightings of funnel touching ground.							
Tate County	30								Disaster
		Tate County Disaster Committee notified by U. S. Congressman that part of Tate County was designated as drought disaster area. This is the only Mississippi county to be so declared.							
Missouri East half of State	8	8:00 AM to 11:00 PM					5		Wind-Hail-Lightning
		Thunderstorms caused widely scattered lightning, hail and minor wind damage over the eastern half of the state. The largest hail reported was 2 inches at Port Leonard Wood at 2:26 P.M. The heaviest activity appeared to be in Pulaski, North Texas, Phelps, and Dent County areas, between 11:00 A.M. and 3:00 P.M. Two homes were destroyed by lightning. Lightning caused fires in Rolla and a barn burned down near Howes Hill. Considerable tree damage occurred in the Dexter to Sikeston area of Southeast Missouri about 10:00 P.M.							
Troy, Near, Lincoln County	8	9:35 AM							Funnel Aloft
		Public reported a funnel cloud aloft about 30 NW of Lambert Field, St. Louis.							
Elsay, Stone County	16	7:35PM	1		1		4		Tornado
		A tornado uprooted barns and destroyed smaller outbuildings on three farms as it touched down just southwest of Elsey, Missouri, and crossed Elsey moving northeast. One man was injured in Elsey as he started to leave his pickup truck to seek shelter from the approaching "twister". The wind spun the pickup around pinning him against a building.							
Monett, (Area) Barry County	16	7:20 PM							Funnel Aloft
		Several reports of a funnel cloud aloft in the Monett area.							
Montana Flathead County Southwest corner, Kalispell	11	5-7 p.m.	40	*5-15	0	0	3	0	Lightning, heavy rain
		Lightning caused damage to power and telephone installations in the Kalispell area, with resulting outages. Heavy rain from a well-developed group of thunderstorm cells caused fish flooding on Sullivan Creek about 25 miles SSW of Kalispell. Radar indicated that several of the storm cells were quite intense over the southwest quarter of the County -- a quite unusual occurrence this late in the season.							
Along both slopes of the Continental Divide	19-21	late p.m. 19th - late 21st	250	*50-100	0	0	4	5	Heavy snow, wind
		Heavy, wet snow covered much of the area along both sides of the Continental Divide at and above elevations ranging from about 3,000 ft. near the Canadian Boundary to around 5,000 ft. in the Butte-Anaconda area. There were several outages of power and telephone service, and many roads were closed for a time. A few power service interruptions lasted for several hours, and there were areas of downed poles, crossarms, etc., in almost all counties affected. Unharvested grains suffered shattering and lodging in some of the later maturing fields, hay quality and quantity both were reduced, and there was at least one report west of Fairfield of loss of many sheep.							
Nebraska Kinball County	21	Evening	Short	Narrow	0	1	4	0	Damaging Winds
		High winds in and near Kearney demolished a house trailer and several farm buildings.							
Cherry County	21	9p-11p	70	?	0	0	4	0	Damaging winds, hail, lightning
		A severe Thunderstorm moved from Merriman to the Sparks-Norden area. The storm was accompanied by damaging winds, small hail and severe lightning. Buildings unroofed, trees down, etc. House struck by lightning and burned.							
Nance County	22	6:30p	Short	Narrow	0	0	0	0	Hail
		Severe thunderstorm near Genoa. Hail generally small but a few 3" diameter stones fell.							
Thayer County	22	7p	Short	Narrow	0	0	4	0	Damaging Winds
		Severe thunderstorm in Davenport to Orlona area accompanied by damaging winds, lightning, and some hail. Four metal grain bins blown down at Dunning.							
Nevada									None reported
New Hampshire State	11				0	0	4	0	Rain, wind
		Local washing and flooding from heavy rain. Some flooding due to overburdened sewers backing up. At Hamover a health center was threatened by such a flood. Winds felled limbs and trees in many areas, causing utility failures.							
New Jersey									None reported
New Mexico Los Alamos	6	Afternoon			0	0	4	0	Hail
		Hail to 1-1/2 inch diameter damaged glass and roofs of over 200 homes with damage totaling over \$10,000.							
Roswell	6	9:00 p.			0	0	4	0	Lightning
		Lightning strike set fire which destroyed barn and 362 tons of hay, southeast of town, with estimated \$18,000 loss.							
Clovis	23	11:15 p.			0	1	3	0	Wind, hail
		Hail to 1-inch diameter at Cannon Air Force Base. One motor-cyclist received facial bruises from hail. 1-inch rainfall in 15 minutes estimated and wind gusts to 70 a.p.h. in city. Wind damage to shed, carport, trailer house, trees and windows.							
New York Dunkirk, Erie County	6	early p.m.							Funnel cloud
		Pilot reported funnel cloud over Lake Erie, ten miles west of Dunkirk.							
Niagara and Orleans Counties	11	8 a.m. to 3 p.m.					5		Electrical, flooding
		Severe flooding resulted from thunderstorm rains totalling 4.0 inches or more in Niagara and western Orleans Counties. Niagara University campus flooded by up to 4 feet of water at one time with damage reported to basements and ground floors; school forced to close. Schools closed at Medina, Orleans County into 12th due to weakened bridges along school bus routes. Extensive flooding of streets and low lying areas as well as creeks overflowed in Tonawanda, Lewiston and Lockport areas. Lightning strikes destroyed home at Akroh, Erie County, barn and contents near Medina							

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New York (continued)									
Niagara and Orleans Counties									and caused minor damage to school and many homes from Niagara Falls to Rochester. Heavy downpours also spread into northern Erie County and eastward to Wayne County with totals of 2.0 to over 3.0 inches of rain. Thunderstorms part of storm which began on 10th and yielded storm totals in excess of 3.0 inches east of Lake Ontario, in the Binghamton area and to Nassau County, Long Island. Damage in these areas was not reported.
West and Central	24	p.m.							Electrical, wind
									Afternoon and evening thunderstorms caused scattered property damage from Jamestown area in the southwest to areas in the eastern lee of Lake Ontario. Most severely affected were the Oswego and Watertown areas. Property damage resulted mainly from trees and limbs blown onto cars, homes, etc. Widespread utility outages reported in Watertown, Oswego, Pulaski, Rochester, greater Buffalo, and Salamanca areas. Rapid drop of temperature from near 90 to 62 degrees with cold frontal passage about 3:30 p.m. at Oswego.
North Carolina									None reported
North Dakota									
Tioga, Williams Co.	6	7:15 p.			0	0	1	4	Hail
									Hailstones, up to golf ball size, covered ground whitening it as if there had been a snowstorm.
10 S Fargo, Cass Co.	7	4:38 a.					0	1	Hail
									Few hail up to 3/4 inch in diameter.
30 N Jamestown, Stutsman, County	15	6:25 p.							Funnel cloud
									Funnel cloud reported by Jamestown city police.
Logan & Emmons, Co.	15	Afternoon					1	3	Hail
									High winds and hail hit Westfield in southern Emmons County. Hail also hit St. Michael area northeast of Linton and area south and east of Napoleon. Crop damage light due to lateness in season.
Stutsman County	16	2:35 p.							Funnel cloud
									Funnel cloud 20 WSW Jamestown extending 300 feet out of cloud.
Ohio									
Ashtabula	27	5:30p							Waterspout
									The Sheriff of Ashtabula County spotted a waterspout on Lake Erie west of the City of Ashtabula.
Oklahoma									
Fay, near, Dewey County	3	About 4:15p.			0	1	0	0	Electrical
									A man was injured by lightning while he was at work drilling wheat about 3 miles northwest of Fay. He suffered loss of hearing and burns on one side of his head. He was also out and bruised from the drill running over him after he had been knocked from the tractor.
Central part of State	3-4	5:00p., 3rd - 4:00p., 4th	120	40	0	0	4	4	Heavy rain, wind, hail, and electrical
									Two different lines of heavy thunderstorms moved eastward through central Oklahoma furnishing a belt of heavy rain across Elaine, Caddo, Grady, McClain, and Garvin Counties. Storm totals ranged from 3.03 inches at Watonga to 3.73 inches at Pauls Valley. Unofficial totals of 4.2 to 5.0 inches were reported in the Hitchcock area. Damaging hail, wind, and rain swept a 1 1/2- by 20-mile path from just west of Hyde to the Slickles-Leskeba area. Hail up to 2 inches deep covered the ground about 3 1/2 miles south of Hyde at about 7:30 p.m. on the 3rd. Damage included outbuildings, a cotton gin, and fields of cotton and maize. Intense lightning heavily damaged a home at Geary; burned a barn filled with 2,000 bales of hay 9 miles west of Okarche. A second barn and its contents were also burned 12 miles east-southeast of Harlow at about 5:00 a.m. on the 4th.
Oklahoma, Canadian, Cleveland, Lincoln, and Pottawatomie Counties	3-4	8:00p., 3rd - 3:00p., 4th	70	45	0	1	4	4	Electrical
									Intense lightning accompanied the separate lines of severe thunderstorms which moved southward across central Oklahoma during the night. In Oklahoma City a 15-year-old boy was injured by lightning while talking on the telephone at his residence in the 2600 block of S.W. 39th. He was paralyzed in both legs and his right arm when a lightning charge traveled through the telephone line. The paralysis gradually left during his eight days of hospitalization. Lightning also damaged a home in the 800 block of S.W. 28th and one at Mustang. An estimated 30 electrical transformer fuses across the city were damaged. A barn and its contents valued at \$20,000 were destroyed by lightning at the east edge of Nicoma Park as was another barn and contents northwest of Muskogee at about 10:00 p.m. At Oklahoma University in Norman, a new student dormitory building received lightning damage to brick and capping stones and a ceiling fire occurred in a frame warehouse from damaged wiring. A third barn was also destroyed by lightning near Pottawatomie in Pottawatomie County during the afternoon of the 4th.

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
Oklahoma (continued)									
Texas County	6	6:30p.	12	2-3	0	0	1	1	Hail
									Varied hail damage occurred to many acres of corn silage and mile grain along a path starting about 6 miles southwest of Guyman and extending eastward to a point about 5 miles northwest of Hardesty. Hail covered the ground in places and some grain up to five and six bushels per acre was knocked from the milo heads.
Tahlequah, Cherokee County	8	5:30p.- 6:50p.	1	1	0	0	1	0	Hail
									Light hail of 1/2-inch size fell in the vicinity of Tahlequah with a few larger stones of 1- to 1 1/2-inch size reported.
Pottawatomie and Coal Counties	16	5:00p.- 5:30p.	11	14	0	0	4	0	Hail
									Severe thunderstorms moved northeastward at 25 MPH across the Stonewall-Centralhome area with hail lasting up to 20 minutes. Stones up to 1 3/4-inch size fell along the path with windows broken and trees downed at Stonewall. Greatest damage occurred across the Tuleo community where stones averaging 1-inch size covered half of the ground and ranged up to 2-inch size. About half of the roofs in town were damaged as were some trees and automobiles.
Haskell and LeFlore Counties	16	About 8:00p.			0	0	4	0	Electrical
									A line of moderate thunderstorms moved eastward across the area at 15 to 20 MPH and produced considerable lightning. A rural home was destroyed 3 miles east of Meta by a lightning-set fire. The home was nearly burned to the ground when the owners emerged from their storm cellar. A rancher near Summerfield in LeFlore County had 13 head of black angus cattle killed by lightning.
Oregon									No report received by printing deadline
Pacific									None reported
Pennsylvania									
Boston	2	Afternoon					3		Thunderstorm
									Electrical & phone service interrupted by wind & lightning. Strong winds ripped loose large patio awning, tore off part of roof & twisted spouting of home.
Beaver Falls	2	Morning					2		Lightning
									Lightning caused minor damage when it fired a church.
Wilkes-Barre Area	2	Afternoon				3	1	4	Thunderstorm
									Wind buffeted plane to pieces killing 3 occupants. Wind toppled tree injuring small girl.
Milton	2						3		Thunderstorm
									Large tree toppled by wind caused extensive damage to church caving in part of roof and allowing the interior to be damaged by the downpour.
Wilkes-Barre	6	Night					3		Rainstorm
									Many streets and basements flooded due to heavy downpour.
Hazleton	10						4		Tornado
									Mini tornado ripped a roof off a drive-in movie refreshment stand and tossed it 400 feet. A 100 foot section of a cinderblock wall was toppled at a local plant also. Several thousands of dollars damage was done to contents of plant. Damage was quite extensive at the drive-in theatre as the top of the screen was ripped off and the speaker poles were strewn like match sticks. Eye witnesses described the black funnel.
Ephrata	10	Night					3		Thunderstorm
									Several thousand dollars damage when lightning struck home, blowing out all windows, loosening a portion of a stone wall and lifting the roof about 2 inches. There was also some smoke due to fire in a section of the roof.
Jermyn, Lackawanna County	22	Night					4		Lightning
									18 cows killed by lightning bolts with \$12,000-14,000 loss.
Warren	22	Afternoon					3		Thunderstorm
									Lightning struck and started fire causing extensive damage on upper floor of home.
Puerto Rico									None reported

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Rhode Island State	11	AM			0	0	4	0	Heavy rain, wind
	Tropical storm, moving through Rhode Island, caused heavy rain and scattered flooding. Strong winds were responsible for several power failures, the most extensive of which occurred in Glooseter, Foster, East Greenwich and Cranston. Numerous small boats snapped their moorings at marinas, especially in Greenwich Bay, where a cabin cruiser was sunk and a pier was damaged.								
South Carolina Charleston County	11	6:50 a.			1	0	3	0	Thunderstorms, windstorms
	Lightning and wind did considerable damage to power lines and caused power outages in the Charleston City area. A man was killed when he walked into a 1400 volt power line which hung across a sidewalk after being broken by the windstorms during the night.								
York County	25	5:00 to 7:00 p.			0	0	4	0	Thunderstorm
	A severe thunderstorm brought heavy rain, some hail of undetermined size and some lightning strikes to Rock Hill. Power outages occurred as lightning struck power transformers. A car wash business was flooded and considerably damaged.								
South Dakota 20N Yankton	2	11:00 p.							Funnel aloft
20NNE Winner	15	5:00-5:15 p.	10	*1	0	0	4	0	Tornado
	Storm moved from SW to NE mostly through open country. A farmer's airplane hangar valued at \$5,000 was destroyed.								
45ENE Aberdeen	16	5:50 p.							2 Funnels aloft
Tennessee Memphis Shelby County	9	3:00-4:00a.			0	0	5	0	Wind
	Gusty winds to 63 mph accompanying thunderstorm activity caused local damage to trees, windows and powerlines. An uprooted tree in Overton Park demolished a construction shack valued at \$750. Greatest damage occurred at Memphis Metropolitan Airport to aircraft parked on the ramp in front of Hill Air Incorporated. A Grumman Gulfstream was blown into four lighter aircraft which were tied; a Piper Tri-Facer was flipped over; a hangar door was blown inward, damaging an airplane in the hangar; and the tail of a DC-3 was blown around damaging the tail wheel. Damage to aircraft was estimated at \$25,000; to the hangar, \$1,400.								
Hillsboro, Coffee County	9	1:30p.			0	0	3	0	Lightning
	Lightning killed three dairy cattle near Hillsboro.								
Whitehaven, Shelby County	17	5:15p.	**400	Narrow	0	0	3	0	Tornado
	A small tornado, which apparently originated in Mississippi, followed a northeasterly course into Tennessee. It briefly touched down in the Whitehaven area, a town near the Tennessee-Mississippi border. In Whitehaven, a narrow strip of damage extended about 400 yards in a southwest-northeast line from Oakwood Street diagonally across Mill Branch Avenue to Whitman Street. Several large trees were uprooted and the roofing of a house, carport and garage were damaged. Damage was estimated at \$2000.								
Texas 20S Rusk Houston Co.	4	afternoon			4	0	?	0	Thunderstorm
	Witnesses blamed a thunderstorm for the crash of a private plane about 20 miles south of Rusk. Hermit W. White, 29, of Marks, Mississippi, the plane's owner, and his wife and a neighbor couple traveling with them were killed.								
Ravenna Fannin Co.	4	afternoon			0	1	2	0	Lightning
	Mrs. Woodrow Warnell was injured when struck by lightning at her home during an electrical storm. The Warnell home suffered only slight damage. Two holes were reportedly knocked in the ceiling and the electrical wiring was damaged.								
Near Fedor Lee Co.	4	night			0	0	?	0	Lightning
	A house near Fedor, south-southwest of Lexington, in Lee County was set afire when struck by lightning. The extent of the damage is not known.								
Near Forest Cherokee Co.	5	?	short	narrow	0	0	3	0	Tornado
	A small tornado destroyed a barn at the H. B. Arnold farm and another on the W. Dewitt Smith property. The funnel was witnessed by Haymond Seamon, barrier of the Lufkin News. Total damage was estimated at \$1000.								
20E Corpus Christi Nueces Co.	7	6:43 a							Waterspout
Ringgold Montague Co.	8	6:30 p-8:30 p	15	*5	0	0	4	0	Windstorm, funnel aloft
	Thunderstorm winds severely damaged the Ringgold Elementary School building. There was structural damage to the roof. Most windows on the second floor and several on the ground floor were smashed.								
Texas (continued)									
Near Honey Grove Fannin Co.	8	night	?	?	0	0	?	0	Windstorm
	Thunderstorm winds severely damaged two small planes at a landing strip on the John Black farm northeast of Honey Grove. The high winds jerked the planes of Joe Page and Dr. Ralph Marcon from their moorings. A powerline in the vicinity of the landing strip was blown over to a near 45-degree angle by the winds.								
S San Antonio Bexar Co.	9	4:00 p	**167	67	0	0	3	0	Tornado
	A small tornado touched down on Pleasanton Road near Farm Road 1518, in south Bexar County, and overturned a mobile home occupied by Mr. and Mrs. R. L. Floyd. The couple, asleep at the time the tornado hit, escaped with only minor scratches. Damage to the home was estimated at \$2000. The tornado cut a swath about 500 feet long and 200 feet wide, uprooting some large trees.								
ONE Harlingen Cameron Co.	10	12:40 p							Funnel aloft
SW McAllen Hidalgo Co.	10	1:10 p							Funnel aloft
10NE McAllen Hidalgo Co.	10	1:10 p							Funnel aloft
17NW Brownsville Cameron Co.	10	1:10 p							Funnel aloft
20W McAllen Hidalgo Co.	10	2:05 p							Funnel aloft
Near Fort Bliss El Paso Co.	10	night			1	2	0	0	Lightning
	Pvt. Peter A. Novak of Houston was killed and two other soldiers were injured when struck by lightning while troops were engaged in a night exercise during a thunderstorm near Fort Bliss.								
5NW Corpus Christi Nueces Co.	14	12:25 p							Funnel aloft
7SE Corpus Christi Nueces Co.	14	2:10 p							Funnel aloft
Lake Jackson Brazoria Co.	15	7:00 a	**100	67	0	0	?	0	Tornado
	A small tornado damaged the roof, ceiling, and flag pole of the Lake Jackson Post Office building. The tornado caused only relatively minor damage to other property. An employee on duty at the Post Office said the tornado roared like a freight train but lasted only a few minutes.								
Hidalgo Hidalgo Co.	16	4:30 p-6:00 p	6	*2	0	0	0	0	Hailstorm
	Hail, averaging about 3/4 inch in diameter struck the Hidalgo area but did not cause any known damage. Largest hailstones were reported to be 1 1/2 inches in diameter.								
Denison Grayson Co.	16	5:19 p-7:04			0	0	3	0	Lightning
	Lightning struck the Joe Ciaccio home at 801 East Walker in Denison at 5:19 p.m., damaging a washing machine. At 7:04 p.m. lightning struck the Art Hogenson home on U. S. Highway 69 starting a fire that caused extensive damage to the attic and interior of the house.								
Corpus Christi Nueces Co.	16	5:45 p-5:50 p	**60	30	0	0	4	0	Tornado
	A small tornado dipped down at Corpus Christi International Airport. Two small planes were torn loose from their moorings and overturned. The elevators were torn off a DC-3, but the plane was not otherwise damaged. Other planes in the area were undisturbed. Part of a hangar roof was slightly displaced. Damage was estimated at \$25,000.								
10SE Beeville NAS Bee Co.	16	6:35 p							Funnel aloft
Ambrose Grayson Co.	16	7:00 p	?	?	0	0	?	0	Hailstorm
	Hailstones up to 1 3/4 inches in diameter were reported falling in the Ambrose community in northeastern Grayson County. There was no known damage.								
Near Bonham Fannin Co.	16	8:30 p			0	0	?	0	Lightning
	Lightning struck and destroyed the home of Mrs. Ray Rogers in the Rogers community, southwest of Bonham. Mrs. Rogers was not at home at the time.								
15 Beeville Bee Co.	17	3:15 a-4:00 a	?	100	0	0	5	0	Tornado, windstorm
	A tornado struck the Bee County Auction Barn about one mile south of Beeville at 3:15 a.m., unroofing about 10,000 square feet of sheet-metal stockpen barns. Sonny Smith of Austin had just backed a truck up against a loading dock when the tornado roared in. Smith stayed in the truck, a two-axle tractor, which was bounced a little. After the storm passed, a piece of sheet metal was found under the right rear wheels. The livestock auction buildings appeared to have been pulled straight up in the center with the outer sections collapsing inward like a flat handkerchief when pulled up quickly from the middle. From 500 to 600 cattle were under the barn at the time. Only one cow was killed; none were injured. Damage to the auction barn was estimated at \$200,000. A windstorm, which may have included a tornado or								

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1968

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					KILLED	INJURED	PROPERTY	CROPS	
Texas (continued)									
Celeste Hunt Co.	17	4:30 a - 4:45 a	8	**	0	0	4	3	Wind and hail-storm, heavy rain
Presidio valley Presidio Co.	23				0	0	?	?	Flooding
Utah				None reported					
Vermont State	11				0	0	4	0	Rain, wind, lightning
Virgin Islands				None reported					
Virginia				None reported					
Washington				No report received by printing deadline					
West Virginia				None reported					
Wisconsin Northwest Counties	3	pm			0	0	4	0	Wind
LaCrosse County	8	am			0	0	0	0	Hail
Pierce County	22	10:30 a			0	0	4	0	Lightning
Washburn County	22	pm			0	0	3	0	Lightning
Pierce County	23	2 am			0	0	3	0	Lightning
Barron County	23	6:15 a			0	0	3	0	Lightning

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Wyoming Casper 10 W	2	1:18 p	?	?	0	0	0	1	Tornado
Fremont County	2	Afternoon			0	0	*5	C	Hail and wind
Powell	12	Afternoon			0	1	0	0	Lightning
Sheridan	12	Afternoon			0	2	0	0	Lightning

- * Includes crop damage.
- C Crop damage.
- * Miles instead of yards.
- ** Yards instead of miles.
- † Storm damages are placed in categories varying from 1 to 9 as follows:
 - 1 Less than \$50
 - 2 \$50 to \$500
 - 3 \$500 to \$5,000
 - 4 \$5,000 to \$50,000
 - 5 \$50,000 to \$500,000
 - 6 \$500,000 to \$5,000,000
 - 7 \$5,000,000 to \$50,000,000
 - 8 \$50,000,000 to \$500,000,000
 - 9 \$500,000,000 to \$5,000,000,000.

Note: This publication contains our best information on storms but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Delayed data and corrections will be carried in the June and December issues of this publication.

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USCOMM-ESSA-Asheville, N. C. 10/31/68-1080