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1970

STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1970

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			
Alabama			None	Reported							
Alaska Cordova	31	p.m.			0	0	5	0	Windstorm		
					Winds up to 100 mph reported. Roofs were blown off several homes and The Community Hospital. Power lines were downed. Two small airplanes were flipped and were badly damaged. Two new mobile homes were split at the seams.						
Clearwater	31	p.m.			0	0	?	0	Windstorm		
					Strong winds moved trailer off frame, tore down signs and caused power outage.						
Anchorage, Alyeska & Matanuska Valley	31	p.m.			0	0	?	0	Windstorm		
					High winds struck the Matanuska Valley, Anchorage and Alyeska, causing damage to trees and power lines. Alyeska reported winds gusting to 130 mph and an estimated 150 trees were blown down through the valley. Anchorage reported winds of up to 55-60 mph and Palmer up to 100 mph.						
Arizona			None	Reported							
Arkansas Conway, Faulkner County	6	4:15 p. to 4:30 p.	1/4	100			4		Tornado		
					A small tornado touched down about 3 miles west of Conway moving from south to north doing minor damage to farm buildings and one trailer.						
Gentry, Benton County	8	1:00 p. to 1:30 p.	5	200		4	5		Tornado		
					Tornado traveled on ground from 3 miles north of Siloam Springs to about 2 miles north of Gentry. Considerable damage done to concrete block house, garage, motel, tourist home and trailer home. Major damage was along highway frontage just north of junction of highways 59 and 12.						
Texarkana, Miller County	8	1:00 p. to 1:30 p.	20	400			4		Wind		
					Wind squall traveled from Lake Texarkana, Texas northeastward to Texarkana, Arkansas airport and Mandeville, Arkansas. 250 phones out and 1,000 electrical customers out of service. 82 mph winds at Texarkana Airport with major damage to 6 military aircraft. Farm buildings damaged at Mandeville.						
Norman, Montgomery County	8	2:00 p. to 2:30 p.	?	?			4		Wind		
					Squall touched down in the Middlebuster section of Norman damaging church roof and other buildings and trees.						
Hot Springs, Garland County	8	3:00 p.					3		Funnel aloft		
					Funnel aloft observed 6 miles west of Hot Springs. Roaring sound heard in vicinity. Tree tops twisted off. 45 mph winds observed at airport.						
Jersey, Bradley County	8	4:45 p. to 5:00 p.					3		Wind		
					Chicken house destroyed and other minor damage in Jersey. Box car blown off of tracks from same storm in Warren.						
McCrory, Woodruff County	8	7:25 p.							Funnel Aloft		
					Reported by City Marshall. No touchdown or damage.						
California			None	Reported							
Colorado			None	Reported							
Connecticut Suffield, Hartford Co.	3	5 PM	1/2	10-20	0	1	4	0	Tornado		
					Small tornado touched down twice in 1/2 mile path in northern West Suffield. A barn, chicken coop and 22 trees were destroyed. A camp trailer, several roofs and chimneys, additional trees and some power lines were damaged. An elderly lady, caught outdoors, was slightly injured. The tornado then lifted and moved ENE into Agawan, Mass.						
Sherman, Fairfield Co.; New Milford, Litchfield Co.	15	8-10 PM			0	0	4	4	Wind		
					A severe thunderstorm produced excessive straight line winds which uprooted trees and roofs and damaged power lines. A small orchard was wiped out.						
Delaware			None	Reported							
Florida											
25 NE Ft. Lauderdale	01	5:13p							Funnel aloft		
5 E Pompano Bch	01	5:25p							Funnel aloft		
Florida (continued)											
Venety Ft. Lauderdale	01	6:20p							Funnel aloft		
23 E Miami	03	10:00a							Funnel aloft (2)		
25 E Tampa	03	3:40p							Funnel aloft		
Davis, Broward County	03	afternoon					2		Lightning		
					8 year old boy in serious condition and 16 year old babysitter in good condition when lightning hit a tree in backyard.						
10 ENE Vero Beach	05	1:20p							Waterspout		
13 E Miami	07	8:26a							Funnel aloft		
12 SE Pensacola	08	10:30a							Waterspout		
Panama City	08	afternoon					0	4	Lightning		
					\$25,000 luxury cabin completely ravaged in fire when lightning struck a T.V. antenna and spread rapidly through the house.						
9 SW Pensacola	09	1:39p							Waterspout		
Mac Dill AFB, Tampa Hillsboro County	10	4:45p							Funnel aloft		
6 SSW Key West NAVAL Air STA.	12	6:30p							Funnel aloft		
Pensacola	13	afternoon					1		Lightning		
					14 year old boy injured when lightning struck a class room. Condition reported good.						
Raiford, Union County	14	12:45p							Funnel aloft		
Miami 15 E	14	1:00p							Waterspout		
Jacksonville	16	4:15p							Hail		
					Golf-ball size hailstones accompanied by up to 8" of rain hit portions of Jacksonville proper. Some chunks of ice in pencil shape were also reported. No damage reported.						
Sarasota, Sarasota County	20	8:00a							Funnel aloft		
SSE Key West	21	12:55a							Funnel		
2 N Sebastian Indian River Co.	24	12:02p							Waterspout		
Georgia											
Dalton	10	2:00 a				0	1	4	0	Lightning	
					A woman received cuts and burns when lightning struck her home. The bell over the bed in which she was sleeping fell in and the entire inside of the house suffered heavy damage.						
Hawaii			None	Reported							
Idaho											
Southern Idaho	22-24	----	--	--	0	0	NA	--	Snow		
					Heavy snow above 5000 ft. equaling and setting new records. A number of totals ranged from 10-20 inches. Warren, Idaho County, recorded 20 inches for the most this period; and an additional 9 inches, 5th-6th, brought Warren's total to 29 inches for October. NA Not applicable.						
Illinois			None	Reported							
Indiana			None	Reported							
Iowa											
Moulton, Appanoose County	8	5:25 p							Funnels (2)		
3NW Moulton, Appanoose County	8	5:40 p	2	150			4	4	Tornado		
					Moved northeastward.						
Unionville, Appanoose County	8	5:55 p							Funnel		
Western Iowa	9						5	4	Snowstorm		
					Unusually early snowstorm of such magnitude; upward to seven inches snowfall in NW Iowa. Schools closed, power and telephone lines were downed, tree limbs broke under the weight of wet snow and numerous auto accidents were reported. Snow extended east to Palo Alto County and southward to Fremont County. Heaviest snowfalls around Le Mars. Record heaviest so early in the season in Sioux City area. Earliest measurable snow of record in Harrison County.						
Kansas											
Southeast one-fourth, east central portion	5-6	night of 5-6					0	0	4	0	Lightning

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Kansas (continued)										
										Lightning caused local damage in Butler, Harvey, and Marion Counties. A home was damaged in Miami County.
Southwest to north central and northeast portions	8-9	8th night of 8-9			0	0	5	5		Snow, wind
										An unusually early snow storm brought moderate to heavy snow to much of the area from southwest and south central Kansas northeastward into north central and northeast Kansas. Near blizzard conditions occurred over parts of the snow area. The storm knocked down many power and telephone lines, damaged unharvested milo and corn, blocked some roads and highways, and forced several schools to close. Snow accumulated to a depth of 11 inches in the Greensburg-Mullinville area. Heaviest damage to power and telephone lines was in the Hutchinson-McPherson-Salina area. This was one of the most severe early season snow storms of record for much of Kansas.
Kentucky										
Floyd County	11	3:30 p.			0	0	0	0		Hail
										Hail the size of ping pong balls fell on a portion of the county. No reports of damage were received.
Louisiana										
Cameron Parish	11	10:00-10:15p.	1	200	1	2	5	0		Tornado
										Nine-month-old baby killed near Sweet Lake, father's arms broken, mother badly bruised. House trailer demolished, four homes, several barns and sheds damaged. One house moved 80 feet, only one windowpane broken. Storm moved south to north.
Jefferson Parish	13	4:10a.	1	50	0	0	5	0		Tornado
										Destroyed covering of marina, demolished adjacent machine shop and house trailer at Lafitte. Five substantial boats sunk, many damaged. Deputy sheriff sighted four "swatches" or apparent paths in wooded and marsh area from aircraft.
Plaquemine Parish	13	7:30a.			1	0	4	0		Wind
										Ten year-old girl, waiting for school bus, crushed by house trailer knocked over by wind gusts at Homeplace. Four other trailers flipped or lifted off blocks.
Calcasieu Parish	23	2:00p.			0	0	5	0		Wind
										Strong winds off Lake Charles toppled steel girders and columns in Civic Center under construction. Some 207 tons of steel in process of erection collapsed.
Southwest Division	27	4:00a.-11:00p.			0	0	6	?		Rain
										Heavy rains--locally 5 inches to unofficial 21 inches at DeQuincy Firetower (8 miles southwest)--centered in area between Lake Charles, DeQuincy, and Doneyville, Texas produced extensive flash floods over wide area. Three-quarters mile of railroad track washed out at DeQuincy. Heaviest damage at DeQuincy where 800 persons forced to evacuate. Several hundred also forced from homes around Starks. Sections of Lake Charles inundated to highest levels in almost 20 years.
Maine										
Freeman Plantation, Franklin Co.	3	evening			1	0	0	0		Lightning
										Man killed while working on auto.
Stacyville	3	evening			0	0	4	0		Lightning
										Home destroyed by lightning fire.
Convene	3	6 p.m.	1 1/2	100	0	0	3	0		Tornado
										Path northeasterly through woods, with tornado at times shearing off only tree tops and sometimes lowering to ground with complete destruction. Path came close to one homestead, tearing off part of a barn roof. Hail fell in area.
Pittsfield	3	7:30 p.m.	short	150	0	0	4	0		Tornado
										Two mobile homes damaged. Three planes demolished and another damaged at the Pittsfield Airport. Tornado damage in short intervals of overall storm path of 5 to 10 miles in length.
State										
	3	P.M.			0	0	4	0		Rain, wind
										Thunderstorms brought damaging wind and heavy rain to many places. Gusts to 60 mph recorded at Caribou at 3:15 p.m. Tree, utility line, and other local wind damage. Heaviest rain in northern portion, with local washing and flooding. Scattered hail. Damage estimated about half from wind, half erosion and flash flooding.
Northeast	17-18				0	0	4	0		Snow
										Heavy, wet snow totalled 6 to 12 inches in much of this section with 13 inches reported at Debouille Mt. Snow loads felled many trees, broke branches, and caused many utility outages.
Southeast	23				0	0	4	0		Rain
										Heavy rain, totalling 2 to 4 inches over much of this section, caused local street and cellar flooding and erosion problems.
Maryland										
										None reported
Massachusetts										
Agawam, Longmeadow	3	5 p.m.		10-20	0	0	5	0		Tornado
										Narrow tornado came from West Suffield, Conn., and touched down again for about 1/8th mile in an SNE path in Agawam, in the River Rd. and South St. section, damaging a greenhouse, homes, trees and utilities. It touched down again momentarily in nearby Longmeadow, where additional buildings, trees, and utilities were damaged.
Hardwick to Littleton	3	5:15 to 6:05 p.m.	35	10-100	1	0	6	0		Tornado
										Discontinuous damage path of narrow and varying width, with funnel lifting and touching down a number of times. A second funnel, aloft, was sighted in Rutland. Greatest single property damage was that to Quabbin Regional High School in Barre, but many homes, barns, trees, utilities, etc., were damaged along path. General direction to east and east-northeast, but somewhat erratic at times. Towns affected included Hardwick, Barre, Rutland, Princeton, Sterling, Lancaster, Harvard, Boxboro, and Littleton. One death when a fisherman was blown into a pond near Littleton. Many utility outages. A number of cars crushed by falling trees. A horse was killed in Barre.
Worcester and vicinity	3	5:30 p.m.			0	0	2	0		Hail
										Hail 1 inch diameter at Worcester Airport and up to 1 1/2 inches in vicinity.
State										
	3	P.M.			0	0	5	0		Lightning, wind, hail
										Scattered lightning damage included loss of a home by fire in West Brookfield. Scattered damage from thundersquall winds in many localities especially in northern and western sections. Gusts to 32 mph recorded at Chester. Hail in many sections with unconfirmed report of very large hail near Amherst at about 5 p.m., though no damage was mentioned. Damage 30% from lightning, 70% wind.
Michigan										
Mackinac Straits	2	10 AM		Unknown	0	0	0	0		Waterspout
										Waterspout observed over Straits of Mackinac from Port Michilimackinac, moving from west to east. It was also visible from the Mackinac Bridge.
Indian River, 6 S near Burt Lake, Cheboygan County	2	6:20 PM	2-3 miles than 100 yds	Less	0	0	0	0		Tornado
										Storm travelled from northwest to southeast over a wooded area. No reports of damage, except to some trees.
Minnesota										
Western & Northern Minnesota	8-10				0	0	4	0		Heavy Snow
										Very wet snow measuring 6 to 8 inches in the Slayton to Hendricks area broke off many branches and split many trees to cause their removal. Record or near record snowfall amounts of 10 to 14 inches fell from Ottertail-Govick-Oklee. This caused tree damage and blocked many roads for a short period.
St. Paul, Ramsey County	20	5:20am			0	0	3	0		Lightning
										Lightning struck home and charred parts of the interior.
Mississippi										
State										
										MONTH: "Special Weather Summary" and other supplemental information in October 1970, Climatological Data, Mississippi.
Hancock, Harrison and Jackson Counties	6				0	0	?	0		Heavy Rain
										Newspaper noted, "Flash flooding along low lying areas of three Mississippi coastal counties - Harrison, Jackson and Hancock - presented traffic problems among city streets in some metropolitan areas, particularly Pascagoula, where three-foot pools put a damper on industrial workers working late night shifts. . . . Rain which had not let up from sunset until near 11 p.m. (CDT), created drainage problems primarily in Pascagoula streets lower than Highway 90."
Adams County	11-12				0	0	?	?		Heavy Rain
										Natchez newspaper reported, "Eight and one quarter inches of rain was recorded at the Mississippi Power and Light Steam Station east of Natchez. The rainfall was recorded after 12 o'clock (CDT) Sunday night. . . . Some businesses in both Natchez and Vidalia were faced with water coming in on the ground floor and basements. . . . Workmen. . . were busy Monday (12th) repairing washed out roads, clearing trees and moving dirt slides from the roads. . . many employees had stopped up. . . Charles Wells, County Agent, said that the rain had damaged soybeans, corn and cotton in the county. The rain knocked the plants down and this causes problems in harvesting he said. The water in numerous places left a covering of mud as it drained away. Radio Station WJIS on St. Catherine Creek, Highway 61, went off the air when flooded; after the 7 inches of rain within the building receded there was 4 inches of mud."
Simpson County	13	5:15 a.-5:18 a.	1/2	50	0	3	4	0		Tornado
										Small tornado dipped down in Sumrall community, east of Martinville, 8 1/2 NNE Magee (lat. 32.0°N, long. 89.7°W). Storm moved from SW to NE. The wind was reported to have blown all night and shortly before 5 a.m. it was from the south and about 5 a.m. it got calm. Man in dairy barn said he could see white lower clouds of storm when lightning flashed; no funnel was seen. Then people heard the

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
Mississippi (continued)									
									At 15 NW Philadelphia, Arlington community, Highway 19, house roof off. At 7 WSW Philadelphia, Hope community, shed destroyed and roof top damage. At 2 NW Philadelphia, storm began 5:45 a.m., ended 7:00 a.m., reported to have moved from 170° toward 350°; during "rainy" weather hangar destroyed by wind; heavy damage to 2 airplanes inside, a third plane hit by flying debris; damages estimated \$4,000. At 12 NE Philadelphia, on Bond Road, several house trailers turned over. At 7 ENE Philadelphia, Sanitown community, house trailer blown over, severe damage to barn and some damage to house. Due E of Philadelphia, near Kemper County line, house trailer turned over. At 12 SE Philadelphia on Highway 19, Bethesda community, tin removed off tent house roof. Newspaper noted, "A house trailer was turned over at East Neshoba. . . ." At Philadelphia the storm was reported to begin 6:10 a.m., end 7:05 a.m.
Simpson County	13	a.m.			0	0	?	0	Wind
									At 6:15 a.m. there were public reports and radar indicated a line of thunderstorms 10 W Meridian moving towards E at 20 m.p.h. At 6:25 a.m. high winds damaged carport roof at Lake Okatibee, 8 NW Meridian (Lat. 32.4°N, long. 88.9°W). Meridian newspaper noted, "High winds produced some minor damage in Meridian and the area early today. The brunt of the storm hit 10 miles west of the city. Residents of trailer parks said the wind rocked their homes. . . ."
Leake County	13	5:30 a.-6:20 a.			0	2	4	3	Wind, Heavy Rain, Funnel Cloud Aloft
									The Carthage newspaper reported, "Tornado winds and heavy rains raked across Leake County early Tuesday (13th) leaving a trail of property damage from the southeast boundaries at Salem to Barnes near the north county line. . . . Electric power lines were downed over a widespread area of the county. . . . Hardest hit areas were at Salem, Freery, Williston and in the Singleton-Barnes vicinity. . . also damaged property and rural electric lines in the Wiggins-Lena, Thomastown and scattered isolated areas. . . ." See separate entries for tornadoes. Storm hit Carthage area about 5:50 a.m. East of Carthage "at Williston a half completed broiler house. . . was flattened. On the adjoining. . . farm the wind had ripped off half of the barn roof. . . ." On other farms "damage was also reported on outbuildings. . . and on a broiler house. . . . Electrical service to Sebastopol, Freery, Edinburg, Wiggins, Lena and Thomastown was severed "mostly by flying tree limbs". . . . ten miles north of Carthage a 600-foot breeder house containing 8,000 laying hens was badly damaged and the roof of a big barn loaded with hay was swept away. . . . Also 3 homes and 3 barns received wind damage. "In the Crossroads community south of Barnes. . . " grandfather "witnessed the winds tumble the trailer on one side." Mother and 13-year old daughter "were carried to . . . hospital. . . where they were treated for bruises and released." Near Carthage in Weston community several chicken houses were destroyed. A funnel cloud aloft was reported to have formed in SE Leake County ahead of a line of thunderstorms near Ludlow.
Leake County	13	5:40 a.-1/3 5:44 a.	1/3	1/4	0	0	?	0	Tornado, Rain
									Storm moved from SW towards NE. Funnel not seen. Woman reported, "I heard the terrible roar, it was 3 or 4 minutes before it hit;" she noted, "We were the first place it struck. . . ." in the Freery community, 4 SSE Carthage (Lat. 32.7°N, long. 89.5°W). Just behind her house, a new unoccupied 60-foot mobile home was blown over and much of the interior shattered; a short distance away a mobile home was lifted off its foundation and moved about 3 feet; another mobile home was twisted about on its foundation. Numerous large trees were splintered or uprooted. Mangled tin and shingles from roofs were in evidence all along the storm's path.
Leake County	13	5:45 a.	1	20	0	0	2	2	Wind, Funnel Cloud Aloft
									Storm reported to move from SW towards NE. Near Walnut Grove (lat. 32.6°N, long. 89.5°W) man reported funnel "remain aloft" and "neighbor . . . heard tornado pass over as he was standing in door of his home." There were "Hard gusts of winds preceding. . . ." The weather was "cloudy and rainy very hard." There was wind damage along a path one mile long and 20 yards wide. Man wrote, "Barn tin was blown off - damage to the barn was all the wind done." Estimated damages: \$300 property; \$100 crops.
Leake County	13	About 6:00 a.	short narrow		0	1	?	0	Tornado
									At Salem, 1 1/2 NW Sebastopol, (Lat. 32.6°N, long. 89.3°W) woman received minor injury when left arm was caught and held in den door of brick home as she watched the wind lift the frame top off; the drenching rain that followed, destroyed the home's interior. Board siding and tin from the roof of a cattle barn behind her home was ripped away and debris from the house and barn was scattered over a hillside. Across the road a 120-foot broiler house containing 21,000 chickens was crumpled on one side and the wind pulled support poles a foot out of the ground.
Montgomery County	13	About 6:00 a.	?	?	0	0	?	0	Tornado
									Winona Radio Station WONA said person phoned them that a tornado touched down about 6 a.m. in the Poplar Springs community near Winona (lat. 33.5°N, long. 89.8°W). No injuries reported, one barn destroyed, several roof tops damaged.
Neshoba County	13	5:45 a.-7:20 a.			0	0	4	0	Wind
									Some wind damage was general over county; much telephone and wire damage except in extreme western portion; power lines blown down some areas, several barns destroyed and some trees uprooted. Insurance claims included damage to TV antennas, window glass and roofing. Neshoba County sheriff said extensive property damage reported some sites where tornado apparently dipped down; see separate listing.
Lauderdale County	13	6:15 a.			0	0	?	0	Thunderstorms, Wind
									At 6:15 a.m. there were public reports and radar indicated a line of thunderstorms 10 W Meridian moving towards E at 20 m.p.h. At 6:25 a.m. high winds damaged carport roof at Lake Okatibee, 8 NW Meridian (Lat. 32.4°N, long. 88.9°W). Meridian newspaper noted, "High winds produced some minor damage in Meridian and the area early today. The brunt of the storm hit 10 miles west of the city. Residents of trailer parks said the wind rocked their homes. . . ."
Simpson County	13	6:25 a.	short narrow		0	0	0	0	Tornado
									Persons from Martinville community, 6 E Mendenhall, reported to Mississippi Highway Patrol a tornado touched down at 6:25 a.m. on Mississippi Highway 541 (Lat. 32.0°N, long. 89.0°W). No injuries or damage reported.
Neshoba County	13	About 6:45 a.	?	?	0	0	?	0	Tornado
									Man reported a tornado about 6:45 a.m. on Irving Wilson property, about 4 E Philadelphia (lat. 32.8°N, long. 89.0°W). House trailer turned over, trees uprooted, no injuries reported. County sheriff said extensive property damage was reported and a tornado apparently dipped down.
Neshoba County	13	About 6:45 a.	1/2	?	0	0	2	0	Wind, Funnel Cloud Aloft
									Man in Colewater community, 6 S Philadelphia, (lat. 32.7°N, long. 89.1°W) estimated \$500. damage to his barn. During "rainy" weather he sighted one funnel cloud that remained aloft and noted a "sound like a jet;" he indicated the length of the path of destructive winds was 1/2 mile, and reported a storm movement from SW towards NE.
Harrison County	13	About 7:15 a.			0	0	?	0	Wind, Rain
									Harrison County Civil Defense Director said traffic had been at a virtual standstill when torrential downpours swept through the county at daybreak; several reports had been received of roads being submerged; trees damaged on DeBrys road and tree damage on Highway 67. Radio Station WROA Gulfport reported winds uprooted some trees about 7:15 a.m. at Lyman (lat. 30.5°N, long. 89.1°W).
Neshoba County	13	7:20 a.	short narrow		0	1	?	0	Tornado
									Mississippi Highway Patrol reported that at 7:20 a.m. a tornado touched down and one person was injured about 5 W Philadelphia (lat. 32.8°N, long. 89.2°W). Storm reported moving northward. This is a rural area on Highway 16 and slightly injured woman was treated at hospital and released. County sheriff said extensive property damage was reported and a tornado apparently dipped down.
Prentiss County	13	8:00 a.			0	0	?	0	Wind
									Baldwyn newspaper headlined "High winds and heavy rains hit Baldwyn area." It noted "Tuesday morning. . . . Winds shifted to a southeasterly direction about 9 o'clock (CST) and the velocity of the winds increased quite a bit. A tree was blown down in the Thomastown area. . . . The winds appeared to be at high level mostly. However, many limbs were broken from trees. . . . Outside of the damage to the trees no other harm has been reported."
Prentiss County	13	9:00 a.	**50	50	0	0	0	0	Tornado
									Storm moved from SE to NW. Man described a sound like a train going by, or a big plane flying on the ground. One funnel seen and reported to have touched down path length of 50 yards and width of 50 yards. This touched down was about 9:00 a.m. in Stutt's Chapel community, about 4 NW Booneville (lat. 34.7°N, long. 88.7°W). Top ripped off barn, several trees down, some damage to corn.
Northern Third of State	12-13				0	0	0	?	Heavy Rain, Flash Flooding
									Heavy rains caused crop damage. TALLAHATCHIE COUNTY: Newspaper noted, "Flash floods in Tallahatchie County covering several acres of unharvested crops, said Billy Walton, county agent at Charleston." CALHOUN COUNTY: County Extension Agent reported, "Many creek bottoms overflowed. Some damage to crops." LEE COUNTY: Newspaper noted, "Considerable damage was reported to cotton and soybeans in Lee County by heavy rains, said Richard C. Twitty, county agent at Tupelo. He estimates the loss at 10 per cent."
Lauderdale County	19				0	0	?	0	Heavy Rain
									Heavy rain flooded some parts of Meridian. Civil Defense Director said some residents of the south side had been flooded to flee their homes in low lying sections. All small streams in and around Meridian were overflowing; in afternoon, some areas in city closed to traffic; high water crested about 4 p.m. and then slowly began to recede.

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Mississippi (continued)											
Mid-Delta	21-22				0	0	?	0			Fog
	<p>Greenville newspaper headlined, "Transportation crippled." It noted, "Two days of heavy fog over the Mid-Delta have caused havoc with commercial airline schedules. . . . Jim Hudson, manager of the Southern Airways' Greenville office, . . . said it was nearly 11 a.m. (GMT) before the fog broke enough to allow instrument rated pilots to fly into or out of Greenville (on 21st). . . . A spokesman for the Federal Aviation Administration in Greenwood said the fog Wednesday (21st) kept a number of private pilots on the ground for quite some time. . . . River traffic was also affected by the adverse weather conditions. A spokesman for Marvin Couey Harbor Service in Greenville said the fog had stalled commercial river traffic for the last 40 hours. . . . A Waterways Marine spokesman said boats were tied up for over eight hours at a time below the Greenville - Lake Village bridge. . . ."</p>										
Missouri	8	4:55 P.M.	6	100-150					0	0	Tornado
Queen City, Schuyler County	<p>A small tornado moving from south-southeast towards the north-northwest first touched down on the southeast edge of Queen City. The tornado caused minor structural damage to buildings along a 6-mile path ending just south of U.S. 136 2 miles west of U.S. 63. The thunderstorm producing this tornado was reported as a severe storm near Coatsville, Missouri a short while later and may also have produced the subsequent funnel cloud and tornado reports in the Moulton and Unionville, Iowa areas.</p>										
Edwards, 1E, Benton County	8	10:15 P.M.			1						Flash Flood
	<p>One of two occupants was drowned when a car was swept off of Missouri Highway 7, 1 mile east of Edwards, by flash flooding in the Big Deer Creek. The survivor clung to a tree branch for 4-3/4 hours waiting for the waters to recede.</p>										
Neosho, Newton County	26	2:45 P.M.						3			Tornado
	<p>A small tornado touched down briefly on a farm just south of U.S. 60 and 3/4 mile east of U.S. 71, destroying a hay barn. A neighbor observed the approaching tornado appearing "very dark and peaked down like an ice cream cone".</p>										
Montana											None reported
Nebraska	6-9				0	0	6	5			Early winter storm
Entire State	<p>The most unusual feature of this storm was the early date and the large amount of snow that fell in eastern Nebraska. It was the earliest snowfall of record for most places east of the Superior-Norfolk line and the heaviest of record for so early in the season east of the Norfolk-Burlington line. Snowfall of 3 to 6 inches was common in eastern Nebraska but many sites received more, with unofficial estimates of amounts ranging up to a foot. Trees that were still in full leaf were unable to withstand the winds and the weight of the heavy wet snow. The falling limbs and entire trees brought down innumerable power and telephone lines throughout the area. The damage seemed to be greatest in the Lancaster-Saunders-Dodge County area. In Lincoln alone, the estimates included 4000 power line breaks and over 2000 telephones out of service. It was several days before power was restored to all businesses and homes.</p> <p>Snow began falling in the Panhandle on the night of the 6th bringing local tree and line damage. Then a large area extending from southwest and south central Nebraska to the north central section and portions of the northeast received freeing rain on the 7th and 8th that turned to snow at some sites bringing tree and line damage to some sites. Thunderstorms developed from Hastings to Madison to West Point to Fremont with an exceptionally large number of lightning strikes and fires for so late in the season. This was followed by the heavy snow in the eastern part of the State on the 8th and 9th.</p> <p>A statewide outbreak of severe automobile accidents occurred as an indirect result of the storm. The snow melted quickly on the main highways, but a cover of ice and snow remained on bridges and overpasses exposed to the cold air.</p> <p>Loss was incurred to the portion of the crops which was still unharvested.</p>										
Thayer County	23	2:05p			0	0	0	0			Funnel cloud
	<p>Sighted 4 miles northwest of Dehler.</p>										
Nevada											None reported
New Hampshire											
Stratham	3	6:15 p.m.	0.1	narrow	0	0	4	0			Tornado
	<p>Much of roof lifted from large, modern dairy barn.</p>										
South and central	3	4-7 p.m.			0	0	4	0			Wind, lightning
	<p>Locally damaging thundersquall winds felled trees, limbs and utility lines and caused mostly minor damage to other property. Scattered lightning damage.</p>										
New Jersey											None reported
New Mexico											
Socorro County	4	2:00 p.			0	0	?	?			Hail
	<p>Hail to 1 inch in diameter at Reinhardt Ranch, 25 miles southwest of Socorro, damaged roof and fruit.</p>										
Southern Dona Ana County	4	5:30 p.			0	0	0	?			Hail
	<p>Hail damaged cotton and lettuce in La Mesa and San Miguel area. Hail to 1-1/4 inches in diameter reported 5 miles southeast of Afton.</p>										
New York											
Western third	3	early a.m.						4			Lightning, hail
	<p>Fire caused by lightning destroyed a summer cottage near Franklinville, Cattaraugus County. Eleven persons weekending in cottage escaped from the rapidly burning structure. A home was destroyed by lightning-caused fire at Barre, Orleans County. Hail was widely reported in Erie County with stones 1/4 to 3/4 inch size; damage minor.</p>										
Garrison, Putnam County (10 mi. west of)	3	4 p.m.									Funnel Cloud
	<p>During afternoon thunderstorm activity a person at Garrison, located on Hudson River, observed funnel cloud about 10 miles west of the river. This would place funnel cloud in east central Orange County. Funnel apparently did not touch ground. Observer at Garrison reported brief burst of 1-inch hail shortly after seeing funnel cloud.</p>										
Dutchess County	3	3 to 5 p.m.			1	0	4				Wind
	<p>High winds associated with afternoon thunderstorms caused considerable damage to power lines, trees and limbs in Poughkeepsie, Wappingers Falls, Rhinebeck and other communities of Dutchess County. Near Pawling large tree fell on man, resulting in fatal injuries.</p>										
Montauk, Suffolk County	4	8:35 a.m.									Waterspout
	<p>Large waterspout observed 10 miles north of Montauk.</p>										
Onondaga and Cayuga Counties	16-17	night									Snow
	<p>Snowfall of 4 to 7 inches localized in southern Onondaga and eastern Cayuga Counties marked heaviest storm for mid October in many years. Skaneateles 4 inches, Pompey 5 inches and Marietta 7 inches with unofficial reports of 10 inches at Marcellus. Lesser amounts of 2 to 4 inches spread southward to Cortland, Tompkins and southern Seneca Counties. Slippery highways caused a rash of auto accidents, some of which resulted in fatalities.</p>										
Catskill Region	21-23	late p.m. to early a.m.						5			Rain, flood
	<p>Heavy rains of from 3.0 to over 5.0 inches fell during 36-hour period in the Catskill region, covering Greene, Ulster and Sullivan Counties. Flash flooding occurred on Beaver Kill and Willowmac Creeks in Sullivan County. Village of Livingston Manor and Township of Rockland sustained damage estimated at \$300,000: newly renovated sewage plant washed out, roads and streets blocked or washed out and schools closed. Precipitation totals of 5.3 inches at Tannersville, Greene County, 5.1 inches at Slide Mountain, Ulster County and 4.4 inches at Claryville, Ulster County.</p>										
North Carolina											
Southern Mountains	10-11	--			0	1	5	4			Rain
	<p>Flash floods, mainly in Transylvania County, washed out roads and bridges, flooded lowland farms, caused landslides. Woman injured when swept through culvert by rushing waters. Several mobile and permanent homes damaged; residents evacuated. Some highways closed indefinitely due to heavy washouts. Rain four to fourteen inches over considerable area.</p>										
Central	15	--						4	3		Rain, electrical
	<p>Heavy rain caused flash flooding of streets and basements, mainly in Greensboro and nearby areas. Scattered lightning damage Hickory to Durham; one barn destroyed by fire; two homes and a transformer damaged.</p>										
Off South Coast	25	12:30 pm						0	0		Waterspout
	<p>Reported by lightship personnel, Frying Pan Light; accompanied by thunderstorm and wind gusts to 40 knots.</p>										

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1970

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	
North Carolina (continued) Statewide	90-31	--					5	4	Rain, wind, tides
									Slow moving front and low pressure storm caused statewide rain, especially heavy in Mountains where two-day amounts exceeded five inches many areas. Much flash-flooding, some slides and washouts. Same storm caused winds and high tides, beach erosion when moving offshore.
North Dakota			None	reported					
Ohio			None	reported					
Oklahoma 4 1/2 NE Lexington, Cleveland County, to 8 SE Tecumseh, Pottawatomie County	5	3:25 p.- 3:55 p.	25	200	0	1	4	0	Tornado
									Tornado touched down 4 1/2 miles northeast of Lexington destroying a mobile home and blowing a frame house, under construction, off its foundation. A young boy was injured in the mobile home. What was believed to be the same tornado was sighted on the ground by the State Police 8 miles southeast of Tecumseh at 3:55 p.m. but no damage was reported in that area.
Shawnee, Prague, and Paden area, Pottawatomie, Lincoln, and Okfuskee Counties	5	3:42 p.	25	100- 200	4	84	7	0	Tornado, hail, rain
									A tornado formed over Shawnee, in Pottawatomie County, dipped down near the center of town and moved toward the northeast. The tornado continued northeast, crossing Interstate 40 about 6 1/2 miles north-east of Shawnee. It then lifted, but came down again 3 1/2 miles southwest of Prague in Lincoln County. The tornado continued through the southwestern section of Prague and lifted 2 miles north of Paden in Okfuskee County. Four persons were killed and another 80 injured at Shawnee. At Prague, four persons were injured. At Shawnee, the storm damaged 157 business establishments, 564 residential homes, 12 public buildings, 10 churches, and 5 schools. At Prague, 14 homes and 1 business establishment were damaged. After the tornado passed through Shawnee, hailstones of various shapes and sizes were reported to have fallen, but caused no damage. Some of the hailstones were reported as being of baseball size and soft like snow. Others were rectangular in shape. At Prague, observers reported it became almost as dark as night as the storm approached, and there was a loud roaring sound as it struck the town. Heavy rain accompanied the tornado. Lightning was not unusually severe.
5 NW Lindsay, Grady County	5	About 9:45 p.			0	0	0	0	Hail
									Hailstones 1 3/4 inches in diameter fell, but caused no damage.
W of Nowata, Nowata County	6	Afternoon			0	0	4	0	Lightning
									Lightning struck and destroyed two storage tanks and a water injection system on an oil lease.
6 N Idabel, McCurtain County	6	4:30 p.	1/4	100	0	0	0	0	Tornado, hail, wind
									A tornado touched down briefly in open country. Hail, 1 inch to 1 1/2 inches in diameter, fell. Winds were estimated at 40 to 50 MPH.
Oklahoma and Cleveland Counties	7	5:50 p.- 7:15 p.			0	0	0	0	Hail, 1 funnel aloft
									One funnel cloud aloft was sighted in southern Oklahoma City and 3/4 inch hailstones were reported at Tinker AFB. Hailstones, up to 1 3/4 inches in diameter, also fell in scattered sections of Norman. No damage was reported.
Cushing, Yale, Oilton, and Mannford areas, Payne and Creek Counties	7	7:30 p.- 9:15 p.			0	0	3	0	Wind, 6 funnels aloft
									Six funnel clouds aloft were sighted in the area, but there was no evidence that any touched the ground. West of Cushing, in Payne County, winds estimated at 60 to 75 MPH caused some damage at a farmstead. The man living at the farmstead said he heard no strange or unusual noises during the storm, and the buildings were not of the most sturdy nature.
Just S of Pauls Valley, Garvin County	7	About 9:00 p.							Funnel aloft
Roff and Ada area, Pontotoc County	7	10:00 p.			0	0	4	0	2 Tornadoes, 5 funnels aloft, lightning, rain
									Severe thunderstorms struck the area around 10:00 p.m. and continued until after midnight. Seven funnel clouds were sighted during the storm. At 11:30 p.m. one of the funnels touched the ground at Roff causing approximately \$35,000 property damage. The path of the storm was 2 miles long and 200 yards wide. A second funnel struck the ground about 5 miles south of Ada, causing \$7,000 damage to mobile homes. The path of the second tornado was 1/2 mile long and 100 yards wide. Exact time of the storm was not known. One farmhouse and barn was struck by lightning and burned. Rainfall was 10 to 14 inches in the storm.
Nowata and Holdenville area, Seminole and Hughes Counties	7	11:20 p.- 11:50 p.							3 Funnels aloft
Oklahoma (continued) Central and South- Central Sections of State	7- 8				0	0	6	6	Heavy rain, flash flooding
									Heavy rains of 5 to nearly 12 inches struck 11 counties of central and south-central Oklahoma resulting in flash flooding which caused extensive damage to crops, farmland, livestock, farm machinery, roads, bridges, and to Platt National Park. The park received 11.61 inches of rain and damage of \$125,000. Total damage in the 11-county area was estimated at \$3.0 million.
Durant, Bryan County	8	About 8:30 a.	1	100	0	1	4	0	Tornado
									A tornado struck the west edge of Durant damaging several buildings and three mobile homes. A man was injured slightly in one of the mobile homes.
1 N Panama, LeFlore County	8	12:15 p.	1/2	30	0	0	3	0	Tornado, rain
									Tornado destroyed several trees and a cement block building, blew windows out of a house, and damaged the roof of a house. Very hard rain accompanied the tornado.
Southeastern Sequoyah County	8	Before 12:45 p.							Funnel aloft
Duncan area, Stephens County	22	6:45 p.			0	0	4	0	Hail
									Hailstones, 1 inch in diameter, caused an estimated \$25,000 damage to property in area.
Coalgate, Coal County	23	2:15 a.	1/4	200	0	0	4	0	Wind
									Strong, straight winds, estimated at 60 MPH, caused \$10,000 property damage.
4 N McAlester, Pittsburg County	26	5:15 p.	Short	Narrow	0	0	4	0	Tornado
									A tornado touched down briefly, extensively damaging two mobile homes, parked on the side of the road, on the Indian Nation Turnpike.
Ardmore, Carter County	26	About 7:00 p.			0	1	4	0	Wind, lightning, rain
									Winds, estimated at 60 MPH, overturned a mobile home. One man was injured in the mobile home. Lightning struck another home and the subsequent fire destroyed the home. Heavy rain occurred with the storm.
Oregon Coast of Oregon	21	8:00 am- Noon	150	Few miles	0	0	4	0	Wind
									A major Pacific storm front moving onshore along the coast of Oregon produced damaging southerly winds along the southern half of the coast. A 10- by 60-foot trailer house was blown over near Gold Beach and a travel trailer damaged just south of Port Orford. Other damage included a damaged roof at Gold Beach and power outages up to 25 minutes in several communities. Cape Blanco reported gusts up to 78 mph, while at Newport, the fastest mile hit 52 mph from the south-southwest at 9:57 am. Winds along the northern coast increased during the day and Mt. Hebo reported winds of 50 to 65 mph and gusts up to 73 mph between 5:30 and 6:15 pm.
Northern Coast	22- 23	8:00 pm, 22nd-1:00 am, 23rd.	120	Few miles	1	0	4	0	Wind
									A second major Pacific storm in as many days lashed the Oregon coast with strong winds causing scattered damage north of Coos Bay. Peak winds late on the 22nd furnished southerly gusts up to 52 mph at Astoria and fastest 1-minute speed at Newport of 63 mph from the southwest at 11:17 pm. Newport's greatest one-hour average of 50 mph ended at 11:45 pm with an estimated strongest gust of 83 mph. Strongest winds were reported at Mt. Hebo where readings averaged 58-65 mph from 5:45-6:00 pm, 6:45-7:00 pm and 8:10-8:25 pm. Fastest one-minute speed reached 92 mph at 7:00 and 7:20 pm. A navigation buoy anchor weighing nine tons was lost near Newport and another moved out of position. Numerous power outages were experienced along the coast between Waldport and Nehalem. Also damaged were signs and windows. Very rough seas off Depoe Bay caused the tugboat Geronimo to loose its tow line to an unmanned Navy destroyer being towed to Portland for salvage. High wind and swells 20 feet high delayed recovery of the line for more than a day. At Depoe Bay a 16-year-old girl was swept from the rocks and drowned.
Pacific									None reported
Pennsylvania Lawrence and Beaver counties	10-11	Evening Afternoon 11th	10th				4		Lightning, wind
									Northern Beaver County experienced minor damage during thunderstorms accompanied by high winds on the evening of the 10th. At 3:49 PM on the 11th an estimated \$1,500 damage was done to a Riverview home near Ellwood City when lightning struck and went through an electric wall plug.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1970

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					KILLED	INJURED	PROPERTY	CROPS	
<p>Puerto Rico Eastern Two Thirds</p> <p>The most widespread natural disaster in Puerto Rico during recent years struck the island in the form of prolonged rains and heavy flooding over a six day period from October 4th thru 9th inclusive. In certain respects these rains and resulting floods exceeded those associated with the great hurricane disasters of the past such as San Felipe of September 13, 1928 and San Criaco of August 8, 1899.</p> <p>The cause of the rains was a slow moving and at times stationary tropical depression which stagnated some 300 miles south of Puerto Rico until it slowly drifted northward across the Dominican Republic on October 8th. The cloud cover and rain area associated with this system extended outward 400-500 miles from the center and not until late on October 9th did this rain area finally move north of the island. Rainfall peaks came at different times in different places of the island and the resulting flood peaks followed the same pattern. The six day period is considered as one flood episode since it resulted from the same stationary or slow moving atmospheric system. The heavier rains never reached the western portion and in general the major flooding and flood damage occurred in the eastern two thirds of the island roughly along a north-south line from Manati to Ponce. This zone, including some 51 municipalities, was subsequently declared a disaster area by the President.</p> <p>The rains generally began on the afternoon of Sunday October 4th and were concentrated more in the eastern and south eastern sections with the highest amounts reported at Coamo with 5.15 inches, Fajardo 4.30 inches and Yabucoa 4.05 inches. On the second day, October 5th, the rains increased over the entire eastern portion of the island with rainfall totals of 10.00 inches at Aguirre, 9.40 inches at Guayama and generally 6-8 inches in the eastern interior sections. From 3 to 5 inches was reported in various areas of the San Juan Metropolitan area. Heavy rains continued on the third day, again over the San Juan area and the eastern half of the island. Canovanas on the northeast coast reported 10.37 inches, the Pico del Este - Roosevelt Roads area reported over 7.00 inches and Jajome Alto, the Governors summer residence in the eastern interior, reported 9.10 inches. On the fourth day, October 7th, there was some decrease in rainfall intensity. About 1.00 inch fell in the San Juan area and about one to three inches on the south coast but heavier amounts up to 7.38 inches fell in the Jayuya area of the central interior. The heaviest rains fell on the fifth day with the highest 24-hour totals of the period: 17.00 inches at Aibonito, 14.05 inches at Cerró Maravilla and 11.72 inches at Guayama Camp. In general the eastern interior division received from 9 to 11 inches. However, the San Juan Metropolitan area received only about 2 inches. On the 6th day, Friday to Saturday October 9-10, there was a general decrease of rainfall activity except for a small area around Jayuya - Cerró Maravilla - Villidiba where there was reported 13.40 inches at Jayuya, 10.14 inches at Aceituna and 7.15 inches at Cerró Maravilla.</p> <p>The highest total rainfall amounts for the six day period were: a maximum of 38.42 inches at Jayuya followed by 37.34 at Toro Negro Plant #2, 36.81 at Aceituna, 35.75 at Jajome Alto, 34.48 at Aibonito, 32.77 at Cayey, 31.66 at Cerró Maravilla in the south side of the Central Cordilleras and 31.26 at San Lorenzo Farm. The average rainfall of all stations in the Eastern Interior Division was about thirty inches for the six day period.</p> <p>The U. S. Geological Survey reported the following flood information: "All gaging stations recorded multiple flood peaks. The maximum peak occurred October 9 or 10. Greater peak discharges have been recorded at long-term gaging stations but the volume of runoff was particularly significant. The 3-day mean discharge of the La Plata River was 3 times that of the previous maximum 3-day discharge in 1961.</p> <p>The October 9 and 10 peaks on the south coast were especially damaging. A partially completed earthfill dam on Rio Toa Alta was overtopped, causing an estimated 6-month delay in completion. The October 9 peak on Rio Jacaguas, the second highest since 1908, destroyed 2 bridges downstream from the Guayabal dam. The main highway between Ponce and Guayama was closed for a week by the flooding which covered a 40-mile long strip of the south coastal plain.</p> <p>In the Bayamon area, a partially completed flood control channel on Rio de Bayamon carried most of the flood flow after the dike separating it from the river was breached on October 6th. This diversion is estimated to have reduced the flood crest at Bayamon by more than a foot. Highway 147 between Bayamos and Catano was washed out and the coastal highway bridge damaged.</p> <p>Rio Grande de Manati flooded Highway 2 at Manati and part of the town of Barceloneta near the mouth. The peak discharge of 69,000 cfs on Rio Grande de Manati at Giales has a recurrence interval of about 25 years.</p> <p>All of the town of Toa Baja between Highway 2 and the ocean was flooded by Rio de La Plata. This community, which is highly susceptible to flooding, was last inundated in 1961. The peak discharge of 80,000 cfs on Rio de La Plata at Toa Alta has a 25-year recurrence interval."</p> <p>A total of 18 people are dead or missing because of landslides or drownings. Four persons were drowned at one time in the Turabo River at Caguas while crossing a temporary bridge which was washed away. The other victims were individual deaths in various</p>	<p>4-9</p> <p>18</p> <p>1</p> <p>7</p> <p>7</p> <p>Heavy Rains, Floods</p>	<p>Puerto Rico (continued)</p> <p>localities. A total of 600 homes were destroyed with several hundred damaged. At one time there were 10,000 people evacuated from their homes and living in Civil Defense shelters.</p> <p>There were fifty-two roads and highways closed to traffic either from washouts, landslides or high water. Nine bridges are listed as destroyed and six damaged. The Public Works Authority estimate of total damage was about \$12,000,000.</p> <p>Large sections of the Canovanas - Carolina area went under water when the flood gates of Lake Loiza Dam were opened. Landslides accounted for much of the damage to roads and homes alike. The worst landslide was reported on Route 171 in El Yunque mountain where 20,000 cubic feet of dirt and debris spilled onto the road. A large landslide in Trujillo Alto's Round Hill Urbanization destroyed two concrete homes. A major landslide in Comerio cut the town in two by completely blocking the main street. The Bayamon - Catano area was one of the hardest hit by flood waters. Much of Puerto Nuevo area of San Juan which had serious flooding in June 1970 was again under water on Tuesday, October 6th, as were parts of Bayamon and most of Catano. Some 300 families were evacuated from Bayamon alone. In Catano the water was six feet deep in the Juana Matos sector. Juncos was completely flooded.</p> <p>Damage to Agriculture was severe. A total of \$7,915,184 was estimated by the Commonwealth Department of Agriculture. The floods came at a time when the island coffee crop was one of the most abundant in record and the labor shortage had caused many berries to remain ripened on the trees. The loss in coffee alone was \$1.9 million dollars, the greatest loss to a single crop. Sugar cane plantations along the coastal areas suffered the loss of much young cane in heavy washouts and silting. Total sugar cane loss was estimated at just over one million dollars. Tobacco plantations lost most of their young seed beds due to heavy erosion on the interior slopes. Minor crops accounted for a loss of \$930,000 with tomatoes accounting for a third of this due to heavy flooding in the south coastal districts. Much of the banana crop was lost due to either blow downs or felling of trees from erosion. Some 800 cattle and over 40,000 poultry were drowned or killed. These floods were the severest blow to agriculture since the great hurricane of San Felipe in September 1928.</p> <p>Torrential rains in the Escudo area caused Caonillas Lake to overflow flooding parts of Arecibo, Giales, Vega Baja, Norovis and completely inundating Barceloneta.</p> <p>On October 12, 1970 Puerto Rico was declared a major flood disaster area by the President and authorized to receive massive federal assistance in rehabilitating the island.</p>	<p>4</p> <p>9:45-10a</p> <p>10</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>Waterspout</p> <p>Waterspout, a few miles offshore, moved from south of Pt. Judith to south of Breton Island before dissipating.</p> <p>None reported</p> <p>7,9</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>Early season heavy snow</p> <p>Snowfall of 5 to 9 inches was common in the southwest and south central on the 7th. Up to 8 inches fell in the southeast on the 9th. Vermillion received 5 inches of snow on the 9th which was the greatest amount ever reported so early in season during 70 years of record. The heavy snowfall was very wet in most areas and melted within a day or two.</p> <p>9</p> <p>6:05 a.m.</p> <p>0</p> <p>0</p> <p>4</p> <p>0</p> <p>Wind</p> <p>High winds caused scattered damage along the western slope of the Cumberland Plateau from McMinnville northward to Cookeville. The Century Electric Plant near McMinnville was damaged, new construction collapsed and utility lines downed. Broken windows, trees and roof damage were reported in Cookeville. Wind gusts of 32 mph. measured at Crossville Airport between 7-10:00 a.m., with lesser velocities reported later during the day.</p> <p>10</p> <p>a.m.</p> <p>0</p> <p>0</p> <p>4</p> <p>0</p> <p>Lightning</p> <p>Lightning struck a chimney at the Eggleton Elementary School. The electrical charge followed the structure into the building where it damaged a classroom and the school's public address system.</p> <p>4</p> <p>12:35 p</p> <p>10</p> <p>*6</p> <p>0</p> <p>0</p> <p>?</p> <p>?</p> <p>Funnel aloft</p> <p>Hailstorm</p> <p>Hailstones up to 3/8 inches in diameter damaged roofs of dwellings and buildings, broke automobile windows and windshields, and damaged cotton and sorghums in an area of Hudspeth County about 28 miles west of Sierra Blanca along the Rio Grande 12 miles east of the El Paso County line.</p>						

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS		
Texas (continued)										
El Paso, El Paso County	4	2:50 p	6	?	0	0	?	?	Hailstorm	Hail up to 7/8 inch in diameter fell in the northeast part of El Paso. Hailstones averaged 1/2 inch in diameter. There was no known damage.
3 N Rio Hondo, Cameron County	5	3:40 p							Funnel aloft	
Jefferson County	6	10:45 a	Short	Narrow	0	0	0	0	Tornado, 2 funnels aloft	A tornado dipped to earth briefly about 12 miles west of the Jefferson County Airport, just east of Fannett. The funnel dissipated rapidly, and caused no known damage. A funnel aloft was observed near La Belle at 1:23 p.m., and another about 10 miles west of Sabine at 1:25 p.m.
26 SW Galveston, Galveston County	6	2:00 p							Funnel aloft	
Mount Pleasant and vicinity, Titus County	6	4:10 p-4:30 p	?	?	0	0	?	?	Hail and windstorm	Hailstones up to 2 3/4 inches in diameter fell on U.S. Highway 67 east of Mount Pleasant. An automobile was reported severely damaged. High winds blew down large trees in the Mount Sylvia community, also east of Mount Pleasant. In Mount Pleasant, City Police estimated winds at 10 to 17 miles per hour, and hailstones about 3/4 inch in diameter.
15 WNW Galveston, Galveston County	7	2:27 p							Funnel aloft	
Panhandle	8				0	0	?	?	Snowfall	The heaviest snowfall on record for so early in the season blanketed the northern Texas Panhandle with five to ten inches of snow. The snow extended from Liberal, Kansas across the Oklahoma and Texas Panhandles and southward to around the Happy-Tulia area. A total of ten inches fell at Spearman, seven inches fell at Gruver, and six inches fell at Stratford. Hundreds of cattle died from suffocation as a result of breathing in the wet snow. Some ranches lost as many as 100 head. Losses in Hansford County alone were estimated at 100 to 500 head. Yields of milk were reduced as much as one-third in some areas because of low temperatures while cotton on the Southern High Plains was damaged also.
Near Richards, Grimes County	8	Morning			0	0	?	0	Lightning	A bolt of lightning killed a mother cow and two good size beef calves on the Judge H. W. Haynie's place near Richards.
Sherman-Denison area, Grayson County	8	Morning	?	?	0	5	?	?	Windstorm	High thunderstorm winds swept through the Sherman-Denison area and overturned a 12 x 60-foot mobile home in a trailer park between the two cities on top of a car containing five persons. The five persons, including a two-month-old baby suffered only minor injuries.
10 S Houston, Harris County	8	3:30 p							Funnel aloft	Funnel aloft moved in a north-northeasterly direction.
Near Nacogdoches, Nacogdoches County	9	1:30 p	?	?	0	0	?	?	Windstorm, lightning	Violent thunderstorm winds caused severe damage to homes and buildings in the Fairview Community about five miles from the center of Nacogdoches, off the San Augustine Highway. Utility poles were snapped off, roof sections of homes were ripped off, and trees were splintered. Hardest hit were the Walter McCarty, Hollis Hasley, and A. B. Hasley homes. "It sounded like a convoy of cars", Mrs. Hasley said. "Then there was a ball of fire - I guess it was lightning - and everything stayed in a red glow. Then all of a sudden, the wind changed to the west and started ripping things apart." At the Walter McCarty home, an oak tree was split open and hurled against the house breaking five windows. At the Hasley Iron Works, sheet metal from the roof of the shop was scattered in a half-mile area.
8 NW Palacios, Matagorda County	11	3:30 a	8	Narrow	0	0	3	0	Tornado	A tornado damaged a single house on the Guadalupe Nevarez farm in the Deutschburg Community about eight miles northwest of Palacios. What was apparently the same tornado damaged a church, liquor store and several residences in the Blessing Community north of Palacios.
Sargent and vicinity, Matagorda County	11	5:00 a-8:00 a	?	?	0	1	?	?	Windstorm	Thunderstorm winds estimated at 80 miles-per-hour raked the Sargent area. A number of large pecan trees were blown down and a roof was blown off at Brown Cedar Cut, seven miles southwest of Sargent. One man was injured when a portable camper-trailer collapsed at Cedar Lake, seven miles northeast of Sargent, pinning him inside.
Texas City, Galveston County	11	10:30 a-10:35 a	1	100	0	1	5	0	Tornado	
Texas (continued)										
Navasota, Grimes County	11	Morning			0	0	?	0	Lightning	A tornado touched down on property owned by Texas City Refining Company where it ruptured a gasoline storage tank. The funnel ripped the cover span of the tank and left a gaping hole near the top. Damage was estimated at \$80,000. The tornado touched down again at the Union Carbide Corporation Plant where it toppled a huge crane. Railway box cars at the company's docks were destroyed when the crane fell on them. Buildings were damaged by the crane also. Crane operator Charles Wells was attempting to secure the crane when it was struck by lightning and then crumpled into a pile of twisted metal by the tornado. Damage at Union Carbide was estimated at \$250,000. Wells escaped with bruises on his leg and hip. He was in the crane cab when it was struck.
Lower Sabine-Meches area, Jefferson and Orange Counties	11	2:17 p-4:00 p	5	100	0	19	6	0	2 Tornadoes, torrential rains, wind, 3 funnels aloft	Lightning struck the Ernest Schroeder home on Highway 105 and the W. F. Jolly home on Neal Street in Navasota. Television sets in both homes were damaged. Two tornadoes, high winds, and torrential rains battered the lower Sabine-Meches area of Jefferson and Orange Counties inflicting damage of at least \$750,000. Nineteen persons suffered minor injuries in one of the tornadoes. Three funnels were observed that did not touch ground. A total of 13 mobile homes were damaged or destroyed.
Near Richards, Grimes County									Lightning	The first tornado touched earth near Keith Lake, south of Port Arthur about 2:47 p.m. where it damaged the Merhaden Plant and over-turned a mobile home. The tornado then shifted along a northerly path and touched down twice in downtown Port Arthur, where it blew out many windows and over-turned two mobile homes in the Lakeview section. The discontinuous path of this tornado was about five miles long. It touched down in Port Arthur about 3:00 p.m.
Near Richards, Grimes County									Lightning	The second tornado was responsible for all the injuries, and damaged or destroyed 40 mobile homes. It first touched down about 3:30 p.m. near the intersection of State Highway 73 and State Highway 67 north of Port Arthur, then lifted, and came back down again through Bridge City. The tornado had a discontinuous path of about five miles, but remained on the ground for a distance of about two miles through Bridge City. The damage path was about 100 yards wide. Heaviest damage was in a section about six city blocks long between Henry Drive and Texas Avenue. The tornado dipped down on the Osborn Trailer Park then traveled down Henry Drive to North John, dipping down at the Owl Mobile Park. There were 30 mobile homes totally destroyed, 7 partially damaged, and three suffered only minor damage. The nineteen persons were all in Bridge City. Thirty to forty homes suffered roof damage, and the Church of Christ and Masonic Temple suffered roof damage also.
Near Richards, Grimes County									Lightning	Torrential rains fell over the entire area. A total of 11.50 inches fell in Beaumont, 8.06 inches at the Jefferson County Airport, 5.82 inches in Port Arthur, and 4.18 inches in Orange.
Near Richards, Grimes County									Lightning	Total tornado damage was estimated at \$500,000, while total water and windstorm damage was estimated at \$250,000. Most of the tornado damage occurred at Bridge City.
15 S Houston, Harris County	11	3:55 p	Short	Narrow	0	0	0	0	Tornado	Tornado touched ground briefly near Anderson and Alameda Roads but caused no damage.
Pasadena, Harris County	11	4:45 p							Funnel aloft	Funnel aloft moved toward the northeast.
15 SE Brownwood, Mills County	11	5:15 p	?	?	0	0	?	?	Hailstorm	Hailstones up to 1 3/4 inches in diameter were reported in northwestern Mills County, 15 miles southeast of Brownwood; there was no report of any damage.
17 SW Brownwood, Brown County	11	5:15 p	?	?	0	0	?	?	Hailstorm	Hailstones up to 1 3/4 inches in diameter were reported in southwestern Brown County about 17 miles southwest of Brownwood; there was no report of any damage.
Kerr and Kendall Counties	11	9:10 p-9:35 p	20	*1	0	0	?	?	Hailstorm, wind	A hailstorm caused heavy damage to trees, and soft metal objects such as mobile homes, pick-up campers and window screens in a strip about 20 miles long and one mile wide through the eastern part of Kerr County and the western part of Kendall County. The storm hit the east side of Kerrville. Hailstones averaged 3/4 inch in diameter; largest stones were one inch. Wind gusts were estimated at 60 miles per hour.
Bulverde, Comal County	11	11:00 p-11:30 p	?	?	0	0	?	?	Hailstorm	Hailstones averaging 3/4 inch in diameter fell in the Bulverde Community. Largest stones were 1 3/4 inches in diameter. There were no reports of extensive damage.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1970

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	
Texas (continued) Near Eastland, Eastland County	22	4:00 p- 4:30 p	Short	Narrow	0	0	2	0	Tornado
			A tornado wrecked the home of Mike Ogle near Eastland which was under construction. Damage was estimated at several hundred dollars.						
Near Carbon, Eastland County	22	4:00 p- 4:30 p	?	?	0	0	?	?	2 Tornadoes
			Two tornadoes touched earth near Carbon. One hit southwest of Carbon, touching down three times. Once on the Gerald Tucker farm, where it moved several trucks; once at the Bramer Files farm, where a barn was destroyed; and once on the Ed Stacy farm, where an implement shed was destroyed.						
Breckenridge, Stephens County	23	5:10 a- 5:15 a	1	50	0	0	4	0	Windstorm
			A severe windstorm struck Breckenridge in a very narrow path and destroyed three new trailer homes, heavily damaged eight or nine more, and severely damaged roofs of two or three homes. No one heard or saw a funnel cloud or tornado. The storm moved from west to east.						
Dublin, Erath County	23	7:25 a			0	0	?	0	Lightning
			Lightning struck a home at 414 Vine Street and caused extensive damage.						
Near Elgin, Bastrop County	23	Noon	Short	Narrow	0	0	0	0	Tornado
			No known damage.						
3 S Hutto, Williamson County	23	Afternoon			0	0	?	0	Lightning
			Fire caused by lightning destroyed the home of Dr. J. J. Johns three miles south of Hutto.						
Silsbee, Hardin County	23	4:00 p	**200	67	0	0	3	0	Tornado
			A small tornado touched down in the southern part of the Caraway Motor Company lot overturning a house trailer parked there, ripping tin from the roof of an outbuilding, tearing two signs from Val Hickman's real estate office across the street and slamming them into a parked Toyota on the lot. Total damage was estimated at \$1250.						
Near Wharton, Wharton County	23	Evening	?	?	0	0	4	0	3 Tornadoes
			Three tornadoes struck near Wharton in Wharton County. One struck the Charley Gavranovich farm eight miles east of Wharton destroying barns and field equipment valued at \$20,000. Another tornado moved a farm house 30 feet off its foundation two miles from the Gavranovich place, also causing considerable damage, and a third tornado dipped down at Hungerford, six miles north of Wharton. The third tornado did not cause any known damage.						
Near Lexington, Lee County	23	Night			0	0	3	0	Lightning
			Lightning struck and killed five head of cattle on the Herman Otto Ranch near Lexington. The lightning apparently hit the cattle while they were walking beside a barbed wire fence. The total loss was about \$1000.						
3 N Stephenville, Erath County	26	3:00 p- 3:30 p	?	*1	0	0	?	0	Hailstorm
			Hail up to 1 3/4 inches in diameter fell in a strip one mile wide, three miles north of Stephenville and caused minor damage to property in the area. The hailstones averaged 3/4 inch in diameter.						
5 S Dublin, Erath County	26	4:00 p- 4:15 p	?	?	0	0	?	?	Hailstorm
			Hail, up to 1 3/4 inches in diameter fell about five miles southeast, south, and southwest of Dublin, while smaller hail was reported near the airport. Some damage to both buildings and crops was reported.						
Burleson, Johnson County	26	4:00 p- 6:30 p	?	?	0	0	?	?	Hailstorm
			Hailstones up to one inch in diameter caused minor damage to property in the Burleson area. Average stones were 3/8 to 1/2 inch in diameter.						
1 S Clifton, Bosque County	26	5:30 p **100	55		0	0	2	0	2 Tornadoes
			Two small tornadoes dipped down in the rural area one mile south of Clifton. The only damage, estimated at \$150, was to power lines and a few trees. The path of one tornado was about 100 yards long and 55 yards wide. The roar of at least one of the funnels was heard in Clifton, and was photographed from this distance.						
Dallas, Dallas County	26	5:35 p- 11:59 p	?	?	0	0	?	0	Hail, high winds, lightning, heavy rains
			Thunderstorms raked the Dallas area with hail, high winds and heavy rains. The Oak Cliff section caught the brunt of the						
Texas (continued)			thunderstorms over the city. Hailstones up to 1 3/4 inches in diameter fell in Oak Cliff while 1 80 inches of rain sent a small creek out of its banks and flooded four homes with five inches of water. Maximum wind gusts of 52 miles per hour were recorded at Rebird Airport. High winds blew two trailer homes off their foundations at the Interstate Lumber Company, Forest and Lamar Streets. Lightning struck the home of Hilton L. Newsom, 1111 Thompson in Richardson around 7:30 p.m., causing a fire that destroyed the roof.						
Fort Worth, Tarrant County	26	5:50 p- 5:53 p							Funnel aloft
			Reported in the southeast section of Fort Worth.						
Near Mountain Creek Lake, Dallas County	26	6:40 p							Funnel aloft
14 NW Waco, McLennan County	26	6:50 p							2 Funnels aloft
West, McLennan County	26	7:00 p							Funnel aloft
Lake Ray Hubbard, Kaufman and Rockwall Counties	26	7:40 p- 8:00 p							Funnel aloft
			The funnel was observed in the northwest corner of Kaufman County and moved northward into Rockwall County toward the town of Rockwall.						
Near Boyce City, Collin County	26	8:10 p- 8:20 p							Funnel aloft
Salen-Irene Community, Hill County	26	8:15 p- 8:17 p	?	?	0	0	?	0	Tornado
			A small tornado blew out several windows of a farm house occupied by Mr. and Mrs. Page Perkins. Numerous trees around the home were uprooted, and bricks were "sucked out" of a brick sidewalk outside the home.						
			Mrs. Perkins said, "the tornado lasted about two minutes and sounded like a freight train".						
			Several hundred yards from the Perkins home a cotton trailer and tank owned by Hwy Hilton were uplifted and turned over.						
3 E Cleburne, Johnson County	26	9:00 p	Short	Narrow	0	0	?	0	Tornado
			A small tornado demolished six of nine large broiler houses on the Ernest Mahard farm about three miles east of Cleburne. Twisted sheet metal was scattered for at least a quarter of a mile to the northeast, across the farm of Mrs. M. D. Looper. Mrs. Looper said the storm made a roaring noise about 9:00 p.m. and was accompanied by heavy rain and hail. A house on Mrs. Looper's farm received roof damage. No one was at home on the Mahard farm when the tornado struck.						
5 SW McKinney, Collin County	26	Evening							Funnel aloft
Lower Neches- Sabine area, Newton, Jasper, Hardin, Jefferson and Orange Counties	27				0	0	5	0	Torrential rains and flooding
			Torrential rains on the Neches and on the Sabine below Toledo Bend reservoir caused extensive flooding of poor drainage areas, including cities and towns, throughout the lower Neches and lower Sabine basins. Heaviest downpours were in the Deweyville area in southern Newton County. The official National Weather Service gage at Deweyville measured a storm total of 18.15 inches, all of which fell within a 24-hour period. Elsewhere within the town amounts up to 22.00 inches were measured by unofficial but reliable gages. A total of 8.44 inches fell at Beaumont. Amounts ranging from two to five inches were measured at other rainfall stations within the lower river basin area. In Deweyville, the Indian Lake road was badly damaged. Automobiles were flooded to door-handle levels. In Beaumont, the torrential rains and flooding caused extensive street damage. Water was left standing three to four feet in some streets. The worst damage was in the North End; flooding occurred in the West End also. Total damage due to flooding was estimated at \$100,000.						
11 N Houston, Harris County	27	3:46 p	8	*2	0	1	5	0	2 Tornadoes, 5 funnels aloft
			A family of two tornadoes and three funnel clouds were observed in an area approximately 11 to 13 miles north to northeast of Houston. The length of the area was approximately 8 miles and the width about two miles, bounded on the north by FM 925 and partially on the south by West Road. The area extended from just west of Interstate 45 to U. S. 59. Windows at the Field Inn Motel on the North Freeway were blown out, and about 10 homes in the Greenridge and Imperial Valley subdivisions were damaged. A funnel picked up a trailer where three construction workers had sought refuge and overturned it. One of the workers, Winston McWorter, 30 of 9611 Wallboard, received a shoulder separation and was taken to Doctors Hospital for treatment. A pick-up truck complete with attached camper traveling southbound on the feeder road to Interstate 45 was overturned. Two small travel trailers on a parking lot, and one two truck was overturned. Damage to about 10 homes in the Greenridge and Imperial Valley subdivisions ranged from broken windows to very substantial roof and structural damage. Total property damage was estimated at \$55,500.						

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1970

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	
Texas (continued)									
9 NW Corpus Christi, Nueces County	27	6:30 p							Two funnels aloft were reported over the above residential area, and three were reported in the FM 925 - U. S. 59 area. Funnel aloft
Utah			None reported						
Vermont			None reported						
Virginia			None reported						
U. S. Virgin Islands									
St. Thomas & St. John	4-10				1	1	6	0	Heavy Rain, Floods (Tropical Depression)
					<p>A tropical depression passed through the Windward Islands on October 2nd and moved slowly westward thru the Caribbean until October 4th when it became practically stationary about 300 miles south of Puerto Rico. After remaining nearly stationary for several days the center drifted slowly northward and crossed the Dominican Republic on October 8th. The rain area associated with this depression covered a large area of the Caribbean extending some 500 miles from the center. The northern Virgin Islands of St. Thomas and St. John were under the influence of this rain area from October 4th thru October 10th. Heavy rains were not continuous but fell in different locations on different days. However, the seven day period is considered one flood event since it was caused by the same weather system.</p> <p>The heaviest rains generally occurred on the afternoon and night of October 7th and were reported on the 8:00 AM observations of October 8th. Dorothea in St. Thomas reported the highest 24-hour total with 9.62 inches on this date. St. Thomas averaged 6.05 inches on October 8th for all stations on the island. On St. John the highest amount reported was 6.25 inches on October 8th at Catharineburg. St. John averaged 5.07 inches per station on this date. Although the intensity of rain was somewhat higher in St. Thomas than St. John, probably due to the higher terrain, the average rainfall amount for the seven day period was less. St. Thomas reported an average of 13.11 inches while St. John had an average of 16.96 inches. St. Croix to the south reported 3.30 inches as the highest amount in one day, on October 8th, and averaged 1.46 inches per station. The average for the seven day period was only 4.60 inches.</p> <p>Dusty winds up to 33 m.p.h. at St. Croix caused some minor damages from blown down trees but there was no significant flooding reported. St. Thomas and St. John sustained serious damages from flooding. The worst flooding occurred during late afternoon and evening of Wednesday, October 7th. The soil had already been saturated by previous rains so that runoff down the steep slopes caused heavy erosion, land slides and damage to roads and buildings. Many houses with no provision for overflow of roof cisterns were damaged. In St. Thomas one little girl was drowned. Unpaved roads in both St. Thomas and St. John received major damage as the top layer of crushed rock was swept away leaving bare bedrock exposed. Erosion of paved road shoulders caused many break ins and pot holes. Some areas had as many as four flood episodes due to the numerous rainfall peaks during the seven day period. Many businesses in the Charlotte Amalie area were flooded with considerable damage to merchandise. In the housing areas on the steeper slopes and low lying areas the runoff entered many homes and undermined the foundations. Caneel Bay Plantation, St. John reported many guest rooms flooded and temporary housing destroyed with considerable damage to water catchment areas, drainage culverts, roads and grounds. St. Thomas and St. John received severe damage to sewage systems, water filtration plants and harbor installations. Both islands were declared major disaster areas by the Federal Government as the result of the extent of flood damages sustained.</p>				
Washington			None reported						
West Virginia			None reported						
Wisconsin									
Dane County	7	Night (AM)			0	0	4	0	Lightning
					Lightning fires caused \$8,000 damage on rural DeForest farm. Also minor damage to two Sun Prairie Homes.				
Fond du Lac County	7	1:30 a			0	0	4	0	Lightning
					Lightning destroyed 60-foot chimney at the J. E. Burke Co. plant NW of Fond du Lac.				
Sawyer County	8	6:30 a			0	0	4	0	Lightning
					Lightning fire burned barn on farm north of Hayward. 7 calves and 20 tons of hay lost.				
State	9				0	0	6	0	Wind, rain
					Severe thunderstorms entered the state from the south about 10 am. Did extensive damage in Rock and Dane Counties. 3 aircraft destroyed or severely damaged at Tree Airport near Beloit. Many farm buildings lost around Edgerton and Stoughton with tree damage extensive. Damage elsewhere in state include the loss of 4 trailer homes near Wausau with 5 more damaged. Trees also fell on cars or buildings in many areas. Boat and pier damage occurred along Lake Michigan.				

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	
Wisconsin (continued)									
Rock, Dane Counties	9	10:45 a	15	50	0	1	5	0	Tornado
					Moved NW from banks of Rock River just north of Riverside Park (NW of Janesville) and 5 miles west of Edgerton toward Stoughton, one man injured slightly as an outbuilding on the James Johnson farm west of Edgerton was carried 40 feet through the air with him in it. The funnel seen by several witnesses along the Rock River.				
Wyoming			None reported						
CORRECTION									
SEPTEMBER 1970									
Arizona									
Central and south-central sections of State	4,5 & 6				23	0	6	4	Rain
					<p>Tropical storm Norma, located in the Pacific Ocean below Baja California, initiated a flow of moist tropical air over the Gulf of California toward the desert Southwest on the afternoon of the 1st. This surge of moisture entered the State on the 2nd, over-spreading the State and increasing in depth during the next two days. On the morning of the 4th a convergent flow of air developed in the lower levels of the atmosphere in the Tucson area and south-southwestward to near Sasabe. This produced heavy precipitation along and east of the Baboquivari Mountains and northward to Tucson and the Avra Valley on that day. This heavy rainfall caused rapid runoff that washed out roads and several bridges near Tucson and flooded homes. On the 5th, strong southerly winds developed over much of Arizona causing heavy orographic precipitation, with heaviest amounts along south slopes of natural barriers in the southern part of the State. Precipitation along and to the south of the Mogollon Rim in Gila County and along the south slopes of the Bradshaw Mountains in Yavapai County was especially heavy on the 5th. Severe flooding in Christopher Creek, Tonto Creek and Sycamore Creek caused extensive damage to roads, bridges and property along those tributaries. Rainfall was also heavy in the Scottsdale area, where many homes were severely damaged by floodwaters. Flood damage in other parts of Maricopa County was scattered as far west as Wickenburg, where the Hassayampa River overflowed its banks and flooded residential areas. Flooding also occurred along the Little Colorado River from Winslow to the Navajo Reservation. Agricultural damage was reported to range improvements such as fences, wells, stock tanks, and corrals. Loss of cattle was light, as was damage to field crops. By the 6th, precipitation was limited mostly to the mountains in the southeastern part of the State, but reported damage on that date was light relative to that occurring on the previous two days.</p>				

- ° 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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