



U.S. DEPARTMENT OF COMMERCE

MAURICE H. STANS, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

STORM DATA

Volume 11 No. 9
SEPTEMBER 1969

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1969

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	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							KILLED	INJURED	PROPERTY	CROPS						
Alabama				None reported						Florida (continued)														
Alaska				None reported						Pensacola (17 mis. SW)	4	11:40a								Funnel aloft				
Arizona										Key West (4 & 7 mis. W)	5	11:00a								Waterspouts (2)				
San Luis	6	4:00 p.			0	0	4	0	Wind	Summerland Key (20 mis. ENE Key West)	5	4:00p								Funnel aloft (several)				
									Strong winds wrecked several mobile homes and damaged stores.	Monroe County										Funnel aloft				
Seligman (10 mis. S.)	11	11:50 a.			0	0	0	0	Funnel cloud	Honestead (5 mis. E)	6	2:20p								Funnel aloft				
									Funnel cloud remained aloft for 3 to 4 minutes, then disappeared into the clouds.	Dade County										Waterspout				
Mesa	14	8:00 p.			0	0	4	0	Wind	Marathon (vicinity)	6	2:45p								Waterspout				
									High winds damaged homes and house trailers.	Monroe County										Funnel aloft				
Poston to Ehrenberg	14	7:00 p.			0	0	0	5	Rain	Key West (5 mis. SSE)	6	3:13p								Funnel aloft (3)				
									Heavy rains did extensive damage to prepared agricultural lands and partially damaged lettuce crop.	W. Palm Beach (13 mis. W)	6	4:40p									Lightning			
Falcon Field to Tolleson	16	8:30 p.			0	1	4	0	Wind	St. Petersburg	7	unknown			1	0	0	0		Fishermen killed in Boca Ciega Bay when wading in water using a steel net.				
									Unusually strong winds damaged homes. At Falcon Field a man was injured when struck by an airport hanger door.	Tampa (10 mis. SE)	7	1:42p									Waterspout			
Arkansas										Marathon (vicinity)	7	1:50p								Funnel aloft (3)				
Strong - Union County	7	1:00 p.				1			Lightning	Key West (4 mis. S)	7	4:00p								Waterspout				
									Man working on a car severely burned by lightning strike. Car about 25 feet from large tree which was splintered by lightning bolt.	Key West (13 mis. NW)	7	6:00p									Waterspout			
California										Key West (4 mis. SW)	8	12:20p								Funnel aloft				
Fresno	4	mid-aftn			0	0	0	0	Turbulence	Key West (7 mis. SSE)	8	1:33p									Waterspouts (3)			
									A commercial airline pilot reported extreme turbulence in the vicinity of Fresno; no altitude was reported.	Key West (5 mis. SE)	8	1:45p									Waterspout			
Northern San Joaquin Valley	6-7				1	0	4	5	Thundershower	Key West (5 mis. E)	9	10:18a									Funnel aloft			
									Widespread, relatively stationary thundershower persisted for several hours. A 9-year old boy was killed by lightning in Fresno. Hundreds of transformers and motors were burned out, and a number of fires were started. New September rainfall records were set at some points, and tomatoes and cantaloupes remaining in fields were lost to mildew.	Key West (8 mis. ENE)	9	10:24a											Funnel aloft	
Colorado										Key West (20 mis. E)	10	10:35a									Waterspout			
Denver	9	2:35PM			0	0	0	0	Funnel Cloud	Key West (8 mis. E)	10	10:59a									Waterspout			
									A funnel cloud moving west was reported in southeast Denver. There was considerable thundershower activity and local heavy rain in the area during the afternoon.	Key West (24 mis. W)	11	7:00a										Waterspout		
Connecticut										Tampa (3 mis. NW)	12	6:07p									Funnel aloft			
Northeastern sections	7	5-8 PM			0	0	4	0	Lightning	Fort Lauderdale	13	morning			0	0	4	0		Lightning and thundershower				
									Unusually severe lightning downed trees and power lines and set several fires. Scattered power failures occurred in southeastern Hartford and northeastern New London Counties but were more general in Tolland County. A barn was completely destroyed in Lebanon.	W. Palm Beach	13	2:08p										One mobile home destroyed by fire and two houses damaged by smoke when struck by lightning. Other scattered damage in city and numerous power failures.		
Franklin, New London County	8	1-2 AM			0	0	4	0	Lightning	Key West (5 mis. NW)	14	10:54a									Funnel aloft			
									Lightning-set fire gutted half of a one-family house.	Fort Lauderdale (11 mis. SW)	16	11:25a									Funnel aloft			
Delaware										Marquesas Key Monroe County	16	2:00p									Waterspout			
Northern portion, including the Dover area	2-4	p.m. of 2nd- p.m. of 4th			0	0	4	0	Rain, hail	W. Palm Beach (30 mis. NW)	16	2:25p									Funnel aloft			
									Thunderstorms accompanied by heavy rainfall, brought minor flooding to many sections. The Wilmington Weather Bureau Airport Station recorded its heaviest 24-hour rainfall since September 1960. Many roads and streets were flooded, causing traffic tie-ups; flooded basements were also quite common. At Dover, in addition to minor flooding, marble-size hail was reported during the afternoon of the 2nd.	Key West (10 mis. NW)	16	3:06p												Waterspout
Milford	8	1:15- 3:00 a.m.			0	0	0	0	Rain	Miami (25 mis. W)	16	6:02p									Funnel aloft (2)			
									The cooperative Weather Bureau observer reported a rainfall of 3.10 inches during an early morning thundershower.	St. James (27 mis. ENE Apalachicola)	20	10:20p			0	0	3	0			Tornado			
Florida										Franklin County										Church suffered minor damage, telephone poles and trees downed.				
Walparaiso Okaloosa County	1	8:19a							Waterspout	Carrabelle (20 mis. ENE Apalachicola)	20	10:45p			0	3	4	0		Tornado				
Walparaiso	1	8:36a							Funnel aloft	Franklin County										One house trailer completely destroyed, approximately 30 houses with minor damage, hallpart bleachers, fence and lights destroyed, trees and telephone poles downed. Minor injuries sustained by three persons.				
Fort Myers (vicinity)	2	2:54p							Funnel aloft (3)	Apalachicola (25 mis. NW)	20- 23				0	0	0	6		Floods				
Ormond Beach (2 mis. E.) Volusia County	2	7:00p							Waterspouts (2)	Quincy Gadsden County	20- 23									Rainfall recorded as 16.22 inches at Weahatchka. One million dollars damage to soybean crop reported in north portion of Gulf County. Road damage in county also reported as "heavy".				
										Havana										Heavy rainfall and flooding				
										Leon County											Rainfall reported by River District Office in Atlanta, Ga. as follows: Quincy, 18.41 inches; Havana, 23.42 inches; Mountstow, 10.41 inches. Damage estimates incomplete.			
										Calhoun County											Quincy and Gadsden County (25 mis. SW Tallahassee)			
															0	0	6	6		Heavy rains and flooding				
																				Homes in low lying sections flooded, roads and bridges damaged. Real and personal property loss estimated at \$2,350,000; field crops at \$650,000. Some damage to neighboring counties.				

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
Florida (continued)									
West Palm Beach (9 mi. SE)	22	7:58a							Funnels aloft (?)
Dog Island	22	9:08a							Waterspout
Lanark Village (24 mi SSE Apalachicola) Franklin County	22	3:28p							Waterspout
Titusville (7 mi. WSW)	22	3:54p							Funnel aloft
Key West (15 mi. NR)	23	10:06a							Funnel aloft
Key West (5 mi. N)	23	12:29p							Funnels aloft (4)
Belle Glade (30 mi. SSW) Palm Beach County	23	2:20p							Funnel aloft
Belle Glade (10 mi. NW)	23	3:05p							Waterspout
Key West (17 mi. NR)	23	4:47p							Waterspouts (2)
Jacksonville (25 mi. SW)	23	5:00p			0	0	3	0	Lightning
									Electrical equipment at DuPont Co. Ilmenite mining operation damaged; estimated at \$2,000. Total for July-September estimated at \$5,000.
Orlando	23	6:02p							Gusty winds
Miami (8 mi. SSE)	24	8:43a							Waterspout
Homestead Dade County	24	8:57a							Waterspout
Key West (8 mi. W)	24	9:00a							Waterspout
West Palm Beach	24	1:50p							Funnel aloft
Vero Beach Indian River County	24	1:55p							Waterspouts (2)
Key West (4 mi. E) (1 mi. SW) (5-6 mi. SW) (7 mi. S) (8 mi. SE) (5 mi. SSE) (Vicinity)	24	10:15a 11:46a 12:35p 1:11p 1:55p 5:22p 5:40p							Waterspouts (7)
Mayo (15 mi. E) Lafayette County	25	afternoon			0	0	4	0	Lightning
									Fire caused by lightning almost totally destroyed home and furnishings.
Fort Myers (10 mi. NE) Lee County	25	4:21p							Funnel aloft
Homestead (18 mi. W)	25	5:45p							Funnel aloft
Key West (8 mi. SW)	26	8:00a							Waterspouts (2)
Miami (5 mi. SE)	26	11:15a							Waterspout
Key West (6 mi. NW)	27	1:00p							Funnel aloft
Key West (18 mi. NE)	27	6:23p							Waterspout
Miami (1 mi. E)	29	8:30a							Waterspout
Miami (13 mi. NE)	29	9:24a							Waterspout
Miami (5 mi. S)	29	12:53p							Funnel aloft
Key West (6 mi. E) (5 mi. NE)	29	3:22p 3:24p							Funnel aloft
Georgia									
Savannah 3 S	2	2:17 p	?	?	0	0	?	0	Tornado
									Funnel cloud reported touching the ground 3 miles south of Hunter Field.
Augusta	3	am			0	0	4	0	Heavy rains
									Extremely heavy early morning rains caused flooding in low lying areas. Damage to both public and private property was reported. Augusta Airport reported more than 4 inches of rain between midnight and 7 am.
LaFayette	5	am			0	0	5	0	Heavy rains
									Early morning torrential rains caused flooding of several stores and other business buildings. One textile mill had 2 feet of water. More than 6 inches of rain fell between 4 and 8 am. Streets were damaged and some main roads were blocked by rock slides.
Cataula, Harris County	8	Night			0	0	4	0	Lightning
									A fire started by lightning destroyed a large general store.
Georgia (continued)									
Southwest	20-22				0	0	5	5	Heavy rains
									Heavy rains fell over all of southwest Georgia as a tropical depression moved inland on the north Florida coast. Storm totals exceeded 5 inches at several reporting stations with unofficial reports of up to 14 inches in southern Decatur County. Flash flooding caused heavy property damage in several communities. Most of the crop damage was to peanuts dug but not threshed. Dams were broken on numerous farm ponds.
Hawaii									None reported
Idaho Central and Southern Idaho	10-11	Eve. 10-11			0	0	?	?	Lightning
									Scattered thunderstorm across the southern two-thirds of Idaho produced little precipitation but lightning caused 40 fires in the Boise and Payette Forests and 15 in the Challis Forest. The largest fires were a 700-acre blaze 15 miles east of Dubois, 500 acres 15 miles southwest of Silver City, and another burned 250 acres 30 miles south of Marsing. Lightning caused many scattered electrical outages and loss of 60 tons of hay near Terretton.
Malad, Oneida County	11	7:31 pm	?	?	0	0	0	0	Wind
									Windy conditions in the Malad Valley were indicated by gusts up to 65 miles per hour reported at the Malad City FAA Airport.
Minidoka and Cassia Counties	29	6:00p-6:30p	15	*10	0	0	5	0	Wind
									Very high winds across the Twin Falls-Rupert area damaged 5 airplanes at the Burley Airport where wind gusts were recorded up to 54 miles per hour. The roof of the Tinsley Building on East Main in Burley was also collapsed and numerous downed trees caused power outages for nearly an hour. Trees were also downed at Twin Falls and unofficial wind reports from Rupert indicated gusts up to 60 miles per hour.
Illinois									
Central Illinois	4	4p-8p					5		C Wind, rain
									Scattered damage by strong winds and heavy rain. Roof of Knox College building at Galesburg received an estimated \$40,000 to \$75,000 damage.
Kankakee County	4	5:20p	2-3	?	0	0	4		C Tornado
									Damage mostly to small structures or roofs of larger buildings on two farms near St. Arme. Broken trees damaged utility lines. Corn and soybeans damaged. WBFO Chicago.
Livingston County	4	6:30p	short path		0	0	4		C Tornado
									Two buildings in Dwight suffered roof damage with major damage to home under construction. Corn damaged as storm moved northeast. WBO, Chicago.
Edgar County	6	12:10p							Funnel cloud
									Reported to have dissipated near Metcalf.
Indiana									
Evansville, 15 mi. NE	1	3:44 p.							Funnel cloud
									Funnel reported by public.
Jasper (Dubois County)	1	6:30 p.			0	0	5	0	Lightning
									Fire caused by lightning destroyed clothing store; damage estimated at \$100,000.
Farmersburg, 2 mi. S. (Sullivan County)	5	11:30p.	Short Narrow		0	0	4	0	Tornado
									Weather observer reported barn and surrounding trees destroyed.
Lake George (Steuben County)	6	2:22 p.	Short Narrow		0	0	2	0	Tornado
									Public reported small tornado destroyed pier.
Lake George (Steuben County)	6	2:45 p.	Short Narrow		0	0	4	0	Tornado
									State Police sighted tornado near east shore of Lake George. Considerable damage to two houses.
Corunna (DeKalb County)	6	2:45 p.	Short Narrow		0	0	3	3	Funnel, hail, wind
									Sheriff reported funnel cloud just east of Corunna. Hail and wind caused slight damage.
Iowa									
Logan, Harrison County	4	7:30 a					4		Lightning
Dickinson County-Story & Boone Counties	6	5:45 p					5	5	Windstorm
									Winds to 80 mph. at Ames, losses in Story County about \$1 million.

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					KILLED	INURED	PROPERTY	CROPS			
Iowa (continued)											
Pocahontas County-Story & Boone Counties	6	6:10 p					5	5	Hailstorm		
									Extensive hail from Fonda to Rockwell City and in W Story County from Ames southward to Huxley and Slater. Hailstones to 2 inches diameter. Hail scattered elsewhere. Losses into millions of dollars.		
Fonda, Pocahontas County	6	6:15 p							Funnel cloud		
Ames, Story County	14	8:30 a					4	4	Hailstorm		
									Mostly south of Ames over previously hailed area.		
N of Ankeny, Polk County	26	7:05 p							Funnel cloud		
Polk, Warren, Story, Boone & Madison Counties	26	7:30 p					4	5	Windstorm		
									Hail reported at Des Moines, Carlisle, Ogden, Ames, Indianola and Winterset. 2 inch diameter at Indianola (at 8:30 p.), also heavy rainfalls and hail - (40% losses).		
Greene County	26	7:30 p	1	200			4	4	Tornado		
									Tornado touched down between Farland and Jefferson. Moved SSE 30-35 mph.		
Independence, Buchanan County	29	1:00 a							Lightning		
Albia, Monroe County	29	1:00 a							Lightning		
Kansas											
Stafford County	31-	night of					0	0	Rain		
	1	31-1					4	3			
									Torrential rains in NW Stafford County caused considerable flash flooding at Radium during the night of Aug. 31-Sept. 1. Rainfall was estimated in excess of 7 inches.		
Sedgwick County	3	2:05 p.							Funnel aloft		
									Funnel aloft was observed 7 mi. SW of Wichita Airport.		
Sheridan County	4	5:15 p.	8	*3 1/2			0	0	Hail		
									Hail up to 1 1/2 in. diameter fell in NW Sheridan County east of Rexford. Hail depth was locally 4 inches.		
Eastern portion	4-5	Night of					0	0	Lightning		
		4-5							Damage occurred locally in Clay, Lincoln, Ottawa, Brown, Osage, and Johnson Counties. Heaviest damage was at Sylvan Grove where a lightning-caused fire did \$50,000 damage to a garage and cafe.		
Harvey County	14-	Night of					0	0	Rain		
	15	14-15					4	3			
									Heavy rains to more than 7 inches in parts of Harvey County caused flash flooding in the Sedgwick-Putnam area.		
Cherokee County	15	about					0	0	Lightning		
		11:00 a.							Damage was at Hallowell.		
Sumner County	15	afternoon					0	0	Rain, wind, lightning		
		evening					4	4			
									Considerable damage was reported in the Caldwell area.		
Cherokee County	15-	Night of					0	0	Lightning		
	16	15-16							At Sherman, one home was destroyed and another was damaged.		
Sumner County	22	evening					0	0	Lightning		
									Damage was in the Wellington area.		
Cloud County	26	about					0	0	Hail		
		7:00 p.					3	3			
									Hail stones up to 3/4 inch diameter fell briefly in the Miltonvale area.		
Kentucky											
Jessamine County	2	9:00 a.					0	0	Lightning		
									Fire apparently set by a lightning strike destroyed a barn and contents.		
South Central	3						0	0	Hail, wind		
							4	C			
									In Green County hail hit the Bramlett-Bethlehem section and jumped to the Cox's Bend area. Extensive crop damage was reported on several farms and some others had damage varying from light to heavy. A hail storm, probably on September 3, damaged tobacco, peppers and some other crops in several areas in Casey County; around 20 farms in the areas suffered damage; damage was considerable on 5 or 6 farms.		
Green County	7	Morning					0	1	Lightning, Hail		
									A woman was leading a cow through a barn when lightning struck, knocking both her and the cow to the ground. The woman was stunned for several hours following the accident. Hail hit the Donansburg and Summersville areas causing light to heavy damage on a number of farms. In several areas there was some property damage from rain, hail and wind. A vacant house on the Summersville Road burned, apparently set afire by lightning.		
Kentucky (continued)											
Montgomery County	7	p.m.					0	2	3	0	Wind
											Two persons were injured and a car was demolished when high winds blew a large tree onto the vehicle. Three roads were blocked by trees. There were no reports of damage to buildings or crops.
Louisiana											
Vernon Parish	1	1:00 p.					1	1			Lightning
											Fourteen year old boy struck and killed instantly while loading hay on a truck near his home near Pitkin. His brother hospitalized.
Vernon Parish	1	2:20 p.					0	0	4	0	Lightning
											Large parish road grader struck by lightning and burned at Pickering.
Calcasieu Parish	1	Afternoon					0	0	4	0	Lightning
											Lightning caused damage at two places in Lake Charles during thunderstorm. Air conditioner caught fire and damage estimated at \$5,000 to home. TV set damaged in other strike.
Orleans Parish	4	12:20 p.					0	0	4	0	Lightning
											Lightning struck residence in uptown New Orleans, producing fire which caused estimated \$14,000 damage.
St. Landry and Avoyelles Parishes	4	1-1:30 p.					0	0	2	3	Lightning
											Electrical-wind-rain storm moved through Opelousas about 1 p.m. Several electrical wires caught fire, one transformer and one house struck. Eight cows resting under trees in the Bayou Jack community killed.
Ouachita Parish	4	3:25 p.					0	1	4	0	Wind, rain
											Strong winds in Monroe area blew down six utility poles, blew trailer home on its side, moved several others off foundations, toppled several large display signs and billboards, blew car down embankment. Many streets flooded temporarily from almost 3 inches of rain in 2 hours.
West Carroll Parish	7	1-1:30 p.					0	0	3	3	Wind, rain, lightning
											High winds at Epps demolished aircraft hangar, damaged several roofs, and broke trees and limbs. Two cows and calf killed by lightning.
Lake Pontchartrain	18	10:11 a.									Funnel cloud
											Sighted over lake north of Moisant International Airport.
Maine											
Southern	7	P.M.					0	0	4	0	wind, lightning
											Thunderstorms caused scattered damage. Wind damage included a home and car hit by falling limbs in Saco. Lightning damage included two fires in Biddeford.
Coastal and eastern	8-10						0	0	3	0	Hurricane Gerda
											Minor wind damage during the offshore passage of the storm, mostly tree limbs, with some utility outages. Reports of 60 mph winds in parts of Washington County. Heavy rain, mostly 2 to 4 inches, with 24-hour amounts in a few localities exceeding 4 inches, followed several previous days of showers to cause local flooding and washing problems. Bangor reported 4.68 inches for September 9 and 0.48 inch on the 8th.
Maryland											
North central portion	2	Afternoon					0	1	4	0	Rain, Wind, Lightning
											Thunderstorms, accompanied by heavy rainfall and gusty winds, caused scattered minor damage. Some flooding and at least one road cave-in were reported. A rainfall of 4.56 inches, falling in less than two hours, was reported at Columbia. Winds damaged some buildings under construction. Hail was reported but size was not given. A Baltimore housewife was slightly injured by lightning which struck her home as she was unplugging various electric appliances.
Baltimore	3	4:45 p.m.					1	0	0	0	Rain
											Heavy rainfall had caused streams to rise in northcentral Maryland. A 14-year old newsboy was drowned when he slipped into the swollen waters of Chinguapin Run.
Aberdeen	2-4	p.m. of 2nd- p.m. of 4th					0	0	3	0	Rain
											Heavy rain, totaling as much as 9.71 inches at Phillips Air Field during the period, caused some minor flooding. The 6.38 inches of rain, recorded on the 3rd, was a record September one-day rainfall at this weather station.
Annapolis	6	Afternoon									Rain
											A one-hour rainfall caused some local flash flooding.
Cumberland	7	3:00-4:00 p.m.					0	0	3	0	Flash flooding
											Heavy rain, accompanied by strong gusty winds, caused Elk Lick Creek on the west side of Martin's Mountain to overflow, damaging a motel. The creek was reported to rise as much as 10 feet in a flash flood between 3:30 and 4:00 p.m.

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Maryland (continued)									
Washington County	7	Evening			0	0	3	0	Wind
									Thunderstorms, with strong gusty winds toppled trees, 2 feet in diameter, and knocked down some power lines in several areas. Hardest hit was the Boonsville area. In Hagerstown, the wind toppled a 100-pound stone from the tower of a local church.
Washington DC Metropolitan Area	8	Early morning			0	0	3	0	Wind, rain
									Thunderstorms, accompanied by winds reaching 43 mph at National Airport, quarter-inch hail and more than 2 inches of rain caused scattered power failures and minor floodings in the area.
Massachusetts State	7	P.M.			0	0	4	0	Lightning, wind, rain
									Scattered damage from thunderstorms in state. Most extensive damage in area south and east of Worcester. Considerable lightning damage, with 10 cows killed in Plymouth. Some local washing and flooding rains. Wind felled trees and limbs in some sections.
State	8-9				0	0	4	0	Hurricane Gerda
									Heavy rain fell over the state, with totals mostly over 2 inches and up to 4 to 6 inches in parts of the southeastern portion. Some local cellar flooding and spill erosion. Minor wind damage in extreme eastern portion, with falling limbs causing some utility outages. A home in North Andover was damaged by a falling limb. Nantucket reported the strongest "fastest mile" of wind of any ESSA-Weather Bureau station in the state, at only 40 mph. Storm center passed well offshore.
Eastern	17	Approx. 6 P.M.			0	0	4	0	Lightning
									Numerous lightning strikes, mostly with minor damage to homes and utilities. A more serious strike hit Malden, with gas storage tanks threatened by fire.
Michigan Jackson-Lansing, Jackson & Ingham Counties	6	2-4 pm			0	0	4	0	Wind-Lightning
									High winds overturned a large semi-trailer and damaged two barns about 10 miles southwest of Jackson and topped some trees. At Lansing, three planes were snapped from their moorings as damage exceeded \$3,000. MSU's Martin 202 was damaged when the wind blew the tail section into a pole. Small hail fell during the storm and lightning set two fires and caused numerous power failures.
Alpena, 20 W Alpena County	6	Late pm			1	1	0	0	Lightning
									Lightning-bolt strike at Fletcher Pond killed one fisherman, injured a companion.
Holland, 5 WNW Allegan County	8	7:55 am			0	0	0	0	Waterspout
									Waterspout, first observed over Lake Michigan, moved onshore south of Douglas. No damage was reported.
South Haven, 16 SW Van Buren County	8	8:33 am			0	0	0	0	Waterspout
									Waterspout moved southward, dissipated over lake near Benton Harbor.
Muskegon, 20 W Muskegon County	9	10:55-11:10 am			0	0	0	0	Waterspout
Ironwood, Gogebic County	15	4-8 pm			0	0	3	0	Hail, Lightning Wind
									Hail, described as the size of tennis balls, fell over the south end of Lake Gogebic. Trees were stripped of leaves in this area. Lightning caused power failures in Ironwood and set two fires in Marquette. Wind toppled trees in Menominee as the storm moved eastward.
Traverse City, 26 NNW, Leelanau County	17	11:15 am			0	0	0	0	Waterspout
									Dissipated over Lake Michigan.
Near Charlevoix, Charlevoix County	17	11:15 am			0	0	0	0	Waterspouts
									Waterspouts dissipated over Lake Michigan. A total of six were reported within a one-hour period.
Minnesota Polk and Red Lake Counties	5	Afternoon			0	4	4	4	Wind, hail
									Large thunderstorm cell with winds and hail destroyed a mobile home injuring 4 persons and tore roof from hangar at Crookston and also caused some crop hail damage west and north of Crookston and across Red Lake County.
Minnesota (continued)									
Elbow Lake 16SW, Grant County	5	5:55pm-6:35pm	10	100	0	0	3	3	Tornado
									Small tornado formed 10 miles west-southwest of Wendell and moved at about 15mph on a heading of 105° and lifted about 5 miles west-southwest of Elbow Lake causing minor damage to several farmsteads.
Elbow Lake 1/2N, Grant County	5	6:41pm	1/2	100	0	0	3	3	Tornado
									Small tornado touched down 1/2 mile north of Elbow Lake moving toward the east, causing minor damage to crops and blew roof off large machine shed. A picture shows tornado in southwest part of large thunderstorm cell. The heavy rain is about 1 to 2 miles north and the (Elbow Lake 16SW tornado) has just lifted. Further funnel clouds were observed at Ashby & Eagle Bend near or after this time.
Detroit Lakes 7N, Becker County	5	6:45pm	short narrow	0	0	0	0	0	Tornado
									Funnel cloud touched down briefly causing no damage.
Faribault County	15	Afternoon			0	0	0	4	Hail
									Hailstorm caused some hail crop damage in southern Faribault County, most damage reported in Elmore Township and some crop damage east of Westbrook.
Statewide	28	Afternoon & Evening			0	1	5	0	Electrical storms
	29	Early morning							Lightning strikes from electrical storms and generally on a line across the State are listed below. Becker County: Lightning struck and burned home 128 of Audubon in Lake Umba Township. Becker County: Lightning struck and destroyed 200 bales of hay SW Detroit Lakes. Becker County: Lightning struck and caused minor damage to a home in Audubon and a home on the south side of Big Detroit Lake. Morrison County: Lightning killed 9 cows in field 3 1/2 mi Royaltown about 9:00pm. Dakota County: Lightning destroyed barn and silo 15W Buraka Center at 08:15pm. Goodhue County: Lightning destroyed a barn 7SW Cannon Falls. Goodhue County: Lightning destroyed a barn 5S Wainlingo at 11:30pm. Olmsted County: Lightning destroyed barn and one full burned 28 Rochester near midnite. Dodge County: Lightning struck home injuring one woman and causing minor damage to the home in Byron at 00:30am on the 29th.
Mississippi NW Mississippi	1-5				0	0	0	?	Rain
									Some rain in part of area each day. Generally 4 or 5 days from Bolivar and Cochran Counties northeast to Marshall and Lafayette Counties. Totals mostly 1.5 to over 3.5 inches. Damage to some crops and help to others; soil moisture mostly adequate. COAHOMA COUNTY: Fifth consecutive day with rain at Clarkdale with the biggest downpour on 1th. Rains helped soybeans somewhat, added to deterioration in some cotton fields. County Agent said moisture causing boll rot and preventing farmers carrying out insecticide programs. TULSA COUNTY: County Agent reported "after . . . drouth the county has finally got enough moisture." BASTON COUNTY: County Agent noted "Recent rains have improved pastures and made possible land preparation for grazing."
Missouri Northwest Missouri	6	Evening					5	5	Thunderstorms
									Numerous active thunderstorms, mostly north of the Missouri River and west of Highway 63. Golf ball size hail and high winds at Helena. Wind damage at St. Joseph, Richmond and Excelsior Springs. Lightning damage to farm buildings near Higginsville and Carter. Walnut size hail near Carrollton. Heavy rains in excess of 4.00 inches at Chillicothe and near Hamilton and Marshall.
Montana Roosevelt County	20	Night	?	?	0	0	4	0	Tornado
									A tornado destroyed a barn and a nearby combine, and damaged a grainery seven miles northwest of Culbertson.
Nebraska Furnas and Gosper Cos.	4	5p-6p	40	10*	0	0	4	5	Hail, damaging winds
									Center of path extended from Williamsville to Elwood. Stones were mostly 3/4" in diameter but jagged pieces ranged up to 2". Ground was covered 1 to 2 inches deep in center of hail strips. There was little wind at most sites but high winds demolished a mobile home at Elwood.
Antelope County	10	5:30p	Spot	Spot	3	0	0	0	Lightning
									Three brothers killed when lightning struck hay stack under which the boys were seeking shelter.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1969

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INURED	PROPERTY	CROPS		
Nebraska (continued)										
Boone County	2h	7p-7:30p	10	5*	0	0	4	5	Hail	
Two hail strips, one in Albion vicinity and the other in the northeastern part of the county. Stones mostly 1/2 inch in diameter, but some up to 2 inches, accumulated to 3 inch depth in center of storm. Hail of lesser intensity reported in Pierce and other counties of north-eastern Nebr. the same evening.										
Furnas Co.	28	?	Spot	Spot	0	1	0	0	Lightning	
Man struck while working at gravel pit near Arapahoe. Unconscious for awhile, but recovered with apparently no permanent injury.										
Nevada	None reported									
New Hampshire State	2	P.M.			0	0	0	4	Hail	
Thunderstorm activity over much of state with hail in scattered areas. Some crop damage, especially to apples.										
Coastal	8-9			0	0	3	0	Hurricane Gerda		
No major losses occurred during the distant offshore passage of this storm. A few rain-soaked tree limbs fell in resulting wind gusts, with some utility outages. Heavy rain, totaling mostly 2 to 4 inches, fell to the southeast of a line drawn through about the Concord area. Amounts fell off rapidly farther inland. Minor flooding and washing in areas of heaviest rain.										
New Jersey Northeastern counties	3-4					5		Heavy rains		
Very heavy rains fell over much of the northeastern portion of the State. Amounts were variable from 2 inches to more than 7 inches. Cranford reported a 2-day total of 7.70 inches, of which 1.45 inches fell in a period of 17 minutes. There were reports of flash flooding in several communities.										
Trenton area	7	11:30 pm E.S.T.					4	Thunderstorm		
A severe thunderstorm in the Trenton area caused considerable damage to roofs, trees and public utility lines.										
New Mexico Dona Ana County	2	9:40 p.					4	6	Hail, wind, rain	
Hail was heaviest from the town of Dona Ana southward to just north of Las Cruces and thence southwestward. Small hail stripped some cotton areas, and also damaged lettuce, chile, corn, sorghum, and pecans. Strong wind flattened some corn, and damaged some mobile homes. Heavy rainfall runoff damaged some roads. Most damage to crops, estimated at \$1 million.										
San Juan County	4	Evening			1				Lightning	
One person killed by lightning strike at home near Burnham Trading Post, in Farmington area.										
Albuquerque	7	9:30 p.			5				Flash flood	
Flash flooding, from heavy rains starting at 3:00 p.m., in southwest Albuquerque. Major damage to 36 homes and minor damage to 100 homes, with damage estimated at \$230,000.										
Rio Arriba County	8	Afternoon							Funnel cloud	
Funnel cloud observed 7 miles southeast of Dulce. No damage reported.										
Gallup	9	3:25 p.							Hail	
Hail, to 1 inch diameter, reported with thunderstorm moving eastward.										
Socorro County	10	3:30 p.							Funnel cloud	
Funnel cloud reported 25 miles north-northeast of Socorro, extending about 1000 feet from flat cloud base, travelling slowly eastward and dissipating in hills.										
Rio Arriba County	11	Evening			4		C		Flash flood	
Heavy rains caused flash flooding and silting in the area from Chisno to San Juan. Damage caused to roads, fences, ditches, buildings, autos, and crops.										
Taos County	17	3:31 p.							Funnel cloud	
Funnel cloud reported 5 miles southeast of San Antonio Mountain (70 miles north of Santa Fe), with movement unknown, by pilot.										
Valencia County	21	2:18 p.							Funnel cloud	
Funnel cloud reported near Ladrones Peak (43 miles southwest of Albuquerque) by pilot.										
San Juan County	20	Afternoon			5				Flash flood	
Roads and bridges damaged by flash flood from heavy rain.										
New York Ogdensburg, St. Lawrence County	1	2:30 p.m. to 3 p.m.					4		Wind, electrical, hail	
Locally severe thunderstorms hit city of Ogdensburg with lesser damage in other communities nearby. Winds blew in front brick wall on laundry and partially unroofed industrial plant in Ogdensburg. Heavy damage to trees, limbs and utility lines in city and two cars crushed by falling limbs. Hail of walnut size reported with minor damage to cars. Winds also wrought damage to trees in the cities of Canton and Potsdam.										
New York (continued)										
New York City (metropolitan area)	3-4	early a.m. to late p.m.					5		Rain, flooding	
Rainfall totaling more than 6 inches in a 24-hour period affected New York City from Staten Island to Yonkers. A total of 6.28 inches at Central Park, Manhattan, was greatest storm amount since the September hurricanes of 1944. Heaviest amount reported, 6.74 inches on Staten Island. Deep flooding of highways, expressways, all low lying areas and basements resulted. Subway and rail traffic greatly hampered in metropolitan area as reduced visibility during rains halted aircraft activity for two hours or more at major terminals. Precipitation amounts decreased to 2.5 to 4.0 inches in Queens, Nassau and southern Westchester Counties but flooding severe in these areas also.										
East Central	7	p.m.					4		Electrical, wind	
Afternoon and evening thunderstorms brought wind and lightning damage to Mohawk and upper Hudson Valley sections. Winds demolished 18' x 100' concrete block wall under construction at supermarket in Gloverville, where falling tree fell on house and crashed through roof. Dairy barn destroyed by lightning-caused fire near Granton, Rensselaer County as some half dozen homes in the County sustained light to moderate fire damage from lightning strikes. Wind damage to trees, limbs and power lines reported in parts of Columbia as well as in the Utica area and the Albany-Troy area.										
Runtington, Suffolk County	8	9 p.m.					19	5	Lightning	
During evening thunderstorms lightning bolt struck cocktail lounge. Bolt apparently ignited propane gas, causing explosion and fire which destroyed building. One person critically injured and 18 other persons required hospital attention for mostly minor injuries.										
Rochester (19 miles NE)	9	9 a.m.							Funnel cloud	
Coast Guard reported funnel cloud aloft over Lake Ontario, about 19 miles northeast of Rochester.										
Buffalo (30 miles NNE)	9	2 p.m.							Waterspouts	
Observed over southwestern Lake Ontario.										
Buffalo (12 miles southwest)	27	5:20 p.m.							Waterspout	
Observed by freighter on Lake Erie about 12 miles southwest of Buffalo.										
North Carolina Franklin County	5	7 pm					4		0	Electrical
Country club building burned when struck by lightning.										
Haywood County	7	Evening					0		4	Hail
Burley tobacco and tomato crops destroyed over a small acreage.										
Columbus, Durham, Edgecombe & Nash Counties	17	Afternoon			1		1	4	0	Electrical, Rain
Man killed by lightning in Columbus County swamp. High school girl knocked unconscious by bolt of lightning in a Durham classroom. Rain caused flash-flooding in Rocky Mount.										
North Dakota Foster County	5	Noon	15	6	0	0	0	0	4	Hail
Extensive hail damage was done to gardens, corn fields, and late crops in Juanita-Grace City-McHenry area.										
Ohio Scattered Areas	6	Afternoon-Evening			0		0		4	Wind and rain
Several areas reported relatively minor wind damage associated with thunderstorms. Most of the damage was in the form of downed power lines and trees. Prospect received 2.18 inches of rain from one of these storms and Van Wert reported 2.67 inches from another.										
Lake Erie Shore-line	8	2:03p					?		Wind and rain	
Heavy rain with gusts to 50 knots occurred at the Marblehead Coast Guard Station. The Coast Guard at Lorain reported heavy rain and wind gusts to 40 knots during the afternoon.										
Cleveland Area, Cuyahoga County	28	2:06p							Funnel aloft	
A funnel cloud was sighted 5 miles northwest of Cleveland but was not observed touching the ground.										

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

SEPTEMBER 1969

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		
Oklahoma Oklahoma City, Oklahoma County	4	About 5:30p.			0	0	6	0	Lightning	
									Lightning struck an oil filter manufacturing plant virtually destroying one wing of the plant.	
4S Drummond, Garfield County	7	5:15p.							Funnel aloft	
Cleveland, Pawnee County	7	About 5:15p.	?	?	0	0	4	0	Wind, hail, and rain	
									Small hail caused considerable damage to roofs and battered leaves from trees. High winds broke off a number of tree limbs, broke out a plate glass window in a downtown store, damaged a display sign on the front of a building, and ripped aluminum siding off the side of a business house. One mobile home was extensively damaged when the high winds blew a large tree into its side. There were numerous reports of other minor damage.	
Hennessey area, Kingfisher County	7	5:45p.	?	?	0	0	?	0	Wind, hail, and rain	
									Winds, estimated at 80 MPH, small hail, and heavy rain struck area causing considerable property damage. A grain elevator was damaged, 14 powerline poles were ripped from the ground, trees were heavily damaged, signs were blown to the ground, and several trailer houses were damaged or destroyed. Rainfall was officially measured at 1.5 inches.	
Crescent area, Logan County	7	7:15p.	?	?	0	0	2	0	Wind and funnel aloft	
									Strong winds, estimated at 70 MPH, caused minor damage to tree limbs and a few windows were blown out. A funnel cloud aloft was sighted northeast of Crescent but did not touch the ground.	
Enid, Garfield County	7	Evening			0	0	4	0	Lightning	
									Lightning struck a barn setting it afire and causing considerable damage to the barn and destroying a jeep, truck, and 11,000 bales of alfalfa hay.	
About 15W Hooker, Texas County	7	Night	?	?	0	0	4	4	Hail, wind, and rain	
									Large thunderstorm developed and moved across the area. Small hail, strong winds, and heavy rain caused considerable crop and property damage. The maize crop, which was ready for harvest, was heavily damaged by the small hail and strong wind. The strong, straight winds damaged several farm buildings, two trailer houses, trees, and a couple of automobiles. Rainfall amounts up to 4 1/2 inches were reported.	
Blackwell, Kay County	15	3:30p.			2	0	0	0	Lightning	
									Two boys were killed when struck by lightning in high school parking lot.	
7W Alva, Woods County	15	7:27p.			0	0	0	0	Tornado	
									A farmer driving to Alva spotted a tornado on the ground moving towards the northeast. No damage was reported.	
NE Buffalo, Harper County	15	Evening			1	0	0	0	Lightning	
									Lightning struck and killed Harper County farmer in the Paruna Community, northeast of Buffalo.	
Weatherford, Custer County	15	Night	?	?	0	0	4	0	Wind and rain	
									Strong winds, possibly associated with a funnel cloud aloft, struck Weatherford causing considerable property damage. Hardest hit was the area around Southwestern State College. Two dormitories were damaged, about 80 cars at the college had from one to all their windows blown out or shattered by gravel picked up by the strong winds. One trailer house was destroyed, trees were damaged, television antennas were blown down, and several small tool sheds were overturned. Better than two inches of rain fell in the matter of minutes and caused minor flooding.	
Northern Counties	15	Night			0	1	?	?	Heavy thunderstorms and flash flooding	
									Heavy thunderstorms moving southeastward produced rainfall amounts up to nearly 6 inches across the northern part of the State from Harper County eastward to Osage County. A number of roads were closed for a time by high water. One minor injury occurred at Tonkawa when an occupant of an auto suffered cuts and bruises in escaping from the auto after it had been caught in high water across the road. Lightning knocked power out in a number of communities during the storm. Hailstones, measuring up to 3/4 inch in diameter, were reported washed into a drift 4 feet deep across US 64 1 mile west of Buffalo in the early part of the night.	
E Boise City, Cimarron County	17	4:20p.							Six funnels aloft	
Fillman and Cotton Counties	21- 22	Afternoon 21st - Afternoon 22nd			0	0	6	5	Heavy rain and flooding	
									Heavy rains and resulting flood caused extensive damage to pasture	
Oklahoma (continued)									land crop land. Land was badly eroded, dams on stock ponds were washed out, terraces were washed out, bottom land was badly scoured along the Deep Red Run Creek, fences were washed away, around 1500 cattle were trapped by the high water and a large number lost their lives by drowning. The cotton crop and newly planted small grain crop was heavily damaged. Roads were badly washed and more than 10 bridges were washed out. Two farm homes along the Deep Red received extensive damage from the high water. Official rainfall measurements exceeded 6 inches in some locations and unofficially more than 11 inches of rain fell at Hollister, southeast of Frederick, in an 11-hour period on the 21st. The flood waters began receding on the morning of the 22nd. The flooding was thought to be the worst in the area since 1951.	
Alva, Woods County	22	4:00p.			0	0	4	0	Lightning	
									Lightning struck the head-house of a grain elevator. Resulting dust explosion and fire caused considerable damage.	
Ardmore, Carter County	22	Night			0	0	4	0	Wind	
									High wind blew down portion of steel framing at site of new plant being constructed.	
Oregon									None reported	
Pacific Mariana Islands Pagan, Alamagan, Agrihan	23	Morning			0	0	0 ⁵	C	Typhoon	
									Typhoon ELSIE, moving west-northwestward, passed between the islands of Pagan and of Alamagan, 38 miles to the south, between 6:30 and 8 a.m. with center winds estimated (by reconnaissance aircraft) at 140 miles an hour. Damage included: on Pagan, all buildings destroyed (except typhoon-proof school); U. S. Weather Bureau second-order station severely damaged, records destroyed; banana crop (total loss); 70 percent coconut trees (copra); 50 percent other vegetation. Damage worse on southern one-third of island (vegetation completely browned by salt spray) than on west and north portions. On Alamagan, all buildings (except typhoon-proof school) and all crops. On Agrihan, 70 percent of coconut trees, mostly by flying tin from buildings; all other crops destroyed. No damage reported other islands.	
Pennsylvania Indiana County	5	Evening						2	Lightning	
									Lightning killed a pony at Indiana.	
Wifflin County	6	Evening						4	2	Lightning
									Lightning set barn on fire. The loss was estimated at \$6,500.	
Bucks County	7	Night						4		Lightning, rain
									Minor damage occurred when lightning struck several houses and toppled trees that fell across roads. Severe thunderstorms caused minor flooding in many areas of Lower Bucks County.	
Puerto Rico Aguadilla	4	Afternoon			0	0	4	0	Funnel cloud, Thunderstorm, Windstorm	
									Heavy thunderstorm activity with gusty winds and heavy rains during the period between 1400 and 1800 caused considerable property damage to the Aguadilla Bay area. A funnel cloud was reported by Ramey Air Force Base 4 miles to the south at 14:15. Some Aguadilla residents reported a waterspout at about this time.	
Rhode Island Northern sections	7	5-8 PM			0	0	4	0	Lightning, rain	
									Heavy thunderstorms with intense lightning caused several fires, extensive power failures and considerable local flooding.	
South Carolina Lee County	8	5 p.			0	2	3	0	Windstorm.	
									High winds overturned a house trailer in Ashwood Community about 7 miles south-southwest of Bishopville. The owner and his wife were trapped inside and were taken out by a rescue squad. They were hospitalized briefly but their injuries were not serious.	
Greenville County	19				0	0	5	0	Rainstorm.	
									Several inches of rain fell between midnight and dawn a few miles to the north and west of the city of Greenville. Flash flooding on the Reedy River, which goes through the city, caused heavy damage to a warehouse and to heavy machinery. Several homes were also damaged by flood waters.	
South Dakota 16E Pierre, Hughes County	17	4:30 - 6:15 p	11.5	*1/2	0	0	3	4	Hail, wind and heavy rain	
									Wind driven hail averaging 1/2 inch with largest to 3/4 inch damaged crops and buildings in area. Wind was estimated at 60 MPH or more. Unofficial amounts of 5 to 6 inches of rain were reported.	

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
South Dakota (continued)									
4.5SE Nunda, Lake County	26	Afternoon			1	0	0	0	Lightning
					Mr. Cyrus Mayer, a 54 year old farm hand, was killed instantly by lightning while he was haying.				
Tennessee Statewide									
	4	p.m.			0	0	4	0	Rain, wind, lightning
	Strong thunderstorms accompanied by 2 to 3 inches of rain caused local flooding of roads, basements and low-lying areas, especially in southern counties. Scattered wind and lightning damage to buildings and utilities.								
Fentress County	4	afternoon			0	0	4	0	Lightning
	Lightning-set fire destroyed house near Jamestown. Lightning also destroyed shed, killing calf and several hunting dogs.								
Knoxville, Knox County	19	afternoon							Lightning
	Lightning struck WOX Radio Station tower causing minor damage. Damage estimate unknown.								
Texas Noack, Williamson County	3	12:15 p			0	0	?	0	Lightning
	The legendary "Noack Bar" burned to the ground after lightning struck during a thunderstorm to leave only ashes of an intricately carved bar brought from Europe a century ago. Five persons sitting at a table escaped unurt after the bolt struck the kitchen of the popular Central Texas cafe and bar at 12:15 p.m.								
Serbin, Lee County	7	2:30 p			0	0	3	0	Lightning
	Lightning struck and killed four head of cattle on the Otto Becker, Jr. Farm near Serbin. Lightning struck a nearby tree and the bolt jumped across to the cattle. Losses were estimated at 620 dollars.								
Dallas, Dallas County	7	2:50 p							Funnel aloft
	Reported north of Skillman and Forest Lane in northeast Dallas.								
N. Freestone County	7	4:20 p							Funnel aloft
Pasadena, Harris County	8	5:40 p	**1000	50	0	0	4	0	Tornado
	A small tornado demolished a boat rental building at 1915 Strawberry Road in Pasadena and two walls of a brick building directly across the street. Minor damage, consisting of uprooted trees and broken utility poles extended for about 10 city blocks. Damage was estimated at \$10,000. Police said there were about a score of reports of broken windows and house roofs damaged. The area hit was a small business-industrial district surrounded by a residential area.								
5 SE Kaufman, Kaufman County	8	7:30 p	?	?	0	0	3	0	Tornado, lightning
	A small tornado touched ground briefly in the Jiba community about five miles southeast of Kaufman. Several old out buildings were demolished and one trailer was split open. Several trees were damaged. One cow and a calf were killed when struck by lightning.								
Near Killeen, Bell County	16	8:00 p							2 Funnels aloft
	Two funnel clouds were sighted south and southeast of Killeen but neither touched ground.								
7 W Mountain Home, Kerr County	16	9:20 p	?	?	0	0	?	?	Tornado, windstorm
	A small tornado touched ground on the Wolfproof Ranch, about seven miles west of the Mountain Home community and overturned two small buildings; other buildings received minor damage. Approximately 400 acres of pasture land were damaged to the extent of trees being blown over or twisted off. Windstorm damage extended over an area approximately one-half mile wide and one mile long in places. Many trees, four to eight inches in diameter were uprooted while others were twisted off about three feet above ground level.								
26 NE Dalhart, Dallam County	17	4:15 p							Funnel aloft
30 NNE Dalhart, Dallam County	17	4:15 p							2 Funnels aloft
Lubbock, Lubbock County	18	Morning			0	0	?	0	Flooding, lightning
	Torrential rains, measured unofficially up to six inches, inundated streets and flooded an estimated 400 homes and apartments in southwest Lubbock. The number of automobiles thought to have been damaged was even larger. Maxey Lake, which normally occupies a small portion of Maxey Park, completely covered the Park - extending from Quaker to Nashville Avenues and from 22nd to 30th Streets. Some of the greatest damage from the surging waters was north of the Maxey Park area - on the other side of the Brownfield								
Texas (continued)									
	Highway. First-floor apartments in the area between 19th Street and the Brownfield Highway to the west of Quaker Avenue were soaked up to a foot deep in some apartments. Lightning struck and set fire to one home and damage was estimated at \$1,000.								
Kleberg County	20	Morning			0	3	0	0	Lightning
	Lightning struck a 17-foot boat occupied by four men off Padre Island. One man was knocked some 10 feet out of the boat into Gulf waters which was only three feet deep. Three of the men suffered minor bumps. "We didn't even know what hit us!", said Santiago De Leon. "All of a sudden I found myself in the water. I couldn't hear and I couldn't talk."								
5 NW Fieldton, Lamb County	22	6:30 p-7:00 p	8	100	0	0	?	?	Tornado, 3 funnels aloft, hailstorm
	The Lamb County Sheriff traced the tornado, which barely missed the town site of Fieldton, for about five miles between Fieldton and Hart Camp. The total path length was estimated at about eight miles. The tornado blew away some cattle feeders on the Harvey Neel farm, and ripped out fences and utility poles in its path. Witnesses reported the tornado sounded like a freight train as it went by. Three other funnel clouds were sighted in the area, but these did not touch ground. Hailstones averaging one and three-quarters inches in diameter fell during the storm. Largest hailstones were two and three-quarters inches in diameter.								
Reese AFB, Lubbock County	22	8:40 p	?	?	0	0	?	?	Hailstorm
	Hailstones up to one and three-quarters inches in diameter were reported at Reese Air Force Base, west of Lubbock. No damage was reported.								
2 1/2 W Woodrow, Lubbock County	22	9:50 p	?	?	0	1	?	0	Windstorm
	Mrs. Wilbur Kevil and three children were in a house trailer which was overturned by high winds about two and one-half miles west of Woodrow. Mrs. Kevil suffered bruises which did not require treatment. The children were not injured.								
Hockley County	22	Night	?	?	0	0	?	?	Hailstorm
	Heavy hail was reported north of Whitharral and about three miles east. The hail stripped leaves off some of the cotton. Hailstones ranged in size from 1 3/4 inches to 2 3/4 inches in diameter. Heavy hail was reported in the Sayer area also.								
Galveston, Galveston County	23	10:00 a-10:30 a							Waterspouts
	Several waterspouts were reported in the West Galveston Bay area.								
San Antonio, Bexar County	23	Morning			0	0	4	0	Flooding, lightning
	Heavy rains, unofficially measured up to six inches, flooded streets in downtown San Antonio, and caused some damage as water entered a few buildings. Water running over the curbs entered the National Furniture Company building at 116 W. Commerce, where damage to stock was estimated at \$30,000. Water entered the Ginter Hotel and flooded the basement. At the Hilton Palacio del Rio Hotel employees piled up sand bags 18 inches high to prevent water from seeping in from the San Antonio River. However, the hotel's outdoor swimming pool on the fifth floor level overflowed into the executive offices and caused some damage. The heavy downpour caused the roof of the Woodco Room, a lounge at 800 Myrtle Street, to collapse under the weight of the water. Lightning struck the home of Mrs. A. H. Verdenpaum at 216 Burcham and caused minor damage.								
Near Port Isabel, Cameron County	27	2:52 p							Funnel aloft
15 E Brownsville, Cameron County	27	2:54 p							Funnel aloft
Utah									
									None reported
Vermont									
North Springfield	2	P.M.			0	0	4	0	Rain, wind
	Excessive rains, estimated at over 4 inches during a brief afternoon thundersquall, caused local washing and flooding damages. Roads were washed out or undermined, soil was eroded, and cellars, plus at least one home, were flooded. Wind felled trees and limbs, blocking roads.								
U. S. Virgin Islands									
									None reported

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
Virginia 40 miles North of Norfolk in Chesapeake Bay	8	12:42 p.m.							Waterspout Pilot reported waterspout.
Manassas, Prince William County	17	6:20 P.M.					4		High wind High winds flattened a large section of fence, took off part of the roof of the tower at the Old Dominion Speedway and tore out more than 2000 seats. In the nearby area, aluminum siding was ripped off a house, the roof was torn off a shed, and many trees were uprooted.
Washington				None reported					
West Virginia Renick, Greenbrier County	5-6	Night			0	0	5	4	Flash flood A flash flood occurred on Spring Creek during the night of September 5-6. Spring Creek flows into the Greenbrier River about 2½ miles south of Renick. Water was reported about one foot higher than that produced during the flooding 2½ weeks earlier by the remnants of hurricane Camille. Nearby corn crops and meadows were washed flat, with an estimated 1254 acres washed out or covered with rock, boulders and sand. Much of the land was damaged beyond economic repair. Three houses were washed away (including the one in which two women were drowned against the ceiling 2½ weeks earlier) and 12 were damaged. Ten bridges and five miles of road were washed out (\$100,000 damages).
Moundsville, Marshall County	17	1 p.m.			0	0	4	0	Windstorm A power company official reported that a severe thunderstorm with hail and high winds extended from about three miles north of the city to just south of Moundsville. Many trees were uprooted in the city, the wall of a building under construction was toppled, and the roof of a lumber company which measured 100x16 feet was blown off. Three utility poles were snapped off in the northeastern part of Marshall County near the Pennsylvania border.
Spencer, Roane County	17	3:30 p.m.			0	0	3	?	Hailstorm Three hail storms pounded the Roane County area with stones as big as golf balls. Wind and hail combined to break several windows in homes. Tree limbs were snapped by the force of the storm and leaves were shredded by the hailstones. After the hail, a 15-minute cloudburst deluged the area. State route 33 was temporarily closed by rocks washed onto the highway combined with downed tree limbs, from the Roane County line to Spencer.
Wisconsin Milwaukee County	5	pm			1	0	0	0	Wind 62-year old man drowns in Lake Michigan as he is thrown overboard from his sailboat during thunder squall off South Milwaukee.
Milwaukee County	5	pm			0	1	0	0	Lightning 22-year old man struck by lightning and injured while guiding a plane toward the ramp at Mitchell Field.
Kewaunee County	14	9:30 p			0	0	4	0	Lightning Lightning causes fire in old church now used as a lectern factory.
Washington County	14	8 - 9 p			0	0	4	0	Lightning Numerous small fires caused by lightning in West Bend area.
Oconto and Marinette Counties	15	pm			0	0	4	0	Wind, Lightning Scattered wind and lightning damage with severe thunderstorms.
Crawford County	29	2 a			0	0	4	0	Lightning Lightning damages home at Prairie du Chien.
Richland County	29	2 a			0	0	4	0	Lightning Lightning fire destroys barn along Hwy. 80 north of Muscoda.
Waukesha County	29	7:20 a			0	0	4	0	Lightning Lightning fire damages town of Delafield home.
Dodge County	29	5 a			0	0	4	0	Wind High winds blow down two 200-foot wall sections at plant under construction at Beaver Dam.
Wyoming				None reported					

° 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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