JUNE 1957

			f path,	path,	Nun of pe	rsons	Estimated by categ		Character	
Place	Date	Time	Length of miles	Width of yards	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
MISSOURI Bootheel area	30	4-5 a.m.							Wind, rain, electrical, and hail	Squall line moved through Bootheel area, accompanied by severe thunderstorm activity. CAA Station at Malden had gusts to 70 m.p.h. Rains of 2.50 to 4.50 inches with storm. Houses, trees, farm buildings, power- and phone lines damaged over wide area in Bootheel.
MISSOURI Caruthersville area, Pemiscot County	30	6-8 a.m.			0	0	4		Funnels aloft, wind, rain, and elec- trical	Unconfirmed funnels observed near Caruthersville
OKLAHOMA Woodward (north and east of), Woodward County	30	A.m.							Wind	Farm buildings and trees demolished or severely damaged.
OKLAHOMA Okeene area, Blaine County	30	A.m.							Wind and elec- trical	Outbuildings damaged and trees and TV antennas broken in and around Okeene. Lightning caused structural damage to church and power plant had \$1500 damage to switchboard.
SOUTH DAKOTA Gettysburg (18 miles north- west of), Potter County	30	Noon				1	2		Electrical	Lightning injured man who was touching water faucet. Cow killed.
NORTH DAKOTA Williston (20 miles north of), Williams County	30	3 p.m.			0	0			Funnel aloft	Reported moving east-northeastward.
CONNECTICUT AND RHODE ISLAND	30	Afternoon				7			Electrical, wind, and hail	High winds accompanied squalls, mostly along Fairfield County coast of Long Island Sound and Narragansett Bay. Two 19-foot sailboats capsized endangering lives of 7 persons. Barge turned over in Bridgeport Harbor. Berthing of aircraft carrier delayed at Quonset Naval Station, R. I. Radio and TV stations interrupted a few hours by power failures in Rhode Island. Light hail reported in Fairfield County, Conn., but crop damage negligible.
MASSACHUSETTS AND NEW HAMP- SHIRE	30	Afternoon			1	7	3	3	Wind, elec- trical, and hail	Scores of small boats capsized by thundersqualls in Massachusetts and Cape Cod Bays. Many timely rescues. Some hail damage to vegetable gardens in Worcester County, Mass. Storm's single fatality occurred when mast of yawl snapped in wind and struck victim. Youth struck ylightning "revived" 5 minutes after heart stopped beating. Lightning strikes in many parts of storm area.
TEXAS Dalhart (25 miles south- west of), Hartley County		5 p.m.			0	0			Funnel aloft	
SOUTH DAKOTA South-central portion	30	5-11 p.m.			0	1	4	5	Tornado (sus- pected), wind, hail, rain, and electrical	Farm buildings 4 miles west of Winner shattered, apparently by tornado. Other high winds moved across Tripp County accompanied by hail that caused serious crop damage. Baseball-sized stones were reported with 6-1/2 inch rains along White River, about 6 p.m. Other large hailstones fell south of Winner. Over 17 buildings in area damaged or destroyed. 2 men swept away in flash flood, were rescued. Much of Gregory flooded by heavy rain, with a number of basements completely filled. Lightning injured a man and killed livestock.
KANSAS Seward County	30	7:45 p.m.			0	0			Wind and funnel aloft	Some minor damages from high winds. 1 funnel observed aloft over Liberal. Storm moved north eastward.
NORTH DAKOTA Dickinson (30 miles south- west of), Slope County	30	7:57 p.m.			0	0			Funnel aloft	Lowered, then receded into cloud.
OKLAHOMA Panhandle and Northwestern Counties	30	8 p.m midnight							Wind, rain, hail, and electrical	Severe squall line with winds measured up to 90 m.p.h., heavy rain, and spotted hail swept across area. Crops flattened and utilities and trees damaged. Some buildings damaged. Barn worth \$6,000 destroyed near Alva.

JUNE 1957

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Place	Date	Time	Length of miles	hof	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
KANSAS Attica (12 miles south- east of), Harper County	30	11:05 p.m.			0	0			Tornado	Tornado on ground moving northeastward reported by Ground Observer Corps.
MISSOURI Grubville, Jefferson County	30								Rain	Flash flood marooned 14 persons who were fishing on tributary of Big River near Grubville; they clung to trees 9 hours before being rescued.
TENNESSEE Rives, Obion County	30							1	Rain	Heavy rains caused breaking of levee at about noon. Streets and several homes flooded.
VIRGINIA Williamsburg area, James City County	30						3		Wind and hail	Severe thunderstorm accompanied by winds esti- mated to 60 m.p.h., and hail; some stones as large as hens' eggs. Considerable damage to Jamestown Corporation's Amphitheatre where 25-foot 'prop' ship sunk. A number of trees downed in area. Some hail damage to buildings.
	30									Minor storms also reported near Springview and in Garden County, Nebr.; at Cedardale and Minoc Okla.; in Aiken and Lexington Counties, S. C.; at Athens and Franklin, Tenn.; and Mingo, W. Va

#### DELAYED REPORTS

NORTH CAROLINA Brunswick, Duplin, Jones, Pender, Edge- combe, Lenoir, Sampson, Cum- berland, Hoke, Scotland, and Stanly Counties	6	Afternoon			3	5	Hail	Widespread hail in connection with frontal thundershowers. Most damage to tobacco in fields, mostly in Coastal Plains.
NORTH CAROLINA Jones, Scot- land, and Henderson Counties	8	Afternoon				4	Hail	Scattered damage to corn and tobacco in widely separate areas.
NORTH CAROLINA Madison County	10	2:30 p.m.				3	Hail	Light scattered damage over 3 square miles.
NORTH CAROLINA Greene County	11	4 p.m.				4	Hail	Heavy damage to tobacco in limited area.
NORTH CAROLINA Jones, Pender, Hoke, Sampson, Richmond, and Ashe Counties	13	Afternoon			4	5	Hail	Heavy damage to tobacco in Hoke and Sampson Counties, scattered damage elsewhere.
NEW YORK Germantown to Livingston, Columbia County	14	5:30-5:50 p.m	10	*3			Hail, rain, and electric- al	Hail averaging 1/2 inch, maximum 1-1/2 inches, completely covered ground. No estimates of damage received. Storm moved northeastward.
NORTH CAROLINA Cumberland County	15	5 p.m.				4	Hail	Damage mostly to tobacco in fields.
MARYLAND Mount Airy area Carroll County	16				4	1	Electrical	Lightning destroyed barn valued at \$10,000 and set fire to dwelling with damages estimated at \$500.
NORTH CAROLINA Beaufort County	17	5:15 p.m.			3		Hail	Corn and tobacco damaged.
NORTH CAROLINA Bertie, Hart- ford, and Martin Counties	18	2-5 p.m.				4	Hail	Tobacco and some corn damaged.
VIRGINIA Independence area, Grayson County	18	Afternoon			3		Rain	Foundation block wall of nearly finished house pushed out by mud and water from cloudburst and house collapsed into basement excavation. 10 persons in house escaped injury. House had to be taken apart and rebuilt.

JUNE 1957

			path,	path,		nber	Estimated by categ			
Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
ARYLAND Royal Oak and Easton, Talbot County	18								Rain and hail	Very severe thunderstorm struck area between Royal Oak and Easton, accompanied by heavy rain fall and hail up to 2 inches in diameter. Hail confined to narrow path about 10 miles long.
ORTH CAROLINA Jones, Lenoir, Lee, Robeson, Wilson, Cas- well, Person, Bertie, and Alamance Counties	19	Afternoon					3	4	Hail	Widespread hail damage, mostly to tobacco in fields.
NORTH CAROLINA Durham County	20	3 p.m.						3	Hail	Tobacco and small grains damaged.
COLORADO Wages area, Yuma County	21	1:15 a.m.			0	0			Tornado	Tornado damaged buildings on 2 farms in Wages area. 2 steel granaries destroyed, windows pushed out of house, causing damage to interior
COLORADO Baca County	22-23	Night 22d - early a.m 23d			0	0			Tornado, rain, and hail	Tornaco hit ranch southwest of Campo, demolishing barn and chickenhouse. Heavy rain and flooding of row crops. Spotted hail damage in southeast ern Baca County.
COLORADO Southwestern portion	25-30								Rain	Heavy rain of 25th and 26th above Vallecito Dam filled dam to overflowing, causing flooding in Pine River Valley from 28th through 30th. Wate system at Ignacio heavily damaged, approaches to bridges washed away near Bayfield and many families evacuated from their homes.
Pleasant Valley, Dutchess County	27	6-7 p.m.	1/2	440				4	Hail	Hail fell over about 50 to 60 acres of land which included portion of fruit orchard. 15 to 20 acres of orchard, hit with estimated \$10,000 damage. Storm moved northeastward
COLORADO Holly, Prowers County	29	Afternoon					3		Wind and hail	High winds showing evidence of cyclonic movement blew out windows, tore down TV antennas and caused other minor damage. No damage by hail reported.
COLORADO La Junta (28 miles north- east of), Otero County	29	5:35 p.m.			0	0			Funnel aloft	Funnel cloud sighted.
VIRGINIA Craddockville- Belle Haven- Quinby area, Accomack County	30	2-2:30 p.m.	10	*5		12			Hail	Hailstones egg-shaped up to 2 inches in length.  More than 5,000 windows broken. Automobiles, roofs, and boats damaged. Extensive damage to crops, especially tomatoes and sweet corn.  About a dozen persons painfully but not seriously injured. Storm moved eastward.
COLORADO Northeastern portion	30	Afternoon			0	0			Tornadoes, hail, and rain	2 tornadoes in Cheyenne County, 1 north of First view completely destroyed barn. The other 16 miles southeast of Cheyenne Wells destroyed barn and did minor damage around farm. Heavy rain and some hail accompanied storm. Same afternoon, twister in vicinity of Stratton tore limbs off trees, upset hay racks and other farm implements. It was accompanied by heavy rain and some hail. Hail did considerable damage to crops in eastern Logan and Phillips Counties in Fleming and Haxtun areas. In Yuma County, tornado did extensive damage to farm southwest of Eckley by demolishing barn, damaging house, blowing down windmill, and uprooting trees.
Marion (2 miles east of) Marion County	30	Afternoon				1	3	1	Electrical	Lightning burned home. Storm moved northeastwar
ORTH CAROLINA Anson County	30	3:30 p.m.						3	Hail	Cotton crop damaged.
SOUTH CAROLINA Gapway Communi- ty, Marion County		6 p.m.	2	Narr ow	0	0	3	3	Tornado	Tornado moving southeastward destroyed barn, struck another, and caused considerable damage to field of tobacco.

<sup>\*</sup> Miles instead of yards.

\*\* Yards instead of miles.

Includes crop damage.

C Crop damage.

Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than \$50
2 \$50 to \$500
3 \$500 to \$5,000
4 \$5,000 to \$5,000
5 \$50,000 to \$500,000
5 \$50,000 to \$500,000
7 \$5,000,000 to \$50,000,000
7 \$5,000,000 to \$50,000,000
9 \$500,000,000 to \$5,000,000,000
9 \$500,000,000 to \$5,000,000,000.

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Place	Date	Time	of	of		70	Property			Remarks
riace	Date	Time	Length	Width	Killed	Injured	(exclusive of crops)	Crops	of storm	
WISSISSIPPI Grenada area, Grenada County	1	Midnight -5 a.m.					4	4	Rain	6.29 inches of rain, of which about 5 inches fell in 2 hours, flooded streets of Grenada with 10 stores damaged by floodwaters; heavy runoff and overflow from creek caused considerable damage to crops in surrounding area.
OKLAHOMA Sand Springs, Tulsa County	1	2 a.m.			0	0		1	Tornado	Funnel reported to have dipped down and destroyed revival tent and broke many of the 2,000 chairs.
KANSAS Rice and Sa- line Counties	1	2-3 a.m.							Wind and electrical	Thunderstorm hit Salina about 2 a.m. Wind gusts to 44 m.p.h., recorded at Air base but were evidently higher in nearby area. Power and transmission lines broken in a number of places. At 2:15 a.m., bolt of lightning struck house in Lyons, Rice County. T.V. set ruined and some damage done the house and contents by fire. Storm moved southeastward.
OKLAHOMA Tulsa, Tulsa County	1	2:20 a.m.			0	0	4	1	Tornado, rain, electrical, and funnel aloft	Tornado dipped to tree-top level and moved across southern edge of Tulsa. House unroofed, shopping center had building damage and broken windows; other buildings damaged, trees uprooted, and utility lines damaged. Several homes struck by lightning causing damage vary-
										ing from \$200 to \$3,000. Second funnel sighted at same time about 1 mile southwest; evidently remained aloft as no other reports received. Storm moved northeastward.
OKLAHOMA Vinita area, Craig County	1	3:10 a.m.					4	1	Wind and rain	Strong winds destroyed large barn and windmill and damaged small shed on farm north of Vinita. Barn contained 100 bushels of grain. Windblown tin cut through telephone cable and electric powerline.
ARKANSAS Sebastian, Crawford, Washington, Benton, and Carroll Counties	1	3:15 a.m.				1			Wind and rain	Widespread thunderstorm activity with high winds and locally heavy rains. Extensive wind damage to powerlines, roofs, trees, and TV antennas. Several homes and outbuildings damaged; 600 young turkeys killed. Heavy rains caused about \$5,000 damage by local flooding in Fort Smith.
KANSAS Southeastern portion	1	3:30-6 a.m.							Wind and electrical	Heavy thunderstorm over extreme southeast. Winds estimated at 50 m.p.h., or higher, broke tree limbs, and some windows, and caused roof damage at both Parsons and Fort Scott. Storm moved southeastward.
OKLAHOMA Coweta, Wa- goner County	1	5 a.m.			0	0			Funnel aloft	Funnel aloft reported over Coweta moving north-eastward.
OKLAHOMA Sallisaw area, Sequoyah County	1	A.m.							Wind and rain	Strong winds accompanied by heavy rain caused damage to roofs, outbuildings, trees, utilities, etc.
MISSOURI Kennett, Dunk- lin County	1	Early morning							Rain	Up to 5 inches of rain. Local flooding around 20 homes.
ARKANSAS Conway (3 miles west of) Faulkner County		1 p.m.	** 880	150			4	1	Wind and rain	Hangar destroyed and 3 airplanes extensively damaged by wind at private airport. Excessively heavy rainfall accompanied storm. Storm moved northeastward.
MISSOURI Pleasant Hill, Cass County	1	1:15 p.m			0	0			Funnel aloft	
MONTANA Richland County	1	3 р.в.	6-8	*1- 1/2			1	5	Hail	Hailstones 1/4 to 1/2 inch in diameter. Damage in 3 communities, Lambert, Hilcrest, and Girard. Storm moved eastward.
SOUTH DAKOTA Southeastern portion	1	3-7 p.m.			0	0	3	4	Funnels aloft, hail and wind	Series of thunderstorms left hail up to size of golf balls. Most between Wessington Springs and Academy. Minor wind damage. Irregularly shaped clouds described by some as "funnels". Storm moved southeastward.
MONTANA Brockway and Circle areas, McCone County	1	3:30 p.m	. 10	1-1/2	2		2	5	Hail and wind	Heavy wind accompanied storm. Hailstones up to size of walnuts. Storm moved northeastward.
MINNESOTA Madison (near Lac Qui Parle County		4 p.m.			0	0	3	4	Hail and funnel aloft	Hail from pea size up to 3 inches in diameter damaged roofs, broke windows, and flattened crops. Several persons observed funnel cloud aloft. Storm moved eastward.

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Place	Date	Time	Length of path miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
TEXAS Plains area, Yoakum County	1	5 p.m.	25	*15			°4	c	Wind, rain, hail, and dust	Winds estimated at 90 m.p.h., with gusts even higher brought blinding dust and sand. Heavy rain dumped official 1.89 inches in 20 minutes Hail of marble size fell heavily. Some farmer estimated crop losses of 100 percent; roofs an phone lines and equipment damaged and granary blown down.
ARKANSAS Howard and Pike Counties	1	7 p.m.					4	3	Wind, elec- trical, rain, and hail	Widespread thunderstorm activity. Extensive damage to homes, outbuildings, and trees, with principal damage in Saratoga area, Howard County. Some hail reported in Antoine area, Pike County. Storm moved northwestward.
MONTANA Square Butte, Chouteau County	1	8:30 p.m.	11	*2			1	4	Hail	Ground covered up to 1 inch with hail. Stones up to 1 inch in diameter. Storm moved eastward.
NEBRASKA Knox County (western portion)	1	Evening					2	4	Hail	Hailstones size of marbles.
ARIZONA Phoenix, Mari- copa County	1				1		1	1	Heat	Man died of heatstroke.
OKLAHOMA Creek County	1				0	0			Tornado and funnel aloft	Motorist lifted off highway and set in ditch by what was believed to have been tornado 8 miles east of Drumright. Police reported funnel aloft 8 miles west of Sapulpa at 3:15 a.m. Funnel evidently moved through open country or dipped down momentarily as no other damage reported. Storm moved eastward.
	1									Minor storms also reported at Blackfoot, Idaho; at Emporia, Kans.; at Vida, Mont.; near Centra City and Page and in western Washington County Nebr.; and at Blackwell, Cushing, and Okmulgee Okla.
SOUTH DAKOTA Northern and eastern portions	1-2	9 p.m 7 a.m.			0	0	3	5	Funnel aloft, hail, and wind	Scattered hail in Harding and Perkins Counties before midnight. Thunderstorm, with intermittent hail and gusts to 50 m.p.h., passed Pollock at midnight, reached Huron at 5 a.m., with gusts to 75 m.p.h. Funnel cloud southeas of Huron. Wind died after passing Madison at 6:40 a.m. Sporadic hail and wind damage from Pollock to Madison. Storm moved southeastward
NEBRASKA Burt County (northwestern portion)	2	3-5 a.m.	5	*3-4			2	4	Hail	Storm moved eastward or southeastward.
NEBRASKA Pender (9 miles east of) Thurston County	2	5:30-5:45 a.m.	4-1/2	*1-1/2			1	4	Hail	Stones 1-1/2 to 2 inches in diameter. Storm moved northeastward.
TENNESSEE Gates and Ripley areas, Lauderdale County	2	A.m.							Rain	At Gates, several inches of water backed into business houses and some homes flooded. Near Ripley, numerous fields and 1 house flooded. Stretch of Highway 51 between Gates and Dyersburg inundated.
NEBRASKA Hitchcock County (south- western and south-central portions)	2	4 p.m.	12	*1-2			3	5	Hail	Hailstones size of marbles. Storm moved eastward.
NORTH DAKOTA Sheridan, Wells, Foster, Griggs, and McLean Counties	2	4:45 p.m.	160	*2-7		4	5	6	Wind and hail	Hailstones 1 inch in diameter. Some crops completely destroyed, building roofs and windows broken and damaged at Carrington. Storm moved southeastward.
MICHIGAN Northern portion	2	Afternoon -evening	•			1	4	3	Wind, elec- trical, rain, and hail	Squall line moved across Upper Peninsula and extreme northern Lower Michigan. High winds downed many trees and utility lines. Lightning caused some damage, and in some areas heavy showers resulted in flooding. Heavy hail reported in Escanaba area. Storm moved eastward.
NEBRASKA Curtis (9 miles south- west of), Fron- tier County	2	5:15-5:30 p.m.	5	880	0	0	4	3	Tornado	Tornado moved northwestward.

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Place	Date	Time	Length of path miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
LORIDA Jacksonville, Duval County	2	6:30 p.m.			0	0			Tornado (sus- pected)	Moved southeastward.
ISSISSIPPI Hermanville, Claiborne County	2	7 p.m.				4	4	2	Wind	Squall line apparently developed at Vicksburg and moved southeastward with increasing violence until small town of Hermanville reached; several small homes badly damaged.
SOUTH DAKOTA Nisland, Vale, Butte, Wall and Pennington Counties		8 p.m.					4	4	Hail	Hailstones up to 16 inches in circumference. Buildings and cars damaged, a few young live- stock killed. Less severe hail extended to near Wall. Storm moved southeastward.
INNESOTA Grant and Wilkin Coun- ties	2	8-10 p.m.					1		Hail	Damage spotty. Some areas up to 100 percent small grain loss. Storm moved southeastward.
EBRASKA Wisner (near), Cuming County	2	8:30 p.m.	Short	Nairo	0	0	2	1	Tornado	Hog house moved to 50 feet turned around, and set down with only minor damage.
NEBRASKA Nelson (9 miles west of), Nuckolls County	2	9 p.m.			0	0			Funnel aloft	Moved northeastward.
NEBRASKA Clay Center (southwest of), Clay County	2	9:40 p.m	. Short	Narro	0	0			Funnel aloft	
NEBRASKA Brady (9 miles southeast of), Lincoln County	2	10:02 p.m	. Shor	t Narro	w 0	0			Funnel aloft	
NORTH DAKOTA Richland County	2						4	5	Wind and hail	Several barns damaged.
	2									Minor storm also reported near Minneapolis, Minn.
SOUTH DAKOTA Harding to Minnehaha Counties	2-3	9 p.m 5 a.m.					5	5	Wind, hail, and elec- trical	Thunderstorms entered northwest corner; hail began in western Perkins County, and fell in narrow band across State, ending near Sioux Falls. Extensive high winds from Faith to Sioux Falls. Most damage east of Missouri River. 13 barns and numerous smaller buildings wrecked. 10 barns and 1 house unroofed. 4 house trailers overturned. Lightning fire demolished home and contents. Strongest wind of record at Buron, gusts to 97 m.p.h. Storm moved east-southeastward.
WISSOURI Valley Park, St. Louis County	2-3								Rain	Meramec River crested at 32 feet, 16 feet above flood stage. 800 persons in 200 homes had to be evacuated.
IOWA Northern portion	3	3:45-7 a.m.	30	00 *5	)		5	5	Wind	Damaged buildings, utilities, crops, and injured or killed livestock. Entered State at Lyon County about 3:45 a.m., and moved east-southeastward crossing Fayette County about 7 a.m.
WINNESOTA Rock and Nobles Counties	8	5-6 a.m		50 *	8 (	D :	2 5	5	Wind, elec- trical, hail and tornado (suspected)	
IOWA Boone and Jasper Counties		3 7 a.m.				o	o		Funneis aloft	Public reported sighting funnel clouds aloft.
IOWA Mahaska and Iowa Counties southeastward to Van Buren		7:15-9: a.m.	30				4	5	Wind and electrical	Destroyed farm buildings, and caused local flooring. Storm moved southeastward.
County  IOWA  Pottawattamic County		3 Morning				1	1	1 - 332	Electrical	Farmer killed as he worked in field.

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Place	Date		Time		miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
ONTANA Phillips County	3	2	p.m.						1	4	Hail	Heavy rain at Malta flooded roads. Hail damage reported from local areas in county. Storm moved eastward.
INNESOTA Houston County	3	At	fterno	on			0	0			Funnels aloft	Air force pilot reported funnel clouds moving southward.
SOUTH DAKOTA Brule and Lyman Counties	3		-9:25 p.m.				0	0	5	4	Hail, wind, and funnels aloft	Thunderstorms began in northwestern part of State about 3 p.m., with intermittent hail. Strong winds developed in Lyman County. Unidentified person told press 2 funnels met north of Kimball. Buildings damaged on 5 farms. County fairground exhibition hall and grandstand demolished. 2 display windows broken. House trailer overturned. Storm moved east-southeastward.
COLORADO Meeker, Rio Blanco County	3	4	;40 p.	m .			0	0			Tornado	Freak wind damaged Rio Blanco County High School building at Meeker. Wind caught corner of roof, peeling it back over one-half build- ing.
NEBRASKA Roscoe (6 miles south- southeast of), Keith County	3	8	p.m.	S	hort	Narro	0	0	3	2	Tornado	Tornado moved eastward.
MONTANA Hilger and Roy, Fergus County	3	1	0 p.m		30	*8			1	4	Hail	Storm moved northeastward.
NEBRASKA North Platte and vicinity, Lincoln County	3	3   1	0 p.m				0	0	3	2	Wind and funnels aloft	
NEBRASKA Callaway (near), Custer County		3 1	10:30 1	p.m.	Short	Narro	w 0	0	3	1	Tornado	Funnel observed. Storm moved north-northeastwa
NEBRASKA Comstock (north and east of), Cus- ter County		3 1	Late eveni	ng			0	0	3	2	Wind and tor- nado (sus- pected)	
	:	3										Minor storms also reported at Rexville, Ind.; in Hamilton and Marshall Counties, Iowa; at Essex Center, Essex Junction, and Underhill, Vt.
SOUTH DAKOTA Gregory to Union Countie		4	10 р.н 2 а.п						3	4	Wind and hail	Small buildings blown down near Gregory and Tyndall. Most hail fell near and shortly after midnight between Lesterville and Elk Point. Storm track 25 miles south of more severe hailstorm (listed separately). Storm moved east-southeastward.
SOUTH DAKOTA Hutchinson, Turner, Lin- coln, and Union Countie	3-	4	11 p.m 1 a.r						6	6	Hail and wind	Said to have been most destructive hailstorm i State history. Resulted from same thunderstorms that produced earlier storm. Sporadic hail from Kimball to Freeman, then devastatin along 8-mile wide band to Hawarden, Iowa. Mo crops total loss. Hailstones reached basebal size. Buildings and cars damaged, cattle bruised, several hogs killed, and bark stripp from trees. Strong winds blew car from road. Storm moved southeastward.
IOWA Sioux County		4	12:30	a.m.	35	s *!	8		5	5	Hail and wind	Damaged buildings and crops. Storm moved sout eastward.
IOWA Ida County to Iowa County	•	4	1:45 -5 a		150	*5	0	0	1 6	5	Wind and tor- nado (sus- pected)	Damaged buildings and utilities. Motorist re- ported seeing funnel in northeastern Crawford County. Woman injured when her basement home collapsed. Storm moved east-southeastward.
WISCONSIN Brill, Barron County	a	4	6:30	a.m		1 15	0	0	4 5	1	Tornado	2 funnels reported moving northeastward.
WISCONSIN Door County		4	2 p.m	١.					2 4	3	Wind	High winds with cold front passage. Storm more eastward.
MICHIGAN Harbor Spring	gs,	4	4 p.m	۱.		6 3	5	0	0 4	3	Tornado	Funnel developed near western edge of Harbor Springs, destroyed 2 barns, damaged several other rural buildings, and uprooted many tree moved northeastward.

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Place	Date	Time	th	h of	P	ured	(exclusive	Crops	of storm	Remarks
			Length of path,	Width	Killed	Injui	of crops)			
INDIANA Johnson County	4	4:45 p.m.				25	°5	С	Wind and rain	High winds damaged houses, TV antennas, and utility lines. Several barns flattened. Court house at Franklin damaged severely. 3 inches of rain falling in 40 minutes at Franklin flooded streets and basements. Over 1,000 trees blown down in Franklin. 500-foot radio tower collapsed.
ILLINOIS Southwestern portion	4	5 p.m.							Wind and hail	Scattered wind damage in Jerseyville and heavy hail damage to crops west of city. Impossible to estimate damages for particular areas. Scattered wind, rain, and hail damage occurred during following three hours in area southeastward to Carbondale and West Frankfort.
ENDIANA Bengal and Marietta, Bhelby County	4	5 p.m.			0	0	°5	С	Tornado	Tornado struck area between Bengal and Marietta. Hany buildings damaged or destroyed.
WICHIGAN Presque Isle County	4	5 p.m.	5	130	0	0	4	3	Tornado	Funnel developed just south of Lake May, destroyed 3 barns, damaged several other rural buildings, and downed a large number of trees; moved eastward.
WEBRASKA Waywood (2 miles east of) Frontier County	4	5-5:30 p.m.	Short	33	0	0	4	2	Tornado and funnel aloft	4 other funnels observed in vicinity.
INDIANA Bartholomew County		6-9 p.m.					5	4	Electrical, wind, and hail	Residence west of Columbus struck by lightning and burned to ground. Several other house fires of same origin. Winds reached 80 m.p.h., at Bakalar Air Force base where wind damaged 2 planes. Many trees blown down which damaged utility lines, cars, and other property. Crops damaged by hail. \$25,000 damage by lightning, \$75,000 by wind to property, \$50,000 hail damage to crops.
Livingston and Oakland Counties	4	6:55 p.m	. 32	50	0	5	5	1	Tornado, wind, rain, and hail	Funnel developed just southeast of Brighton, injuring 4 persons, destroying 2 homes and damaging 10 others in new subdivision. Funnel lifted several times as it moved eastward toward northern suburbs of Detroit, where funnel apparently was replaced by windsqualls. Damage to buildings, trees, and powerlines reported at many points along path, including Detroit suburban area. Heavy rains and some hail occurred along and near storm path, causing flooding in some places. Storm moved eastward.
GEIO Bryan, Williams County	4	6:55 p.m	. 4	75-100	0	5	°5	C	Tornado, funnels aloft, and rain	This storm struck about an hour after rain started, and was part of squall line thunderstorm. Witnesses reported seeing several small funnel clouds aloft, but only I made contact with ground. Even so, it caught only tree and roof tops over most of its path. Only in rural sections did it demolish whole buildings (barns). Principal damage to some 30 business buildings and homes in city, most of which lost large sections of roofs, to windows, signs, etc. Included was Williams County Court house where clock face blown off west side of tower and landed on east side. Tornado moved east-southeastward. This is well substantiated as real tornado although it never made firm contact with ground. Mr. Lautzenheiser, State Climatologist on leave from Boston, viewed damage and concurred with local residents that true funnel cloud was present.
WICHIGAN New Lothrop (Bear), Shia- wassee County	4	7 p.m.	1				4	1	Wind	High winds struck small area 3 to 4 miles west of New Lothrop, destroying or damaging several farm buildings and downing many trees.
INDIANA Marion County	4	7:45 p.m	•			2	4	1	Electrical and wind	Lightning started fires in at least 10 houses and 7 other buildings. Wind blew down outdoor theater screen and damaged several cars. \$30,000 damage by lightning, \$20,000 by wind.
Gallatin, Grant, and Pendleton Counties		10 p.m.			0	3	5	5	Wind, hail, and torna- does (sus- pected)	Storm seemed to begin in Gallatin County, moved into Grant County, and then passed into Pendleton County. By path of destruction and type of damage, it is possible that tornadoes may have existed, although no funnel clouds observed. Numerous barns, several homes, and other buildings unroofed or otherwise damaged or destroyed. Trailer turned over and occupants injured. Many trees and utility poles blown over, causing disruption to power and

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			path,	path,		nber	Estimated by categ		Ob	
Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
KENTUCKY (Cont'd.)										telephone services. Hail destroyed tobacco, corn, and gardens, with about 200 claims for crop damage reported by insurance companies.
FENNESSEE Martin, Weakly County	4	10:30- 10:45 p.m.	2		0	0	4	1	Tornado	Funnel observed moving eastward. 2 paths of damage across city about 1/4 mile apart, each 200 yards wide. Winds felled carnival ferris wheel, demolished store house, and damaged roofs of 2 others, and blew down trees and limbs which damaged church, 4 homes, automobile and truck.
INDIANA Jefferson County	4	P.m.					6	6	Rain	Heavy rain and resulting floods washed out several bridges, damaged about 100 pleasure boats at Brooksburg and flooded many tobacco fields. Flood water from Crooked Creek Dam- aged 123 homes and businesses in Madison. Road damage alone estimated at \$100,000.
KENTUCKY Harrison, Robertson, and Bracken Counties	4	P.m.						4	Wind and hail	Winds ripped through barns and dwellings, de- stroying several barns and damaging a few homes Chimney of church blown off. Power services disrupted by falling limbs. Extensive damage to tobacco crops caused by hail.
INDIANA New Castle, Henry County	4	Evening				2	3	1	Wind	High winds collapsed skating rink tent injuring 2 persons.
INDIANA Dover (north- west of), Boone County	4	Evening			0	0	4	1	Tornado	Small tornado reported to have destroyed barn and other small buildings.
INDIANA Preble and De- catur, Adams County	4	Evening				5	4	1	Wind	Winds of severe thunderstorm struck tavern removing most of roof. Several automobiles crushed by parts of roof. Minor damage occurred at nearby Decatur.
INDIANA Huntington County	4	Evening					°4	С	Wind	High winds struck eastern half of county, de- stroying barn, damaging many buildings, over- turning house trailer, and toppling many trees.
KANSAS Riley County	4					1			Electrical	Woman injured and slight damage done to house by lightning a few miles south of Randolph.
	4									Minor storms also reported at Yuma, Ariz.; in Putnam County and at Whiting, Ind.; near Car- thage and Washington, Mo.; at Fairbury, Nebr.; at Bennington, Vt.; and at Wausau, Wis.
INDIANA Switzerland County	4-5	8 p.m 3 a.m.				1	6	5	Rain and el- ectrical	4 to 7 inches of rain flooded fields, streets, and houses. Most damage occurred in Vevay and western part of county. Damage to tobacco fields estimated at \$130,000 and corn \$105,000 A few farm animals killed by lightning. \$750,000 rain damage and \$5,000 lightning damage to property. Crop damage by rain.
MISSOURI Labadie, Franklin County	4-5								Rain and wind	Labadie and Fiddle Creeks flooded. 37 persons driven from homes by flood waters.
MASSACHUSETTS Central and Western portion NEW HAMPSHIRE and VERMONT Extreme south- ern portions		Midday - evening			0	0	4	3	Electrical, hail, wind, and tornadoes (suspected)	Brief but severe thundersqualls struck many scattered localities in area. Many reports of hail of marble size, with golf-ball size at Fitchburg, Mass., with loss of gardens and crops. Lightning and wind damage to trees and utility lines. 3 localities reported "baby twisters" with narrow severe damage paths. At Northampton, Mass., at 9:20 a.m., a 1-mile very narrow path of damage to trees and wires in southeast direction. At about 7:30 p.m., second one reported from Brattleboro, Vt., accompanied by wierd, yellow and red-colored sky, and hail, with extensive damage to trees and utilities in path to southeast. Near 8 p.m., third, 20-yard wide damage path in Leominster, Mass., with hail up to 1-1/2 to 2 inches in diameter. Path direction to southeast. No confirmation of funnel clouds or tornadoes received concerning these storms.
NORTH CAROLINA Cabarrus, Martin, Pas- quotank, and Wilson Counties	5	Afternoon -evening					4	4	Electrical, wind, and hail	Widespread heavy thunderstorms in connection with prefrontal squall line caused damage in several localities. Crop damage mostly from hail, property damage mostly to power and communications facilities by lightning and falling trees.

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Place	Date	Time	Length of miles	-	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
ARIZONA Nogales, Santa Cruz County	5	5 p.m.	5	2	3		3	1	Electrical, wind, rain, and hail	3 deaths and considerable property damage in Nogales and Sonora.
DELAWARE Fenwick Island Beach, Sussex County	5	5 p.m.			0	0	3		Tornado	Small tornado picked up jeep, carried it 50 feet; took small house off foundation; lifted small boat out of water and flung it about 200 feet against telephone pole.
DELAWARE Frankford, Roxana, and Fenwick Island, Sussex County	5	5 p.m.	10	100			4		Wind and hail	Winds up to 80 m.p.h., associated with thunder- storm and hail caused damage to barns, cottages, chicken houses, TV antennas, and trees. Storm moved southeastward.
SOUTH CAROLINA Cooper River, Charleston County	6	11 a.m.			0	0			Waterspout /	Small waterspout.
**TOMING Casper, Na- trona County	6	3 p.m.						1	Electrical	Lightning set afire oil storage tank, destroying over 10,000 barrels of oil and the tank.
CALIFORNIA Chowchilla and LeGrand areas and southeast of Copperopo- lis, Madera, Merced and Calaveras Counties	6	5:23-6:30 p.m.					5		Wind, elec- trical, rain, and hail	Thunderstorms over central Sierras and high local winds in some foothill areas. High wind gusts sweeping up Stanislaus River Canyon tore out false work and dropped center span of O'Byrnes Ferry Bridge under construction, damage estimated about \$75,000 by Secretary of Tri-Dam Project. Windstorm toppled trees up to 20 inches in diameter, accompanied by thunder, lightning, traces of rain and scattered hall, with some damage in orchards reported. At Legrand, heavy wind gusts lasted 5 to 10 minutes, uprooted trees and broke windows, gusts estimated above 80 m.p.h., by observer. Hail fell at Tahoe and Squaw Valley.
SORTH DAKOTA Cavalier County	6	6 p.m.		*14			4	6	Wind and hail	One of the most devastating hailstorms ever to hit area caused damage to grain, potatoes, and beets. Unusually large area. Hailstones larger than golf balls. Storm moved southeastward.
MINNESOTA Polk County	6	7 p.m.	16	*3					Hail	Damage reported in 5 townships ranging from 5 to 90 percent loss. Windows broken and siding damaged. Hail generally 1/4 inch in diameter with some up to 3-1/2 inches. Storm moved east-southeastward.
*EST VIRGINIA St. Marys and vicinity, Pleasants County	6	7 p.m.						1	Wind and rain	Trees uprooted, roofs and outbuildings damaged, antennas broken and bent, telephone and power services disrupted.
WINNESOTA Warren and wicinity, Warshall County	6	8 p.m.	30	*12		2	5	6	Hail and wind	Hailstones up to size of baseballs battered 12 townships. Crop damage up to 100 percent in some sections. Extensive damage at Warren to residences, business establishments, and automobiles estimated at \$200 per car. Storm moved southeastward.
MINNESOTA Red Lake Falls and vicinity, Red Lake County	6	8 p.m.	15	*3			4	5	Hail	Crops damaged over 45-square mile area. Hailstones 1 inch with some near 3 inches. Storm moved southeastward.
ARIZONA Sunnyslope, Maricopa County	6	Evening						1 .	Wind	Winds damaged roofs and aerials in residential section.
	6									Minor storms also reported at Lakeland and Sa- vannah, Ga.; at Uniontown and Winstead, Pa.; and at Paris, Tenn.
ARIZONA Tonto National Forest	6-7						5	1	Electrical	Lightning started fires that destroyed over 500 acres of fir trees.
WISCONSIN Wadison (north of), Dane County	7	12:36 p.m.			0	0			Funnel aloft	Funnel moved northeastward.
VERMONT Bristol, Addi- son County	7	2 p.m.	10	*1-1/2			1	4	Hail and wind	l-inch diameter hail covered ground up to 3 inches deep, destroyed gardens and crops, and shredded tree leaves. Storm moved eastward.

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Place	Date	Time	Length of p	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
WONTANA Utica (3 miles east of), Judith Basin County	7	Afternoon			0	0	2	1	Tornado	Small tornado destroyed machine shed.
NEW YORK Woodbourne, Sullivan County	7	Afternoon			1				Electrical and wind	High winds and severe lightning brought damage to wires and burned down barn. Man inspect- ing sparking wire killed when wire broke and struck him as it fell.
NEW YORK Mendon, Monroe County	7	Afternoon			1	2			Electrical	Family on picnic outing took shelter under tree which was struck by lightning; l child killed, father and baby injured, 5 other children and mother stunned but not hurt.
LLINOIS Sheldon, Iro- quois County	7	3:30 p.m.						5	Hail	Repeated hailstorms during 1-1/2 hour period affected 40-square mile area.
NEBRASKA Dundy County	7	5:30-7:30 p.m.	36	*18	0	1	5	4	Tornado, hail, and funnels aloft	Hailstones 3/8 to 1/2 inch in diameter. 5 funnels observed. Property damage by tornado, crop by hail. Storm moved eastward.
Callaway (north and northwest of),	7	6 p.m.	15	*2-4			3	5 .	Hail	Hailstones size of golf to baseballs, rough and jagged.
Custer County INDIANA Warren and Benton Counties	7	6:30 p.m.					3	5	Hail	Center of devastation from Freeland Park and southwest 5 miles. Another area of damage south and southwest of Boswell. Hail size of golf balls dented cars and broke some windows besides laying waste many fields of crops.
EBRASKA Trenton (near), Hitchcock County	7	8 p.m.			0	0	4	4	Hail, wind, and tornado (suspected)	Possibly with tornado. Property damage by wine crop by hail.
Waterville (10 miles north of), Le Sueur County	7	9 p.m.			0	0			Tornado (sus- pected) and wind	Funnel observed; winds to 60 m.p.h.
Clearwater to near Pender, Antelope to Thurston Counties	7	9-11 p.m.	90	*5-10			5	6	Hail and wind	Hailstones 3/4 to 2-1/2 inches in diameter most damage Wayne County. Storm moved eastward.
OWA Spencer (3 miles north and 1/2 mile west of), Clay County	7	9:40 p.m.			0	Ō			Funnel aloft	Funnel aloft moving eastward reported by farmer
INNESOTA Jackson County	7	10 p.m.	10	*1-2					Hail	Damage varied from light to nearly complete loss over 15-square mile area. Storm moved southeastward.
INNESOTA Ellendale, Steele County	7	11 p.m.			0	0			Funnel aloft	State Police reported funnel cloud.
OWA LeMars, Ply- mouth County	7	11:30 p.m.			0	0			Funnel aloft	Mayor of town reported seeing funnel cloud alof
EBRASKA Oxford and vi- cinity, Furnas County	7	Evening			0	0	3	2	Wind and tor- nado (sus- pected)	Possibly with tornado.
EBRASKA Boone County (south-central portion)	7	Night					1		Hail	Crops badly damaged.
	7									Minor storms also reported near Newfolden and Waseca, Minn.; at Benkelman, near Alma, Elm Creek, Hartington, and in Burt and Dodge Counties, Nebr.; at Durham, Lebanon, and Lyme, N. H.; at Seiling, Okla.; and at Necedah, Wis.
ICHIGAN Lower	7-8	Late ev- ening- morning			0	0	6	6	Rain, elec- trical, wind, hail and funnels aloft	Thunderstorms covered practically all of area, with heaviest rains, often measuring 4 to 6 inches, extending from interior of north-central counties southeastward to Detroit area.

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Place	Date	Time	Length of miles	ō	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
TICHIGAN (Cont'd.)										Flooding caused severe crop damage in areas of heavier rain, especially in Saginaw Valley, and heavy property damage, especially in Detroit area. Many streams went over their banks. Lightning set several fires and scattered wind damage reported. Heavy hail wiped out large area of fruit and field crops in Kalamazoo County. Funnels aloft reported on evening of 7th in Allegan and Kalamazoo Counties.
PENNSYLVANIA Rostraver Township, Westmoreland County	8	Midnight			0	0	4	1	Tornado	Winds which reached 100 m.p.h., at Donora Zinc Works Weather Station destroyed several small buildings in area and caused considerable damage to others. Storm moved eastward.
Buena Vista County to Wright County	8	1-2 a.m.	100	*40	0	0	4	1	Wind and funnel aloft	Damaged buildings and utilities. Citizen reported seeing a funnel cloud aloft. Storm moved eastward.
TOWA Winneshiek County to	8	1-3 a.m.					4	1	Wind and electrical	Damaged buildings and utilities. Storm moved eastward.
*ISCONSIN Southern half	8	3-4:30 a.m.			1		4	4	Wind, hail, rain, and electrical	High winds, hail, rain and lightning losses. Storm moved eastward.
WEBRASKA Hamilton County (north-	8	Early a.m.	201	Warrow	0	0	3	4	Wind or tor- nado (sus- pected)	Possible tornado. Ripe wheat shattered and stalks broken. Storm moved northeastward.
WEBRASKA Werrick County (western half)	8	9:30 a.m.					4	4	Wind	
	8									Minor storms also reported in Freeport, Lanark, and Marengo areas, Ill.; at Buckner and Owens-ville, Mo.; at Oil City, Pa.; and at Volga, S. Dak.
PENNSYLVANIA Southwestern counties	8-9	10 p.m 2 a.m.				1	°4	C	Electrical	Lightning fired several homes.
Shelton to Northern Polk County, Buffa- la to Polk County	8-9	Midnight - 2 a.m.	60	*5	0	0	5	2	Wind and tor- nado (sus- pected)	Probably with tornado. Storm moved east-north-eastward.
Elbert and Lincoln Counties	9	2-3:30 p.m.	2	1760			4	2	Hail	Hail pounded town of Simla, damaging roofs and buildings. Most hailstones 1/2 inch and a few 1 inch in diameter. Hail on ground averaged 5 to 8 inches in depth. In Lincoln County, near Hugo, local hailstorm did heavy damage to grain crops. Storm moved southeastward.
FLORIDA Jacksonville, Duval County	9	2:15 p.m.		20	0	0	2		Tornado	Cloud touched ground, visible 5 minutes.
COLORADO Otero County	9	Afternoon		1760					Rain, hail, and wind	Area around Rocky Ford and Swink had heavy crop losses due to heavy rain, hail, and wind. Near- ripe grain beaten into ground and garden vege- tables damaged severely. Damage spotty.
WEST VIRGINIA Williamson and wicinity, Mingo County	9	3-4 p.m.						1	Rain	Rain of near cloudburst intensity; roads washed out or covered with mud from slides; streets flooded where sewers inadequate; some disrup- tion of utility services.
WEST VIRGINIA Charleston and wicinity, Kanawha County	9	3:10-5 p.m.			1	6	4	1	Rain, wind, and elec- trical	Rain of cloudburst intensity flooded streets and basements trapping several automobiles in rapidly rising waters, weakened foundations, caused landslides which blocked traffic; landslide caused automobile accident in which 6 persons injured; man suffered fatal heart attack while attempting to plug basement drain; telephone and power services disrupted for some time; many electrical appliances in basements damaged by water; \$12,000 damage to candy and popcorn stocks of vending company; I residence damaged by lightning.
CONNECTICUT Bartford County	9	6-10 p.m.					2	1	Electrical and	Sudden downpour of rain between 6 and 7 p.m. netted 0.63 inches in 15 minutes at Hartford and 0.91 inches in 42 minutes at WBAS at Windsor Locks, 15 miles north of Hartford. Street

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Place	Date	Time	Length of miles	ò	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
ONNECTICUT (Cont'd.)										flooding hampered traffic at several points in Hartford. House struck by lightning in Granby, with minor fire damage in basement. Peak wind gust during storm of 37 m.p.h., observed at WBAS.
ENNESSEE Sumner and Robertson Counties	9	P.m.					1		Hail and electrical	6 head of cattle struck by lightning and killed in Clearview community, Sumner County. Hail caused heavy damage to tobacco crops in Oak Grove community, Sumner County and in eastern sections of Robertson County.
ENTUCKY Powell County	9				1	4			Electrical	Lightning killed man and knocked down several other persons.
	9									Minor storms also reported at Tucson, Ariz.; in Wallace County, Kans.; in Garrard County, Ky.; at Holyoke, Mass.; in Martin County, N.C.; and in Cookeville and vicinity, Tenn.
ISSOURI Macks Creek, Camden County	10	3:50 a.m.			0	0			Funnel aloft	
ALIFORNIA Daggett and Lenwood areas, San Bernardino County	10	12:26-1:47 p.m.						1	Rain and elec- trical	0.96 inch rain fell at Daggett between 12:26 and 1:47 p.m. with thunder from 12:58 to 1:47 p.m. Excessive rains also reported west of Lenwood on Highways 66 and 91, with resulting floodwaters covering highway with debris, momentarily halting traffic.
OUISIANA Burrwood, Plaquemines Parish	10	2:14 p.m.				0			Waterspouts	3 waterspouts observed west of station.
ONTANA Missoula, Missoula County	10	5:23 p.m.	2-5	*2-5			4	1	Wind	Fastest mile ever recorded at Missoula WBAS, 60 m.p.h., occurred during storm. On 12th, new Missoula record fastest mile, 72 m.p.h., set, but no damage from this storm. Storm moved north-northeastward.
ORTH DAKOTA Burke County	10	Evening					3	4	Hail	
OUTH CAROLINA Dale (near), Beaufort County	10				1				Electrical	
	10									Minor storms also reported at Powellton, Ill.; at Beloit, Topeka, Russell, and Sylvan Grove, Kans.; at Limestone and in Mars Hill Township, Maine; and at Proctor, Minn.
ISCONSIN Eastern Counties	11	1 p.m.					4	3	Wind, rain, electrical, and hail	Wind, flood, and lightning damages. Storm move eastward.
ISCONSIN Green Bay (5 miles south of), Brown County	11	1 p.m.			0	0			Funnel aloft	Funnel moved east-northeastward.
ISCONSIN Denmark, Brown County	11	1:30 p.m.			0	0	3	1	Tornado	Tornado moved east-northeastward.
CALIFORNIA Redlands and Big Bear Lake areas, San Bernardino County	11	1:45-2:15 p.m.			1	2		1	Rain and electrical	Intense local thunderstorm centered over Redlam dropped 0.90 inch of rain in less than 30 minutes, mostly in 15 minutes for greatest July daily and monthly amounts since records began in 1888. Heavy rain confined within city, out skirts had only traces. Resulting floodwaters drowned child in open, flood-control channel. Lightning started several forest fires in nearby mountain areas, sheared 50-foot treetop at Big Bear, smashing roof of cabin. Lightning also slightly burned woman and daughter in trailer park and interrupted radio and TV recention at Big Bear.
VISCONSIN Whitelaw, Mani- towoc County	11	2 p.m.			0	0	3	1	Tornado	Small tornado moved northeastward.
MICHIGAN Lower southern portion	11	Afternoon					5	6	Rain and wind	Heavy rainfall, up to 5 inches, caused severe c damage in Clinton County and sections of adjac counties. Some areas in southeast and east-central that had suffered flooding a few days earlier, received another 1 to 2 inches of rai Fowler, Clinton County, flooded, and many road streets, and basements flooded in heavy rain

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Place	Date	Time	o	of pa		70	Property		Character of storm	Remarks
1 1100			Length	Width of y	Killed	Injured	(exclusive of crops)	Crops	Or storm	
EIGAN Dot'd.)										area. Several streams rose above flood stage. Scattered wind damage reported in several areas of southern Lower Michigan.
DAKOTA and Forks Smiles west G Grand was County	11	3:56 p.m.			0	0	1	1	Tornado	Funnel apparently touched down several times.
DAKOTA	11	Late af- ternoon							Wind	Wind damaged barns and other buildings and a few barns blown down.
CAROLINA Estonhead (par), Beau- ert County	11	9 p.m.			0	0			Waterspout	Small waterspout apparently moved inland, no damage reported; moved northwestward.
Lauderdale		P.m.				1			Rain and electrical	l person injured by lightning.
aksonville,	11	P.m.					4		Electrical	Severe electrical storm; Weather Bureau counted 374 lightning strokes. Lightning-started fires caused estimated \$15,000 damages in city.
MAIDA Dami (18 Dies west of), Des County	11	P.m.			0	0			Funnel aloft	
ORADO and County	11				1				Electrical	Man killed by lightning while fishing on Granby Reservoir.
FFF DAKOTA Seridan Santy	11								Wind	Heavy damage to crops and farm buildings.
	11									Minor storm also reported near Montpelier, Vt.
MISONSIN MISON (South MISON (South MISON (SOUTH)	12	9:20 a.m.			0	0			Funnel aloft	Near Lake Waubesa. Funnel moved northeastward.
INOIS E. Carroll, Erroll Enty	12	9:30 a.m.					4	4	Rain and hail	Rainfall of 2.84 inches fell in slightly more than 1 hour. Crop damage by water and some hail.
CRASKA Kinson Ortheast of), Mit County		1 p.m.	Short	Narrov	0	0			Funnel aloft	
ath DAKOTA atheastern artion	12	Afternoon					2	4	Hail	Hailstones reached hens' egg size northeast of Bonesteel. Small areas of hail also near Stick- ney, Loomis, and south of Sioux Falls.
MONSIN Mison (8 Les south 6), Dane	12	4:02 p.m.			0	0			Funnel aloft	Funnel moved northeastward.
TH CAROLINA	12	4:30 p.m.						4	Hail	8 square miles damaged, mostly tobacco and corn.
OBASKA cand Island cortheast of)		5:30 p.m.	Sh ort	Narrow	0	0			Funnel aloft	
DRASKA ove County oxireme east- ra portion)		5:30-6 p.m.	4	•3			3	4	Hail	Hailstones 1-1/2 to 2-1/2 inches in diameter. Ground covered in center of storm. Storm moved southward.
cmaskA httook (32 ales north- ast of), contier anty	12	6:38 p.m.	Short	Narro	w 0	0			Tornado	Struck nothing of value.
OTANA Dwier, Bentor Dunty		7 p.m.					4	1	Electrical	Barn located 11 miles west and 1-f/2 miles north of Fowler struck by lightning and burned to ground.
CASKA Cox County Central and Stern portion		7-8 p.m.	20	•1-1/	2		3	4	Hail	Hailstones 3/4 to 2 inches in diameter. Storm moved southeastward.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
INDIANA Cedar Lake Airport, Lake County	12	8-9 p.m.	200	25	0	0	5	1	Tornado	Small tornado destroyed hangar, 70 x 100 feet, and damaged 7 small aircraft. Tornado moved northward.
NEBRASKA North Platte (5 miles north of), Lincoln County	12	8:50 p.m.	Short	Narrow	0	0			Funnels aloft	2 funnels aloft reported.
INDIANA Lake County	12	Evening					°5	C	Wind, rain, and elec- trical	Severe thunderstorms raked county. High winds blew down trees, and damaged buildings. Light ing and resulting fire damaged warehouse, some buildings, and electric lines. Several inches of rain flooded streets and houses. 300 families evacuated from homes. \$50,000 damage by wind, \$120,000 by lightning, and \$30,000 by rain.
MICHIGAN Armada, Macomb County	12	Evening					4	1	Electrical	Lightning struck chimney of high school, rippin off section which dropped through roof.
	12									Minor storms also reported at Clinton and West Union, Iowa; and near Atkinson, Nebr.
ILLINOIS Estreme north- eastern por- tion	12-13	Night			4		7		Rain	Chicago had second major flash flood in less than 3 years. Rainfall amounts comparable to October 1954 storm, but occurred in shorter period. For second time in history, locks at Lake Michigan opened to permit reverse flow of water into Lake Michigan from Chicago river Total damages lighter than in October 1954 storm because of better control measures and drier soil condition to start with. Chicago and Joliet areas had 5 to 8 inches of rain whi peak rain totals 7 to 10 inches in Kankakee area. All transportation paralyzed. Midway Airport out of service for approximately 24 hours. Crop losses heavy, but impossible to estimate. Record high water observed on lower Kankakee River and on Illinois River at Marseille.
INDIANA Tippecanoe County	13	Early morning					4	1	Wind	Severe thunderstorm caused minor damage by blow ing down trees and knocking out electric servi in local areas temporarily.
MINNESOTA Lake Kabeto- gama area, St. Louis County	13	Early a.m.				3	1	1	Electrical and wind	Lightning struck tree, injuring 3 nearby camper Strong winds damaged boats and docks, uprooted trees, and downed powerlines.
LOUISIANA New Orleans, Orleans Parish	13	12:50 p.m.		4	0	0	2	1	Waterspout	Waterspout on Bayou St. John at Mirabeau moved onto land and tore felt roofing off house unde construction, then dissipated.
IDAHO Nezperce (north of), Lewis County	13	4 p.m.	6	*2-1/2					Electrical, wind, and hail	Peas, barley, clover, and grass seed fields complete loss in hail path. Clover and peas especially beaten into ground. Summer fallow badly gullied and silt carried onto highways and roads. Maximum hail depth 3 inches, with some hail still on ground next morning. Average diameter of stones 1/2 inch. Storm moved northward.
MONTANA Kalispell, Flathead County	13	5 p.m.				1	1	1	Electrical	Woman injured by lightning strike.
DREGON Scattered over northern half	13	Late af- ternoon -evening	200	*100			3	4	Electrical and wind	Major force of storm in central and east-central although high winds blew over and scattered so 350 tents at church camp near Portland. Numer ous power interruptions, several brush and grass fires due to lightning. Approximately 1,100 acres of grass and brush land burnt over in 1 fire along southeastern border. Some western and considerable central hay and grain lodged, some partly harvested seed crops scattered beyond recovery. Lightning damage \$15,000, wind \$9,000.
MINNESOTA Sibley County	13	6 p.m.	10	2000			°5	С	Hail	Damage to crops, buildings, and livestock. Sto moved eastward.
NEBRASKA Chappell (northeast of), Deuel County	13	6:30 p.m.	3	880			2	•	Hail	

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Place	Date	Time	Length of p	Width of pe	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
alls by theastern	13	7:30-8 p.m.	8	*2-4			2	5	Hail	Hailstones 1/2 to 1 inch in diameter. Storm moved southeastward.
ols ingfield,	13	7:40 p.m.					5		Wind	Severe thundersqualls caused widespread light damage to trees, utility lines, and structures. 2500 insurance damage claims filed.
ral City sth of), rick County		10-11:30 p.m.	10	1760			4	4	Hail and wind	Hailstones 1/2 inch in diameter. Wind damage \$6,000 to property, \$16,000 to crops; hail damage \$5,000 to property, \$9,000 to crops. Storm moved eastward.
folk (5 les south Madison	13	Night	Short	880			2	4	Hail	
NGTON Bogan, Lan, and	13								Electrical	Lightning damaged several residences and set fires on 2 farms near Pullman. Several forest fires started in northern Cascade Mountains.
tties	13									Minor storms also reported in Harrison and Mar- shall Counties, Iowa; at Goodland, Kans.; at St. Paul, Minn.; near Deshler and in southwest- ern Clay County, northern Deuel County, southern Garden County, and northeastern Webster County, Nebr.; and at Grant, Okla.
ADO dd County othern	13-14	Afternoon					1		Rain and hail	Heavy rain and hail both days, which damaged ripening grain and other crops.
twois tral and thern tions	13-14	Night							Electrical	During thunderstorms of night and also on follow- ing day there was an unusual amount of damaging lightning activity reported from many scattered points. Damage usually light, except when farm barns struck.
DAKOTA Cock Hills	14	12:40-4 p.m.			0	0	4		Tornado, rain, hail, and funnels aloft	Tornado struck wooded area near Rochford 5 times shortly after 12:40 p.m. At least 2 other funnels did not reach ground. Heavy localized rains caused minor flooding at Spearfish and Rapid City.
YORK toon Falls, thington maty	14	1:30-3 p.m.	3 to						Wind, hail, and rain	Severe thunderstorms with heavy rains, strong winds, and some hail caused damage, including falling trees, roofs, etc. No estimates of damage available but County Agent reports 60 to 70 percent damage in apple orchard, but size is not included in report. Total damage likely in neighborhood of \$10,000 to property. Storm moved southward.
ASKA Minson (11 Mes north i 2 miles st of), Holt		1:37 p.m.	Short	Narrow	0	0			Funnel aloft	
HAMPSHIRE ath area, rafton County		2 p.m.	4-6	•2			4	3	Wind, hail, and elec- trical	Hail covered ground up to 3 inches deep and stones up to 1 inch in diameter. Crops ruined. Severe wind damage to building, trees, and utilities in small section of Bath and also in Upper Bath. Trees felled to east in Upper Bath, but to southwest in Bath. Storm said to be a twister by some, but no funnel seen.
MASKA Edney (near),		2-5 p.m.	6	*2			2	4	Hail	Hailstones 1/2 to 1-1/2 inches in diameter. Storm moved eastward.
TANA THE Benton Highwood The, Chouteau	14	2:30 p.m.	10	•1-3			1	5	Hail and wind	\$30,000 damage by wind, \$100,000 by hail.
PARA Dif Point, Desevelt		2:30 p.m.					1	2	Wind, hail, and rain	Wind speed observed at 67 m.p.h., at Wolf Point Airport.
TANA mifred, myus County	14	3 р.в.	16	•3			1	•	Hail and wind	Hail about size of peas. Strong wind accompanied atorm. Storm moved eastward.

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Place	Date	Time	Length of path miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
XW YORK Keeseville, Elizabethtown, and Essex, Essex County	14	3:45-4:30 p.m.	10	9-1/2			5	5	Wind, hail, and elec- trical	Violent electrical storm (with some unconfirmed tornadic reports) hit area during late afternoom Average size of hail reported as 2 inches with some to 3 inches (size of baseballs and some reported too large to fit tea cup). Severe hail damage to orchards ruined crop this year, next year, and possibly following year due to damage not only to fruit and leaves but even severe bark damage in places. Much damage to glass, roofs, and automobiles from both hail and falling trees and limbs. Elizabeth, Keeseville, and Essex areas without power or telephone services for several hours and in some cases until next day. Storm moved southeastward.
LLINOIS Nashville, Washington County	14	Afternoon					4		Electrical	Oil storage tanks struck by lightning.
INNESOTA Minneapolis- St. Paul, Hennepin and	14	Afternoon					4	1	Electrical	Several homes and business establishments struck by lightning. Loss at 1 home \$10,000, power substation \$30,000.
Ramsey Counties										
ONTANA Coffee Creek and Denton area, Fergus County	14	Afternoon	30	*1			1	5	Hail	
YOMING Alva (near), Crook County	14	Afternoon					1	4	Hail	
ERMÓNT Central portice		4 р.ш.	10	*2-1/2	2	3	3	3	Hail, wind, and elec- trical	Hail in Charlotte area up to 2-1/2 inches in diameter broke windows, damaged many roofs and automobiles, and stripped vegetation and trees; covered ground from 1 to 3 inches deep. Larger hail flat with scalloped edges. Lightning slightly injured 3 persons at Bristol. Trees and wires downed at Randolph and some gardens flooded. White River Junction area also hit; tree and utility lines downed. Storm moved eastward.
OAHO Cottonwood and Camas Prairie, Idaho County	14	5 p.m.							Rain, hail, and wind	Many grain fields badly lodged by torrential rain and high wind. Extensive damage to barley and pea crops, ranging up to 70 percent on some farms. Winter wheat damage in storm track estimated at 10 to 15 percent.
NDIANA Batesville (10 miles southwest of), Ripley County		5:51 p.m.			0	0			Funnel aloft	Airline pilot observed funnel cloud aloft moving southeastward.
ONTANA Circle, Brock- way, Watkins, and Vida areas, McCone County		6 p.m.					3	5	Hail and rain	About \$500 damage from rain to real and personal property.
ENTUCKY Jefferson County	14	6:15 p.m.			0	0			Funnel aloft	Funnel cloud reported by pilot near Ohio River, northeast of Bowman field in Louisville.
OUTH DAKOTA ale, Butte County	14	7:30 p.m.			0	1	3	3	Tornado and hail	Woman bruised by flying objects. Shed and granary destroyed.
ONTANA Richland County		8 p.m.					1	4	Hail and rain	Hail hit scattered areas throughout county. Sta
ASHINGTON Western portion and Cascades	14								Electrical, rain, and hail	Lightning and heavy rainfall caused numerous power and communication outages in west. Sever forest fires started by lightning in Cascades. Light hail reported in a few of orchard areas of Chelan and Okanogan Counties.
	14									Minor storms also reported at Albion, Skowhegan, and Waterville, Maine; at Monett, Washington, and West Plains, Mo.; near Roy and at Thompson Falls, Mont.; in southeastern Holt County and at Schuyler, Nebr.; at Claremont, Hanover, and Lebanon, N. H.; and in Sampson County, N. C.
ISSOURI Mercer County	15	1:30 a.m.							Rain and electrical	Precipitation 1.5 to over 4 inches. Lightning killed several animals, destroyed haystacks, and barn.

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Place	Date	Time	Length of p	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
OWA Shelby, Cass, and Adair Counties	15	1:30 a.m.					4	1	Electrical	Burned 3 homes 2 business establishments.
MAINE Aroostook County	15	Midday					3	2	Rain	Washing and flooding rains in some sections of northern Aroostook County. Limestone hit for second time within week. Soil loss from erosion, road washouts, and damage to flooded cellars resulted. Flash flood inundated first floor of old Post Office building at Limestone
RIZONA Wickenburg (near), Mari- copa County	15	2:30 p.m.			0	0		1	Dust devil	Dust devil unroofed ranch house.
NORTH CAROLINA Craven, Duplin, Lenoir, Robe- son, Wilson, and Catawba Counties	15	Afternoon					4	5	Hail, wind, and elec- trical	Widespread thunderstorms in connection with approaching front caused hail in several sections of east, damaging tobacco and other crops.  Heavy windstorm with some hail hit Newton, Catawba County, blowing down trees, damaging roofs and powerlines. Lightning fires also in Newton.
SOUTH DAKOTA Tyndall, Bon Homme County	15	4:15 p.m.				1	3		Electrical	Lightning strike rendered occupant of house un- conscious for short period. House ignited.
EBRASKA Chadron (7 miles east of), Dawes County	15	Late af- ternoon			1		1	1	Electrical	Farmer struck by lightning and killed while wor ing on tractor.
LORIDA Miami, Dade County	15	8 p.m.			0	0			Tornado (sus- pected)	
COTTH DAKOTA Corson and Walworth Counties	15	9-10:30 p.m.			0	0	3	4	Funnel cloud, hail, and electrical	Funnel cloud seen northeast of Mclaughlin. Crodamage caused by hail, other by lightning fire
INNESOTA Southern portion	15	P.m.							Rain and elec- trical	Heavy rains flooded business establishments and homes in Paynesville and washed out sections of trunk highway and railroad right of way. Light ning-started fire destroyed barn, granary, and machine shed near Austin. Minor crop damage due to flash flooding of small streams.
TENNESSEE Bells, Crockett County	15	P.m.			1	1			Electrical	Lightning struck and killed 16-year old boy playing baseball. Second boy slightly injured
	15									Minor storms also reported near Mobile, Talla- ssee, Titus, and Wetumpka, Ala.; at Cleveland, Ga.; in Howard County, Iowa; at Poplar Bluff, Mo.; and in Covington and vicinity, Tenn.
LLINOIS Central portion	16	1p.m.				2	4		Electrical	Several strikes north of Lincoln. Other lightning or minor wind damage reported from a dozen communities extending from Kewanee to Decatur.
ORTH DAKOTA Williston (15 miles north- west of), Williams County	16	4:34 p.m.			0	0			Tornado	Funnel seen.
Williston, Williams County	16	5:10 p.m.							Hail	Hailstones 1 inch in diameter.
ONTANA Rock Springs, Rosebud County	16	6 р.т.	10- 15	*2-3			1		Hai l	Considerable crop damage. Storm moved northeas ward.
ORTH DAKOTA Mandan (25 miles northwest of), Oliver County	16	6 p.m.					4	4	Hail, wind, and rain	Heavy hail and windstorm in 25 mile area. Town of Center suffered heavy loss from hail, wind, and heavy rain.
ONTANA Hanover, Fergus County	16	7:30 p.m.	10				1		Hail	Storm moved northeastward. Heavy crop damage.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
NORTH DAKOTA Wing (2 miles north of), Burleigh County	16	8 p.m.			0	0	3	1	Tornado	Damaged or destroyed several small sheds.
NORTH DAKOTA Bismarck (25 miles north of), Burleigh County	16	9 p.m.	100		0	0	4	4	Hail, Wind, and tornado (suspected)	5 barns blown down; powerlines and telephone lines downed.
NORTH DAKOTA Stutsman and Griggs Counties	16	9 p.m.					5	4	Wind and hail	2-1/2 story brick and block building damaged be- yond repair; covered large area. Many farm buildings destroyed and trees uprooted; much damage in Cooperstown; other property damage.
SOUTH DAKOTA Martin (17 miles south- west of), Ben- nett County	16	9 p.m.					4		Electrical	Barn burned following lightning strike.
NORTH DAKOTA Walum (near), Griggs County	16	9:45 p.m.			0	0	4	3	Tornado	House sucked up and dropped again, with heavy damage. Several barns, garages, and granary destroyed.
FLORIDA Dade City, Pasco County	16	P.m.			1				Electrical	l person killed by lightning.
MAINE Central and eastern portions	16	P.m.					3	1	Electrical and rain	Widely scattered areas hit, Hancock and Somerset Counties especially, where cloudburst rains fell. Some power failures from lightning strike
ARIZONA Florence, Val- ley Farms, Pinal County	16	Evening					4	1	Wind and rain	Strong winds unroofed a number of houses and farm buildings; rain damaged interiors. Storm moved northward.
NORTH DAKOTA Kidder County	16	Evening					4	4	Wind and hail	Farm buildings damaged; 40 farms damaged.
	16	7								Minor storms also reported near Lafayette and at Opelika, Ala.; at Whitesburg, Ga.; at East Prairie and Montrose, Mo.; at Cartersville, Kolin, and Rosebud, Mont.; and at Westhope, N. Dak.
NORTH DAKOTA McClusky (north of), Sheridan County	16-17	Night					4	4	Wind	Severe windstorm both evenings.
INDIANA White County	17	Early morning		•			4	1	Rain	Up to 6 inches of rain in a few hours fell in triangle area of Monticello, Monon, and Brookston. Flood gates opened on Oakdale Dam, lower of dams on long-and-slender Shafer-Freeman Lake, and there was some flooding down river. Several cottages flooded, causing evacuation of about 50 persons. Streets and basements flooded in northwestern Monticello.
INDIANA Frankfort (southeast of), Clinton County	17	Early morning					4	1	Electrical	Lightning struck barn which burned to ground. 58 pigs and 2 calves also lost. Minor damage by lightning occurred to a few other buildings in community.
FLORIDA Key West, Monroe County	17	5:50 a.m.			0	0	3		Waterspout	Spout moved inland to city causing minor damages to buildings and shrubbery.
ARIZONA Phoenix, Mari- copa County	17	Morning				1	3	1	Electrical and rain	Most damage caused by lightning fires and flood- ing in residential section.
TENNESSEE Knoxville, Knox County	17	2:30-4:30 p.m.			2	2	5	1	Electrical, wind, and rain	Woman and ll-year old girl struck by lightning and killed while gathering in clothes. 2 men received minor injuries from lightning. Lightning caused \$100,000 lumber mill fire, extensive damage to home, and several minor fires. Wind blew out large plate-glass window. Rain flooded basement of machine company, causing extensive damage to stored patterns. Storm moved southeastward.
DELAWARE Wilmington, New Castle County	17	Afternoon			0	0	3		Dust devil	Dust devil tore much of roof off home and pulled some shingles off neighboring house, knocked over TV aerial, and blew clothes off clothes lines. Unusual whirlwind appeared suddenly on otherwise calm and sunny afternoon in which temperatures rose to 86°.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
NORTH CAROLINA Guilford, Johnston, Nash, Ruther- ford, and Wil- son Counties	17	Afternoon -evening					4	5	Electrical, hail, wind, and rain	Same front that approached on 15th continued over North Carolina, causing more heavy thunderstorms over wide area. Wind and lightning damage to property, hail damage to crops, mostly tobacco. Also some local flash floods.
DAHO Pocatello, Bannock County	17	5 p.m.							Electrical, wind, rain, and hail	Some grain crops in area flattened by hail. In Pocatello, lightning bolt disrupted electric service, burned out one-half the lights along Miracle Mile. Streets and underpasses flooded from 5 to 6 p.m.
ORTH DAKOTA Oliver County	17	6 p.m.					4	4	Hail and wind	Large hailstones.
NORTH DAKOTA Dickinson, Stark County	17	6:14 p.m.					5	4	Wind, rain, and hail	1/4-inch diameter hail; wind 45 m.p.h., with gusts to 80 m.p.h. Severe damage to buildings at radar base; l airplane destroyed and l badly damaged; trees uprooted.
NORTH DAKOTA Washburn and Turtle Lake (near), McLean County	17	8-9 p.m.					4	4	Wind and hail	Barns blown down, other buildings damaged, and trees uprooted.
TENNESSEE Odd Fellows Hall Community, Giles County		9:30 p.m.						0	Wind, rain, and elec- trical	Lightning ignited barn containing 1000 bales of hay, burning it to ground. Several trees blown down.
KENTUCKY Western por- tion	17	P.m.			•	2	4		Wind and electrical	Wind-felled trees damaged powerlines. TV antens torn loose from houses. Tree fell across car, causing 2 injuries. Home damaged by falling tree. Lightning struck barn, destroying barn and its contents.
AASSACHUSETTS Eastern portion	17	P.m.			0	0	1	1	Dust devils	Picked up dirt and tore leaves from trees at Medfield at 1:45 p.m. 2 others seen at Rocklan at 2:25 p.m., no damage. Height "as tall as tree tops".
TENNESSEE Athens, McMinn County		P.m.				1			Electrical	Woman mill worker suffered broken hip in connection with severe bolt of lightning.
COLORADO Alamosa and Conejos Counties	17	Night							Rain and flood	Cloudburst above Terrace Reservoir Dam filled i beyond capacity which caused it to start crumbling. Several hundred residents left their homes for higher ground. Dam held, but suffer unestimated amount of damage.
	17									Minor storms also reported at Dadeville, Selma, Six Mile, and Tuscaloosa, and in Luverne, Musc Shoals, and Tri-Cities areas, Ala.; at Tucson, Ariz.; at Central City, Colo.; at Marietta and in Carroll and Floyd Counties, Ga.; and at Mile Tenn.
FLORIDA St. Petersburg Pinellas County		9:28 a.m.			0	0			Waterspout	
FLORIDA Hollywood, Dade County	18	9:55 a.m.			0	0			Funnel aloft	
COLORADO Colorado Springs, El Paso County	18	Morning				1	3		Rain	Heavy showers in northeastern portion did heavy damage from flooding to streets, homes, and other property; \$3,000 damage estimate on curbing. 3-year old boy washed 306 feet down a street, suffering broken pelvis and numerous bruises.
ALABAMA Birmingham, Jefferson County	18	Afternoon			1	1	2	1	Electrical	Chimney of house in Wylam section hit, knocking man unconscious in kitchen. Man died of heart attack when lightning hit about 200 yards away
COLORADO Monte Vista (10 miles southeast of), Rio Grande County	18	Afternoon				1			Electrical	Man injured by lightning bolt, while on tractor working in field.
COLORADO Fleming and Daily areas, Logan County	18	Afternoon		•	•				Rain and hail	Heavy rain and hail damaged crops. Hail fell f about 20 minutes, some of golf-ball size. Sto moved eastward.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
IISSOURI Chadwick, Christian County	18	3:30 p.m.					4		Electrical, wind, and rain	Church damaged by lightning.
KEBRASKA Kimball, Kimball County	18	6:05 p.m.						1	Hail	C45 plane incurred moderate damage while in ai
ASSACHUSETTS Eastern por- tion	18				0	0	1	1	Dust devils	Dust devil at North Andover in midmorning, wit no damage reported, was 2 yards wide and tree top height. Dust devil at Marlboro at 1 p.m. lifted shelter house and carried it 20 feet with but little damage.
	18									Minor storms also reported at Mobile, Ala.; at Tuckerman, Ark.; near Montrose, Colo.; at Pittsburg, Kans.; at Poplar Bluff, Mo.; near Scottsbluff, Nebr.; at Nashville, Tenn.; and at Torrington, Wyo.
ONTANA Benchland, Judith Basin County	19	12:30 p.m.	. 5	*1			1	4	Hail	Barley and wheat damaged, 16 to 48 percent ove 5-square mile area. Storm moved eastward.
EBRASKA Duncan, Platte County	19	1:30 p.m.	Short	Narrow	0	0	3	2	Tornado	
Odessa (north of), Buffalo County	19	3-3:10 p.m.	1-1/2	1760			1	4	Hail	Hailstones rather small. Storm moved southwar
ONTANA Bozeman vicin- ity, Gallatin County	19	3:30 p.m.	20	+3			1	4	Hail	50 percent damage to grain and 90 percent dama to peas on some farms. Hailstones up to 1/2 inch in diameter. Storm moved eastward.
INNESOTA Albert Lea (5 miles south of), Freeborn County	19	Afternoon			0	0			Tornado	Funnel cloud touched ground in field.
ONTANA Dillon (east of), Beaver- head County	19	Afternoon					1	4	Hail	Damage mostly to wheat.
Castle Dale area, Emery County	19	Afternoon					3		Rain	Heavy rainstorm caused flooding of low-lying farms, washed out roads, and did some damage crops.
OWA Sioux County	19	4 p.m.	2	*2			1	4	Hail	Destroyed crops in 4-square mile area.
Wells (2-1/2 miles north-east of), Ottawa County	19	4-5 p.m.					4		Electrical	Modern 8 room farmhome struck by lightning and completely burned.
OUISIANA Monroe, Ouachita Parish	19	5 p.m.				2	3	2	Wind	Thunderstorm with winds to 60 m.p.h., struck north side of town, blew down utility poles, putting large section in darkness, caused aut mobile crash, injuring 1 person and smashed windows injuring another.
MEBRASKA Aurora (south- west of), Ham- ilton County	19	5-6 p.m.	12	*2-3	0	0	4	5	Tornado and hail	3 funnels touched ground. Hailstones 3/8 to 1 inch in diameter. Tornado damage \$12,000 to property, \$20,000 to crops; hail damage \$175,000 to crops. Storm moved northward.
EXAS Beaumont (near), Jef- ferson County	19	6 p.m.			1		1	1	Electrical	Man working on farm killed by lightning.
KLAHOMA Clinton (northwest of), Custer County	19	7:40 p.m.	2	880					Wind, rain, and hail	Severe winds blowing from varying directions uroofed and damaged buildings on several farmsteads in small area. Crops flattened and so damaged by flying debris. Peach orchard destroyed.
ARKANSAS Malvern, Hot Spring County	19	8 p.m.					6		Electrical	Lumberyard and lumber processing plant destroy by fire set by lightning.

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Place	Date	Time	Length of path, miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
NEBRASKA North Platte (1 mile west of), Lincoln County	19	9:05 p.m.	Short	Narro	0	0			Funnel aloft	
OKLAHOMA Panama, Le- Flore County	19	9:15 p.m.						. 1	Wind and electrical	Strong winds damaged roofs, trees, and TV antennas. Lightning caused estimated \$1,000 damage to 1 home, killed 10 head of cattle valued at \$1,000, and caused fire which completely burned another home and contents.
MINNESOTA Southern portion	19	P.m.							Rain, electric- al, and wind	Strong winds demolished farm buildings, flattene grain, and downed powerlines in Douglas County. St. Cloud WBAS reported 64-m.p.h., winds. Flooded basements and damaged streets reported in St. Paul and Hastings. Hastings home damaged by fire due to lightning strike.
SOUTH DAKOTA Union County	19	Night						4	Hail	Losses occurred southeast of Alcaster and also near Elk Point.
ALABAMA Dothan (near), Houston County	19					1	2	1	Electrical	Tree hit, man about 25 feet away on a porch knocked unconscious. Cow about 40 feet from tree killed.
	19									Minor storms also reported near Lamar, Colo.; near Harlem and at Windham, Mont.; near Atkin- son, Aurora, Giltner, Hastings, Madison, Odessa, Sutherland, Wallace, and Wood River, Nebr.; and at Rattan, Okla.
KANSAS Barton County	20	1:50 p.m.					4		Wind	Severe wind squall with some evidence of tornadi violence struck farmstead 1-1/2 miles northwest of Great Bend, damaging several buildings. Large storage building near northwest city limits also damaged. 2 cars blown from road and 8-foot concrete wall levelled.
ARIZONA Tucson, Pima County	20	2:30 p.m	1		(	0	3	1	Dust devil	Dust devil moving eastward severely damaged home and furnishings.
KANSAS Cheyenne and Sherman Counties	20	Afternoon	1						Wind, hail, and elec- trical	Wind damaged buildings over northern Sherman and southern Cheyenne Counties. Near county line, high winds and hail damaged wheat 30 percent and many other fields flattened by wind and rain. 2 large telephone cables in Goodland put out of service by lightning.
MISSOURI St. Joseph, Buchanan County	20	Afternoon	0			1			Electrical	Man hit by lightning, temporarily paralyzed.
KANSAS Geary County	20	3 р.т.				2			Wind and dust	Locally severe winds carried a great deal of dust. Storm struck in downtown Junction City where large front display windows exploded, and momentarily doors could not be opened against suction. Glass and other such solid debris strewn for more than 1/2 block. No funnel cloud actually observed.
MONTANA Raymond, Sheridan County	20	3 p.m.	1	0 *8	•		3	5	Hail and wind	Hailstones up to 1 inch in diameter. Wind up to 60 m.p.h., during storm. Storm moved eastward
WYOMING Fort Laramie (11 miles north-northwest of), Goshen County	20	4 p.m.				0 0			Tornado	Over open country and on ground for very brief period; moved southeastward.
OKLAHOMA Healdton, Carter County	20	P.m.				0 0		1	Tornado (sus- pected)	Tore garage off house, blew side out of bathroo and moved house short distance off its foundation. Outbuildings also damaged.
	20							*		Minor storms also reported at Lamar, Colo.; at Luray, Rans.; near Crab Orchard, Paxton, and Sidney, Nebr.; at El Reno and Medicine Park, Okla.; near Blooming Grove, Tex.; and in Emery County, Utah.
OREGON Scattered over much of State		Afternoo of 2 da		00 20	00		3		Electrical	Series of lightning strikes touched off well over 100 fires in grass and forest lands. Pratically all small and brought under control immediately, although about 2,900 acres of Burea of Land Management experimental range land burned over in Malheur County. Power and telephone services interrupted over fairly widespread areas at several places and a few head of cattle killed by lightning.

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Place	Date	Time	Length of p	Width of payards	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
Scobey Vicini- ty, Daniels	20 and 22							2	Hail and rain	Crop damage mostly to barley. Windows broken and roofs damaged in Scobey. Second storm in same area on 22d. Rains from 2 storms of more benefit than hail damage.
County OWA Decatur County	21	11 a.m.			0	0			Tornado (sus- pected)	Unconfirmed report received from CAA station.
ICHIGAN Lake Huron area	21	Afternoon			1		4	1	Wind and elec- trical	Strong winds downed many trees and caused scattered property damage at several localities between Alpena and Thumb area. Lightning also struck several homes. Boy drowned near Port Austin when his sailboat capsized by strong winds.
EBRASKA Duncan (3 to 4 miles south of), Platte County	21	3 p.m.	Short	Narrow	0	0			Funnel aloft	Not known to have touched ground.
IISCONSIN Sheboygan, Sheboygan	21	3 p.m.				1	3	4	Wind	Storm moved eastward.
County MISSOURI Saline, Mercer County	21	3:30 p.m.			0	0			Tornado (sus- pected)	Some freakish damage such as screen pulled off of frames suggest tornadic action. Several buildings destroyed or severely damaged.
IOWA	21	6:30 p.m			0	0			Funnels aloft	Funnels aloft reported by public.
Jasper County  KANSAS Edwards County	21	6:50 p.m			0	C			Tornado and funnel aloft	2 funnel clouds reported about 10 miles northwest of Kinsley, 1 touched ground but other remained aloft. Little or no damage resulted. Funnels visible only a few minutes.
MONTANA Between Tur- ner and Loring Blaine and Phillips		7 p.m.	3	0 *4-1/	2		1	5	Hail	Storm began in Canada. Ground covered up to 1 inch depth with hail. Hailstones up to 1 inch in diameter. Storm moved southeastward.
FLORIDA St. Petersburg Pinellas	21	P.m.					1		Electrical	1 person injured by lightning bolt.
UTAH Sevier County	21								Hail	Hail 1/4 to 1/2 inch in diameter in Central and Richfield farming areas did extensive damage to crops. Losses ranged from 50 to 100 percent in some areas.
	21									Minor storms also reported at Dinnehotso, Ariz. at Grand View, Idaho; in Black Hawk County, Iowa; at Winfield, Kans.; at Gilman City, Mo.; at McAlester and Waurika, Okla.; in Kress and Plainview areas, Tex.; and at Spanish Fork, Utal
KANSAS Pratt County	2:	2 1-2:30 a.m.				1			Electrical	2 houses about 2 blocks apart struck by lighthing about same time. Man injured slightly at 1 house. At the other, shingles torn from roof and some timbers in upper portion of house split. A number of rural telephone lines out of service for a while.
OKLAHOMA Friendship, Jackson	2	2 7:30 a.	m .					1	Wind, rain, and elec- trical	Strong winds damaged outbuildings, TV antennas, and utilities. Storm moved northeastward.
MICHIGAN Lower souther portion		2 Day					•	5	Rain	Scattered heavy rains caused flooding in severa localities, particularly in Flint area. Wheat and bean crops harmed and wheat harvest delayed in some areas.
MASSACHUSETTS Westfield, Hampden Coun		3 p.m.		2 3	100	0	3 4	1	Dust devil, wind, rain, and elec- trical	Severe thunderstorm preceded by whirling column of dust and debris which twisted many branches from trees. Tree fell against home, another onto automobile, injuring 1 person. Many wires downed. Other injuries in automobile accident, due to storm. Storm moved southeastward.
CONNECTICUT Western and central por- tions		3 to 4 p.m.				1	1 3	1	Electrical and wind	Lightning killed boy walking across open field in Manchester. 1 of 2 companions knocked unconscious, but recovered. Third youth unhurt Sudden wind of estimated gale force leveled 1 large tent and 9 smaller ones at Southbury fair grounds. Considerable wind damage to trand powerlines in nearby towns of Newton, Bethel, and New Milford. Power and telephone disrupted for about 1 hour to over 50 percent users.

			path,	path,	Number of person		Estimated by cate		Character	
Place	Date	Time	Length of path, miles	Width of y	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
ONTANA Plentywood and Antelope area, Sheridan County		4 p.m.	15	1,000			1	5	Hail and rain	\$1,000 property damage from flooded basements. Storm moved northeastward.
NEW YORK Hudson Valley	22	Late af- ternoon							Wind, rain, hail, and electrical	Thunderstorms brought some hail and heavy rains to scattered areas. Hail reported in Spencertown, Kinderhook, and Steward Field. No estimate of crop or property damage made, but it is likely less than \$10,000 in each category and possible in combined total.
Galata, Toole County	22	5:30 p.m.	15- 20	*1-3			1	4	Hail	Hailstones 1/2 to 3/4 inch in diameter. Storm moved east-northeastward.
Richland and Shelby Counties	22	6:30 p.m.			1				Electrical	Man struck by lightning at Dundas about same time as 2 lightning-struck barns burned near Cowden.
MASSACHUSETTS Central and eastern portions	22	P.m.					4	1	Electrical, wind, and rain	Locally severe thunderstorms, with high winds struck numerous communities. Trees and wires felled and some lightning damage in Worcester, West Brookfield, Palmer, Ware, Monson, Southbridge, Dudley, Middleboro, Segreganset, and Easton. Hail also in some areas, but little damage. Short duration intense rains caused a few road washouts.
COLORADO Colorado Springs, El Paso County	22	Night							Electrical	Heavy electrical storm over city caused much dam age. Lightning struck 2 homes, setting 1 afire and damaging the other.
INDIANA Wichigan City, La Porte County	22				1		0	0	Electrical	Man killed by lightning while mowing grass along highway.
	22									Minor storms also reported in Tule Lake Basin, Calif.; at Wallace, Idaho; at Fulton, Kans.; at Hartshorne, Okla.; and at Mount Pleasant, Tex.
MISSOURI Sikeston (7 miles south of), Scott County	23	11:25 a.m.			0	0			Funnel aloft	Moved northeastward.
LOWISIANA Lake Charles (10 miles west of), Calcasieu Parish	23	2 p.m.			0	0			Funnel aloft	Observed for about 5 minutes; did not touch ground; 10 miles west of Lake Charles.
COLORADO Eastern portion	23	Afternoon	•		0	0			Funnels aloft and thunder- storms	Several funnel clouds observed, one 25 miles eas northeast of Denver, and several others in vi- cinity of Kennesburg, Roggen, and Nunn. Thun- derstorms in Denver, Colorado Springs, and other points caused flooding and some damage to powerlines and telephones.
Richland and Dawson Counties	23	Afternoon					1		Hail	Some sections reported 50 percent hail damage in Savage area. Also damage reported around Glendive.
SORTH CAROLINA Alamance, Lee, Lenoir, and *ayne Counties	23	Afternoon -night					4	4	Electrical, wind, and rain	Roofs and buildings destroyed and damaged by wind and lightning. Storm drains overloaded by downpours. Crop damage more than compen- sated by beneficial effects of rain.
UTAH Duchesne County		4 p.m.					4		Electrical	Church building destroyed after lightning strike
ARKANSAS  Jacksonville,  Pulaski County	23	6:10 p.m.				1	1	1	Electrical	Man injured when lightning fired heavy dynamite charge that he was setting.
MONTANA Comertown and Westby areas, Sheridan County	23	7 p.m.	15	880			3	4	Hail	About 20 percent damage to crops. Hailstones up to 1 inch. Storm hit or miss over area; moved southeastward.
	23									Minor storms also reported at Charleston and Ca Girardeau, Mo.; in southern Wibaux County, Mon at Bristol, Tenn.; and at New Ulm, Tex.

			path,	ath,		aber rsons	Estimate by cate	d damage gories t		
Place	Date	Time	Length of p miles	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
EXAS Between Ralls and Lorenzo, Crosby County	24	12:30 p.m.			0	0			Funnel aloft	Funnel reported moving northwestward.
COLORADO Walsenburg (northwest of), Huerfano County	24	Afternoon							Rain	Violent rain and hailstorm washed out railroad bridge, a stretch of mine tracking, and sent streams of water 8 inches deep over highway.
Crockston (near), Cherry County	24	3:05 p.m.	Short	Narrow	G	0			Funnel aloft	
WEBRASKA Valentine (15 miles north- east of), Cherry County	24	3:07 p.m.	Short	Narrow	0	0			Funnel aloft	
WEBRASKA Valentine (10 miles west of), Cherry County	24	3:27	Short	Narrow	0	0			Funnel aloft	
HISSISSIPPI Biloxi (12 miles south of), Harrison County	24	6 p.m.			0	0			Waterspout	Observed over Mississippi Sound moving southeas ward.
FLORIDA West Palm Beach, Palm Beach County	24	P.m.			0	0			Waterspout	
FLORIDA Key West Monroe County	24	P.m.			0	0			Funnel aloft	
TENNESSEE Sinking Springs community, Anderson County		P.m.				1			Electrical	Woman received minor injuries from lightning which struck tree in yard and ran into house.
	24									Minor storms also reported in Beaufort County, N. C.; near McIntosh, S. Dak.; and at Price, Utah.
COLORADO Lamar area, Prowers County	25	After midnight							Rain	From 2-1/2 to 5 inches of rain fell in about 2 hours, putting irrigation ditches out of their banks and inundating hundreds of acres of farmlands.
OKLAHOMA Newcastle (5 miles south- west of), Mc- Clain County	25	12:38 p.m.			0	0			Funnel aloft	Telephone company reported funnel aloft moving northwestward.
COLORADO Franktown area, Elbert County		1:18 p.m.			0	0			Funnels aloft	Pilots reported 2 funnel clouds. First funnel extended to within 1,000 feet of ground.
FLORIDA Miami (5 miles west of air- port) Dade County	25	1:50 p.m.			0	0			Funnel aloft	
FLORIDA Key West, Monroe County	25	4 p.m.			0	0			Waterspout	
FLORIDA Key West, Monroe County	25	7:15 p.m.			0	0			Funnel aloft	
FLORIDA McClenny, Baker County		P.m.			2	1			Electrical	Lightning killed 2 workers, injured another.
FLORIDA St. Petersburg, Pinellas County		P.m.				1			Electrical	Lightning struck person walking on beach.
FLORIDA Orlando (15 miles northwest of airport) Orange County		P.m.			0	0		- 351	Funnel aloft	

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			path,	ath,	Number of persons		Estimated damage by categories †		- a	
Place	Date	Time	Length of path miles	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
FLORIDA Tampa, Hills- borough County	25	P.m.					5		Electrical and rain	Lightning-set fire caused damages estimated at \$100,000 as livestock market burned.
ARIZONA Safford and Thatcher, Graham County	26	Morning					5	5	Rain	Heavy rains caused flooding of homes, stores, and farm lands. Storm moved northwestward.
COLORADO Washington, Lincoln, and Yuma Counties	26	3:23 -6:40 p.m.							Hail and rain	Heavy rain and hail covered large area in Washington, Lincoln, and Yuma Counties. 5-1/2 inches of rain with intermittent hail reported in Akron vicinity. Damage reported as major.
ASSACHUSETTS southeastern portion	26	P.m.					3		Rain	Washing and flooding rains in several towns, in cluding Middleboro and Lakeville, caused sever serious road washouts and many small ones. Much flooding of cellars.
CONNECTICUT Eastern portion	26	Early evening							Electrical and hail	Scattered thunderstorms moving across State concentrated their fury at Danielson at about 7 p.m. Rainfall totaling 1.5 inches in less tha 30 minutes accompanied by golf-ball-size hail. Streets and nearby basements flooded to 4-foot depth forced evacuation of family from low-level apartment and abandonment of several stalled automobiles. Hail damage confined to small gardens and shrubbery as unmelted stones remained after 24 hours. Scattered but light wind damage to powerlines. Storm moved eastward.
RHODE ISLAND South-central portion	26	Early evening							Electrical and rain	Storm concentrated in Warwick-East Greenwich areas. Rainfall amounts highly variable within distances of a few miles. Streets flooded in Crompton and only trace of rain at Fiskeville, 3 miles north; Quonset Naval Station received 3.10 inches and WBAS 10 miles north measured 0.26 inches. Heavy downpours washed out sever sidewalks and roads, flooded dairy plant, and stalled cars at heavy traffic points. Lightning struck 2 houses, barn, police radio antenna, and scattered powerlines. Telephones out to 2,500 users from Warwick southward to North Kingstown. Storm moved eastward.
NEBRASKA Atkinson (southwest of) Holt County	26	Night						1	Electrical	Barn struck and burned.
COLORADO San Juan Basin	26								Rain	Week of rain in San Juan Basin caused flood of Animas and Florida Rivers, Junction and Valle- cito Creeks, and others. Heavy damage to road bridges, and other property and farmlands re- ported.
	26							•		Minor storms also reported at Bethany, Mo.; and at Las Vegas, Nev.
OREGON Scattered, largely in northeast quadrant	26-27	After- noons of 2 days	150	*100	0		4	4	Electrical	State again dotted at many points by fires, resulting from 2 days of frequent and widespread lightning. Several forest fires started in Blue Mountains, but little or no timber lost. Additional 1,500 acres of Bureau of Land Management range land burnt over, also several hundred acres of private grass land and some grain fields. At least 2 homes destroyed.
SOUTH DAKOTA Sioux Falls and Delmont, Douglas and Minnehaha Counties	27	3-6 a.m.							Electrical	At 3 a.m., minor lightning and fire damage to residence at Delmont. At 5:45 a.m., lightning believed to have started fire which totally destroyed Sioux Falls grandstand insured for \$40,000. Loss considered to be much higher.
MISSOURI Chillicothe, Livingston County	27	5:05 a.m.	•						Rain and electrical	Precipitation varied in vicinity from 1-1/2 to 3-1/2 inches. 2 houses destroyed by lightning Considerable local flooding.
MASSACHUSETTS Martha's Vineyard	27	Noon					3	1	Rain and hail	Washing and flooding rains struck Tisbury, Oak Bluffs, and Vineyard Haven. Small amount of hail fell.
LOUISIANA Lake Charles (5 miles south of), Calcasieu Parish	27	3 р.ш.			0	0			Funnel aloft	

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Place	Date	Time	Length of p	Width of p	Killed	Injured	Property (exclusive of crops)	Ctops	Character of storm	Remarks
VEW JERSEY Union County (north-central portion)	27	Afternoon			2				Electrical	2 boys killed when struck by bolt of lightning while playing in woods near their home in Roselle Park.
ORTH DAKOTA Mountrail County	27	Afternoon					4	1	Wind	2 grainaries completely wrecked.
EW YORK Central portion	27	Afternoon -evening						5	Wind and hail	Slashing hail and wind accompanied thunderstorms destroying some crops with usual other damages. Heaviest activity in eastern Wayne and northern Cayuga Counties and in Addison-Bath sections of south-central counties.
WORTH DAKOTA Wells County	27	7 p.m.			0	0			Funnel aloft	Funnel sighted 3 miles west of weather station.
ASSACHUSETTS Townsend, Middlesex County	27	P.m.					3	3	Rain, wind, and hail	Considerable local damage from flooding and washing rains. Trees damaged by wind. Wind and hail flattened garden crops.
HAMLINE Hamlin, Aroostook County	27	P.m.						4	Hail, rain, and wind	Hail, size of walnuts piled in drifts up to 2-1/2 feet high in fields, ruined fields of oats, peas, and potatoes.
	27									Minor storms also reported at Lawson and Tipton,
OWA Des Moines, Polk County	28	8 a.m.			1		1	1	Wind	Man killed by high tension line felled by tree limb as it was blown down.
PENNSYLVANIA Southeastern counties	28	A.mp.m.					3	1	Wind and rain	Widespread thunderstorms caused only minor damage. Near Philadelphia, winds toppled large tent and several trees, while near Allentown 5-inch downpour flooded streets and house basements.
SOUTH DAKOTA Custer State Park	28	1-2 p.m.					4	4	Hail, rain	Heavy rain caused local flooding. Hailstones which reached golfball size, accumulated 2 fee deep on level and up to 4 feet in drifts. Small animals including several hundred rabbits killed. Most destruction in area south of Hermosa, measuring 10 miles long and 5 miles wide.
EW JERSEY Camden and Burlington Counties	28	Midaf- ternoon					4		Wind, rain, and elec- trical	Wind blew down tent of summer theater, also ble down trees and disabled power- and communications lines. Driving rain flooded some street and highways, stalling traffic. Lightning set fire to 1 home and tore hole in roof of anothe Damage by wind \$15,000, by rain \$8,000, and by lightning \$2,000. Storm moved northeastward.
MARYLAND Charlotte Hall, St. Mary County	28	2:30-4:15 p.m.	4	*2					Hail	Hail damage to tobacco. Hailstones from 1/2 to 1 inch in diameter fell in area 8 to 10 square miles. Storm moved southeastward.
MARYLAND Glen Burnie, Anne Arundel County	28	Afternoon				1	4		Electrical and hail	Violent thunderstorm accompanied by destructive fire damage to 2 homes and minor damage to others within period of 1 hour. Hail up to 1/2 inch in diameter reported. Man standing in doorway of his home knocked halfway across living room by bolt of lightning which struck tree in his front yard. He was taken to hospit for treatment but was released shortly afterway
SOUTH DAKOTA Perkins, Corson, Potter, Edmunds, and McPherson Counties	28	Afternoon						5	Hail	Hailstones reached walnut size.
ARYLAND Baltimore County	28	4-5 p.m.					•		Electrical and wind	Violent thunderstorms touched off several major fires and brought extensive wind damage to Baltimore County. Lightning started blaze which severely damaged country mansion near Monkton. \$6,600-chicken house near Baldwin and barn near Monkton destroyed. Strong winds toppled trees north of Cockeysville and knocked out over 600 telephones. Storm put additional 150 phones out of commission in Dundalk and Essex district
OWA Southeastern portion	28	Evening					4	3	Rain	Heavy rain damaged buildings and crops and killed livestock.

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			path,	Width of path, yards	Number of persons		Estimated by categ	damage cories t		
Place	Date	Time	Length of miles		Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
GOUTH DAKOTA Greenwood, Charles Mix County	28	Evening			0	0			Funnel aloft	No details given in press report.
DAHO Pocatello, Bannock County	28								Rain, hail, and elec- trical	Flooded streets in Pocatello and did some damage to crops in the area.
	28									Minor storms also reported at Tucson, Ariz.; a Atlanta and Wellsville, Mo.; and in Union County, N. J.
ISSOURI St. Charles, St. Charles County	29	2 a.m.							Rain	Precipitation totaled 4.59 inches caused local flooding.
ISSOURI Farmington, St. Francois County	29	3:55-7:53 a.m.			0	0			Funnels aloft	2 funnels reported by pilot of DC-7 at 1,900 feet over Farmington; moved southward.
ONNECTICUT Litchfield, Hartford, and Middlesex Counties	29	8 to 11 a.m.					4	1	Electrical and rain	Lightning-caused fire destroyed home in Avon f estimated loss of \$15,000. I house each stru- in Middletown and East Hampton and barn in We Hartford, with little or no fire damage. Lig- ning felled large tree onto house in New Milf causing extensive damage to I side. Road was out and streets flooded in and southeast of Hartford. Storm moved southeastward.
OWA Montrose, Lee County	29	A.m.					4	1	Electrical	Burned dairy barn and contents.
LORIDA Miami (east of), Dade County	29	Noon			0	0			Waterspouts	4 waterspouts seen.
DAHO Pocatello, Bannock County	29	1:30 p.m.							Rain and elec- trical	Several streets and 2 subways partly flooded. Lightning damaged powerlines, 400 telephones affected. Crop damage slight.
ISSOURI Salem, Dent County	29	3:30 p.m.					3	3	Rain and hail	Wind gusts to 50 m.p.h. Hail 1/4 inch in diameter.
OWA Fairfield, Jefferson County	29	6 p.m.	10	*10			4	1	Wind	Damaged buildings and utilities. Storm moved southeastward.
ISSOURI Rolla area, Phelps County	29	6:15 p.m.			0	0			Tornado (sus- pected) and wind	Twister reported to have swooped down upon riv bank along Country Club area at Nagogami Lodg near Rolla. Several boats and cabin roofs damaged.
ENNSYLVANIA Hanover, York County	29	9:15 p.m.					4	1	Electrical	Barn fired by lightning.
OUTH DAKOTA Bison (near), Perkins County	29	Evening				1			Electrical	Man injured when lightning struck windmill and trailer which were wired together.
OLORADO Morgan County	29								Rain and hail	Hail damaged 774 acres of sugar beets in Wigg: area. Heavy rain, hail, and wind laid corn and damaged grain.
IASSACHUSETTS, IEW HAMPSHIRE, and southwest- ern MAINE	29				1		5	1	Electrical	Lightning inflicted losses at many widely scattered localities over area. Minor damage to power and phone facilities. Much damage from fires. \$250,000 loss to factory at East Freetown, Mass.; \$7,000 loss in Franklin and Boscawen, N. H., area; \$5,000 loss at Milforn N.H., and many small losses. I death in Hilboro, N. H., in automobile accident blamed of thunderstorm.
	29									Minor storms also reported at Vandalia, Mo.; Scranton, Pa.; and near Plainview, Tex.
ARKANSAS Pulaski, Lonoke, Jefferson, Prairie, White, Jack- son and Clay Counties		Late ev- ening- early morning							Wind, elec- trical, hail, and rain	Widespread thunderstorm activity. Wind damage to homes, outbuildings, signs, TV antennas, trees. Some scattered lightning damage. Harreported in Clay County.

			path,	path,		rsons	Estimated by cates		Character	
Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
FLORIDA Daytona Beach Volusia County	30	Early af- ternoon			0	0	3		Waterspout	Moved northeastward along Halifax River.
COLORADO Yuma (south of), Yuma County	30	Afternoon			0	0			Tornado	Small tornado tore down buildings, windmills, and house; moved eastward.
PENNSYLVANIA Western and eastern sec- tions	30	Afternoon				1	°4	С	Hail and elec- trical	Damage by hail \$1,000 in southwestern counties. Lightning struck several homes and barns, but caused only minor damage.
Clear Lake, (3 miles east of), Deuel County	30	Late af- ternoon							Wind and hail	Strong northeast wind wrecked large barn and killed 133 chickens.
NEW YORK Lower Adiron- dacks and Rudson Valley area	30	Late af- ternoon- evening			3			6	Wind, rain, hail, and electrical	During afternoon and evening severe thunderstorms brought scattered areas of hail, 1/2 to 1-1/2 inches in diameter, strong, local winds and severe lightning to scattered areas of eastern New York from southern Adirondacks southward
										through mid-Hudson Valley. Hail reported in numerous areas from lower Adirondacks southward through Dutchess County. Power- and communica- tion lines downed in several areas. Lightning killed 3 persons north of Glens Falls.
TEXAS Trent (near), Taylor County	30	9 p.m.			0	0			Funnel aloft	
PENNSYLVANIA Scranton area, Lackawanna County	30	10:30 p.m.					4	1	Electrical	Several barns fired by lightning.
MASSACHUSETTS, NEW HAMPSHIRE, and VERMONT	30	P.m.				3	5	1	Electrical	Lightning caused damage at widely scattered point over area. Boy slightly injured at East Corintl Vt., and 2 women severely burned in Burlington, Mass., by lightning. Lightning inflicted heavy damage to power- and phone lines. Power substation at Scituate, Mass., heavily damaged. \$35,000 loss from fire at barn of Leominster, Mass., City Infirmary. Cottage at Wellfleet, Mass., struck 6 times by bolts.
COLORADO Lincoln, El- bert, Douglas, El Paso, and Arapahoe Counties	30								Rain	Rain up to 2-1/2 inches fell in watershed of Kiowa and Cherry Creek. Some damage to roads, culverts, and bridges. Due to Kiowa Flood Control Project and Cherry Creek Dam, damage held to minimum. Colorado Springs reported \$5,000 damage to streets and alleys in north- eastern portion.
MONTANA Hill County (northern portion)	30						1	3	Rain, wind, and hail	Military unit operating in area reported 140 m.p.h., wind. Storm lasted 45 minutes. Some hail. Storm moved east-northeastward.
	30									Minor storms also reported between Santa Maria and Zaco substation, Calif.; at Hamden, Conn.; at West Plains, Mo.; in Snyder area, Tex.; and in Mingo County, W. Va.
ARIZONA Phoenix, Mari- copa County	31	Afternoon			1		1	1	Heat	Man died of heat prostration.
NEW JERSEY Clementon Borough, Camden County	31	3:10-4 p.m.	400	300		3			Wind, rain, and elec- trical	Isolated thunderstorm struck Clementon Borough at 3:10 p.m. E.D.T. Winds estimated to have reached 75 m.p.h., or higher in gusts. Large portions of roofs blown off motion picture theater, bank, warehouse, and 3 other buildings in business block. Plate-glass windows blown out of 3 business establishments. Front of arcade in amusement park blown down, and 2 cashiers' booths in same park blown over. Several large trees uprooted. I tree upset tool house, as tree roots came up from ground. Lightning struck I large tree, top of which fell on private residence. Heavy rain damaged interior of unroofed buildings and buildings with windows blown out. Damage by rain also in private home: Eyewitnesses say that rain driven almost horizontally across interior of some rooms before windows closed. 3 persons injured in amusement park by flying debris. I home struck by lightning, with minor damage by fire as a result.

Place			path,	path,	Number of persons		Estimated by cate	damage cories t		
	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
YOMING Auburn (north of), Lincoln County	31	3:15-3:30 p.m.	3	*1			2	5	Hail	Crop destruction complete. Storm moved northeas ward.
Monmouth County,(east- ern portion)	31	Late af- ternoon					4		Wind, rain, and elec- trical	Trees and utility poles blown down. Electrical substation and 2 homes struck by lightning. Heavy rains flooded streets, highways, and some storm sewers. Wind damage \$3,000, rain \$1,000, and lightning \$6,000.
OWA Dubuque County	31	5:30 p.m.					5	1	Wind and rain	Damaged homes, highways, and utilities.
CONNECTICUT Western and central por- tions	31	Early p.m.					4	5	Electrical, hail, and wind	Thunderstorms caused scattered but considerable property and crop damage from New Canaan northeast to Windsor. About 75 acres of Tobacco, corn, and truck crops sustained heavy to total damage in Windsor-South Windsor area. Loss estimated at \$75,000. 2 dairy barns and contents destroyed by lightning-caused fires. 2 curing barns in Windsor struck, endangering some 60 workers. About 12 homes hit, but fire damage slight. Lightning and fire damage set
										at \$2,000 to homes and \$6,000 to barns. Wide- spread but localized power failures lasted from 1 to 4 hours in affected area. Storm moved eastward.
MAINE, MASSA- CHUSETTS, NEW HAMPSHIRE, and VERMONT	31	P.m.			5	1	5	4	Electrical, wind, rain, hail.	Severe thunderstorms hit many spots in widely scattered areas. Said to be worst storm in ove 50 years at Springfield, Mass., where \$25,000 damage from flooding rain resulted and in Hull, Mass., where 45 homes struck by lightning. Estimated 200 buildings struck in Massachusetts and many in northern New England. Man thrown 10 feet by lightning bolt at Quincy, Mass. 1 killed at South Weymouth, Mass., in automobile accident blamed on storm and 4 killed in airplane crash at Brownington, Vt., believed to be caused by thunderstorm. \$62,000 fire loss to barn and livestock at Middlebury, Vt., from lightning. \$5,000 loss to barn from wind at Hamlin, Maine, with some crop damage. Hail in many places, 1-inch size reported at Haverhill, Mass., with largest crop loss at Rumford, Maine Hail loss estimated at \$5,000. Utility lines hin many areas, with 2,000 homes without power in Nashua-Hudson, N. H., section. Trees and limbs felled in many communities. Severe lightning damage to electrical appliances in homes, said to be of unprecedented extent in some localities.

<sup>\*</sup> Miles instead of yards.

\*\* Yards instead of miles.

Includes crop damage.

C Crop damage.

\*\* Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than \$50
2 \$50 to \$500
3 \$500 to \$5,000
4 \$5,000 to \$50,000
5 \$50,000 to \$500,000
6 \$500,000 to \$500,000
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# **AUGUST**

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			of path,	f path,	Number of persons		Estimated damage by categories †			
Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
NORTH CAROLINA Forsyth, Guil- ford, and Stokes Coun- ties		1 p.m.						5	Hail	Several hundred acres of tobacco destroyed in fields by heavy fall of marble-sized hailstones.
VIRGINIA Moorefield area, Patrick County	1	1 p.m.	10	3520			1	4	Hail	Hail literally covered ground; size averaged 1/2 inch, with largest exceeding 1 inch. To-bacco plants were main target, stripping stalks. About 50 farmers affected. Storm moved eastward.
TEXAS Baytown (10 miles east- northeast of), Harris County	1	2 p.m.			0	0			Waterspout	Moved northeastward.
FLORIDA Pierson, Vo- lusia County	1	4 p.m.			1				Electrical	
NORTH DAKOTA Towner, Cava- lier, Ward, and Rolette Counties		5-7 p.m			0	0	4	4	Funnel aloft, hail, wind, and rain	Funnel cloud observed at Bisbee. Considerable hail loss occurred and wind demolished some granaries and barns, uprooted trees, and blew away swaths of cut grain. Heavy rain also caused damage, flooding basements in Rolla. Storm moved southeastward.
MINNESOTA West-central portion	1	7 p.m.			0	0	5	6	Hail, rain, and funnels aloft	Severe damage reported in 13 counties. Heaviest in Lac qui Parle County where 4 funnel clouds sighted. Crop damage light to complete loss, with hail as large as 1-1/2 inches in diameter. Many barns downed, also airport hangar at Montevideo. Trees uprooted and utilities interrupted. Storm moved southeastward.
MONTANA Worden, Yel- lowstone County		7 p.m.	10	*3			3	5	Hail	Average diameter of hailstones 3/4 inch, largest stones 2 inches in diameter. Storm moved eastward.
SOUTH DAKOTA Buffalo to Hutchinson Counties	1	7-10 p.i	32 .				4	4	Electrical, wind, and hail	Most hail losses from 5 miles south of Gann- valley to Parkston. Lightning killed livestock on 5 farms. Wind destroyed barn and buildings near Gannvalley. Storm moved southeastward.
	1									Minor storms also reported at Lincoln, Ill.; and near Wilmot, S. Dak.
SOUTH DAKOTA Harding and Perkins Counties	2	1-2 a.m	. 100	*4-6					Hail	Storm started near Ralph and moved just north of South Grand River. Crops and grass pounded into ground, giving prairie appearance of having been plowed. Sheep and lambs bruised, crippled, and killed. Hide stripped from backs of cattle and horses. Rabbits and birds strewed about on fields.  In Bison, hundreds of windows broken. Sides and roofs of buildings battered. Hens'-egg-sized stones dented cars, broke windshields, and wrecked exposed radiators. Storm moved east-southeastward.
NEBRASKA Tekamah (8 miles north- east of), Burt County	2	6 a.m.	Short	Narrow	0	0	3	1	Tornado (sus- pected)	Storm moved northeastward.
NEBRASKA Lyons (north of), Burt County	2	A.m.					3	3	Tornado (sus- pected), hail, and wind	Property damage by wind, crop by hail.
ILLINOIS Waukegan and Chicago, Cook and Lake Counties	2	2:30 p.m	1.				4		Wind	Local thundersqualls damaged trees and over- head wires in southern portion of Waukegan and parts of Chicago. Wind gusts to 65 m.p.h., on Chicago lake front. Many sailboats upset.
KANSAS Cheyenne County	2	3-4:30 p.m.							Wind and hail	Farmstead northeast of St. Francis suffered minor damages from wind, 2 buildings moved off their foundations, and numerous articles turned over. Neighboring areas unaffected by local wind. Numerous spots of hail caused minor damage over central and eastern parts of County. Storm moved westward.
NEBRASKA Stromsburg (south of), Polk County	2	4 p.m.			0	0	2	3	Funnel aloft, hail, and wind	Tornado funnel observed, but did not touch ground.
INDIANA Edinburg (south of), Bartholomew County	2	4:50 p.n	1.			5	4	1	Wind and electrical	5 homes damaged and skating rink tent and barn near Camp Atterbury blown down by severe winds of thunderstorm. \$12,000 property damage by wind, \$2,000 by lightning.

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Place	Date	Time	Length of p	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
NEBRASKA York (1 mile west of), York County	2	5:30 p.m.					4	1	Electrical	Dairy barn struck and burned, with feed and equipment. Cows saved.
EBRASKA Chapman (east of), Merrick County	2	Late af- ternoon	20	*15			3	4	Wind	Widespread light damage. Corn blown down. Storm moved eastward.
YOMING Cheyenne, Laramie County	2	8 p.m.	20	*5			6	3	Hail	Most to automobiles and homes, although there was also sizeable loss from broken neon signs and large windows in business district. Reliable reports received of hailstones to at least 3 inches in diameter and these reports were borne out by examples of hail making ho in car roofs and windshields as well as hous roofs. Very little crop damage occurred with this storm since it was over almost no cropland. Storm moved southeastward.
	2									Minor storms also reported near Blue Ridge and at Rensselaer, Ind.; near Geneva, Lorenzo, Loup City, Osceola, O'Neill, and Stockville, and at Wakefield and in York County, Nebr.; and at Gage, Okla.
COLORADO Loveland, Larimer County	2-3	Before midnight							Hail, Rain, and wind	Flash thunderstorm, lasting about 20 minutes, did much damage to crops, especially sugar beets, cherries, and grain. 2 to 4 inches o hail fell. Storm accompanied by winds up to 75 m.p.h. Many trees blown down, hitting how and cars. Power out and many roofs and wind damaged. Storm moved southwestward
LLINOIS Extreme north- ern portion	3	10:30 a.m.				1	6		Wind, rain, and elec- trical	Southward moving cold front caused heavy show and lightning and wind damage in narrow band extending from Morrison eastward through Rochelle, and Aurora to Chicago. Heavy damage to county fair tents at Aurora; 3.50 inches rain in 15 minutes at Morrison; basements an underpasses flooded at Chicago.
KANSAS Fort Scott area, Rourbon County	3	12:25 p.m.							Electrical	Lightning struck tree and house in southeaste Ft. Scott. Limb fell on back porch and wiri and appliances in house damaged.
INDIANA Elkhart and St. Joseph Counties	3	1-5 p.m.					3	1	Wind, electrical, and rain	Lightning damaged home in Roseland and baseme of home near South Bend. Wind blew over con crete-block wall in Elkhart, also numerous trees and antennas. At South Bend Airport, wind reached 70 m.p.h., in gusts at 2:25 p.m Rainfall 1.81 inches in 150 minutes; 1.55 inches fell in 30 minutes. \$2,500 property damage by wind, \$500 by lightning.
INDIANA Cedar Lake, Lake County	3	1:30 p.m.			2	2	1	1	Electrical	2 golfers killed and 2 injured as they sought shelter under tree during thunderstorm.
Lower south- central por- tion	3	3-5 p.m.					4	4	Wind, electrical, and hail	High winds caused scattered damage lightning- fires destroyed 2 barns. Hail damaged crops in a few areas. Affected area extended from Kalamazoo and St. Joseph Counties eastward through Jackson and Hillsdale Counties.
LORIDA Miami Springs, Dade County	3	Afternoon							Wind and electrical	Winds estimated at 70 m.p.h. blew down trees, toppled TV antennas, and caused other minor damages.
INDIANA Whiting, Lake County	3	4 p.m.					5	1	Wind	High winds blew down at least 50 trees, damag 4 garages and 3 automobiles. Residents with electricity or water for 3 hours after gusts hit and had to boil water because of danger of pollution.
MISSOURI Pleasant Hill, Cass County	3	4:30-5:30 p.m.							Rain and wind	4.40 inches of rain fell in less than 1 hour. Local flooding. Trees and barns blown down 1 farm.
COLORADO Eastern portion	3	Afternoon -evening							Hail and rain	Series of thunderstorms from Weld County to Pueblo County, caused heavy damage to crops, roads, and bridges. Area east of Colorado Springs received from 3 to 4 inches of rain, causing floods which washed away bridges and damaged roads. In Weld County, hail battere crops. At Brighton and vicinity and west of Colorado Springs, hailstones 3/4 to 1 inch fell. \$100,000 crop damage in Weld County.

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Place	Date	Time	Length of miles	Widthoff	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
ILLINOIS South-central portion	3	Afternoon -evening				4	5		Wind, rain, and elec- trical	During afternoon and early evening, numerous thunderstorms caused scattered wind damage, heavy local showers, and lightning damage at scattered locations from Danville-Lincoln-LaHarpe line southward to Flora and Marissa. County fair grounds damaged at Jacksonville. Storms especially active in St. Clair County.
INDIANA Columbus, Bartholomew County	3	7 p.m.			0	0			Funnel aloft	Funnel cloud reported east of Columbus and moving eastward.
VERMONT Southern portion, and MASSACHUSETTS, Northwestern portion	3	9 p.m midnight					4	3	Wind	In area from Rutland, Vt., to Greenfield, Mass., most severe in Windham County, Vt., winds toppled trees, blocking roads and breaking power- and phone lines. Falling trees damaged house at West Dummerston, flattened barn at Stratton, and caused 2 automobile crashes at Rutland, Vt. Twisting and rotary motion observed in trees in Brattleboro, Vt., vicinity. No rain fell. Several woodsfires set by faller wires were fanned by winds.
MISSOURI St. Louis	3	Evening			1				Electrical and rain	Golfer killed when hit by lightning.
MISSOURI Cape Girar- deau, Cape Girardeau County	3	Evening				2			Wind and rain	Large tent badly damaged and several large trees blown over.
MISSOURI Dexter, Stoddar County	3 d	Night					5		Electrical and rain	Lightning set grain elevator on fire.
PENNSYLVANIA Northwestern counties	3	Night				1	4	1	Electrical and wind	Several homes and barns partially destroyed by fire, resulting from lightning strikes and trees downed by accompanying high winds. Store moved southeastward.
ALABAMA Abernant, Tuscaloosa County	3					3	3	1	Electrical	Lightning hit room in which 5 children were playing. 2 children burned considerably and hospitalized, with 1 knocked unconscious. Another home in area hit, and woman suffered facial burns.
ALABAMA Mobile, Mobile County	3					1	1	1	Electrical	At Mobile Yacht Club, man knocked from sailboat by lightning. Hair singed from arms and chest but otherwise unhurt.
MISSOURI Hannibal area, Marion County	3								Rain	3.00 inches of rain in 2 hours along Bear Creek caused flooding in and near Hannibal. Many homes and businesses damaged.
TEXAS Lipscomb County	3				0	0			Funnel aloft	Observed moving north-northeastward.
	3									Minor storms also reported at Charleston, Ark.; near Marion, Kans.; at Centralia, Lanes Prairie, Mapaville, and St. James, Mo.; near Springview, Nebr.; and at Buena Vista, Tex.
NEW YORK Central and eastern portions	3-4	Afternoon 3d - morning 4th			2				Wind, rain, electrical, and hail	Series of violent thunderstorms, with heavy rain swept through area as cold front and squall lines moved eastward. Up to 7 inches of rain near Syracuse caused flash flooding which resulted in 2 deaths (1 man swept over dam and boy swept into overflowing creek). 2 lightning strikes on power stations disrupted electric power over 14-county area from wester Catskills to eastern southern tier of counties northward to Utica area. Damage estimated at \$300,000 in Oneida and Madison Counties alone, with equal damage in several other counties. Lightning strike on lumberyard at Rotterdam (near Schenectady) caused fire with \$1/2 millio estimated damage. Many trees downed and uncoccupied house blown apart. Some areas of hair reported. In Richford-Center Lisle area, considerable wind damage - Binghamton WBAS investigated possibility of tornadic activity which was not confirmed. Usual crop damage from wind but no estimate of money value available.
MICHIGAN South Haven (7 miles north of), Allegan County	4	9:25 a.m.			0	o			Waterspout	but no estimate of money value available.  Waterspout in Lake Michigan dissipated upon reaching land.

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Place	Date	Time	Length of path, miles	Width of y	Killed	Injured	Property (exclusive of crops)	Ciops	of storm	Remarks
MICHIGAN Saginaw (15 miles north- east of), Bay County	4	10;50 a.m.			0	0			Waterspout	Waterspout in Saginaw Bay dissipated upon reaching land.
RHODE ISLAND Newport County	4	Late a.m.					3	1	Electrical and rain	Moderately heavy rain and lightning damage centered in southeastern part of State. Pump houses at 2 Newport reservoirs struck by lightning in late morning. Switch boards and large pump motor badly damaged. 2 houses struck in late afternoon in Middletown area, with minor structural damage resulting. Rainfall up to 1.50 inches caused some street washouts and miring of 2 automobiles, but was very beneficial to parched farms in vicinity.
NORTH CAROLINA Cabarrus, Rowan, and Iredell Counties	4	2 p.m.					4		Wind and electrical	Trees blown down and several buildings destroyed or damaged by wind; power and telephone facilities knocked out by lightning. Most damage in vicinity of Kannapolis and Statesville.
SOUTH CAROLINA Central and eastern portions	4	Afternoon			1		5	1	Wind and electrical	Scattered severe local thunderstorm accompanied passage of squall line across central and east. Scattered damage included: Richland Co., Columbia, -\$55,000 lightning damage Lexington County, Lexington - 1 fatality from lightning; Lancaster County, Lancaster, - minor wind damage; York County, Rock Hill, - minor lightning damage. Storm moved southeastward.
FLORIDA Miami, Dade County	4	3-4 p.m.				1			Wind, elec- trical, and hail	Strong, gusty winds caused considerable minor damage in Miami area; lightning injured 1 person. Strong winds along waterfront damaged numerous small boats. Some hail reported in area.
INDIANA Evansville (southwest of), Vanderburgh County	4	3:25 p.m.			0	0			Funnel aloft	Funnel cloud not reaching ground reported.
ARIZONA Sentinel, Maricopa County	4	6 p.m.	12		0	0	3	1	Tornado (sus- pected)	Tornado moving westward passed 1/2 mile south of Sentinel, damaging service station.
GEORGIA Alma, Bacon County	4	9 p.m.			0	0	3	1	Wind, rain, electrical, and funnel aloft (sus- pected)	Trees uprooted and utility lines downed by winds with gusts estimated to 75 m.p.h. Lightning struck several baildings. Possible that tornado passed overhead as weird roaring sound heard by many citizens at height of storm.
MASSACHUSETTS Cape Cod area	4	P.m.					4	1	Electrical, rain, and wind	Lightning damaged several homes and knocked out powerlines in area and set afire store at Falmouth. Some trees felled by wind. Some phone cables damaged by rain.
NEW MEXICO Las Vegas and vicinity, San Miguel County	4				2				Rain	Heavy rains in nearby mountains washed out 3 small dams, damaged highway bridges, and floode some low lands. 2 persons drowned while crossing flooded arroyo.
TEXAS Olton (near), Hale County	4				0	0			Funnel aloft	
	4									Minor storms also reported at Fairhope, and Mobile, Ala.; at Morrilton, Ark.; at Hugo, Colo.; at Dublin, Ind.; at Bowling Green, Mo.; at Okmulgee and Wagoner, Okla.; and near Ralls and Tulia, Tex.
ARIZONA Winslow (30 miles west- southwest of), Coconino County	5	11:05 a.m.			0	0			Funnel aloft	Pilot reported funnel cloud aloft.
MONTANA Dillon, Beaver- head County	5	Early morning						3	Wind and electrical	Wind speed reported at 75 m.p.h. Power- and telephone lines damaged, tree limbs broken, and TV antennas blown over.
ALABAMA Ashford, Houston County	5	1 p.m.			1		2	1	Electrical and rain	Man fishing in pond killed when he took refuge from rain under oak tree. Large hog also killed under same tree.
UTAH Emery, Du- chesne, and Grand Counties	5	Afternoon					4	3	Rain and electrical	Heavy rain and resulting run-off caused damage to homes, roads, farms, and crops at Orange- ville and in Hanna-Tabiona area; TV cable knocked out by lightning. Torrential rains in Moab area caused destruction of water lines crossing Mill Creek and other minor damage.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
WONTANA Warmsprings, Deer Lodge County	5	3 p.m.			1		1	1	Electrical	Lightning strike killed patient on grounds of State Hospital.
COLORADO El Paso and Crowley Counties	5	4-7:30 p.m.			0	0			Tornado, wind, and elec- trical	Near Palmer Lake, "twister" took part of roof off lumber company building and blew stacked lumber about. In Colorado Springs 2 homes struck by lightning, but no serious damage reported. At Ordway, valuable quarter horse and a calf killed by lightning. \$3,000 damage at lumberyard.
MONTANA Harlem (12 miles south of), Blaine County	5	7 p.m.					3	4	Thunder, wind, and hail	Property damage from wind.
TEXAS Houston, Harris County	5	7 p.m.			1				Electrical	Young girl struck and killed by lightning.
TEXAS Jefferson County Air- port (30 miles southwest of)	5	7 p.m.			0	0			Waterspout	Over Trinity Bay; moved northeastward.
MONTANA Saco(north and east of), Phil- lips County and Valley County		7:30 p.m.	8	•7			1		Hail	Crops complete loss in some sections. Storm moved eastward into western Valley County.
ARKANSAS Des Arc, Prairie County	5	8:45 p.m.				1			Electrical, wind, and rain	l person injured and several electrical appli- ances damaged by lightning. Trees and TV an- tennas blown down. Fields flooded.
MONTANA Hinsdale (north of), Valley County	5	9 p.m.	10	*5			1	5	Hail	Greatest damage in Cache Creek community. Hailstones as big as walnuts. Crop damage 25 to 100 percent.
MONTANA Baylor-Wild- rose area, Valley County	5	9 p.m.	10	440			1	4	Hai1	Storm moved eastward.
SOUTH DAKOTA Woonsocket (west of), Jerauld County	5					1			Wind	Worker had both feet injured when wind snapped wires on building under construction.
	5							,		Minor storms also reported in Mesa County, Colo. at Brady and near Opheim, Mont.; at Taylor, Utah; and in Pierce County, Wash.
MONTANA Northern Lewis and Clark and eastern Teton Counties	5-6	9 p.m.	30- 40	*2-10			3	5	Hail	Hailstones up to 1 inch in diameter. Storm moved northeastward.
UTAH Helper-Castle Gate area, Carbon County	6	12:30 p.m.							Rain	About 2 inches of rain in 1/2 hour washed rocks, huge boulders, and mud across US Highway 50-6, 10 miles north of Castle Gate.
FLORIDA West Palm Beach, Palm Beach County	6	3 p.m.			0	0			Waterspout	
NEBRASKA Chadron (8 miles south- east of), Dawes County	6	Late af- ternoon			1		1	1	Electrical	Farmer in field struck and killed.
NORTH DAKOTA Ward, Renville, and Bottineau Counties	6	Evening	30				5	5	Wind and hail	Elevator damaged at Lansford. Many smaller buildings on farms wrecked or moved and many trees uprooted. Storm moved eastward.
PENNSYLVANIA Meshoppen area, Wyoming County	6	Night					4	1	Electrical	Barn fired by lightning and all contents com- pletely destroyed. Il cows electrocuted in field.

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Place	Date	Time	Length of p	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
	6				fa	-				Minor storm also reported at Lordsburg, N. Mex
RHODE ISLAND Rumford, Providence County	7	3 p.m.			0	0	1	1	Dust devil	Small but strong dust devil ripped shingles and tore awning at 1 house in Rumford, east of Providence. Disturbance moved to nearby house where wind gusts swept through window and knocked over lamp 15 feet inside bedroom. Blind blown down from garage window.
ENNSYLVANIA Allentown (near), Lehigh County	7	Afternoon	600	5	0	0	3	1	Tornado	Large carnival tent ripped when baby twister compath almost right through middle of it. No other damage reported.
Weber, Davis, Sanpete, and Carbon Counties	7	Afternoon -evening							Wind and rain	Several homes and small buildings damaged. Hearain in Carbon County washed over roads and farms and caused rock slide over railroad tracsection of U.S. Highway 50-6 washed out in Price Canyon. Small bridge washed away at Spring Glen.
NDIANA Brownstown, Jackson County	7	4 p.m.					4	1	Wind and electrical	High winds blew down smoke stacks of packing company. Large barn and shed struck by lightning and burned to ground east of Brownstown. \$40,000 property damage by wind, \$10,000 by lightning.
FLORIDA Jacksonville area, Duval County	7	5-6 p.m.			0	0			Funnels aloft and water- spouts	Several funnel clouds sighted near Mayport and several waterspouts also reported.
JTAH Salina area, Sevier County	7	5:30 p.m.	1-1/2	50	0	0	4		Tornado	Small tornado moving northward hit western edge of Salina, blowing roofs off turkey processing plant and service station; automobile damaged and small shed demolished.
EBRASKA Callaway (near), Custer County	7	Evening				1	3	1	Electrical	Many spots struck; fuse boxes and other electrical equipment destroyed. 1 person burned.
Escondida	7								Rain	Flash flood in arroyo damaged 2 homes, crops, and gardens.  Minor storms also reported in Montrose and Oura
										Counties, Colo.; and at Redmond, Utah.
ONTANA Hogeland, Blaine County	8	5 p.m.		*5			3	5	Hail and wind	Most all damage from hail.
OUTH DAKOTA Grenville, Day County	8	6-7 p.m.	4				4		Electrical	60-year old three-story school burned, following lightning strike.
	8									Minor storms also reported at Jewell, Kans.; ar near Arnold and Greeley, Nebr.
OUISIANA Coastal parishes	8-9				2		3	1	Hurricane Bertha	Weak extra-tropical low entered Gulf of Mexico on August 6 and drifted slowly southwest for next 2 days. On 8th, it developed into tropic storm about 100 miles south of mouth of Mississippi River. Storm moved in general nor west direction and crossed coast near Cameron late on 9th. It weakened after moving inland and turned northward through east Texas. Lowe pressure reported 29.46 inches at oil rig at Latitude 28.7 north, Longitude 91.4 west. Several reports of estimated winds of 50 to 70 m.p.h. received from ships at sea and from lan stations. Highest tide reported 4.7 feet at Schooner Bayou control structure at west end of Vermillon Bay. Damages from storm small an rainfall so beneficial that it offset any losses. Fishing vessel which radioed for help off southwest pass was never located, so 2 possible deaths listed.
OUISIANA Quarantine (west of), Plaquemines Parish	9	12:45 p.m.			0	0			Funnel aloft	Observed briefly to west of station.
ASSACHUSETTS Saxonville, Middlesex County	9	2:20 p.m.			0	0	1	1	Dust devil	Sent people scurrying to cover, but no serious damage done.
CANSAS Stevens County	9	Afternoon							Hail	Growing crops damaged across southern part of County by local falls of hail, some fields suffered more than 50 percent loss.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
WASHINGTON Entire State	9								Electrical	Light Aing from scattered thunderstorms over State started several small forest fires and damaged some residences in eastern Washington.
	9									Minor storm also reported at Wakefield, Nebr.
MONTANA Cut Bank, Glacier County	10	3:42 p.m.	10	1320			1	4	Hail	Hailstones as large as 1-1/4 to 3 inches reported. Storm moved northeastward.
MONTANA Toole County (northern half)	10	Afternoon -evening					3	5	Hail	At least 3 different storms struck County in afternoon and evening, widespread. Storms moved northeastward.
MONTANA Liberty County (northern half)	10	5 p.m.	100	*3			4	5	Наі1	Hail drifts up to 8 inches by buildings. Hailstones up to 1-1/4 inches in diameter. Storm moved northeastward.
WISSISSIPPI Waveland (15 miles north- northeast of), Harrison County	10	5:23 p.m.			0	0	3	1	Tornado	Touched ground briefly then dissipated; occurred in thinly settled, wooded area; some damage to timber.
MONTANA Hogeland and Turner to Canadian Border, Blaine	10	8:30 p.m.	50	*20			4	5	Hail and wind	Hailstones up to 2 inches in diameter. Wind estimated at 65 m.p.h., at Turner and 100 m.p.h., at Canadian Border.
County  RHODE ISLAND  Central  portion	10	P.m.							Electrical and rain	Lightning struck high voltage line at Narragan- sett shortly after noon. Power disrupted to several thousand users in many towns of Wash- ington County. Most storm damage occurred in Providence. Lightning damage confined to downed tree limbs and utility poles and streets tempo- rarily flooded. Precipitation of 0.68 inch be- tween 6:20 and 6:50 p.m., observed at WBAS Providence.
MONTANA Hinsdale (north of), Valley County	10	Night						3	Hail	Hailstones as large as hens' eggs fell in Cache Creek community. Crops nearly all harvested, resulting in little damage. Considerable property damage.
	10									Minor storm also reported at Nashua, N. H.
NORTH DAKOTA Sheridan County	11	1 a.m.					4	4	Hail and wind	Much standing grain damaged or completely hailed out. Hail and wind damaged buildings and cars.
CALIFORNIA Palm Springs, Indian Wells, Palm Desert, and Cathedral City areas, Riverside County	11	11 a.m 6 p.m.							Rain	Severe thunderstorm with accompanying flash flood knocked out powerlines from Palm Springs to Palm Desert, and partially closed State Highway 111. Storm concentrated near Rancho Mirage, 9 miles east of Palm Springs, where 5 power poles toppled and water sluiced across highway.
MONTANA Geyser, Judith Basin County		5:30 p.m.	12	*3	•				Hail	Hailstones size of golf balls. Airplane 60 miles southeast of Great Falls at 5:25 p.m. (near Geyser area) reported golf-ball size hailstones knocked out astra dome at 10,000 feet M.S.L. Storm moved northeastward.
PENNSYLVANIA Washington, Washington County	11	6-9 p.m.					4	1	Electrical	2 barns and a house fired by lightning, destroy- ing all 3 structures.
MONTANA Winifred, Fergus County	11	6:30 p.m.	40	*3-4	L		3	4	Hail and wind	Windows and roofs on west damaged by wind-driven hail. Some TV antennas blown over. Storm moved eastward.
	11									Minor storms also reported at Buchanan, Ga.; in northern Henry County; in Campbell County, Ky.; at Bristol, Tenn.; and at Gatesville, Tex.
ARKANSAS Blytheville, Mississippi County	12	1:48 a.m			0	0	2		Funnel aloft and wind	Funnel sighted by several persons, remained about 200 feet in air. Damage due to wind. Storm moved northeastward.
MASSACHUSETTS Hubbardston and Sterling areas, Wor- cester County	12	4:45 a.m			0	0			Hail and tor- nado (sus- pected)	Oblong and unusual-shaped hail up to 1-3/4 inches at Hubbardston, with some damage to crops. Narrow path 1/5 mile long 1/4 mile north of Sterling with wind damage to trees and utility poles suspected by local resident to be from small tornado.

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Place	Date	Т		Length of p	Width of p	Filled		Injured	Proper (exclust of crop	ive	Crops	0	f storm		
	12	2-3	p.m.	i a	3 5	1	4	3					ectrical nd rain	Ligh	tning damaged 5 homes and business buildings.
ISSOURI Sikeston, Scott County MARYLAND Baltimore		2:3	30-3:30 .m.									1	nd, elec- trical, and	in	ong winds downed trees and some powerlines scattered districts of metropolitan Balti-re. Lightning damaged dwelling in Dundalk. il, size of chesnuts, reported in some ctions of Dundalk and nearby Fort Holabird.
City and Baltimore County	12	Af	ternoon						4		4	W	ind and hail	2 1 ag	arge barns wrecked and other buildings dam- ed. Much grain damaged. Storm moved north-
NORTH DAKOTA Hettinger and Grant Counties			30 p.m.					1	4		1		ind	Tra	stward.  Aller overturned injuring 1 person. Roofs  Imaged and many trees uprooted and utility  Imaged and many trees badly damaged by falling  Ines downed. 9 cars badly damaged by falling
Calhoun, Gordon County	13	2 3.	30 p.m.								1	,	Wind, rain,	Hei	rees. avv rain-wind-lightning storm damaged power-
INDIANA Evansville, Vanderburgh	1		35-5:1	5				1					and elec- trical	e	ater in street to introduce a "live" wire. lectrocuted as he approached a "live" wire.
County TEXAS Seymour (15	1	2 3	:50 p.m		Na:	row	0		)	4			Tornado	Sm d	ashed hay barn, unroofed oat barn, and hostward.
miles south- west of), Baylor and Throckmorton Counties									1	4	1		Wind, rain,	W	inds toppled 11 telephone poles along highway, 1 falling on moving automobile causing it to 1 falling on intelliging driver. Other minor
GEORGIA Americus (near), Sumte		12 4	1 p.m.										and elec- trical		damage to roofs in area.
NORTH CAROLINA Forsyth, Surrand Yadkin Counties	Y .	12	4 p.m.								4		Wind, rain,		damage to small alea.
OKLAHOMA Oklahoma Cit Oklahoma County	у,	12	4 p.m.		20	*4			4		3		hail, and electrical	ı	trees of small limbs and damaged utility several utility poles, and damaged utility lines, etc. Automobile accidents caused 2 in- juries and 2 resulted from walking into side of automobile during heavy rain. Storm moved southward.
MARYLAND Ocean City,		12	Late a										Rain and h	ail	Severe rainstorm reported preceded by heavy fal of hail.
Worcester County MARYLAND Easton, Tal	bot	12	5 p.m.										Hail		Severe hailstorm lasted about 20 minutes. Hail stones ranged in size from peas to as large as chicken eggs. Some farmers reported heavy credamage.
COLORADO Costilla County		12	5 p.m	•									Rain and	hail	Official estimate of 2-1/4 inches of rainfall in 45 minutes flooded Culebra River, which in undated 5,000 acres of rich farm land and flooded many homes in San Luis. Hail accompanied rain and knee-deep drifts observed. Estimated that 50 percent of crops in 5000-accarea completely ruined.
TEXAS Lake Fort		12	5:30- p.m.				7	0	0	3			Tornado		Ripped porch off lake cabin, tore off roof and water cooler on roof.
Phantom Hi Jones Coun OKLAHOMA Lawton, Co	ty man-	12	5:45	p.m.						4	•	1	Wind, rai		winds up to 82 m.p.h., damaged hangars and several planes at airport. 300-foot section of concrete block fence blown over. Minor damage resulted to electric lines. Storm mo east-northeastward.
che County		1	2 6 p.	m.							5		Wind		Heavy damage to trees and TV antennas in Deni Boats and boat houses smashed at Lake Texoma resort. Storm moved northeastward.
Denison ar vicinity, Grayson Co		KINDS FOR STREET				5 4	3-1/2				5		Wind and	i hail	Combination of wind and hail stripped many to
SOUTH CARO	LINA	1	2 6:22	s p.m	•	3 -	J-V2								Storm moved southward.
OKLAHOMA Walters a	rea		12 6:3	0 р.п	1 -							3	Wind, rahail, electr	and	Strong winds damaged buildings to area esteads, also trees and utilities in area estand north of Walters. Heavy hail fell in s

			path,	path,		nber rsons	Estimated by categ		Change	
Place	Date	Time	Length of path miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
OUTH CAROLINA Timmonsville adjoining rural areas, Florence County	12	7:05 p.m.	7	*2			5	5	wind and hail	Several tobacco warehouses damaged, also lesser wind damage in area. (Hail damage to building \$18,000, to crops \$60,000; wind damage \$207,000). Storm moved southward.
ORTH DAKOTA Central and eastern portions	12	7:25 p.m.							Rain and wind	Heavy rains, several inches in an hour in some places, caused considerable damage to crops. Deluges washed away swathed grain, floated bales of hay from fields, and flooded some roads. Heaviest damage in Pierce, Grand Forks Wells, and Stutsman Counties. Basements flood in Grand Forks, Fessenden, and Carrington. Barn and elevator destroyed near Jamestown. Electricity out at Jamestown and Fargo for short period. Storm moved eastward.
DRTH DAKOTA Jamestown (52 miles south- east of), Ransom County	12	8 p.m.	1/2	34	0	0	4	1	Tornado	Destroyed warehouse and several other buildings and grain bins blown down. Touched southeast corner of Englevale. Storm moved southeastwar
RGINIA Mathews area, Mathews County	12	9:50 p.m.							Hail, elec- trical and wind	Hail, with largest stones described as walnut size, broke windows in buildings. Lightning caused 2 fires and knocked out electric power Winds blew down communication lines.
EORGIA Fulton, Spald- ing, Jackson, and Clinch Counties	12	P.m.			1		3	1	Wind, rain, and elec- trical	l person killed by lightning in Atlanta and several minor fires started. Trees uprooted some damage to utility lines. Some minor windamage also reported in thunderstorms in Grifarea, Spalding County and near Commerce, Jack: County. Small hail also fell in Griffin. Millocal wind damage reported near Homerville, Clinch County.
ENNESSEE Stowah, Mc-	12	P.m.					1		Hail	Heavy damage to crops.
ENNESSEE Marren County	12	P.m.						1	Electrical and wind	Lightning ignited a relatively new barn which burned to ground. High winds blew down a number of TV antennas, ripped awnings from houses, and blew away 2 dog houses.
	12									Minor storms also reported at Athens and in Tr Cities area, Ala.; at Phoenix, Ariz.; in Cand City and Hartsell areas, Colo.; near Tampa, Kans.; in Edmonson, Henderson, and Robertson Counties, Ky.; in Minneapolis-St. Paul area, Minn.; at Farmington, Mo.; at Poteau and Roosevelt Bridge, Okla.; in Aberdeen and Wilmot areas, S. Dak.; in Glendale community and at Mansfield, Tenn.; and in Hopewell area Va.
RKANSAS Rell, Logan, Johnson, Pope, Rewton, Perry, Conway, Van- Buren, Searcy, Faulkner, Scott, Cle- burne, Stone, and White Counties	12-13	Morning 12th- after- noon 13th			2				Rain	Heavy rains over large area caused flash flooding over wide area. Precipitation averaged over 8 inches over most of the area. Unofficial amount of 16 inches reported near Chimes, Van Buren County. Extensive damage troads and bridges. Considerable flooding of streets and business buildings in Clarksville Russellville, and Clinton. 2 persons drowned in Conway County when Cypress Creek overflowed its banks. Unusually high water reported on several creeks. Flash flood on Little Red River, which reached stage of 44.2 feet at Heber Springs at 7 a.m., of 14th and 36.5 feet at Judsonia at 4:30 a.m., of 16th.
	12-13									Minor storms also reported at Alpena, Goodwin, Highmore, and Waubay, S. Dak.
XAS efferson ounty Airport 12 miles east f)	13	9:55 a.m.			0	0			Waterspout	Observed over Lake Sabine.
NNESOTA outhern ortion	13	A.m.							Rain	Some highway shoulder washouts, most serious near Albert Lea.
NSAS onia (south- est of) ewell County	13	3:50 p.m.			0	0			Funnel aloft	Small funnel cloud observed moving northeastwing did not come to ground and was visible only few minutes.
KLAHOMA Stephens County	13	4:30 p.m.						3	Wind, rain, hail, and electrical	Strong winds destroyed and damaged buildings or near Gas City, Fair, and Santa Fe communities.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
KANSAS Weskan (north- west of), Wallace County	13	4:30-5:15 p.m.	6	*2			3	4	Hail	Heavy hail damaged crops severely in 6-1/2 sections immediately northwest of Weskan. Average stones near an inch in diameter, with some 3 inches in diameter. Storm moved northwestward.
NORTH DAKOTA McLean and Mercer Counties	13	5 p.m.					4	4	Wind and hail	Several buildings totally demolished and others damaged in and near Riverdale, Falkirk, Underwood, and Hazen areas. Storm moved eastward.
TENNESSEE Jackson (near) Madison County	13	9:38 p.m.			0	0			Funnel aloft	Funnel cloud reported 19 miles north of Jackson
Snyder (north of), Scurry County	13	11:25 p.m.			0	0			Funnel aloft	
CALIFORNIA Needles, San Bernardino County	13	Evening							Wind, elec- trical, and rain	Severe thunderstorm, concentrated on west side of Needles, lasted more than 1-1/2 hours. Television antennas, signs, power- and telephon lines torn loose, and lightning struck several transformers, causing power outages in many sections of city. Roofing torn from high school auditorium, and class room wings, flooding some class rooms. Superstructures and air vents also swept away by wind, and wind caused considerable damage to coolers. Baseball field slightly damaged by erosion. More than 1 inch of rain fell in storm area.
IOWA Southwestern portion	13	Evening					4	1	Electrical	Several farm buildings burned.
KANSAS Morrill (south of), Brown County	13	Evening							Electrical	Large barn and contents burned after being struck by lightning.
	13									Minor storms also reported in Hancock County, Iowa; near De Witt and Verdon and at Omaha, Nebr.; at Walters, Okla.; and at Marion, S. Dak.
ARKANSAS Greene County (eastern portion)	13-14	11 p.m 4:30 am.	20						Rain	Heavy rain, with precipitation amounts ranging up to unofficial 12 inches caused flash flooding. Extensive damage to roads estimated at \$75,000. Missouri Pacific freight train derailed when it hit section of flooded track. Many fields in area flooded. Storm moved northeastward.
(ISSOURI Senath and Kennett, Dunk- lin County	13-14	Night							Rain, wind, and elec- trical	9.00 to 11.00 inches of rain fell in 6 to 8 hour in Kennett area. Heavy local flooding.
COVINGTON and vicinity, Tipton County	14	2:30 a.m.				1	4	1	Rain and elec- trical	Flash floods resulted in \$10,000 water damage at Crystal Works, washed out rail siding under construction, and entered some homes. Lightning struck industrial plant, injuring nightwatchman and damaging furnace.
TENNESSEE Halls and vicinity, Lauderdale County	14	3 a.m.						1	Electrical and rain	Lightning and accompanying flash flood resulted in considerable damage and delay to oil-well drilling group. Many electrical appliances lightning damaged.
LLINOIS Boone, McHenry, and Cook Counties	14	4 a.m.					4		Electrical and rain	Several lightning fires reported. Heavy rain showers also occurred at Chicago.
Fessenden (7 miles north- east of), Wells County	14	7:15 a.m.			0	0	4	3	Tornado	Barn, garage, granary, and brooder house destroyed. Damage reported on 1 farm only.
ICHIGAN Lower south- western portion	14	Morning					5	1	Electrical	Lightning-set fires destroyed factory at Allegan and barn in Cass County. Minor lightning damage occurred at South Haven.
ALABAMA Saco, Pike County	14	1 p.m.				2	3	1	Electrical	2 men hit by lightning and left in serious condition. 3 days earlier they were caught stealing gasoline from a truck. When arrested 1 held his hand up and said to the sheriff, "I hope God will strike me down with lightning if I ever stole any gas before."

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Place	Date	Time	Length o miles	Width of yards	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
ALARAMA Columbiana, Shelby County	14	Afternoon			1	1	1	1	Electrical	Man in field on load of hay on truck killed. Ma on ground throwing hay to him injured.
ARKANSAS Craighead and Poinsett Counties	14	Afternoon							Electrical, wind, and rain	l house destroyed by fire set by lightning and l damaged. State Police Radio Station at Harrisburg damaged by lightning. Several trees damaged by wind. Hail damage very light.
OKLAHOMA Hanson, Se- quoyah County	14	4 p.m.	5		0	0		3	Tornado, wind, rain, hail, and elec- trical	Several persons reported funnel cloud about 20 feet off ground and caused damage to homes, buildings, trees, utilities, etc. Hail 1/2 inch in diameter covered ground 1 inch deep over area 3 miles long and 1 mile wide. Storm moved northeastward.
OKLAHOMA Tishomingo, Johnston County	14	4:30 p.m.	10	880				3	Wind, rain, and hail	Strong winds and hail up to 1 inch in diameter caused damage to windows, TV antennas, trees, etc.
OKLAHOMA Marietta (15 miles north- east of), Love County	14	5 p.m.	3	*2				3	Wind, rain, hail, and electrical	Hail up to 3/4 inch in diameter covered ground, resulting in heavy damage to crops. Wind, rain, and lightning severe during storm which moved southwestward.
SOUTH DAKOTA Marshall County	14	5:20 p.m.			0	0			Tornado	Touched ground twice. Apparently no damage.
OKLAHOMA Pryor (7 miles south- east of), Mayes County	14	5:30 p.m.			0	0			Tornado (sus- pected)	Tornado reported to have struck farmstead. Out- buildings destroyed or damaged and windows blown out.
OKLAHOMA Ketchum (2-1/2 miles east of), Delaware County		6 p.m.	3	880	0	0	3	1	Tornado (sus- pected), wind, rain, and elec- trical	Tornado reported to have moved off Grand Lake and hit properties along west shore near Ketchum. Cabins damaged, trees uprooted and broken off, and strong winds and high waves caused extensive damage to boat docks. Storm moved northwestward.
GEORGIA Cobb to Jack- son Counties	14	P.m.			0	0	3	1	Wind, elec- trical, and funnel aloft	Widespread but minor damage caused by wind and lightning in Marietta. Trees uprooted and utility lines damaged, disrupting services in many sections of city. Lightning struck Jackson County Jail at Jefferson on same afternoon, and an unconfirmed funnel cloud reported above ground near U.S. Highway 78 between Atlanta and Athens.
MINNESOTA Southwestern portion	14	P.m.			0	0	5	6	Wind, hail, rain, and funnel aloft	Damage in 11 counties. Hail up to golf-ball size stripped crops and damaged roofs. 40 barns and many trees blown down. Report of funnel cloud near Beardsley, Big Stone County, not confirmed. Storm moved southeastward.
SOUTH DAKOTA Roberts and Grant Counties	14	Evening					4	4	Wind and hail	Wind demolished weaker farm buildings and destroyed home at Big Stone City. Extensive crop damage near Lake Traverse from base-ball-sized hail. Some stones saucer-shaped. Storm moved southeastward.
Memphis, Shelby County	14							1	Electrical	Lightning knocked 400-pound stone from church tower damaging church roof. Lightning, enter- ing home by way of radio wire, burned hole in mattress; 13-year old boy sleeping upon mat- tress not injured.
	14									Minor storms also reported in Madison County, Ky.; at Benkelman and near Rising City and Sargent, Nebr.; in Cleveland County, N.C.; at Blanco, Spiro, and Tipton, Okla.; at Chatta- nooga, and Dyersburg and in Millsfield Community Tenn.; and near Amarillo, Tex.
RHODE ISLAND Block Island and Washington County	15	8 a.m 3 p.m.					4	1	Electrical and rain	Precipitation totaling 2.79 inches fell on Block Island, with 2.11 inches measured between 12:45 and 1 p.m. 2 power generators burned out by lightning strike, with disruption of all power on island. Portable generator moved by Navy from Newport and power resumed 24 hours after storm. Lightning-caused fires destroyed barn and contents on island and machine shop at Ashaway for total damage of \$6,000. Other lightning strikes caused minor fires in 2 buildings at Narragansett as well as knocking out telephones for 8 hours. Streets in affected area flooded with as much as 2 feet of water at many points. I automobile accident blamed on flooded streets.

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Place	Date	Time	Length of miles	io	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
Muskegon (20 miles north of), Muskegon County	15	10:05 a.m.			0	0			Funnel aloft	Unconfirmed funnel aloft.
OLORADO Metropolitan Denver, Denver County	15	12:20 p.m.				1			Electrical	Lightning struck several homes, starting fires. 44,000-volt REA transmission line struck 8 miles south of KOA radio towers, cutting off power to over 5,000 homes and business in adjoining towns. Woman injured in southwestern Denver by lightning. Storm moved southeastward.
DAHO Inkom (7 miles north of), Bannock County	15	12:30- 1:30 p.m.	5	*2					Rain and hail	Rain caused flash flood in Buckskin Basin. Hail 1/8 inch in diameter damaged grain estimated at 11 to 48 percent on various fields. Storm moved eastward.
Lower south- western and extreme south- ern portions	15	Afternoon					5	4	Wind, elec- trical, and hail	High winds and lightning caused scattered damag in several counties. Hail damaged apples and peaches in eastern Muskegon and northern Kent Counties.
ALABAMA Huguley com- munity (8 miles west of Phenix City), Russell County	15	5:30 p.m.			0	0	3	1 .	Tornado (sus- pected)	Several houses damaged. Storm called tornado by press.
ALABAMA Smiths, Lee County	15	5:30 p.m.	Short	150	0	0	3	1	Tornado (sus- pected)	Storm called tornado by press and Highway Patro 2 houses damaged considerably and 2 barns collapsed. 3 power poles snapped.
WEBRASKA Grand Island (5 miles west of), Hall County	15	7:46 p.m.			0	0			Funnel aloft	
INDIANA Greenfield, Hancock County		9 p.m.					4	1	Wind and rain	Damage by high winds and falling trees. Heavy rains flooded streets. Property damage \$5,000 by wind, \$5,000 by rain.
Indiana Terre Haute (20 miles north of), Vermillion County	15	9:09 p.m.			0	0			Funnel aloft	Pilot reported funnel cloud aloft.
INDIANA Indianapolis, Marion County	15	9:30 p.m.				2	5	1	Electrical wind, and rain	Power services knocked out to approximately 12,000 homes; 400 telephone lines damaged, and city sewers and streets suffered \$100,000 damage. Property damage by lightning \$70,000 by wind \$70,000.
LLINOIS Southeastern portion	15	Evening					4		Electrical	Lightning damage reported at Seymour, Newton, Robinson, and Lawrenceville.
INDIANA Emporia (near) Madison County		Evening					4	1	Lightning	Lightning and resulting fire destroyed barn.
INDIANA New Winchester Hendrick County	15	Evening					4	1	Electrical	Barn destroyed by fire as result of lightning.
INDIANA Mechanicburg (2 miles west of), Madison County	15	Evening					4	1	Electrical	Lightning and resulting fire destroyed barn.
INDIANA Ft. Wayne, Allen County	15	Evening			1		3	1	Electrical, wind, hail, and rain	Boy struck by lightning while playing golf. He size of golf balls fell. Rain heavy. \$1,000 property damage by wind.
NEBRASKA Battle Creek (south of), Madison County	15	Night			0	0	3	1	Tornado and electrical	Property damage \$500 by tornado. \$500 by lightning.
	15									Minor storms also reported at Burket and Clay- pool, Ind.; near Axtell, Kans.; at Concordia and Lexington, Mo.; in Campbell vicinity, at Elsie and Geneva, and near Deshler, Loomis, McCool, and Tecumseh, Nebr.; at Weleetka, Okla.; and at Upton, Wyo.

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Place	Date	Time	Length of miles	Width of p	Killed	lajured	Property (exclusive of crops)	Crops	of storm	Remarks
	15-16									Minor storm reported at Glasgow, Mo.
ARIZONA Yuma, Yuma County	16	Midnight					5	1	Electrical and wind	Lightning and wind damaged homes and stores.
EBRASKA Crete, Saline County	16	Early a.m.						1	Electrical	House struck, considerable damage.
SEBRASKA Stromsburg, Polk County	16	Early a.m.						1		House struck, considerable damage.
KANSAS Nickerson, Reno County	16	6:30-9 a.m.							Electrical	Severe electrical storm. A number of houses, light and telephone poles, and some trees hit. 2 houses struck twice within minutes. Telephones, electric lines, and numerous appliances knocked out of service. Several trees stripped of bark and some roof and siding damage.
COLORADO Fremont County	16	Near noon							Rain	Newly-built county road, culverts, and bridges heavily damaged, when cloudbursts at higher elevations flooded 2 gulches in western part of County.
MASSACHUSETTS Amesbury, Essex County	16	2:15 p.m.			0	0	1	1	Waterspout	Funnel not visible except near water on Lake Attitash. Black cloud overhead. 14-foot boat with motor picked up and overturned.
KANSAS Stevens County	16	2:45-3 p.m.			0	0			Funnels aloft	3 funnel clouds aloft sighted moving southwest- ward in area from 2-1/2 miles to 8 miles west of Hugoton.
Jefferson City, Cole County	16	3 p.m.							Rain, wind, and elec- trical	Heavy rain, 1.50 to 4.00 inches in about 1 hour. Heavy wind damage to roofs of several buildings
(ANSAS Elk and Montgomery Counties	16	3-8 p.m.							Electrical	Numerous lightning strikes reported over the 2 Counties. Telephone and light services had many outages. Trees, roofs, and aerials damaged and house in Independence total loss from fire caused by lightning.
(ANSAS Kingman County (southeastern portion)	16	Afternoon				-1			Electrical	16-year old boy struck by lightning while drivin tractor. He suffered burns on his neck and chest and was hospitalized several days.
KANSAS Caldwell (5 miles west of), Sumner County		Afternoon			1		1	1	Electrical	Man killed by lightning while plowing with a tractor. Examination showed a burnt spot on top of his head.
SOUTH DAKOTA Pennington County	16	Afternoon					2		Hail	4 inches of hail in Black Hills from Pactola to Sheridan Lake. Car skidded into ditch.
OKLAHOMA Bristow, Creek County	16	7:15 p.m.	2	1000				1	Wind, rain, and elec- trical	Strong winds blew roof off school gymnasium onto house, destroying it. Estimated damage to school \$7,692. Roof blown off warehouse and large tree blown across another house, destroying it. Many large trees blown over, roofs damaged, and lightning struck TV antenna and damaged set. Storm moved southeastward.
OKLAHOMA Tablequah, Cherokee County	16	P.m.						1	Electrical	Lightning struck 2 homes; interior of 1 literall exploded. Wiring damaged in both homes. Sever al barns near Hulbert hit by lightning. Fire destroyed 1 which contained 1,000 bales of hay and some grain.
NEBRASKA Superior (northern edge), Nuckolls County	16		Short	Nurow	0	0	2	2	Tornado	Funnel observed by several persons, struck little of value.
	16									Minor storms also reported near Claflin and Hays, Kans.; at Carthage, Keytesville, Marion- ville, Perryville, and Rolla, Mo.; and at Alva, Claremore, Drumright, Duncan, Jay, and Morrison, Okla.
TENNESSEE Nashville, Davidson County	17	4 a.m 5 p.m.						1	Rain	Flash flood in wake of heavy thunderstorm reache 4-feet depth over some streets and flooded some buildings.
FLORIDA Jacksonville area, Duval County	17	Noon - 3 p.m.							Electrical	Violent thunderstorm knocked out numerous power- lines, caused several small fires, but damages generally minor. Weather Bureau counted 516 lightning strokes between 12:10 and 4:45 p.m.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
MASSACHUSETTS Worcester, Worcester County	17	1 p.m.			0	0	3	1	Dust devil	Twister sucked out plate-glass window from service station and cracked windshields on 6 automobiles. Other minor damage. Storm moved eastward.
NEW MEXICO Santa Fe, Santa Fe County	17	2 p.m.					5		Rain	Heavy rain in eastern portion of town, estimated at 2.50 inches. Severe flooding in some sections damaged streets, bridges, and some homes and business buildings.
SOUTH DAKOTA Castlewood, Hamlin County	17	2-3 p.m.						4	Hail and wind	Hail drifted 6 inches deep. Gusty wind. Storm moved southeastward.
ASSACHUSETTS Rutland, Wor- cester County	17	2:30 p.m.			0	0	1	1	Dust devil	Dust funnel interrupted proceedings at Rutland Fair, but damage slight.
WYOMING Riverton, Fre- mont County	17	4:30 p.m.	15	*6			3	4	Hail	Most fabric on 5 airplanes cut to shreds accouning for largest part of property damage. Crop damaged, included small grains nearly ready fo harvest, hay, beets, and beans. Storm moved southeastward.
COLORADO Larimer, Weld, Morgan, Wash- ington, and Yuma Counties	17	Afternoon -evening					3		Rain, hail, and electric- al	Up to 4 inches of rain fell in Loveland and Bertheud areas. Hail in scattered areas did heavy damage to beets and other crops. Farmer living 18 miles northeast of Ft. Morgan lost 6 head of cattle by lightning.
TEXAS Corsicana, Navarro County	17	5:45 p.m.	3-4	1300	0	0	4		Tornado and electrical	Flattened drive-in theatre screen made of concrete blocks. Accompanying lightning killed some livestock. Storm moved southeastward.
MONTANA Lewistown, Fergus County	17	6:30 p.m.	25				5	4	Hail	Hailstones up to 1-1/4 inches in diameter. Abo 85 percent crops harvested before storm hit. Storm moved northeastward.
TENNESSEE Cleveland Bradley County	17					1	1	1	Electrical	Lightning struck woman, resulting in minor injuites.
	17									Minor storms also reported at Florence, Tombsto and Yuma, Ariz.; at Hawkinsville, Ga.; and nea West, Tex.
LOUISIANA Mandeville, St. Tammany Parish	18	12:30 pm			2		3	1	Wind, elec- trical and rain	Small plane crashed during thunderstorm killing occupants; thunderstorms caused high waves on Lake Pontchartrain, but all boats reached lan safely.
FLORIDA Ft. Pierce, St. Lucie County	18	3 p.m.			0	0			Funnel aloft	Cloud remained aloft,
ALABAMA Addison and Arley areas, Winston County	18	Afternoon					4	1	Electrical	3 homes destroyed (presumably by fire) and 6 others extensively damaged. 5 cows at dairy killed.
FLORIDA Naples, Collier County	18	Afternoon			1				Electrical	
SOUTH DAKOTA Jackson County	18	Afternoon					2		Hail	Hail drifted 4 inches deep. West of Kadoka, car slid into deep washout.
Coggon, Linn County	18	4:05 p.m.			0	0			Funnel aloft	Unable to confirm report.
ARIZONA Doney Park, Coconino County	18	5:45 p.m.		800	0	0			Tornado (sus- pected)	Possible tornado moved northeastward across open country east of Flagstaff.
	18									Minor storm also reported in Yorktown area, Tex
CALIFORNIA Imperial County, (west- ern portion)	19	1 a.m.				7			Rain and wind	Intense thunderstorm, with locally heavy rains and high winds caused damage over wide area from southern portions of Imperial Valley nort ward to Riverside County line. Winds downed telephone and powerlines and damaged televisic antennas. Many dips on Highways 99 and 111 were full of water and highway traffic disrupt in many places. Highway 111 partially closed when mud several feet thick drifted across route. At least 1 highway accident attributed to storm occurred east of Holtville, injuring persons. Heaviest rain, 0.62 inch, fell east of Calexico.

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Place	Date	Time	Length of path miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
VIRGINIA Eastern portion	19	8 a.m 9 p.m.					5	1	Wind and rain	Gale winds throughout day, with gusts to 61 m.p.h., at Norfolk, along with drought-breaking rains exceeding 3 inches over eastern Virginia caused widespread damage in coastal areas. Brick wall of new Post Office building under construction at Virginia Beach blown down; freighter grounded; hundreds of small craft damaged at docks; some roofs sustained major damage; blowing debris and winds broke many windows, awnings, etc. Electric power and communications disrupted. High tide of 5.56 feet above MLW or 2.65 feet above normal at 3:30 p.m., caused 1-1/2 feet of water in some downtown street intersections in Norfolk. Vehicles damaged.
LORIDA Ft. Myers, Lee County	19	Noon			0	0			Waterspout	
ONTANA Glasgow, Valley County	19	6:33 p.m.						1	Wind and electrical	Maximum 1 minute wind speed at WBAS 63 m.p.h., gusts up to 76 m.p.h. Major damage to Cessna 140 airplane.
	19									Minor storms also reported near Rushville, Nebrand near Wheatland, Wyo.
ASSACHUSETTS Rockland, Plymouth County	20	2 p.m.			0	0	1	1	Dust devil	Funnel moving southeastward picked up small trailer and ripped clothes from line.
RIZONA Prescott (40 miles north- west of), Yavapai County	20	Afternoon			0	0			Tornado	Pilot reported funnel cloud touching ground. I damage reported.
ISSOURI Nodaway County (eastern half)	20	7-9 p.m.							Wind, rain, and elec- trical	Wind at Maryville Airport estimated 65-70 m.p.: Many powerlines, telephone lines and trees downed. Storm moved southeastward.
ISSOURI St. Joseph, Buchanan County	20	7:45-8:17 p.m.							Wind	Gusts to 53 kts. at St. Joseph Airport at 8:17 p.m. Many powerlines downed; tree limbs block streets.
EBRASKA Wauneta (near), Chase County	20							3	Hail	Hailstones size of marbles; accumulated on high way to stall traffic; ground covered to depth of 3 inches in spots. Main crop (wheat) had been harvested. Moderate property damage.
	20									Minor storms also reported in Lyon County, Iowand at Avoca and Holdredge and near Lyons, Nebr.
OREGON Scattered areas over much of State	20-21	After- noons - evenings					4	3	Electrical	Widely distributed thunderstorms started a number of range fires and a few small forest fires. 1,200 acres of grassland in Maiheur County, 200 acres of grassland on outskirts of John Day, and 4 acres of range land in Silver Lake area burned over.
COLORADO Mesa County	- 21	10-11:30 a.m.							Rain	Nearly 3 inches of rain came down in 1-1/2 hour causing flash flood in vicinity of Gateway.  Water up to 6 inches deep in homes and business places. I bridge washed away and roads washed and covered with dirt, mud, and rocks.
Las Vegas, Clark County	21	A.m.					4		Rain	Violent thundershowers washed out highways and caused damage to city streets.
PENNSYLVANIA Harrisburg (near), Dau- phin County	21	2:30 p.m.			0	0	2	1	Tornado	Baby twister lifted small pavilion about 20 feet into air and carried it some 30 feet. It pact of it hitting ground completely destroyed it.
COLORADO Jefferson, Denver, and Arapahoe Counties	21	Afternoon				1			Rain and electrical	Heavy rain in mountains caused flash floods in Mt. Vernon and Bear Creek Canyons. Bridge washed out at Idledale on Bear Creek, temporarily stranding several families. Bear and Vernon Creeks crested at Morrison at same tim flooding business section. Considerable dama to homes and cabins along flooded streams and some private bridges to homes across creek washed out. I resident of Kittredge estimate damage of \$5,000 to his home. Some flooding South Platte River in southwestern Denver and heavy rains flooded streets and caused some dage to homes in Golden, Lakewood, Edgewater,

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
MASSACHUSETTS Pittsfield, Berkshire County	21	5 p.m.					5	1	Rain and wind	Gullywashing cloudburst, said to be worst in memory of residents, flooded basements and streets when 3 inches of rain fell in little over 1 hour. Wind damage slight, but some trees or branches fell on powerlines. Most utility outages due to floods. 6 families evacuated from their homes.
DAHO Butte and Custer Counties	21								Rain, hail, and wind	Serious damage to crops near Arco, Moore, Darlington, Leslie, and Mackay. Hailstones as large as marbles, ground white. Storm moved eastward.
CONNECTICUT Central portion	21-22	5 p.m. 21st - 2 a.m. 22d					3	2	Electrical, rain, and hail	Unusual electrical storm, occurring under dominant anticyclonic circulation at surface, produced heavy rains, principally in New Haven County and Storrs area of Tolland County. Official measurements of 1.50 to 2.50 inches in affected areas, although unofficial observer at Storrs measured 4.50 inches. Extensive street flooding, with reports of basement and store flooding in Meriden but latter damage
										minor. Flash flooding of small stream at Storrs resulted in drowning of 2 cows for \$500 loss. Numerous lightning strikes in Wallingford-Hamden-Waterbury areas resulted in some structural damages. Extensive power and telephone disruptions. Marble-sized hail at Cheshire caused minor crop damage. Rainfall greatly replenished depleted reservoirs, but runoff too heavy to greatly benefit drought-stricken crops. Storm moved southeastward.
UTAH Kanab area, Kane County	22	Afternoon							Rain	Heavy rain washed out several culverts and road in Kanab area.
COLORADO Merino and At- wood, Logan County	22	5-6 p.m.	8	*5	\$			5	Hail	Hail mostly 3/4 inches in diameter, with some of linch. Storm moved eastward.
SOUTH DAKOTA Spencer, Mc- Cook County	22	9:20 p.m.			0	0			Funnel aloft	Public report.
SOUTH DAKOTA Minnehaha County	22	10:38 p.m.			0	0			Funnel aloft	Pilot report.
SOUTH DAKOTA Statewide	22					2	2		Electrical	At Burke, lightning cracked full length of a chimney. At Roubaix Lake in Black Hills, 2 National Guardsmen stunned when stroke apparently hit a field phone wire. At Sioux Falls, dirt showered on nearby houses when lightning dug hole 1 foot deep and 2 feet across.
	22									Minor storms also reported at Tucson, Ariz.; a at Howe, Idaho.
FLORIDA Pass-a-Grille, Pinellas County	23	5 p.m.			0	0			Funnel aloft and water- spout	Several funnel clouds sighted, 1 believed to have been waterspout.
FLORIDA Clearwater, Pinellas County	23	Evening			2				Wind	High winds in Gulf of Mexico off Clearwater co tributed to sinking of shrimp boat, 2 fisherm missing and presumed lost.
	23									Minor storm also reported in O'Brien County, Iowa.
FLORIDA Tavernier, Monroe County	24	10:30 a.m.			0	0			Waterspout	
FLORIDA Orlando, Orange County	24	Afternoon							Wind and electrical	Strong winds, with gusts to 60 m.p.h., downed Highway Patrol radio tower and numerous trees and disrupted power services generally.
NORTH DAKOTA Dunn Center (near), Dunn County	24				0	0			Funnel aloft	Zigzag path, mostly southwestward.
ARIZONA Prescott, Yavapai County	25	Afternoon			1	1	1	1	Electrical	Lightning killed girl and injured her companion
UTAH Kanab, Kane County	25	3:15 p.m.					3	3	Hail	Hail 2 inches deep accumulated during 10-minut hailstorm; gardens flattened; several roofs damaged, and when hail melted some flooding occurred.

AUGUST 1957

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
PENNSYLVANIA York area, York County	25	5-8 p.m.					4	1	Electrical	Lightning struck and set fire to barn, completely destroying structure and contents. Storm moved northeastward.
MARYLAND Hills Point, Dorchester County	25	Night		1000					Wind and rain	Sudden windstorm like an immature twister swept 1,000 yard path through Hills Point area, ripping roofs from small buildings and uprooting trees. About one-half the dwellings in this community suffered minor damage. Windlash came during severe rainstorm.
NEW MEXICO Winston, Sierra County	25								Rain	Flash flooding caused by rains up to estimated 5 inches; damaged several homes.
NEW MEXICO Socorro (near) Socorro County					2				Rain	Child drowned as car overturned in flooded arroyo.
	25									Minor storm also reported at Jewell, Iowa.
CONNECTICUT Fairfield County	25-26	A.m. 25th - p.m. 26th							Electrical and rain	As storm of more or less gentle rain covered State, thunderstorm activity erupted on evening of 25th in Stamford-Bridgeport areas. Light- ning bolt knocked out feeder line on electri- fied railroad in Norwalk. Trains between New
										Haven and New York stalled or delayed for several hours. House in Stamford struck by lightning, with some damage resulting from fire. Telephone and power failures to 700 users.
MASSACHUSETTS Cape Cod and Martha's Vine- yard areas	25-26	Near mid- night					3	1	Rain, wind, and elec- trical	Rains and high tide undermined 2 cottages at Dennisport and washing rains collapsed foundation wall of new building at Edgartown. Some road washouts occurred. Minor damage from lightning. Wind felled some trees and interrupted utility service.
IOWA Central portion	26	Early a.m.					4	1	Electrical	Some farm buildings burned and others damaged.
IDAHO Inkom, Ban- nock County	26	1 p.m.							Rain and hail	Heavy damage to wheat crops, loss estimated to 50 percent of crop on 1 farm. Water roared down Rapid Creek through Inkom about 5:30 p.m., in second flash flood in 11 days. At least \$1,000 road damage.
NORTH CAROLINA Carteret, Craven, Edge- combe, Frank- lin, Lenoir, Nash, and Vance Counties	26	4-6 p.m.					4	5	Hail, wind, rain, and electrical	Widespread thunderstorms in east caused hail damage to tobacco crop, structural damage due to wind and lightning fires, and some local overflow of storm-drainage facilities.
NEBRASKA Martin Keith County	26	5:05 p.m.					4	1	Electrical	Depot struck and burned, furniture also lost.
COLORADO Rifle (near), Garfield County	26	6:30 p.m.			1				Electrical	15-year old boy killed by lightning while work- ing in hay field.
KANSAS Comanche County	26	8 p.m.	-		1				Electrical	Man struck by lightning and killed while plowing with tractor, 14 miles south and 3 west of Coldwater. Prairie fire started by lightning about same time nearby.
TEXAS Perryton and vicinity, Ochiltree County	26					3	3		Wind and electrical	2 persons injured when trailer overturned; child injured when shed blew down. Carports blown off, roofs damaged, fences shattered, windows broken, tree limbs knocked down and I home struck by lightning.
	26									Minor storms also reported at Scottsdale and Tempe, Ariz.; in Mesa County, Colo.; and at Etna, Wyo.
KANSAS Toronto (10 miles east of), Woodson County		4 a.m.							Electrical	Large barn and 3500 bales of hay burned when struck by lightning.
KANSAS Stafford County	27	Early morning							Electrical	7-room farm home about 1 mile north of Pratt-Stafford County line struck by lightning. No one was at home at the time. Passing motorist discovered the blaze at 3:10 a.m., but too late to save anything.

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Place	Date	Time	Length of path	Width of po	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
TEXAS Galveston (7 miles north- east of), Gal- veston County	27	9:22-9:35 a.m.			0	0			Funnel aloft	
COLORADO Morgan, Wash- ington, Yuma, and Kit Carson Counties	27	Afternoon			0	0			Funnel aloft, hail, and rain	Apparent tornado cloud reported by pilot at 12:55 p.m., in vicinity 25 miles southeast of Akron. Hailstorm in Burlington area damaged corn, beets, and sorghum grains. Over 2-1/2 inches of rain fell. In Morgan County, 1,500 acres of beets damaged by hail.
ILLINOIS Mattoon area	27	Late af- ternoon							Electrical and rain	Number of reports of lightning strikes and heavy rainshowers within a 30 to 50 mile radius of Mattoon. Wind gust to 58 m.p.h., at Coles County Airport.
NEBRASKA Brady (12 miles south of), Lincoln County	27	Late af- ternoon	2	Narrow	0	0	3	1	Tornado (sus- pected)	Moved northward.
KANSAS Goodland (6 miles east and 8 miles north of), Sherman	27	4-5 p.m.	2				4	3	Wind and hail	Local wind- and hailstorm affected small area 6 miles east and 8 north of Goodland. Hail caused \$2,000 crop damage. Wind damaged severa farm buildings. Storm moved east-southeastward
County  NEBRASKA Riverdale to Kenesaw, Buf- falo and Adams Counties	27	5:50-6 p.m.	25	1-1/2			3	5	Hail	Hailstones up to 1-1/4 inches in diameter. Storm moved east-southeastward.
MONTANA Harlowton, Wheatland County	27	5 p.m.	5	•2			4	4	Hail	Hail covered ground up to 2 inches, largest hail stone 1 inch in diameter. Storm moved southeastward.
MONTANA Billings, Yellowstone County	27	7:30 p.m.	15	*1-2			3	4	Hail	Hail covered ground up to 1 inch, hailstones up to 2 inches in diameter. Hail damage mainly to beets and beans. Storm moved eastward.
ILLINOIS East St. Louis, St. Clair County	27	Evening			1				Electrical	Man struck by lightning.
KANSAS Clay County (extreme south- central portion)		Midnight							Electrical	Barn and 2,000 bales of hay and alfalfa destroyed when lightning hit just before midnight.
KANSAS Minneapolis area, Ottawa County	27	Night							Electrical	House in Minneapolis struck by lightning, with damage to electrical appliances. Another house a few miles north of town burned, with con- siderable loss when hit by lightning about same time.
KANSAS Heizer (north- west of), Barton County	27								Electrical	Oil tank battery struck by lightning. Considerable loss of crude oil and some damage to facilities.
	27									Minor storms also reported near Beulah, Colo.; at Fredonia, near Edson, and in eastern Geary County, Kans.; at La Belle and St. Clair, Mo.; at Stanford, Mont.; and at Belle Fourche, S. Dak.
IDAHO Tetonia (northwest of), Teton County	28	10:45- 11:30 a.m.	5	*1				4	Hail	Ground covered 1 to 2 inches deep; hailstones averaged 1/4 inch in diameter, largest 1/2 inch. Storm moved northeastward.
KANSAS Butler County	28	Early morning				1			Electrical	While lowering window, woman struck by light- ning and knocked unconscious.
LOUISIANA Lake Maurepas, St. John the Baptist Parish	28	1:50 p.m.			0	0			Waterspout	
OKLAHOMA Carnegie area, Caddo County	28	2 p.m.						1	Wind	Strong wind destroyed barn, bent windmill double and damaged house on farmstead northwest of Carnegie. Storm moved southwestward.

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Place	Date	Time	Length of miles	CE STATE OF THE ST	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
TEXAS McLean area, Gray County	28	3:10-7:45 p.m.	6	*3			3	5	Hail, wind, and rain	Strong winds, excessive rain (5.50 inches in 24 hours). Cotton and feed destroyed or damaged; roof of commercial garage caved in by excessive rain, 2 cars damaged.
FLORIDA Dade and Broward Counties	28	Evening			0	0			Funnel aloft	Clouds aloft reported in vicinity of West Hollywood and Pompano Beach.
	28									Minor storms also reported at Davenport, Iowa; at Wyola, Mont.; in Morton area, Tex.; and at Cheyenne and near Huntley, Wyo.
NEBRASKA Superior (5 miles west of) Nuckolls County	29	1 a.m.	5	Nairow	0	0	3	1	Tornado (sus- pected)	Barn blown down.
FLORIDA Daytona Beach area, Volusia County	29	11 a.m.			0	0			Waterspout	Waterspout observed 6 miles east-northeast of Daytona Beach. Dissipated at sea, no damage reported.
ARIZONA Sentinel, Maricopa County	29	2:30 p.m.		800	0	0	4	1	Tornado	Filling station unroofed and homes damaged. Tornado moved northward.
UTAH Salt Lake County	29	4:55 p.m.					4		Wind	Thunderstorm wind, estimated at 75 m.p.h., demolished about 60 percent of roller coaster structure at Saltair Beach.
NEW MEXICO Alamogordo (near), Otero County	29				3				Rain	Highway collision attributed to heavy rains took 3 lives.
NEW MEXICO Lyden, Rio Arriba County	29						°4	c	Rain	Flooding from heavy rains damaged homes, gardens, and orchards. Irrigation and drainage ditches destroyed.
	29									Minor storms also reported at Durango and Oxford and near Paonia, Colo.; at Shenandoah and in Jones County, Iowa; near Stanford, Mont.; and near Cedar Rapids, Nebr.
OREGON Scattered over much of State		After- noons - evenings					4	2	Electrical	Lightning strikes experienced in practically every National Forest in State, as well as on considerable State and privately owned land. Fires following these strikes not generally serious and were brought under control after only small losses.
ARIZONA Willcox, Co- chise County	30	Afternoon					1		Hail	Hail damage to crops. No estimate of damage available.
UTAH Cedar Point, San Juan County	30	Afternoon							Hail	Severe damage reported.
TEXAS Gulf of Mexico	30	6:45 p.m.			0	0			Waterspout	Sighted from boat 18 miles east-southeast of Port Aransas moving west-southwestward.
LOUISIANA Quarantine (southwest of), Plaque- mines Parish	30	10:15 pm.			0	0			Funnel aloft	
COLORADO Western portion	30						5		Rain and wind	Heavy rain in Mesa, Delta, Montrose Counties, and San Juan Basin did heavy damage to roads and crops. 15-foot wall of water 4 miles southeast of Naturita did heavy damage to drilling company camp and equipment. Section of road taken out and parked car washed away. Fruit damaged by rain and wind.
IDAHO Clementsville (near), Madi- son County	30								Hail	Crops damaged on several farms; damage estimated up to 30 percent in some places. Storm moved northward and eastward.
	30									Minor storms also reported at Cherokee, Iowa; and in Day and Hamlin Counties, S. Dak.
TEXAS El Paso, El Paso County	31	Early morning			5	10	6		Rain and Electrical	Plane crash attributed to blinding rain.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
TEXAS Mineola, Wood County	31	4:15-6 p.m.					3		Rain, wind, and hail	Heavy rain, estimated 4 inches in 30 minutes.  TV antennas, live utility wires, and trees blown down, chimney and porch on house damaged, and windows broken. Storm moved westward.
WYOMING Gillette, Campbell County	31	6 p.m.	30	*2-1/2			5	3	Hail	Most damage to windows, cars, signs, etc. Very little crop damage since small grains had already been harvested. Storm moved eastward.
SOUTH DAKOTA Butte County	31	8-10 p.m.					4	3	Wind, hail, and rain	At 8:30 p.m., strong winds blew trees over on cars and houses at Belle Fourche. Heavy rain caused water damage. Baseball-sized hail fell 5 miles north of Newell about 9:30 p.m.
SOUTH DAKOTA Gettysburg (17 miles southeast of), Potter County	31	10 p.m.				3	2		Electrical	Family stunned when lightning followed telephone wire into house, demolishing telephone. In June, cow was killed 50 feet from same telephon pole struck in this storm.
	31									Minor storm also reported in Wyandotte County, Kans.

<sup>\*</sup> Miles instead of yards.

\*\* Yards instead of miles.

Includes crop damage.

C Crop damage.

Storm damages are placed in categories varying from 1 to 9 as follows:

Less than \$50

2 \$50 to \$500

3 \$500 to \$50,000

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 \$500,000,000

9 \$500,000,000 to \$5,000,000

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SEPTEMBER 1957

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Place	Date	Time	Length of path miles	Width of pa	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
WYOMING Worland (2 miles south of), Washakie	1	10 a.m.	4-1/2	*2			1	4	Hail and wind	Storm moved northeastward.
VIRGINIA Tasley area, Accomack County	1	A.m.					4		Electrical, wind, and rain	Electrical storm accompanied by high winds and some rain. 2-story house burned. Wind damage to utility lines and buildings.
PENNSYLVANIA Central City, Somerset County	1	Daytime					4	1	Electrical	Lightning destroyed a hoist house of local coal company.
SOUTH DAKOTA Statewide	1	1-6 p.m.				3	4	5	Hail, wind, and rain	Hail areas widely scattered, mostly in north-central and southeast. Near Howes, gardens and pastures ruined. Buildings and crops damaged near Timber Lake. Rancher and child pelted by stones up to 2 inches in diameter, when caught in open. Young boy had arm broken while trying to escape storm on horseback. South of Firesteel, wind unroofed house and contents ruined by heavy rain. Trees stripped by hail which accumulated to 1-1/2 feet. Southeast of Glencross, stones chiseled wood as well as paint from buildings. Stones 1-1/2 inches across fell at Mobridge. At Pollock, roads and a bridge washed out by heavy rain. In southeast, hail reported from Vermillion to Dell Rapids, with a few stones reaching baseball size.
MASSACHUSETTS Petersham, Worcester County	1	3:40 p.m.			0	0	1	1	Dust devil	Dust devil struck large, open-air tent. Lifted tarpaulin into air with stakes, cables, and ropes flying about. None of a dozen women and children sitting on benches injured.
SOUTH DAKOTA Elkton (northwest of), Brook- ings County	1	Afternoon			0	0			Funnel aloft and thunder- storm	Sighted during thunderstorm.
NEW HAMPSHIRE Nashua, Hills- boro County	1	Late af- ternoon			0	0	2	1	Dust devil	Dust devil lifted asbestos slates from shed and carried them 60 feet to house roof. Twister funnel shaped and was carrying papers, sticks, wood, etc., when it struck. Moved southeastward
NEBRASKA Lincoln, Lancaster County	1	5:30-6 p.m.			0	0	3	2	Wind, hail, and funnel aloft	Many TV antennas downed. Some hail damage to gardens. Funnel cloud reported. Storm moved northeastward.
SOUTH DAKOTA Spink and Brown Counties	1	5:30-7 p.m.	35		0	0	1	1	Tornado and funnels aloft	Sighted touching ground in field east of Mellette Raised as it approached farm buildings. Straw from field could be seen around fringe of funnel. Last sighted aloft 20 miles east of Aberdeen accompanied by other funnels; moved northeastward.
NEBRASKA Valley (north of), Douglas County	1	6-6:20 p.m.			0	0	3	2	Wind and tor- nado (sus- pected)	
WISCONSIN St. Croix Falls, Polk County	1	6:30 p.m					5	1	Rain	6.2 inches of rainfall in 7 hours.
	1									Minor storms also reported in southwestern Iowa; at St. Charles, Mo.; near Fremont, Leigh, and Loup City, Nebr.; and in Cleveland County, N.C.
NORTH DAKOTA Eastern fourt	1,2,3	3							Rain	Heavy rain on September 1, 2, and 3 following some late August heavy rains, flooded fields of potatoes, beets, and cut grain, causing much damage. Many basements in larger towns and cities, both residence and business flooded. At Gwinner, Sargent County, unofficial reports of 7-1/2 inches of rain received with 5 inches in a 2-hour period.
MICHIGAN Kinde, Huron County	2	Midnight 3 a.m.	-				4		Electrical	2 buildings burned after lightning strike.
NORTH CAROLINA Stanly County		2:30 p.m					4		Electrical	Lightning fire destroyed office and warehouse.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
OKLAHOMA Marlow, Stephens County	2	2:30 p.m.	2						Wind, rain, and hail	Strong winds blew small home off its foundation and destroyed small outbuilding. 15 telephone poles blown over. Winds and heavy rain broke tree limbs and flattened crops. Estimated damage to the buildings \$100.
VIRGINIA Roanoke area, Roanoke County	2	3 p.m.					3	3	Wind, elec- trical, and rain	High winds, 60 m.p.h., or more, accompanied by considerable lightning. 3 homes struck by lightning. Trees, buildings, and utility lines damaged by rain. Storm moved northeastward.
OKLAHOMA Duke, Jackson County	2	4 p.m.				1			Wind, rain, hail, dust, and elec- trical	Severe winds lashed area, causing extensive dam and destruction to outbuildings and TV antenna trees broken off, and crops flattened. Woman injured when wind slammed storm-cellar door against her. Considerable dust blew in ahead of storm. Storm moved southward.
NEW YORK Scattered sections	2	Afternoon -evening							Electrical, wind, and hail	Series of severe electrical storms moved through State. Hardest hit sections appear to have been Niagara, Orleans, and Genesee Counties in northwest. Syracuse area, Walkill Valley, and selected communities of southeast. Damage consisted of limbs over power-and communications lines, church struck by lightning in Syracuse, scattered hail damage, and a few injuries to workmen repairing powerline damage.
TEXAS Lockhart (near), Cald- well County	2	9:30 p.m.				1	3		Wind	Strong wind tipped empty trailer which over- turned pickup truck. Driver cut and bruised.
TEXAS Marlin (west of), Falls County	2	P.m.			0	0			Funnel aloft	
	2									Minor storms also reported at Cordele, Ga.; at Atlantic, Iowa; at Cass City and Snover, Mich.; in Gaston, N. C.; at Dallas and in Schuylkill County, Pa.; and at Chilton and Mooresville, Tex.
CONNECTICUT Fairfield County	2-3	Late p.m. 2d-early a.m. 3d							Electrical	Storm with considerable lightning concentrated its effects in Stamford-Norwalk area. Bolt struck feeder line on electrified rail line between New Haven and New York City, causing short delays of trains in Cos Cob area. This was second similar occurrence in area within a week. Power failures to 100 users resulted from lightning-downed limb on line in Darien.
TEXAS San Antonio, Bexar County	3	4:30 a.m.					4		Electrical	Lightning set fire to fertilizer plant which was destroyed, including equipment and fertilizer.
TEXAS Seagraves (near), Gaines County	3	4-5 p.m.	11	4,000				5	Hail	Cotton and feed crops damaged over 11-section area. Storm moved southeastward.
TEXAS Nolan (near), Nolan County	3	5;30 p.m.	5	*1-1/2					Hail, rain, and elec- trical	90 percent of cotton and feed crops destroyed. Storm moved southeastward.
FEXAS Fairview (near) Howard County	3	6 р.ж.	3	*3					Hail	Extensive damage to crops.
OKLAHOMA Ponca City, Kay County	3	8:45 p.m.						1	Electrical	Lightning struck home, causing \$115 damage to electric circuits. Barn struck, causing fire which destroyed 2 barns, 2 tractors, truck, considerable farm machinery, hay, and grain.
FEXAS Eldorado (near), Schleicher County	3	9:30- 10:30 p.m.	3	1,320			°4	С	Wind, rain, hail, and electrical	Winds over 75 m.p.h. House demolished; phone and powerline poles blown down; TV antennas damaged. Rain 2.84 inches in 1 hour and accompanying hail damaged crops. Storm moved southward.
Nottoway, Caroline, Northumberland, and Middlesex Counties	3	P.m.					4	3	Wind, elec- trical, and hail	High winds demolished brooder house and killed 1,200 chicks. Buildings unroofed, and damage to trees and utility lines downed. Lightning fire destroyed barn. Hail accompanied storm in Crewe area. Storm moved westward.
TEXAS Odessa (10 miles west of), Ector County	3				0	0	3		Dust devil	Metal roofing lifted off 100-ft. long building, siding torn out.

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Place	Date	Time	Length of p	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
	3									Minor storms also reported at St. Clair, Mo.; in Buncombe County, N.C.; at Alva, Norman, and Stillwater, Okla.; at Bartonsville, Pa.; at Tullahoma, Tenn.; and at Cameron, Tex.
NEBRASKA Dundy County	4	3:30-4:30 p.m.	35	*10			2	5	Hail	Hailstones 1/2 to 2 inches in diameter. Severe storm, but damage rather low because main crop, winter wheat, had been harvested, and corn stunted by drought. Storm moved southeastward.
NORTH CAROLINA Columbus, Johnston, Lenoir, Pitt, Sampson, and Pasquotank Counties	4	Afternoon			1	1	3		Electrical	Lightning killed 1 boy and injured another under tree, killed 4 mules, set fire to 2 buildings, and damaged telephone lines over several counties
OKLAHOMA Woodward, Woodward County to Alva, Woods	4	4-6 p.m.	45	*3			4	2	Hail	Severe hailstorm, with stones up to size of baseballs covered ground in strip across 2 counties. Heaviest damage in Freedom area. Roofs, windows, automobiles, trees, and gardens heavily damaged. Storm moved northeastward.
County  KANSAS Cheyenne, Thomas, Raw- lings, Gove, and Logan Counties	4	4:15-6:10 p.m.			0	0			Hail, wind, and funnel aloft	During severe thunderstorm, numerous strips of hail occurred from west to east across these counties, damaging much grain sorghum and necessitating replanting of wheat. Strip 10 miles long and 6 miles wide was worst damaged in southeast part of Thomas County. Some fields 100 percent loss. Stones up to golfball size frequent. Many roofs badly damaged and some newly poured concrete at an elevator had to be releveled after hail. Violent wind blew down seven 100-foot T.V. antennas and bent and damaged many others. Several large store windows blown in. Damage at and near Colby estimated at \$6,000 to property and \$50,000 to crops. Small funnel cloud aloft sighted near McDonald, traveling south-southeastward about 4:30 p.m.
OKLAHOMA Butler, Custer County	4	5 p.m.	4	*3			3	4	Hail	Hail up to size of baseballs covered ground 1-1/2 inches deep with solid sheet of ice about 9 miles northwest of Butler. Roofs, windows, automobiles, etc., damaged and broken, and crops destroyed. Storm moved west-northwestward
NORTH CAROLINA Wadesboro (near), Anson County	4	5 p.m.			0	0			Funnel aloft	Funnel observed and described by experienced pilot.
KANSAS Rooks County	4	8-9:30 p.m.							Electrical	Tank battery on oil lease ll miles west and 2-1/2 miles north of Plainville destroyed by lightning. Explosion blew lid of tank about 200 feet. In Stockton vicinity, 2 fires set by lightning 6 miles apart consumed 1,600 bales of hay.
KANSAS Ellis County	4	8:58 p.m.							Electrical	In Hays, 2 separate lightning bolts damaged T.V. set, 2 clocks, blew fuses at 1 home, and split large tree at the other location. Tank battery and 750 gallons of crude oil burned by lightning 3-1/2 miles north of Catharine.
KANSAS Pratt, Pratt County	4	10:30 pm.							Electrical and wind	At Pratt, wind broke limbs and trees, causing outages in powerlines. Lightning blew fuses and transformers in north part of town.
MASSACHUSETTS and NEW HAMP- SHIRE	4	Night				3	4	1	Electrical, wind, rain, and hail	Northeastern Massachusetts hardest hit area. Major damage from lightning-started fires. Falling trees brought down powerlines. Many communities without power and light generally for short periods. Hail in Haverhill, Mass., area - no damage reported. 3 persons injured in traffic collisions in blinding rainstorm.
	4									Minor storms also reported near Russell and in Sumner County, Kans.; near Hyannis, Nebr.; at Jarvisburg, N.C.; at Geary, Okla.; at Scranton, Pa.; and at Bennettsville, S.C.
KANSAS Lyon County	5	1:30-1:50 a.m.	0						Electrical	Lightning set fire to barn and 40 tons of hay, 8 miles north of Emporia, with loss of both.  Poultry house and 100 hens also burned when lightning hit 5 miles north and 2 east of Emporia at 1:50 a.m.
KANSAS Butler County	5	6:43 a.m							Electrical	Barn and contents of baled hay 4 miles north and 1 east of Augusta destroyed by lightning.

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Place	Date	Time	Length of path	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
FLORIDA Panama City Bay County	5	Afternoon			0	0			Waterspout	
NEBRASKA Loup City (near), Sher- man County	5	Afternoon				1	1	1	Electrical	Woman struck by lightning and suffered burns.
KANSAS Brown County	5	6:30-7 p.m.	25	*2-3			5	5	Hail and wind	Hail driven by 60 m.p.h., winds broke many windows, damaged roofs and sidings of houses, destroyed crops, some trees, and shrubs. Many stones size of golf balls and covered ground to depth of 3 inches. 107 windows broken in Morrill high school. Practically every house in Morrill damaged. Storm less severe when it hit Hiawatha about 7 p.m., but greenhouse suffered loss of about 600 panes of doublestrength glass. Storm moved across line from Richardson County, Nebraska. Storm moved southeastward.
NEBRASKA Denton (near), Lancaster County	5	11 p.m.	5	*2			2		Hail	Hailstones size of eggs. Roofs damaged; crops suffered considerable damage. Storm moved southeastward.
KANSAS Beloit (south-west of), Mitchell County		Night							Hail	Considerable local damage done to feed crops in small area.
KANSAS Marshall County		Night				1			Hail	In an area from 6 miles north of Beattie to near Axtell, crops damaged up to 90 percent by hail. At 1 farm house, 1,100 dead sparrows picked up after storm. Air force plane flying through area at time later landed at Topeka with most of glass in nose of plane broken. The engine, cowling, and leading edges of wings dented. Pilot had several cuts on his face.
TEXAS Muleshoe (near), Bailey County	5				1				Electrical	Man working in field killed by lightning.  Minor storms also reported at Bellevue, Manilla, and Paullina, Iowa; at Augusta, Durham, and Herington, Kans.; at Whitehall, Mich.; near Bloomfield and at Table Rock, Nebr.; at Cushing Fargo, Granite, and Meeker, Okla.; and in Berkeley County, S. C.
TEXAS Port Aransas (8 miles east of), Nueces County	6	9:25 a.m.			0	0			Waterspout	Waterspout moved westward.
TEXAS Whiterock, Hunt County	6	2:30 p.m.					*4	С	Wind, hail, and rain	Large broiler house and 1,000 fryers ready for market destroyed; farm home damaged, barns blodown, and trees uprooted.
NORTH CAROLINA Wayne County	6	Afternoon	1				3		Wind and rain	Tree blown down on automobile, roofs damaged, and plate-glass windows blown out, with accompanying water damage from 2.25 inches of rain in 20 minutes.
TEXAS Sweetwater, Nolan County	6	3:52 p.m.			2	12			Electrical	Lightning struck tree beneath which girl studen awaited transportation from school. 2 killed, 8 others hospitalized, and 4 slightly injured.
TEXAS Clarendon and Hedley, Donley County		5:15 p.m.	. 1!	5 *2					Hail	Hail in scattered areas destroyed about 1,200 acres of cotton and many more acres of feed crops; damaged some roofs. Storm moved northeastward.
TEXAS Memphis, Es- telline, High Point, Carey, and Tell areas Hall and Chil- dress Counties		6-7 p.m.	54	3 *4				5	Hail	Cotton crops heavily damaged or destroyed in scattered areas. Storm moved northeastward.
NORTH CAROLINA Burke County	6	6:30 p.m					4		Wind	Warehouse blown down and store unroofed.
NEW MEXICO Clovis, Curry	6	P.m.							Rain	5.26 inches of rain fell, flooding lowlands and damaging streets and highways.

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Place	Date	Time	Length of path miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
CALIFORNIA Los Angeles County, west- ern San Ber- nardino and Riverside Counties, Orange, and San Diego Counties	6						4		Wind, elec- trical, and rain	Widespread thunderstorms associated with extremely warm weather caused many brush fires and locally strong winds. Lightning-caused brush fire at Palmdale destroyed 1 home, 2 garages, and a car, and damaged 2 other structures. Flash flood inundated roads in Mojave Desert between Palmdale and Lancaster. Winds up to 60 m.p.h., swept parts of San Bernardino County, and lightning caused brush fires in Mill Creek, Oak Glen, Lucerne Valley, and Mission Canyon areas. Brief windstorm in Barstow tore down powerlines. In San Diego County, gusty winds knocked down powerlines, disrupting service at Chula Vista, Coronado, and Imperial Beach. Winds of 43 m.p.h., reported at San Diego Yacht Club.
	6									Minor storms also reported at Arkansas City, Augusta, Baxter Springs, Glen Elder, near Junction City, Phillipsburg, and Wichita, Kans.; in Winston-Salem area, N. C.; at Ardmore, Claremore, Granite, Sequoyah, and Stigler, Okla.; and at Decatur, Tex.
	6-7									Minor storm reported at Odessa, Tex.
TEXAS Waco, Crawford, and Lorena areas, Mc- Lennan County	7	2:20-2:50 a.m.					4		Electrical	Barn and feed contents destroyed by fire caused by lightning. Another barn with contents and a vacant house struck by lightning and burned down; calf fatally burned.
MISSOURI Aurora, Lawrence County	7	7 a.m.					2		Rain and electrical	1.15 inches of rain in 30 minutes. Severe lightning.
VIRGINIA Rappahannock and Culpeper Counties	7	4 p.m.					3		Wind, elec- trical, and rain	Storm accompanied by winds to 57 m.p.h., lightning and heavy rain. Church steeple blown off at Culpeper. Scattered damage to trees, buildings, and utility lines. Storm moved westward.
	7									Minor storm also reported near Newman Grove,
FLORIDA Jacksonville, Duval County	8	1 p.m.			1				Rain and wind	Nebr.  1 person drowned in St. Johns River when rough waters washed him overboard from boat.
MASSACHUSETTS Leominster Worcester County	8	9:30 p.m.				2	2	1	Wind and electrical	Strong gust of wind during electrical storm blew in window of restaurant, causing injury to 2 women.
WEST VIRGINIA Mingo County (central portion)	8							1	Rain	Heavy rains caused temporary overflow of small streams, inundation of roads and highways in several places, and some traffic-blocking land- slides.
	8									Minor storm also reported at Daufuskie, S.C.
TENNESSEE Cleveland, Bradley County	8-16							1	Rain	12 to 15 city streets flooded, washed out, or closed.
FLORIDA Jacksonville, Duval County	9	6 p.m.			0	0			Rain, wind, and water- spout	Wind gusts to 68 m.p.h., damaged number of homes in Cedar Hills section; trees blown down and electrical and telephone services disrup- ted. Waterspout also sighted during storm.
NEW MEXICO Silver City, Grant County	9	P.m.							Rain	Considerable street damage.
	9									Minor storms also reported near Arnold and St. Libory, Nebr.
MARYLAND Baltimore City area	10	2:45 p.m.							Rain	Locally severe thunderstorms and locally heavy rains hit Baltimore area. Downpour of rain and flash flooding knocked out Charles Street bridge, contributed to failure of a 150-ft.sectio of 72-year old retaining wall which slid into bed of Jones Falls. Heavy rains throughout city flooded streets and basements and stalled vehicles at many points.
TENNESSEE Johnson County (south-central portion)	10	3-3:15 p.m.	11	2640				5	Hail	Some hailstones club-shaped 2 inches or more in length; ground covered with hail to depth of 1/2 inch. Some damage to roofs and windows, but greatest damage to tobacco crops in process of being harvested and to truck crops. Storm moved east-northeastward.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
DELAWARE Bridgeville, Sussex County	10	3:20 p.m.			0	0			Tornado	Twister hit narrow belt of Sussex County. It hurled large chickenhouse 50 feet into tree, knocking poultry farmer to ground. It then cut swath of destruction through woodlands near Bridgeville area. Sudden storm was variously described by residents as "a big funnel", a "whirlwind", and "a column of air that looked like it had a big cedar tree in its center". Storm jumped leap-frog style and hit other points, snapping trees like match sticks and causing some minor property damage. Storm moved northeastward.
PEXAS Pecos-Reeves County line	10	7 p.m.						6	Hail, wind, and rain	Severe damage to maturing cotton. Storm moved northeastward.
Edwina Commu- nity, Cooke County	10	Early p.m.							Hail	Hail "as large as Hens' eggs" extensively damaged plum and apple trees and shrubbery.
PENNSYLVANIA Southeastern Counties	10	Night					4	1	Electrical	Lightning struck several homes in area.
	10									Minor storms also reported at Great Bend, Topeka, near Larned and Russell, Kans.
OKLAHOMA Fairview, Major County	11	6:10 a.m.						1	Electrical	Lightning struck and burned large barn and contents.
OKLAHOMA Cresent, Logan County	11	10:30 a.m.						1	Electrical	Lightning caused fire which destroyed large bar and contents of seed, machinery, and horse trailer.
EW MEXICO Lea County (northern portion)	11	3 p.m.					°5	c	Hail and rain	Major damage to crops. Hail up to 1 inch in diameter.
OUISIANA New Orleans Orleans Parish	11	3:30 p.m.				3	3	1	Electrical	3 workers injured, 1 seriously, when lightning struck drilling rig.
CEXAS Dallas County	11	3:30 p.m.	1/8	75			4		Wind	Drive-in theater screen and adjacent lumber she damaged. Metal roof of shed blown 150 feet, dropped on top of gas main which broke. Strailine winds, no tornado activity. Storm moved eastward.
EXAS Andrews, Andrews County	11	3:35 p.m.				4	4		Wind, hail, rain, and electrical	Store windows broken, cars in car lot damaged, trailer houses damaged, 5 houses damaged by flying debris, trees uprooted, small buildings blown down. Woman and 3 small children injure. Twister-like activity, shown on radar as not tornado. Storm lasted less than 15 minutes Moved southeastward.
CEXAS Seminole, Gaines County	11	5 p.m.	60	*6-8			5	5	Hail and rain	Probably as many as 1,500 acres of cotton damag in varying degrees. In Seminole, roofs batter windows broken, automobiles and trucks scarred signs smashed. Accompanying heavy rain. Store moved southeastward.
EXAS Between Melvin and Brady, McCulloch County	11	5-9:30 p.m.	15- 20	*3-4			5	4	Wind and hail	Barn and chickenhouse with 900 chickens destroy trees and feed and haystacks blown down and scattered. Hail damaged crops. Storm moved eastward.
EXAS Nolan area, Nolan County	11	7 p.m.	5	*4					Hail, wind, and rain	Cotton and maize, some hegari and cane sorghum 50 to 100 percent destroyed. Some roofs destroyed. Accompanying winds 50 to 60 m.p.h., and heavy rain. Storm moved southeastward.
EXAS North of Rotan to Roby, Fisher County		7 p.m.							Hail	Hail in Double Mountain area damaged about 25 percent of cotton crops over several hundred acres. Storm moved southward, covering severa thousand acres, with estimated 30 percent damages.
EXAS Muenster (near), Cooke County	11	7;30 p.m.	10	*2			4		Electrical and wind	Lightning-caused fire destroyed 2 barns and about 6,000 bales of hay and other farm items. Tree limbs and small trees broken off; fuses blown and plugs in cords blown out in homes. Storm moved eastward.
EXAS La Pryor (4 miles north- west of), Za- vala County	11	8-11 p.m.				1	3		Electrical, wind, and rain	Lightning ignited large 2-story barn, destroying it and contents. Owner had heart attack. Wind and rain moderate. Storm moved southward.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
ENNESSEE Maryville (near), Blount County	11	11 p.m.							Electrical	ll cows struck by lightning and killed.
EXAS Courtney- Tarzan area, Martin County	11							6	Hail and rain	During 12-minute period, hail severely damaged maturing cotton. Stalks stripped, then shredded; feed completely denuded; tree limbs twisted off. Some farmers had 100 percent loss, others from 10 to 50 percent. Accompanied by 1 inch rain. Storm moved northway then southeastward.
	11									Minor storms also reported at Florence and Haleyville, Ala.; at Alva, Kingfisher, Tulsa, Waurika, and Yale, Okla.; in Newport County, R. I.; and at Knoxville, Tenn.
EXAS Nacogdoches, Nacogdoches County	12	4-7 a.m.					5		Electrical	Lightning-caused fire destroyed large warehouse and contents, mostly broiler feed, and damaged nearby boxcar and contents.
EXAS San Antonio (25 miles north of), Bexar County	12	Early a.m.					4		Electrical	Lightning struck and burned barn with 39 goats, 1200 bales of alfalfa, 1050 bales of hegari, 350 sacks of cottonseed hulls, and machinery.
ARYLAND Baltimore City area	12	7 p.m.						1	Electrical	Lightning struck at least 2 homes in Baltimore and top of utility pole in Catonsville. Light ing crumbled chimneys in Hamilton and Fullerto districts.
ENTUCKY Boyd County	12	P.m.					4		Wind	Winds accompanying thunderstorm caused consider able property damage, uprooted trees, and caused disruption to electric and telephone services. Roofs lifted off buildings, homes and other buildings damaged by falling trees.
ENNESSEE McMinnville, Warren County	12	P.m.							Electrical	16 sheep struck by lightning and killed.
	12									Minor storm also reported at Waynesboro, Pa.
ANSAS Thomas County	13	1-3 p.m.	5	1000	0	0	4	4	Hail, wind, and funnels aloft	Hail size of golf balls fell at Colby and to southeast of town. Storm moved slowly southea ward with hail continuing 15 to 20 minutes. Little wind accompanied hail. Major damage to roofs in southern part of Colby and to grai sorghums in southeastern part of County. 3 funnel clouds observed aloft south of Colby. Attending locally severe winds destroyed 2 far buildings.
ASSACHUSETTS Saxonville, Middlesex County	13	3:30 p.m.			0	0	1	1	Dust devil	Occurred in Pinefield development. No damage. Moved eastward.
EW MEXICO Roswell- Dexter area, Chaves County	13	4:40 p.m.					°5	С	Rain, hail, and wind	Major damage to crops north of Dexter. Barn and 2 graineries destroyed; some evidence of tornado action but unable to confirm.
EXAS Muleshoe to Kress, Bailey and Swisher Counties	13	5-9 p.m.	80	*1-3				6	Hail and rain	Cotton damaged 50 to 100 percent; damage to grain sorghums up to 50 percent; forage crops stripped. North of Muleshoe, hail preceded by hard rain. Very little wind. Storm moved eastward.
OLORADO Eastern portion	13	Afternoon -night							Electrical, snow, and hail	Electrical storm did \$2,000 damage to power equiment in Littleton area. Lightning struck 13,000-volt breaker, south of Littleton, cuttion out power that serves Louviers and adjacent communities. Pilot reported large hail aloft, 15 miles southeast of Pueblo, which did damage to aircraft. First heavy snow of season fell along Continental Divide closing Trail Ridge and Mount Evans roads for a time. Storm moved eastward.
ANSAS Clay County	13	6:39 p.m.			0	0			Funnel aloft	Funnel cloud aloft reported by pilot about 45 miles northeast of Salina.
W MEXICO lobbs and icinity, ea County	13	P.m.			0	0			Funnels aloft	Reports of funnel clouds both north and south of Hobbs; evidently did not touch ground.
ENNESSEE Bristol, Sullivan County	13	P.m.						1	Rain	Cloudburst flooded streets, backing water into some store fronts.

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Place	Date	Time	Length of p	Width of pay	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
ENNESSEE Knoxville, Knox County	13					2		1	Electrical	Lightning struck 2 power transformers, causing minor injuries to 2 women in nearby buildings, damaged roof of 1 residence and tore hole in concrete-block wall of a second.
	13						a.			Minor storms also reported near McPherson and Tescott, Kans.; and at Alva and Beaver and in Harper County, Okla.
KLAHOKA Gage, Ellis County	14	12:20 a.m.	5				4		Hail and rain	Heavy hail, with stones up to 2 inches in diameter, damaged roofs, automobiles, gardens, etc. Storm moved southwestward
EORGIA Dade and Floyd Counties	14	A.m.					4	1	Electrical	Lightning destroyed 1 residence and 1 barn and killed several farm animals. Several other houses damaged and many electrical appliances burned out. Utility lines damaged, causing interruption of service in several areas.
EXAS Provident City, Colorado County		12:15 p.m.			0	0			Funnel aloft	Observed moving northeastward. Extended to within 100 feet of ground.
KLAHOMA Custer, Blaine, Caddo, Canadian, Grady, Okla- homa, and Cleveland Counties	14	2-6 р.ш.	90	10			5	5	Hail, wind, rain, and electrical	Severe hailstorm caused variable and spotted destruction over extensive area from southwest of Clinton, Custer County, to southern part of Oklahoma City, Oklahoma County, and in norther part of Cleveland County. Stones mostly small than golf balls, with a few up to as large as baseballs caused extensive roof, window, and automobile damage throughout area. Up to 50 percent loss of cotton and feed crops resulted from hailstorm. Strong winds at spotted point caused damage to trees, TV antennas, and outbuildings. Severe lightning accompanied storm Considerable damage resulted to electrical appliances in Hydro area of Blaine and Caddo Counties. I barn burned which contained 1,000 bales of hay. Heavy rains caused local floodiand a building collapsed under weight of water causing estimated \$15,000 damage. Storm moved eastward.
ABANA Flat Rock, Jackson County	14	Late af- termoon				2	1	1	Electrical	Lightning hit light pole. I man severely burn and trousers torn off by bolt, while another about 15 feet away knocked briefly unconsciou but otherwise not hurt.
XAS fichita Falls rea, Wichita County	14	5-6 р.т.					4		Wind, rain, and hail	Barn west of Wichita Falls leveled, automobile and tractor damaged. Roofs damaged in Nocona Widespread minor damage at Randlett where observer said, "In 15 minutes 3 inches of rain and hail combined fell there." In Wichita Fafilling station smashed, roof removed and interior left a shambles. School windows broke signs blown down; minor damage to roofs, poro and other structures. No evidence of tornado activity.
LAHOMA El Reno area, Canadian County	14	5:30 p.m.						1	Electrical, rain, and hail	Lightning struck home, burning out TV set, set divan on fire, and cracked plaster. Barn sow west of El Reno hit by lightning and burned contained 3000 bushels of grain. Hail fell i area. Storm moved eastward.
LAHOMA landlett, lotton County o Waurika, lefferson ounty	14	5:30-6 p.m.	30	*8	0	0	4	4	Wind, rain, and hail	Strong winds and heavy hail caused considerable damage to roofs and outbuildings on about hall and half basis. Winds estimated at 80 m.p.h. and hail up to 2 inches in diameter reported. Cotton and feed crops damaged up to 50 percent as result of hail. Heaviest hail damage resulted over strip 10 miles long and a mile will from Randlett to Taylor. Storm moved eastwar
LAHOMA icClain, Cleve- and, Pottawa- omie, Semi- iole, and lughes Counties		5:30-8 p.m.	70	800	2	6	5	4	Tornado, wind, rain, and hail	Tornado formed in vicinity of Wayne, McClain County, traveled hit and miss path, and last damage noted in northern Hughes County. Firs evidence on ground was in southern Cleveland County along path 3 miles long and 1/4 mile wide where 3 barns destroyed, trees broken, a crops flattened by wind, rain, and hail. Wor hit was 7-mile path near Sacred Heart in Pott watomie and Seminole Counties at 6:55 p.m. 2 persons killed and 6 injured in 3 homes which completely destroyed. Many other homes and buildings extensively damaged. Extensive damanoted throughout area. Oil field equipment leestimated at \$40,000 included 8 rigs destroyed Last damage noted in Butner and Wetumka area. Butner school had damage estimated at \$32,000 Wind damage at Wetumka to roofs, trees, and Tantennas extensive. Storm moved east-northeas ward.

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Place	Date	7	[ime	Length of path, miles	Width of path,	of pe	Injured	P (e	Property exclusive of crops)	Crops	of		
LAHOMA Shawnee (5 miles west of), Pottawa-	14	5:	56 p.m.	5	400	+		3	5	4		ain	Bethel community 5 miles were seen and numerous School buildings, 15 to 20 homes, and numerous outbuildings destroyed or damaged. 3 persons severely injured when their homes destroyed. Heavy rains fell in area. Storm moved eastward.
NNESSEE dristol, bullivan	14		6:35 .m.							1	a	nd elec-	Heavy rains flooded downtown streets and base- ments. Wind uprooted trees and damaged power- and phone lines. Lightning caused 1 minor fire.
XAS arkburnett 5 to 6 miles yest of),		6:	15 p.m.				0	0			Fu	innel aloft	Heavy rains flooded numerous streets. Wind de-
CNNESSEE Chattanooga and vicinity, Hamilton	14	4 6	;40 p.m	•						1		ind, rain, and elec- trical	Heavy rains flooded numerous of tool shed, damag- roofed and blew out side of tool shed, damag- ing nearby truck and haybaler, uprooted several trees, downed powerlines, and damaged 2 stored airplanes. Lightning caused minor damage.
County  EXAS  Decatur (west northwest of)	-	4 8	:25 p.m	1.			0	0			F	runnel aloft	tod a tornado. Farm home
Wise County  EXAS  Gainesville,  Cooke County		4 9	9 p.m.		3 8	80		1	3			Wind and electrical	Straight-line wind, not a tornado. Farm home and outbuildings, boat, and trailer damaged; trees knocked down, and hothouse destroyed. Lightning shocked and partially paralyzed a woman temporarily. Storm moved northward.
EXAS Sherman,		14	9:30 p.	m.					4			Electrical	Lightning touched off fire at some oil tanks.  Also caused fire at a home, with extensive damage to wiring and furnishings.
Grayson Count OKLAHOMA Wewoka (10 miles east o		14	P.m.				0	0	1	1		Tornado	Highway Patrol reported tornado on ground 10 miles east of Wewoka. No additional information reported. Evidently struck in open country for a short time.
Hughes Count  OKLAHOMA  Marshall and Johnston Counties	У	14	P.m.									Wind, rain, electrical, and hail	in Marshall County, crop damage near Lark. Winds at Mannsville, crop damage near Lark. Winds at Mannsville, Johnston County, blew down a tree that damaged a truck.
OKLAHOMA Kingfisher County		14	P.m.				1			1		Electrical	3 lightning strikes reported. 2 homes hit about 10 miles west of Kingfisher. Damage to 1 home estimated at \$100. Woman killed by lightning near Cashion while out in open grass field.
TENNESSEE Johnson Cit Washington	у,	14	P.m.				1		1		1	Electrical	ll-year-old boy struck by lightning and killed while playing under maple tree. It is reported that rain had not yet started when lightning struck.  Minor storms also reported near Flat Rock and at
County		14										*	Huntsville, Ala.; at Without and Prague, view, Garber, Okmulgee, Pauls Valley, Prague, Tishomingo, Tonkawa, Westville, and near Kingfisher, Okla.; and in Muenster area, Tex.
OKLAHOMA Tahlequah, miles sout west of),	(7 h-	15	1:30	a.m.					4		1	Electrical wind, and rain	
Cherokee County  OKLAHOMA Pushmataha	a and		5 A.m.		40	*25	5					Wind, rain and elec- trical	of Choctaw Counties. Storm moved southeastward
Choctaw Counties TENNESSEE			.5 Noon	•					1		1	Electrica	inflicting injuries
Columbia, Maury Cou PENNSYLVAN Germania,	nty		15 4 p	. m .	2	3	0	0	o	4	1	Tornado	Numerous windows blown out, barn destroyed, and trees and utility poles sheared off at ground level. Tornado moved northeastward.  Tornado struck hangar at Penn Valley airport near the struck hangar at Penn
Potter Co PENNSYLVAN Selinsgrand Sunbi areas, Si and Norti land Cou	NIA ove ury nyder humber	-	15 7 p	, m ,				0	2	4	1 428	Tornado	Tornado struck hangar at Penn valaiy lanes insic Selinsgrove, injuring 2 men. 4 airplanes insic hangar also damaged, 1 extensively. Tornado moved southeastward.

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			path,	of path,	Number of persons		Estimated by categ		Character	
Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
ALABAMA Dothan, Houston County	16	12:50 p.m.			0	O	1	1	funnel aloft and rain	Following report received from Chief, Air Traffic Communications Section, Dothan: "A large cumulation of the communication of the communication of the communication of the cumulation of roll cloud appeared to be about 1200 or 1500 feet above surface. Just behind roll, large funnel formed and extended to about 500 feet above ground. Funnel was approximately 2 to 3 hundred feet in diameter. Wind moved counter clockwise around funnel. Funnel observed for approximately 8 minutes. This system appeared to be moving approximately 20 m.p.h. Heavy rainshowers observed behind roll cloud. This condition verified by a reliable party during the condition at the location by telephone. As funnel dissipated a large eye formed in the roll cloud."
MAINE Sherman Mills, Aroostook County	16	2:30-3 p.m.	5	50	0	0	3	2	Tornado	Funnel cloud observed. Tornado wrecked barn, severely damaged 2 homes, twisting one off its foundation and nearly ruining it. Shed upended and smashed, and children's playhouse ripped apart. Many trees downed, including a number of apple trees. Several large, heavy wooden beams carried 300 to 500 feet in air. Evidence of skipping about a mile in each of 2 places along 5-mile path. Tornado moved eastward.
MASSACHUSETTS Springfield and vicinity, Hampden County	16-17	Evening- early a.m.					4	1	Rain and elec- trical	More than 100 locations reported sewers backing up, cellars flooded, and washouts. Trees struct by lightning fell across powerlines, causing brief loss of power.
WASHINGTON Eastern portion	17	Evening			2				Wind and dust	Visibility reduced to zero in several areas by blowing dust. Several automobile accidents resulted from restricted visibility. 2 persons killed when their small plane crashed near Kennewick during duststorm. Large number of power and communication outages occurred.
Southeastern portion	17-18				3		5	5	Tropical storm	Tropical storm Esther which moved northward acro southeastern Louisiana during night of 17th and 18th notable mostly for heavy rains which fell in squalls moving northeastward from center. Heaviest rains fell in Plaquemines Parish from Burrwood to Port Sulphur with 18.11 inches falling at Delta Wildlife Refuge near Pilottown between 9:10 a.m., on 17th and 3:30 p.m., on 19th. At Port Sulphur, 2.50 inches fell in 1 hour between 2 and 3 a.m. on 18th.  Small house blown down at Boothville during squall and livestock feed plant collapsed at Amite reportedly from heavy rains of storm. Combination of heavy rains and tidal water flooded homes in Buras area from 18th through 26th, with considerable loss of furnishings and damage to floors and walls. 2 boys drowned in rain-swollen canals in New Orleans and boy electrocuted by "live" wire while pushing boat through floodwaters at Buras. These are indirectly attributable to storm Esther.
Iredell County	17~18						4	3	Rain	Up to 9 inches of rain fell in parts of County in less than 24 hours, causing flash-flood damage to lowland crops, livestock, and property.
MISSISSIPPI Southern half	18	All day				2	5	5	Tropical Storm	Tropical storm Esther moved northward through central Mississippi during morning of 18th. It caused high tides on coast, with widespread minor wind damage, but heavy rains over Panhand and northward to Laurel caused further damage by flooding highways, stores, and homes. Storm rains exceeding 10 inches recorded at Bay St. Louis, Biloxi, Gulfport, Richton, and Van Cleave. On the heels of previous heavy rains, squalls and heavy rains of Esther damaged cotton and corn in southern half of State. 2 persons injured by downed "live" wire at Biloxi.
LABAMA Selma, Dallas County  See footnotes		2:45 p.m.		100	0	0	4	3	Tornado	Began along river just east of Selma and followe skipping path. 3 important short dips destroyed tenant houses, damaged 3 others, and destroyed corn crib. Crop loss mostly to open cotton. Group of women in card game commented on noise being made overhead "by those planes", and late identified roaring wind which did not strike the house. I man loaded his family into a car and outran the boiling black funnel. He return to find considerable damage to his premises. Storm moved north-northwestward.

SEPTEMBER 1957

			path,	path,		nber rsons	Estimated by cate	damage gories t		
Place	Date	Time	Length of p	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
NEBRASKA North Platte, Lincoln County	18	4-5 p.m.	10	*3			4	3	Hail	Hailstones 1/2 to 1-1/2 inches in diameter. Storm moved southeastward.
NEBRASKA Pierce, Pierce County	18	11 p.m.				1	2	1	Electrical	Woman burned.
	18									Minor storms also reported at Mobile, Ala.; at Gardner, Mass.; at Ord and Pierce, Nebr.; at Elizabeth City and Hertford, N.C.; and at Montrose and Wakonda, and in Brown, Grant, Hand, Lincoln, and Tripp Counties, S. Dak.
MONTANA Helena and vicinity, Lewis and Clark County	18-19	5:45 a.m.	50	*40			4	1	Snow	24-hour snowfall of 13.4 inches was greatest 24-hour September snowfall of record, and 9-inch maximum depth was also a new September record. In Helena, heavy snow broke trees and limbs requiring \$9,000 labor from city crews to remove debris. Damage to trees severe, impossible to determine money value. Telephone and power companies expended \$1,350 repairing lines broken by falling tree limbs. Snow on
ALASKA Barter Island area	18-22	10:30 p.m. 18th- 8 a.m. 22d				3			Wind and snow	mountain passes hampered motor traffic.  With lack of ice on Arctic Ocean water became very rough. Abnormally high tides. Section of land washed away between Barter Island and Spit where runway and airport installations located. About 4,400 barrels of aviation gas washed away Part of runway undermined by rough water. Navy LST ran aground and whale boat lost in storm. Snow drifted to 10 feet deep. Many vehicles trapped by drifts. 3 Weather Bureau personnel injured while attempting to launch RAOB balloon on 19th. Wind speed reached peak on 19th of about 75 m.p.h., and gusts to about 95 m.p.h.
FLORIDA New Port Richey, Pasco County	19	11:45 a.m.			0	0			Waterspout	Sighted offshore from New Port Richey; touched water.
WISCONSIN Hillsboro (6 miles northwest of), Vernon County		12:30 p.m.	10	165	0	0	4	4	Tornado	Tornado moved northeastward.
	19									Minor storm also reported at Blair, Nebr.
KANSAS Morris County	20	6:30 a.m.							Electrical	Barn south of Council Grove, with 500 bales of hay and one north of town, with 900 bales of hay, struck by lightning and burned.
KANSAS Franklin and Johnson Counties	20	Early morning			0	0			Funnel aloft and elec- trical	About 4:20 a.m., funnel aloft observed 3-1/2 miles southwest of Ottawa. Lightning flashes made funnel distinctly visible, in vertical position. Also usual loud roar heard. Apparently same storm that passed over Sunflower in early morning which had dirty-brown appearance. Funnel observed to swoop low to tree tops near Sunflower, but no actual damage resulted. Storm moved northeastward.
KANSAS Sedgwick County	20	Early a.m.							Electrical	Several lightning strikes caused damages in and near Wichita about daybreak. At 5:08 a.m., tree struck and 3-inch electric cable cut in two at mattress factory in east Wichita. Barn filled with 1,000 bales of hay burned northeast of Kechi, and church struck and tile torn from roof. Stones from building thrown 200 feet.
KANSAS Burlington (near), Coffey County	20	Early morning							Electrical	2 barns burned when struck by lightning.
MISSISSIPPI Walthall County	20	2 p.m.			0	0	2	2	Tornado (suspected)	Unconfirmed tornado in uninhabited eastern portion of Walthall County; thunderstorm reported at Tylertown.
TEXAS Hardeman, Wilbarger, Foard, Hall, and Childress Counties	20	4:30-10 p.m.					5	5	Hail and wind	Extensive storm damaged much irrigated cotton, and destroyed wheat crop. Damage spotted, estimated 25 to 90 percent; most severe in Odell, and Quanah, and Chillicothe areas. Windows broken; roofs and TV antennas damaged; watermelon crop destroyed. Storm moved eastward.
TEXAS Midland (18 to 20 miles south- west of), Mid- land County		5:20 p.m.			0	0		- 430 -	Funnel aloft	

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Place	Date	Time	Length of path,	Width of pe	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
OKLAHOMA Custer and Blaine Counties	20	5:30 p.m.	•		0	0			Tornado, wind, rain, hail, and elec- trical	Several persons sighted large funnel touching ground just west of Clinton and moving toward Arapaho. No damage reported. Strong winds in area blew down trees and damaged utility lines. In southern Blaine County, several farmsteads reported damage to buildings and trees from strong winds. Heavy hail reported in eastern Custer and southern Blaine Counties. Storm moved north-northeastward.
Yernon (6 miles north of), Wilbarger County	20	6 p.m.	1/2	100- 200	0	0	4		Tornadoes	2 funnels reached ground, tore end off hangar at airport, damaged house and garage, debris strew about 200 yards. Electric light posts blown down, 2 barns damaged, and stack of hay scattered. Storm moved southward and southeast ward.
OKLAHOMA Tillman County (western portion)	20	7-9 p.m.							Wind, rain, hail, and electrical	Lightning fire burned home northwest of Frederick. Remodeling and new kitchen equipment valued at \$4,000 had just been completed. Strong winds, heavy rain, and hail which covere area 10 miles by 5 miles 2 inches deep with stones up to 3/4 inch in diameter caused damage up to 50 percent to cotton and grain sorghums. Hail caused considerable damage to roofs and strong winds twisted house off its foundation and damaged outbuildings, trees, etc.
Ansas Arkansas City (south of), Cowley County	20	8:20 p.m.							Electrical	Lightning struck a large barn which appeared to explode. The barn, 1700 bales of hay, 1000 bushel of oats, and some feed and equipment lost.
OKLAHOMA Caddo County	20	10 p.m.							Electrical and rain	Lightning struck home, burned out TV set and freezer in Carnegie. Large barn filled with hay and seed wheat burned by lightning near Alfalfa. Lightning fire burned barn and 750 bales of hay 8 miles east of Carnegie. Heavy rains of up to 6 inches fell in area.
KLAHOMA Marlow area, Stephens County	20	10 p.m.			0	0	1	1	Tornado	Funnel aloft sighted west of Marlow, moved eastward aloft across City, and dipped to ground momentarily 2 miles east. No damage reported.
ANSAS Sedgwick County	20	10:40 p.m. and 10:55 p.m.					4		Electrical	Repeated bolts of lightning 15 minutes apart struck Sandy Beach Inc. facilities in south Wichita, destroying large dance hall, beach house, oil storage tank, and appliances and resort equipment. Second bolt appeared as ball lightning and did little damage.
	20									Minor storms also reported at Muscatine and Ottumwa, Iowa; at Arkansas City, Kansas City, Neodesha, and Ottawa, Kans.; at Canton and Salisbury, Mo.; and at Lawton, Okla.
ISSOURI Osceola, St. Clair County	21	1 a.m.							Electrical	Large barn and contents destroyed when hit by lightning.
KLAHOMA Cushing, Payne County	21	8:15 a.m.				1	2	1	Electrical	Lightning struck sink in dairy barn. 2 persons and horse knocked down by bolt, 1 received minor injury. Framework around sink splintered
KLAHOMA Bryan County	21	Day					3	4	Rain and electrical	Up to 11 inches of rain fell over Bryan County, causing extensive damage to cotton and peanut crops. Storm moved southeastward.
ICHIGAN Shiawassee and Genesee Counties	21	4 p.m.	26	30	0	0	°3	С	Tornado	Tornado traveled east-northeastward from Owosso to 6 miles east of Flushing. Damage not continuous, funnel dipping several times observed by witnesses. Damage mostly from trees falling on buildings.
ENNSYLVANIA Erie, Erie County	21	6 p.m.	440	200	0	3	4	1	Tornado	Widespread property damage resulted. 3 persons ; jured by flying objects. Numerous windows broken, trees uprooted, and roofs blown off. Tornado moved southward.
CLAHOMA Ringling, Jefferson County	21	P.m.,				2		1	Electrical	Woman struck by lightning while in cafe and pedestrian received slight shock. Lightning struck house, damaging wiring and telephone.
	21									Minor storms also reported at Coalgate and Norman and in Garvin County, Okla.; and at Abilene, Tex.
ENNESSEE Memphis Shelby County	21-22							1	Rain	Heavy rain flooded streets and about 50 homes; 250 other homes affected.

			path,	path,	Num of per		Estimated by categ		Character	
Place	Date	Time	Length of path miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
TEXAS Harris, Bra- zoria, Cham- bers, Liberty, Jefferson, Colorado, and Matagorda Counties	21-22							6	Rain	Rice crop damaged to extent of about \$15 per acre.
MICHIGAN South Fox Island (5 miles south- east of), Lee- lanau County	22	1:21 p.m.			0	0			Waterspout	Waterspout moved northeastward.
TENNESSEE Knoxville, Knox County	22	P.m.				1	1	1	Electrical	Woman shocked by lightning while indoors, suffered minor injuries.
MASSACHUSETTS, VERMONT, and NEW HAMPSHIRE	22	Evening				1			Rain and electrical	Heavy rains caused some road washouts in parts of upper Connecticut Valley. Clogged drains caused street flooding in Pittsfield, Mass., and several nearby towns. Loss of light and power in scattered areas of upper Connecticut Valley when transformers struck by lightning.
	22									Minor storms also reported in Harlan County, Ky at St. Joseph, Mo.; and at Vandergrift, Pa.
MASSACHUSETTS Framingham, Middlesex County	25	11 a.m.			0	0	1	1	Dust devil	Spiraling dust cloud carrying leaves and debris observed by several persons. Caused no damage
MAINE, MASSA- CHUSETTS, NEW HAMPSHIRE, and VERMONT	26	All day							Wind	Northwest gales did widespread damage. Major losses resulted from wind-downed trees falling against buildings and across powerlines.
TEXAS Earth area, Lamb County	26	6 p.m.	40						Hail	Cotton, grain and feed crops damaged from light to 75 percent. Storm moved northeastward.
NEW MEXICO Roosevelt County (northern portion)	26	P.m.	18	•9				5	Hail	About 3,000 acres of crops damaged. Hailstones reported 1/2 to 1-3/4 inches in diameter. Storm moved south-southwestward.
CALIFORNIA From Salinas- Stockton area northward	26-28						4		Rain and wind	Pacific Northwest storm with cold front moving across northern part of State beginning on evening of 26th caused widespread and locally heavy rains. Rainfall in excess of 4 inches occurred at many northern mountain stations, and on extreme north coast. Unseasonable rain caused considerable crop damage. At McCloud, Siskiyou County, heavy rains exceeding 7 inche caused flooding of Thimbleberry Creek, washing out fences and sidewalks, and flooding 3 homes At Mt. Shasta, flash flooding, caused by rainfall of 6.78 inches, dumped tons of mud and debris on city streets. At Woodland, Yolo County, leaf-plugged gutter drains flooded streets in business and residential areas. Some streets in Davis flooded to depths up to 1 foot due to unfinished storm-drain project. Strong winds damaged fences and gardens at Posarena.
TEXAS Odessa (14 miles north- west of), Ector County	27	Midnight				1	4		Electrical	Lightning set fire to half-full 1500-barrel capacity oil tank. I fireman suffered minor burns. Storm moved westward.
	27									Minor storm also reported at Tuscaloosa, Ala.
	28									Minor storm reported at Marietta, Ga.
NORTH CAROLINA Beaches and lowlying areas near sounds and estuaries							4		Wind, rain and tides	Severe storm offshore caused strong easterly winds and rains up to 9 inches in 24 hours, tides up to 6 feet above normal. Damage to boardwalks, private piers, seawalls, roofs, and storefronts. Considerable beach erosion and some water in houses.
CALIFORNIA From Santa Clara and Merced Coun- ties northward	29 d	Morning- late af ternoon	-				4		Electrical and hail	Widespread thunderstorms associated with upper level cold low off California coast. Lightni bolt struck and destroyed huge substation tra former at Coyote Point on San Francisco Penin sula. Powerlines, transformers, and insulato struck by lightning at many places in Davis, Woodland, Colusa, and Knights Ferry areas of

SEPTEMBER 1957

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Place	Date	Time	Length of 1 miles	Width of p	Killed	ln)ured	Property (exclusive of crops)	Crops	of storm	Remarks
ALIFORNIA (Cont'd.)										Sacramento Valley. Home struck by lightning 4 miles northeast of Willows, Glenn County. Brief falls of hail 1/2 to 3/4 inch in diameter fell at Fiddletown and Garden Valley in Sierra foothills, and hailstones knocked some grapes from vines in Ukiah area, Mendocino County.
REGON Practically entire State	29-30	Afternous -even- ings	400	*250	1		5	5	Electrical, hail, and wind	Fairly severe lightning storms well distributed over State, accompanied in several areas by high winds and in Baker and Klamath Counties, particularly, by heavy hail. I woman and several head of cattle killed by lightning. Large number power and telephone service interruptions, due to lightning strikes. Trees blown or broken across lines. Some outbuildings burned by lightning strikes and a few demolished by winds. At Bly, Klamath County, every roof damaged by hail, many windows broken, some siding on homes splintered, parked cars battered merchandise spoiled in stores by melting hail breaking in through windows. 1,500 acres of unharvested oats destroyed. In North Powder area, Baker County, 90 percent of homes damaged, including damage to roofs and broken windows due to hail. Considerable unharvested grain and several tons of potatoes destroyed. Damage by lightning, 12 percent or \$24,000; by wind,
CLORIDA Keatons Beach, Taylor County	30	1:45 p.m			0	0			Waterspout	8 percent, or \$16,000; by hail, 80 percent, or \$160,000. Storm moved eastward.  Waterspout, touching water, moved northeastward over land, remaining in contact with ground. 1 home virtually destroyed, 2 others severely damaged.
ALIFORNIA Susanville, Lassen County	30								Electrical, hail, and rain	Series of violent thunderstorms moved rapidly northward across Lassen County, accompanied by torrential downpours, and frequent hail. In brief hailstorm on north limits of Susanville, hailstones (cone-shaped) as large as golf balls.
GEORGIA Entire State	Last 3 weeks						2	6	Rain	General rains that continued, with only brief interruptions, during last 3 weeks of month interrupted and delayed harvest of peanuts and cotton. Extensive damage to peanuts, that had been dug but not threshed, and to unpicked cotton, mainly in northern part of State will result in considerable losses to producers of these crops. Damage to peanuts due to sprouting and rotting of stems and to discoloration which results in lower grade for nuts that are saved. Losses in cotton primarily due to lower grades, but some reduction in total yield also likely. No estimate available on total dollar losses but expected to be several hundred thousand. Rains of benefit to pastures and early-planted grains and replenished soil moisture that had been seriously depleted in much of State by 2 preceding dry months.
FLORIDA Northwestern portion	Dur- ing month					Severa			Rain	Heavy rains associated with tropical storms DEBBIE and ESTHER and again during last several days of month brought monthly rainfalls of from 15 to 30 inches to northwestern portions during month and caused considerable loss to agriculture in that area, especially to peanuts, cotton, and corn by either disrupting harvest operations or by causing rapid deterioration of unharvested crops. Reports indicate that much of Florida peanut crop will not be harvested as result of exceptionally heavy rainfall during month. Area agricultural losses have been indicated to be about \$2 million. These recurring heavy rains during month also caused considerable damages to roads and disrupted forest products operations by making forest roads nearly impassable for long periods of time. The earth fill around dam which forms Lake Talquin near Tallahassee breached during month, causing much road damage near breach and high water downstream. Several cars on road at time of breach washed off road and victims rescued from swirling water as they clung to trees or other objects. No lives lost, but several persons hospitalized fo short time.

SEPTEMBER 1957

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
DELAYED REPORTS										
MAY 1957										
KANSAS	9	3:30 p.m.							Electrical	Minor storm reported in Navarre area, Kans.  House and contents entirely consumed by fire
Neodesha (5 miles east of), Wilson County										when struck by lightning.
	13									Minor storm also reported at Hays, Kans.
KANSAS Barber County	15	Afternoon					5		Hail	Devastating hail struck southeast portion of County, damaging homes and business houses and causing losses of 50 to 100 percent in wheat fields. Crop losses not estimated.
	15									Minor storms also reported at Ellis and southwest of Russell, Kans.
KANSAS Reno County	15-16	Night 15th- early morning 16th	10	*4					Hail	2 strips of hail in southwestern part of county damaged crops, roofs, windows, and siding of houses. Largest area began about 4 miles south of Arlington and was 10 miles long and 4 wide. The other was small area between Turon and
										Penalosa. Storm moved southeastward.
KANSAS Arkansas City (northeast of), Cowley County		1:26 а.ш.				1			Electrical	Lightning struck farm house, shattering plaster, burning out electrical wiring, and causing slight burns to a member of the family.
KANSAS Arkansas City (north of), Cowley County	16	2:30 p.m.							Hail	Heavy hail of odd shape fell. Icy chunks resembled frozen clusters of 1/4-inch ice cubes. Some chunks measured 2 inches long and 1 inch or more thick.
	16									Minor storms also reported near Augusta and at Eldorado and Potwin, Kans.
KANSAS Montgomery County	20	7-8:30 a.m.							Hail and wind	Winds estimated at 70 m.p.h., with strips of hail damaged western and northern parts of County. Trees broken at a number of places. Hail fell at Caney until ground was white with 1/2-inch hailstones. Cherryvale also had some hail. Power and telephone services out for a while. Storm moved northeastward.
KANSAS Lincoln County	20	Afternoon							Hail	Hailstones larger than golf balls damaged metal buildings and crops, and broke a number of windows at ranch home.
KANSAS Hill City, Graham County	20	Afternoon							Wind	New church under construction had cement block walls on east, north, and west sides blown over by gusts of wind reaching 55 m.p.h.
KANSAS Sedgwick County	20	3:30-4 p.m.							Hail and wind	Some hail with stones larger than walnuts fell in various parts of Wichita. Wind also quite prominent, but relatively minor damages resulted.
KANSAS Sherman County	20 22 24	7-8 p.m.							Hail, wind, and rain	Minor storm also reported at Burlington, Kans. Minor storm reported at Sedgwick County, Kans. Several strips of hail over northwestern part of County battered crops and stripped trees. Stones ranged from marble size to that of wal- nuts. Drifts of hail remained until next after- noon. Wind gusts reached 70 m.p.h., about 7 p.m. Storm moved northeastward.
KANSAS Sedgwick and Sumner Counties	24	10 p.m.			0	0			Tornado, funnel aloft, and elec- trical	During severe thunderstorm in Wichita area, 2
KANSAS Cherokee County		Night			0	0			Tornado	Small tornado followed path northeastward, damaging several buildings.
	25									Minor storm reported northeast of Columbus, Kans.
KANSAS Meade (near), Meade County	27	3:30-4 p.m.							Hail	30-minute hailstorm, with stones as large as hens' eggs caused considerable damage.

See footnotes at end of table.

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Place	Date	Time	Length of p	Width of path,	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
DELAYED REPORTS (Cont'd.)										
MAY 1957 (Cont	d.)									
KANSAS Reno County	27	Late af- ternoon							Hail	A new suburb northeast of Hutchinson hard hit by hail which varied in size from peas to hens' eggs. Gardens, fruit trees, and crops damaged, and many awnings ripped to shreds. Ground white for an hour after storm.
KANSAS Gove (6-1/2 miles south- east of), Gove County	27	Night				1			Electrical	Man suffered burns from lightning.
	27									Minor storm also reported southeast of Oakley, Kans.
KANSAS Saline County	29	7-8 p.m.			0	0			Tornado, wind, and hail	Small tornado pulled trees 1-1/2 feet thick up by roots, sucked windows out of house, and hurled small buildings from their foundations a few miles northwest of Bavaria. Barn near Hedville flattened by severe gust of wind and large accordian door at Schilling Air Force Base ripped off hangar. Some hail damaged crops. Wind speeds reached 76 m.p.h. Storm moved northeastward.
KANSAS Lyndon (4 miles south- east of), Osage County	30	Morning							Electrical	Large barn burned with all contents after being struck lightning.
JUNE 1957										
	8									Minor storm reported at Muncie, Kans.
KANSAS Finney County	9	7 p.m.							Wind, hail, dust, and rain	Band of violent storms swept across Finney County, hitting Garden City about 7 p.m. Severe hail and wind damaged buildings and crops about 25 miles northwest of Garden City. Locally severe duststorm 2 miles wide 12 miles north of Garden City made driving dangerous. Heavy rains caused local flooding. Storm moved eastward.
KANSAS Reno and Rice Counties	9	10:10- 11:30 p.m.				1			Wind	ll-year old girl injured by falling tree.
KANSAS Kingman County	9	Evening							Wind	Large barn and other small buildings destroyed or damaged by wind squall that had some tornadic characteristics in north-central part of County. Windows blown out and loud roar heard.
	9									Minor storms also reported in southeastern Butler County and at Chanute, Kans.
KANSAS Inman (4 miles west and 4-1/2 miles north of), McPherson County	11	Late af- ternoon			1				Electrical	Lightning struck and instantly killed man hauling grain from field. Bundle rack set on fire.
KANSAS Neosho, Frank- lin, Anderson, and Woodson Counties	11	Night			0	0			Wind, elec- trical, and tornado	Broken trees from high winds damaged power- and telephone lines in various localities over these counties. Near Yates Center, severe winds blew barn onto powerline. Lightning also caused some power outages. Storm moved northeastward.
	11									Minor storms also reported at Paola and Ft. Scott, Kans.
KANSAS Hamilton County	12-13								Hail	Hail damaged the few remaining good fields of wheat north of Syracuse. Some fields damaged up to 90 percent. Several streaks of hail occurred these 2 days.
	13									Minor storms also reported at Graham and Gove Counties, Kans.
KANSAS Bonner Springs, Johnson County	14	5 a.m.							Electrical	House and contents complete loss from fire after being struck by lightning.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
Cont'd.)										
JUNE 1957 (Cont	'd.)									
KANSAS Coffeyville, Montgomery County	14	10 a.m.				1			Electrical	Lightning struck 90-foot flagpole and injured man standing nearby.
	14									Minor storm also reported at Coffeyville, Kans.
KANSAS Gove and Sheridan Counties	15	Evening			0	0			Wind and tornado	A number of farm buildings damaged by severe winds over northern Gove and southern Sheridan Counties. Small tornado left damaged path from 6-1/2 miles northwest of Quinter to 10 miles north of town.
	15									Minor storm also reported at Dellvale, Kans.
KANSAS Finney County	16	Afternoon			0	0			Tornadoes, wind, hail, and rain	About midafternoon 2 tornadoes observed to touch ground for a few minutes in open country about 20 miles northwest of Garden City. Severe winds caused considerable damage over County, especially to trees and T.V. antennas. Some hail and washing rains also caused damage.
	18									Minor storms reported at Maryville and LeRoy, Kans.
KANSAS Stanton County	19	7:10-7:35 p.m.	12	*2				5	Hail	Hailstones ranging from pea to marble size fell across northeastern portion of County; accumulated to more than 1 foot deep. Storm moved southeastward.
KANSAS Seward and Meade Counties	21	4-5 j.m.							Wind, hail and dust	Thunderstorm brought rather severe winds and hail in strips over these Counties. Damage from hail ranged from 20 percent to entire loss of crops. Stones up to 1-1/2 inches in diameter found. Wind damaged a number of farm buildings. Duststorm followed thunderstorms within 2 hours.
	21									Minor storms also reported at Bremer and Syracus and in Dickinson, Logan, McPherson, Russell, and Trego Counties, Kans.
KANSAS Hamilton County	22	Night							Hail and rain	Several thousand acres of crops damaged by hail. Washing rains necessitated replanting of crops.
KANSAS Southwestern portion	22	Night							Hail, wind, and rain	Hail and wind damages of light to moderate in- tensities reported over Morton, Stevens, Meade, Comanche, and Finney Counties. Some wheat damaged 70 percent. Heavy rains washed fields and mud covered highways. Water stopped rail traffic near Garden City.
KANSAS Winkler (near), Riley County	22				0	0			Electrical	Large barn struck by lightning and burned. Several head of livestock also lost.
	22									Minor storm also reported at La Crosse, Kans.
KANSAS Stevens, Gray, Haskell, and Clark Counties	23	1-3 a.m.			0	0			Wind, tornado, hail, and rain	Thunderstorm resulted in some damage to building and power- and telephone lines from wind, and crop losses from hail and heavy rains. Tornado observed east of Copeland, Gray County, by aid of lightning. It took out 14 powerline poles and destroyed windmill.
KANSAS Sharon Springs (near), Wallace County	23	Midafter- noon							Hail	Hail damaged local area. Stones as large around as half dollar numerous. Gardens, automobiles, and windows suffered most damage.
	23									Minor storm also reported south of Sterling, Kan
KANSAS Kingman (13 miles south of), Kingman County	25	Night							Electrical	Lightning struck and set fire to crude-oil storage tank. In all, 4 tanks burned as 1 caught fire from the other. 2,400 barrels of oil consumed.
KANSAS Kingman (7 miles south of), Kingman County	26	Early morning							Electrical	8-room house burned, with loss of house and contents after being struck by lightning.
	26									Minor storms also reported in southwestern Lane County and at Cedarvale and Solomon, Kans.

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Place ELAYED REPORTS (Cont'd.)	June 1957	Time	Length of miles	Width o	Killed	Injured	(exclusive of crops)	Crops	of storm	Remarks
CANSAS Dickinson, Saline, Mc- Pherson, and Morris Counties	29	ll p.m midnight			0	0	3	1	Wind and tornado	Gale-force winds over the 4 Counties caused damage to power- and transmission lines, roofs and other parts of buildings. Lone box car driven eastward from Salina to near New Cambridistance of 7 miles. Winds estimated at 70 m.p.h. Just west of Enterprise, small tornade sighted and loud roar heard. Several farm buildings damaged in 50-foot wide path and covering a few miles. Storm moved eastward.
ANSAS Sharon Springs area, Wallace County	29	Night							Wind	Gusts of wind estimated up to 90 m.p.h., damage roofs, trees, awnings, and some power-and trainingsion lines. Storm moved eastward.
	29									Minor storm also reported at Sabetha, Kans.
лилу 1957	30									Minor storms reported at Herington and Russell and in Thomas County, Kans.
JULY 1957	19									Minor storms reported at Fredonia and in Wichi County, Kans.
ANSAS Great Bend, Barton County	20	1:50 p.m.				1			Electrical and wind	Lightning struck home, resulting in injury of small child.
	20									Minor storms also reported near Conway Spring Fowler, and Maryville, at Wamego and Zenith, and in Ellsworth County, Kans.
	21									Minor storms reported at Meade and Wellington Kans.
ANSAS Sun City (east of), Barber County	25	11 p.m.							Electrical	Stock shed, granery and contents burned after being struck by lightning. Fire smoldered u 5 a.m., next morning when building blew up i flames.
	26									Minor storms reported at Axtell and Marion, K
AUGUST 1957  IONTANA Sunburst (11 miles east of), Toole County	17	3 p.m.		5			1	4	Hail	Hailstones up to 1 inch in diameter. Storm moved eastward.
10010 County	23									Minor storm reported southeast of Topeka, Kan
ANSAS Rooks and Phillips Counties	27	8:30 p.m.	6	4					Wind and electrical	Severe straight wind damaged many properties northern Rooks and southern Phillips Countie A number of barns and sheds destroyed; roofs torn from houses; trees, T.V. antennas, telep and electric lines, windmills, fences, and machinery damaged or destroyed. Storm moved eastward.
ANSAS Axtell (north- east of), Marshall County	27						4	4	Electrical	Fire started by lightning destroyed broiler plant, 10,500 chickens, 40 tons of brome-graseed, and shed and barn.
	27									Minor storms also reported near Osborne and Protection and in western Logan County, Kans
ANSAS Scott and Wichita Counties	28	9 p.m.				1			Electrical and wind	During severe thunderstorm, wind caused minor damages in eastern Wichita and western Scott Counties. 2 houses struck by lightning with small amount of damage. 1 man burned slight by lightning.
	28									Minor storm also reported at Athol, Kans.
	31									Minor storm reported near Cherryvale, Kans.

<sup>Miles instead of yards.
Yards instead of miles.
Includes crop damage.
Crop damage.
Storm damages are placed in categories varying from 1 to 9 as follows:

Less than \$50
\$50 to \$500
\$500 to \$5,000
\$50,000 to \$50,000
\$50,000 to \$500,000
\$500,000 to \$5,000,000
\$5,000,000 to \$5,000,000
\$5,000,000 to \$50,000,000
\$500,000,000 to \$500,000,000
\$500,000,000 to \$500,000,000
\$500,000,000 to \$500,000,000</sup> 

# OCTOBER

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Place	Date	Time	Length of p	Width of pay	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
TEXAS	1	9:20 a.m.	18	3 à	0	0			Funnel aloft	
Dickinson (near), Gal- veston County										Heavy rains produced new 24-hour records of
OREGON Hermiston- Umatilla area, Umatilla County	1-2	Afternoon, 1st early morning 2d	12-	*6-8			3	2	Rain	3.36 inches at Hermiston and 3.13 at Umatillanearly one-half of annual total for these locations. A number of basements flooded in both towns and some erosion occurred on sur- rounding farmland, but overall damage not great. Storm moved eastward.
WASHINGTON Kennewick- Pasco area, Benton and Franklin Counties	1-2					2		1	Rain and electrical	Runoff from precipitation amounts ranging between 1 and 2 inches resulted in flooding of a few buildings in low areas. 2 persons injured by lightning.
ALABAMA Decatur, Morgan County	3	Afternoon	1					1	Electrical	Lightning hit powerline, knocking out electric power for large portion of southeastern De- catur; oil circuit breaker badly damaged so that power out for 45 minutes.
TENNESSEE Somerville,	3	4:15 p.m				1		1	Electrical	Man received painful burns on arms and legs when lightning struck his home. Small amount of property damage done.
Fayette County NORTH CAROLINA Dare and Curr tuck Counties	5-6 i-	Noon, 5th - 8 a.m., 6th					4		Wind and tides	Low, moving northward a few miles offshore, caused strong winds and high tides, both on ocean front and on mainland side of sounds. Winds not over 50 m.p.h., and did little direct damage. Tides rose sufficiently to cause overflow across low portions of banks, interrupting highway traffic, causing beach erosion, and disrupting telephone communication. Dredge operating in Oregon Inlet damaged. Water rose into some store buildings on mainland waterfront, damaging merchandise.
VIRGINIA Tidewater Counties and Eastern Shore	5-6				1				Wind, rain, and tides	Extratropical coastal storm with peak gusts of 60 to 70 m.p.h., moved northward along coast, with center passing just east of Virginia Capes; it was accompanied by heavy rains and gales extending westward throughout central Virginia. Greatest damage in coastal areas where heavy seas and high tides buffetted coastal installations, grounding vessels, disrupting transportation, etc. Wind damage relatively minor in comparison to flooding and heavy seas, but falling trees disrupted power and communications as far inland as Richmond. All types of traffic disrupted and weather caused numerous vehicular accidents. I life lost by drowning and numerous injuries reported. Minor flooding caused both from heavy rains and high tides. Damage estimate is unknown, but said to have exceeded several hundred thousands of dollars.
MARYLAND and DELAWARE	6	During day							Wind, rain, and high tides	Gale winds and heavy rains associated with "northeaster" which moved up coast, over Delmar Peninsula and then westward through Maryland, churned up Chesapeake Bay and adjacent ocean area and caused much-above-normal tides, rough seas, flooding of coastal roads, and considerable wind damage to property.  Small craft in some yacht basins on Chesapeake Bay ripped from their moorings. Shipping halted on Chesapeake and Delaware Canal. Sailings of ships from Port of Baltimore cancelled or delayed. One 62-foot sailboat grounded near Indian River Inlet, Delaware. Tides on coast reported near record heights at some points. Power failures widespread in Maryland and Delaware as trees downed over powerlines. Telephone service likewise knocked out in places by falling trees and strong winds. In Baltimore City, major damage occurred to trees and utility lines. At Friendship International Airport, gust of wind reached 75 m.p.h., at 2:15 p.m.
ARIZONA Benson (25 miles north of), Cochise County		6 Evening	,				4	1	Flash flood	
NEW JERSEY Coastal area		6					5		Wind and tides	l yacht, l yawl, and other small craft sank during coastal storm which moved northward along coast. Some minor flooding occurred at times of a.m., and p.m., high tides. Princi- pal losses due to wind.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
	6									Minor storms also reported st Sioux Center and Sioux Rapids, Iowa; at Estelline and near Isabel, S. Dak.; and near Abernathy, Tex.
PENNSYLVANIA Eastern half	6-7	4 p.m., 6th-4 p.m., 7th					4	3	Wind and electrical	Extratropical storm brought 50-m.p.h., winds to eastern Pennsylvania which did light but extensive damage to trees, powerlines, etc. Many boats tied up on Susquehanna River damaged by high winds, slamming them into piers. Lightning fired barn in Gettysburg area, resulting in \$20,000 fire. High winds brought down many unpicked apples in York-Adams County area. Storm moved northward.
CONNECTICUT and RHODE ISLAND, entire area	6-7	Late p.m. 6th - early a.m., 7th				12	3	1	Rain, elec- trical and wind	Moderately heavy rains accompanied by some lightning as coastal storm affected area. 4 homes struck by lightning in East Hartford and southwest of Providence, with blown-out TV set and minor structural and fire damage resulting. Coastal road flooded in southweste Connecticut and grounded freighter off Newport R. I., battered rough seas as winds up to 35 m.p.h., caused tides 1 to 2 feet above normal. Traffic accidents blamed on slippery highways
NA COA CONTRACTOR										caused minor injuries to 12 persons. Benefits of precipitation to crops and critically low reservoirs and streams far exceeded storm damage. Storm moved east-northeastward.
MASSACHUSETTS	6-7				1	1	3	1	Wind and rain	Winds felled tree branches, breaking a few powerlines, during night in Plymouth County in Brockton area. Automobile accident at Chicopee, attributed to rain, caused death and injury.
OKLAHOMA Russell, Greer County	7	4:30 p.m.	6	*1					Hail, rain, and electrical	Hail size of golf balls caused up to 75 percent damage to cotton. Heavy rain and lightning accompanied storm. Storm moved northeastward.
TEXAS Sagerton (near), Has- kell County	7	6:30 p.m. -midnight	25	*1		20	°4	С	Hail and wind	Hail fell in checkerboard pattern. TV antennas blown down and barns and roofs destroyed by wind. Hail damage to 50 percent of cotton crops. Damage mostly to cotton and feed. Truckload of Mexican cotton pickers bruised by hail as large as baseballs. Storm moved southward and eastward.
OKLAHOMA Altus, Jack- son County	7	7 p.m.						3	Electrical and rain	Lightning struck 2 homes, causing considerable structural damage. Rains caused minor damage to open cotton.
TEXAS Seymour (west of), Baylor County	7	7:15 p.m.	Short 1	Narrow	0	0	3		Tornado	Destroyed garage and storage room, damaged home and several roofs and barns, uprooted trees and damaged others. Tornado moved southeastward.
TEXAS Baylor and Knox Counties	7	7:30- 11:30 p.m.	15	*1		2	°4	C	Hail, wind, and rain	1/2 mile of railroad ballast damaged between Goree and Munday, considerable cotton and grain sorghum crops damaged in that area. Heavy rain and strong wind accompanied storm. 2 workmen injured by large hail. Storm moved northeastward.
OKLAHOMA Duncan, Stephens County	7	9:40 p.m.						1	Electrical	Lightning struck TV antenna at Duncan, resulting in damage to rotor, TV set, and wall paper in room. Additional lightning strikes noted between Duncan and Comanche.
TEXAS Hamlin and Plainview areas, Jones County	7	11 p.m.	20	*7				4	Hail	From about 5 miles east of Hamlin to south of Tuxedo, and again near Plainview, hail damaged cotton and feed crops 35 to 50 percent. Storm moved northeastward.
	7									Minor storm also reported near Throckmorton, Tex.
COLORADO Arkansas Valley	7-8	11 p.m., 7th-early a.m., 8th		*2			4		Severe thun- derstorm and heavy rain	Heavy rain beginning shortly after 11 p.m., of 7th and lasting about 2 hours did considerable damage to Pueblo streets and homes. Rainfall heaviest east of city, area in which Pueblo Weather Bureau station located. 3.75 inches of rain fell in 2 hours, an amount exceeding all-time record total for entire month of October. Heavy rain shortly after midnight fell at points along Arkansas River. Unofficial reports in La Junta area of 1-1/2 inches to over 4 inches of rain in some localities which caused damage to crops, powerlines, roads, bridges, and other property.
LORIDA Tamiami Airport, Dade County	8	12:30 p.m.			0	0	3	- 461 ~	Tornado, funnels aloft, and waterspouts	Several additional funnel clouds and waterspouts also sighted in Dade County area during afternoon.

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Place	Date	Time	Length of path miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
TEXAS Lamesa (near), Dawson County	8	3:20 p.m.			1				Electrical	Lightning killed workman riding with others in back of truck, about 2 miles north of Punkin Center. Storm moved northeastward.
ASHINGTON Columbia Gorge	8								Wind	Strong wind in Columbia Gorge resulted in numerous power outages and some property damage by falling trees.
	8									Winor storms also reported at Baird and Big Lake, Tex.
TEXAS Pearsall, Frio County	9	7:30 a.m.	20	*20			4		Rain	Roof of retail store caved in because of heavy rain. 4 inches of rain reported between 8 and 9 a.m. Heavy erosion damage. Storm moved eastward.
NEW MEXICO Rincon Valley in vicinity of Hatch, Dona Ana County	9	4 p.m.	14	*2			1	5	Hail	Hailstones averaged 1/2 inch in diameter. Storm moved northeastward.
CALIFORNIA Entire State	9-11						4		Rain, wind, snow, hail, and electrical	Slow moving cold front advancing southeastward across California caused locally heavy rains and strong winds. Damage other than to crops minor although widespread. Damage to crops, total loss of some unharvested grapes and prumin Sonoma and Napa Counties; severe loss to dribeans in Glenn and Sutter Counties, and to flain San Mateo County; downgrading of walnuts an cotton; increased harvesting costs of all remaining crops due to wet, muddy fields. Coffe Dam washed out at Trinity River Project in Trinity County, street intersections were flooded in Marin and Santa Clara Counties; some fre way constructions were washed out at Palo Alto wax paper factory at Burlingame flooded, causi heavy damage to paper stock. In Bakersfield, heavy rains flooded several intersections. In southern California, storm caused some floodin and numerous power failures. In San Bernardin sudden deluge on 11th overtaxed storm drains and caused some damage to a few homes and 1 automobile. State Route 39 in San Gabriel Can yon blocked by rock and mud slide. Locally strong winds blew shingles from roof in La Hab and tipped over trash cans. Strong winds blew branches from trees in Whittier, and winds reached 40 m.p.h., at Daggett and Inyokern in desert region. Snow fell in mountains above 4,000 feet, and heavy thunder with hail occurr in Van Nuys area.
NEW MEXICO Rio Grande Valley from 15 miles north of Hatch to 10 miles south, Dona Ana County		4 p.m.					1	5	Hail	Spotted damage, with hailstones reported up to 1-1/2 inch in diameter in Tonuco area.
NEW MEXICO Las Cruces area, Dona Ana County	11	6:30 p.m	. 15	\$ **	1		1	5	Hail and rain	Part of crop damage due to flooding of fields. Storm moved westward.
TEXAS El Paso and Hudspeth Counties	11		40	)				5	Hail and rain	Spotted but heavy hail between Fabens and Esperanza, accompanied by heavy rain, caused crop damage.
NEW MEXICO Silver City, Grant County	12	4 a.m.	8	3 5	0 0	0	5	1	Tornado	Demolished hanger and 6 airplanes at airport. Slight damage to farm buildings. Tornado moveast-northeastward.
NEW MEXICO Alamogordo Otero County	12	P.m.					5	1	Wind	Damage to planes and installations at airport, no evidence of tornado.
	12									Minor storms also reported in Tucson area, Ariz.; at Stanton, Iowa.
TEXAS Moran, Shackel ford County	- 13	5 a.m.			0	0			Tornado (suspected)	
NEW MEXICO Luna County (northern portion)	13	3 p.m.					1	4	Hail and rain	About half of damage due to heavy rains. Stormoved northeastward.

See footnotes at end of table.

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Place	Date	Time	Length of path	Width of payards	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
OKLAHOMA Gate area, Beaver County	13	5:20 p.m.			0	0			Tornado	Ground Observer Corps received report of tornado just north of Gate. Funnel observed from Buffalo, Harper County, silhouetted against bright band of evening sky. Although funnel seemed to reach ground, there were no reports of damage.
CANSAS Wichita County	13	6:30-7 p.m.	15	*3			3	2	Wind and hail	Wind and hail damage occurred from south of Leoti to northeastern corner of County. Some hailstones 1-1/2 inches in diameter and ground covered in some places to depths of 2 inches. Milo crops and roofs suffered greatest loss. A few fields damaged 30 to 40 percent. Property and crop damages given result of wind. Storm moved northeastward.
EW MEXICO Chaves County	13	P.m.	30	*4			5	6	Hail and wind	Wind damaged several barns; hail average size of golf balls.
COLORADO Burlington, Kit Carson County	13	Evening							Hail	Hailstorm damaged vegetation, roofs, and vehicle Storm not as severe as spring hailstorms, but hailstones to depth of 2 inches.
Taylor, Williamson County	14	12:53 a.m.					4		Electrical and rain	Lightning caused fire which heavily damaged home. 2 rooms and contents destroyed. Heavy rain and lightning excessive.
PEXAS Victoria (10 miles south- east of), Victoria County	14	9:25 a.m.			0	0			Funnel aloft	
ARIZONA Picacho, Pinal County	14	All day					4		Flood	Flood waters raced through labor camp, flooding about 50 cabins and a dozen homes. Cotton fields flooded (see Phoenix storm of 31st).
Providence City, Wharton County	14	12:15 p.m.			0	0			Funnel aloft	Observed moving northeastward.
FEXAS Waller and Brookshire (near), Waller County	14	3 р.т.			0	0	° <b>4</b>	c	Tornadoes and rain	3 separate tornadoes, accompanied by heavy rain, ripped drive-in theater screen, damaged home, demolished church, and uprooted trees and graveyard monuments. Crop damage to peanuts and rice. Severely damaged huge sheetmetal dairy barn, feed contents destroyed. Other buildings damaged between Waller and Hempstead, roofs torn off, brans destroyed, and feed ruined by rain. Storm moved northeastward.
Dayton (9 miles north of), Liberty County	14	5:45 p.m.			0	3	4		Tornado	2 farm homes 1/4 mile apart destroyed with all contents. One hurled 150 feet against huge oak tree. Several barns and outbuildings destroyed, other homes damaged, trees uprooted, power- and phone lines downed.
TEXAS Lufkin, An- gelina County	14	6:23 p.m.			0	0			Funnel aloft	Observed moving northward.
rexAS Lolita, Jack- son County	14						4		Electrical and rain	Lightning ignited 3 oil tanks, destroyed them and contents. Heavy rain accompanied storm.
	14									Minor storm also reported near Kirbyville, Tex.
EXAS Bryan (near), Brazos County	15	2:25 p.m.			0	0			Funnel aloft	
COUISIANA Leonville, Cypress Point, to Mix, St. Landry and Pointe Coupee Parishes	15	10-11 p.m.	45	100	1	29	4	2	Tornado	Tornado struck near Leonville passed through Cypress Grove Community, near Opelousas, thence through thinly settled areas to town of Mix in Pointe Coupee Parish; about 15 homes destroyed, many damaged and communications linsevered; all casualties were living in insubstantial homes. Tornado moved north-northeastward.
	15									Minor storms also reported at Clinton, La.; near Wimberley, Tex.
WISSISSIPPI Vicksburg (10 miles south- east to 10 miles north- east of), Warren County	15-16	11:45 p.m. -12:15 a.m.	. 20	50- 100	0	0	4	2	Tornado	Developed about 10 miles southeast of Vicksburg and moved northward for 20 miles touching down here and there; roar heard as tornado passed over or nearby.

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#### STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1957

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
	15-16									Minor storm also reported at Amite, La.
LOUISIANA West Baton Rouge and Livingston Parishes	16	12:45-2 a.m.	50		0	0	4	2	Tornado	Apparently tornado developed 5 miles west of Mississippi River bridge where several homes destroyed, then lifted over Baton Rouge and touched down at several places as it moved eastward to Walker, Livingston Parish, where property again damaged. This is an unusual direction of movement, especially considering others same night, but based on radar observations at Baton Rouge.
LOUISIANA Kentwood (1 mile north of) Tangipahoa Parish		1 a.m.	Short	50	0	0	3	2	Tornado	Tornado developed in severe thunderstorm, moved northeastward and touched ground briefly, destroying several buildings but leaving others nearby untouched.
LOUISIANA Gretna, Jeffer- son Parish		4 a.m.			0	0	3	1	Wind and tor- nado (sus- pected)	Affected only small area, but damaged TV antennas indicated circulation.
FLORIDA Pace, Santa Rosa County	16	8 a.m.			0	0			Wind and tornado (suspected)	Several houses unroofed and other residences damaged by high winds. Tornadic action suspected.
LOUISIANA West Baton Rouge Parish	16	4:30 p.m.			0	0			Funnels aloft	2 funnels aloft observed west-northwest of Baton Rouge.
TENNESSEE Ashland City, Cheatham County	16	8 p.m.						1	Electrical and rain	Lightning struck chimney of high school, causing considerable damage due to brick falling on roof and subsequent water damage.
	16									Minor storm also reported near Moss Point, Miss.
	17									Minor storms reported at Mobile, Ala.; and at Brownsville, Tex.
COLORADO Southwestern portion	18-19	P.m., 18th - a.m., 19th							Electrical, hail, rain, and snow	On the 18th and 19th, lightning struck trees and power- and communication lines over wide area from Durango to Montrose. Shed and 30 tons of hay struck by lightning and burned on Big Stick Mesa. Some hail fell at Durango. Up to 8 inches of snow fell in higher mountains of San Juan Basin.
NEW MEXICO Corrales (8 miles north- west of)	19	3:30 p.m.			0	0			Tornado	Over open country, on ground only brief time.
NEW MEXICO Rio Arriba, Santa Fe, and Sandoval Counties	19	P.m.							Rain	Streets and roads damaged. Some homes flooded. Mud and rocks from flooding arroyos blocked highways.
NEW MEXICO Cabezon (20 miles south of), Sandoval County	20	1:30 p.m.			0	0			Tornado	Over open country, on ground about 5 minutes.
FLORIDA Ft. Pierce, St. Lucie County	20				0	0			Waterspout	
CALIFORNIA Southern and coastal areas south of Santa Maria	20-21				0	0	4		Rain, water- spouts, hail tornado, electrical, and snow	Low moving southward over eastern California and western Nevada caused widespread thunderstorms. In Santa Maria area, severe thunderstorm caused heavy rain, 1.13 inches in 2 hours, flooding many streets. Waterspout reported off Point Mugu. In Los Angeles area, near cloud bursts flooded San Fernando Valley intersections, 18 inches of hail piled up at intersection of Malabar and Indiana Streets in East Los Angeles, and baby "twister" reported hitting near Norwalk with minor damage. 2 waterspouts reported off coast near Oceanside. Lightning struck television antenna on roof of home in Montebello, slashing 6-foot hole in roof, and showering plaster on occupants. Lightning also struck powerplant in San Francisquito Canyon, and transformer in San Bernardino. Strong winds damaged an aircraft at Yucaipa. Show up to 6 inches deep fell in mountains. At San Bernardino, heavy downpour flooded several street intersections and huge mud slide occurred near

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Place	Date	Time	Length of p miles	Width of pe	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
UTAR Southern portion	20-22								Rain, snow, and hail	Heavy rains washed out numerous roads in souther Utah, caused flooding of homes in St. George on 21st and produced flooding on Buckskin and Paria Rivers. Up to 18 inches of snow in Mountains stranded many hunters, especially in Kanab-Cedar City-St. George area. Hail up to 1-3/4 inches in diameter on 21st at Mexican Hat caused damage to trailer houses, cars, and buildings in area. Heavy hail reported at Orderville from 10:30 to 11 a.m., on 21st.
Cleveland (8 miles south-east of),	22	6:30 a.m.	4	100	0	1	4		Tornado	Barn and outhouses destroyed; 6 houses damaged, 2 severely. Powerlines damaged. Woman hos- pitalized.
Liberty County TEXAS Muldoon (near). Fayette County	22	8 a.m.			0	0			Tornado (suspected)	
SOUTH DAKOTA Tyndall, BonHomme County		7:30 p.m.				3	3		Fog	Automobile accident attributed to fog.
TEXAS Abilene (5 miles north of), Taylor County	22	7:30 p.m.			0	0			Funnel aloft, rain, and hail	Occurred during heavy rain and hailstorm.
TEXAS Lake Fort Phantom Hill, Jones County	22	7:50 p.m.			0	0			Tornado (suspected)	
TEXAS Gorman (near), Eastland County	22	9:10 p.m.			0	0			Funnel aloft	
WASHINGTON Entire State	22								Rain, snow, and wind	Rather low temperatures accompanied by unusuall heavy snowfall for this early in the fall occurred in northern half of eastern Washington. Freezing rain produced sheet of ice on highways. Snow depths ranged from 1 to 4 inches on lower elevations and 10 to 15 inches on higher elevations. Minimum temperatures dropped to middle 20's. Wind and rain west of Cascades caused numerous power outages.
	22									Minor storms also reported at Carenco, La.; at Purcell, Okla.; and at Muldoon, Tex.
IDAMO Northern counties	22-23								Snow and wind	Near-blizzard conditions moved into extreme northern part of State on 22d, progressing onl about as far south as 47th parallel with maximum temperatures in area on 23d ranging from 28° to 40°. While no major damage reported, snow, which reached depth of 16 inches at Mullen Pass and as much as 6 inches at lower-elevation valley stations, caused much delay in traffic, resulted in closing of many school and generally disrupted normal routine of communities in affected area. Winds, clocked at 32 to 38 m.p.h., at Coeur d'Alene Air Terminal produced drifts which added to troubles at many points.
TEXAS Corsicana (west of), Navarro Count	23	Midnight -early a.m.			0	0	3		Wind, rain, and tornado (suspected)	Struck on 3 farms, damaged outbuildings and equipment, knocked out powerlines. 0.70 inch of rain in a few minutes fell on 1 farm.  Storm moved eastward.
TEXAS Beaumont area Jefferson County	23	7:45 a.m	•		0	0	3		Wind and tornado (suspected)	Damaged roofs and plate-glass windows; moved warehouse building out of line, damaged its doors. Storm moved eastward.
LOUISIANA Kolin to DeVille, Ra- pides Parish	23	8:15 a.m	. 18	10	0 1	1	4	2	Tornado	Tornado moving north-northeastward destroyed or unroofed several homes, with widespread minor damage to buildings, powerlines, and trees.
TEXAS Orange (near) Orange County		9 a.m.			0	0	2		Wind, tornado (suspected), and rain	

See footnotes at end of table.

OCTOBER 1957

			path,	path,	Num of per		by cate	gories †	Character	
Place	Date	Time	Length of path miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
ANSAS Paola (near), Miami County	23	11:15a.m.							Electrical	Rural school house struck by lightning. Weather- boarding torn from sides, heating equipment damaged, and interior so badly smoked that paint ing necessary. Teacher and 10 children escaped uninjured, except for scratches and bruises.
OUISIANA Napoleonville area, Assump- tion Parish	23	2:15 p.m.	10	100	0	0	4	2	Tornado	Tornado moving eastward hit first Elm Hall plantation then in Napoleonville and Unice Breaux; many homes unroofed, some destroyed with many small outbuildings destroyed.
PLORIDA Oriole Beach, Santa Rosa County	23	Evening							Wind, elec- trical, and rain	Winds estimated at 65 to 70 m.p.h., accompanying violent thunderstorm and heavy rain disrupted electrical service to numerous residences. Property damages light.
TEXAS Kirbyville (near), Jasper County	23				2	12			Rain	Bus driver and milk truck driver killed when their vehicles collided on rainswept highway. 12 others injured. Accident attributed to storm.
	23									Minor storm also reported in Bentonia area, Miss.
	24									Minor storm reported at Ogden Dunes, Ind.
Mt. Pleasant, Charleston County	25	4:05 p.m.			0	0			Funnel aloft	
ARIZONA Yuma, Yuma County	27	All day					3		Rain	Heavy rain caused minor property damage, but considerable damage to cotton (see Phoenix storm of 3ist).
SOUTH DAKOTA Hot Springs (southeast of) Fall River County	28	12:15 p.m.					4		Wind	Gusty winds caused girders to fall from bridge under construction across Cheyenne River.
CALIFORNIA Southeastern desert and Imperial Valley	28-29								Rain	Low pressure trough extending into southeastern California from Gulf of California caused heavy rains. Water up to 3 feet deep covered road at several places on Highway 80, causing many schools to close in Imperial Valley.
WASHINGTON Entire State	30	Early a.m.							Wind	Falling tree limbs caused some power outages and property damage in various localities of State.
ARIZONA Phoenix (Salt River Valley), Maricopa County		All day					3		Rain	Heavy rain caused minor property damage, but considerable damage to cotton. Rain damage to cotton for individual storms during month unknown, but Arizona Cotton Growers Association estimates total damage to State crop based on preliminary figures in excess of \$6,000,000.
ARIZONA Leupp, Coco- nino County	31	3:25 p.m			0	0			Funnel aloft	Funnel cloud moved east-northeastward over sparsely populated area. Cloud visible for 1 hour and tracked by radar.
CALIFORNIA Southern portion	31				0	0			Rain and funnel aloft	Locally heavy rains in parts of Los Angeles, San Bernardino, Riverside, Imperial, San Diego, and Orange Counties. During rainstorm, funnel alos observed to west of March Air Force Base at 12:50 p.m., lasting until 12:57 p.m., moving northeastward.

#### DELAYED REPORTS

KANSAS Marion, Marion County	20		4	Electrical	large barn at south edge of Marion struck by lightning. Loss included barn, 5000 bales of hay, 600 bushels of oats, and some farm implements.
KANSAS Great Bend, Barton County	23	Early a.m.		Electrical	Lightning during early morning thunderstorm struck woodworking shop, resulting in several hundred dollars damage to building and contents. Fire discovered at 2:28 a.m.

Includes crop damage.

C Crop damage.

Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than \$50
2 \$50 to \$500
3 \$500 to \$5,000
4 \$5,000 to \$50,000
5 \$50,000 to \$500,000
6 \$500,000 to \$5,000,000
7 \$5,000,000 to \$5,000,000
8 \$50,000,000 to \$500,000,000
9 \$500,000,000 to \$5,000,000,000
9 \$500,000,000 to \$5,000,000,000

NOVEMBER 1957

			path,	path,		mber	Estimated by categ			
Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
OKLAHOMA Garvin County	1	8 a.m.			1				Electrical	Lightning struck and killed 13-year old boy while herding cattle.
SOUTH DAKOTA Fairfax, Gregory County	1	Afternoon				1	2		Electrical	Lightning entered residence through telephone line. I person slightly cut when lightning ar- rester shattered. Plaster knocked from wall around telephone and several appliances burned out.
TEXAS Lake Whitney (near), Bosque and Hill Counties		5:28 p.m.			0	0			Funnel aloft	Pilot reported small funnel aloft.
	1									Minor storms also reported in Lawrence County and in northern Black Hills, S. Dak.
MONTANA Red Lodge, Carbon County	1-2		25	*12			1	4	Snow	Snow covered beets in ground and dry beans not harvested. One of heaviest November snowstorms ever experienced in this section. Storm moved southeastward.
MAINE, MASSA- CHUSETTS, NEW HAMPSHIRE, AND VERMONT	1-3				6	Many	3	1	Rain	Heavy rains very beneficial, but minor damages from a few washouts. Phone cables flooded at Waterville, Maine, and Hyannis, Mass. Rain said to be factor in numerous automobile accidents involving deaths and injuries.
COLORADO Southwestern portion	1-7								Rain, hail, and snow	Continued rain, hail, and snow the first week in November did heavy damage to crops still in fields because of previous wet weather. About one-third of bean crop could not be harvested. Baled hay which was thoroughly soaked will be complete loss. I potato farmer in Mancos area had estimated loss of \$4,000 in potatoes rotting in fields. Wet field conditions also prevented fall planting of grain.
CALIFORNIA Napa and So- lano Counties	2						3		Wind	Strong northerly winds blew down trees and power- lines in Benicia, Napa, and Vallejo. In Vallejo 28-foot neon sign blown onto roof of apartment house.
ARIZONA Northern and Central portions	2-3-4				1				Rain	3-day rainstorm caused flooding of rivers and streams. Boy drowned in flash flood 12 miles southeast of Cottonwood and some 200 deer hunters stranded in mountains. Several roads and highways washed out, otherwise property damage light. About 5,000 acres of cotton land near Maricopa flooded, but damage not extensive.
WYOMING Southeastern quarter	2,3,4					Some	3	4	Ice	Storm was result of long period of freezing drizzle. Because of nature and length of time of storm, boundaries of area affected were very indefinite. Heavy damage to telephone and powerlines, considerable damage to trees and bushes, and some automobile accidents resulted from storm. A few injuries from automobile accidents, but no fatalities. Because of nature of damage, it is almost impossible to assess property damage or actual number of injuries. Crop damage mostly to alfalfa because of seed that could not be harvested.
CALIFORNIA San Diego, San Bernardino, and Riverside Counties	3						4		Wind and rain	Strong, gusty winds, with locally heavy rain, blew down trees and television antennas. Many powerlines snapped by falling branches. Sections of roof on Air Force radar station on Mt. Laguna ripped off by wind, reported reaching gusts of 110 m.p.h. Heavy rain in nearby foothills flooded some intersections in San Bernardino. In Borrego Valley, strong gust of wind blew down wall of home under construction.
	3									Minor storm also reported at Brigham City, Utah.
CALIFORNIA San Gabriel Mountains, San Gabriel and San Fernando Valleys	5					1	3		Electrical, rain, and snow	Lightning struck tree in Pasadena, breaking windows in 3 nearby homes, and damaging parked automobile. Occupant of 1 home treated for shock. 5 inches of snow fell on Kratna Ridge in San Gabriel Mountains. Locally heavy downpours occurred in valleys.
MISSOURI Bootheel area	6~18				1	100			Rain	Following unusually wet year, excessive rains moved back into Bootheel counties, (Pemiscot, Dunklin, New Madrid, Mississippi, Scott, Stoddard, Butler, and Cape Girardeau) about November 6. These rains continued off and on through November 18. Many Bootheel stations got from 8 to over 15 inches in November, most of which came during November 6 to 18. Thousands of acres of croplands under water several times.

See footnotes at end of table

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			path,	path,		nber rsons	Estimated by cate	egories t	Character	
Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
MISSOURI (Cont'd.) LOUISIANA Lecompte-	7	1 p.m.	1/2	880			4	3	Wind	Basements of homes and business buildings flooded. Estimated 50,000 bales of cotton will be unfit for picking, and much cotton that was harvested was of lower quality because of rain Boy drowned on November 14 in drainage ditch ne Portageville.  Severe thunderstorm damaged 4 farm homes and
Cheneyville area, Rapides Parish										several barns; moved eastward.
OUISIANA Robson'to Fillmore, Caddo and Bossier Parishes	7	2-2:30 p.m.	15	100	0.	0	°4	С	Tornado	Moved northeastward over mostly wooded land, for lowed by State Police for time; I home damaged in Fillmore; much timber lost, and powerlines downed.
OUISIANA Lowry to Iota (near), Camer- on, Jefferson Davis, and Acadia Parishes	7	2:30-3 p.m.	15	50	0	0	4	3	Tornado and funnel aloft	Began as tornado near Lowry then lifted to pass near Jennings and Iota as funnel cloud aloft; house destroyed and 1 damaged. Storm moved north-northeastward.
NDIANA Evansville, Vanderburgh County	7	Afternoon					4	1	Rain	Heavy rain flooded streets and basements.
RKANSAS Sheridan, Grant County	7	4:30 p.m.					5	1	Electrical	Roof of auditorium of high school collapsed whe supporting beam struck by lightning. Extensive damage to building and contents.
OUISIANA Forras, Pointe Coupee Parish	7	4:50 p.m.	3	50	0	5	5	3	Tornado	15 homes and farm buildings destroyed and 7 homes and buildings badly damaged. Tornado moved northeastward.
DUISIANA (ota, Acadia Parish	7	5:25 p.m.	5				4	3	Wind	1 warehouse badly damaged. Storm moved northwa
OUISIANA Leesville (2 miles west of), Vernon Parish	7	8:35 p.m.			0	0	4	1	Tornado	3 buildings destroyed and 2 badly damaged; reported by State Police.
EXAS China and Nome, Jefferson County	7	8:45 p.m.			0	0	4		Tornado	Slight to moderate dwelling damage. Tornado moved southeastward.
OUISIANA Boyce to Alexandria, tapides Parish	7	9-9:15 p.m.	13	50-75	3	16	6	3	Tornado	Widespread minor damage occurred outside path of this tornado; tornado tore through 10-block area of Alexandria, moving from northwest corner to southeast; 98 homes and 6 other buildings destroyed, while 137 homes and 3 other buildings heavily damaged; 318 buildings minor damage.
XAS iroves, lefferson lounty	7	9:15 p.m.	3	200	2	59	6		Tornado	160 homes, several business buildings and many outbuildings completely demolished or extensively damaged in area of 15 to 20 blocks in center of town. Several hundred damaged to lesser extent, I school badly damaged. Electric power entirely out for I hour. Gas mains broken at several points, thousands of telephorout off. Winds estimated greater than 100 m.p. where tornado struck. Lasted only about 5 minutes. Storm moved east-northeastward.
XAS ort Acres, efferson ounty	7	9:23 p.m.			0	1	5		Tornado	About 20 houses extensively damaged or destroyed in southeastern residential area. Tornado move east-northeastward.
UISIANA inton to ulphur, Cal- asieu Parish	7	9:40- 10:25 p.m.	10	2500			4	3	Wind	Storm moving eastward destroyed 1 building, un- roofed several others and caused other minor damage in both towns.
SSISSIPPI lcorn A&M ollege, Clai- orne County	7	10 р.ш.			0	0	5	3	Tornado	No details available.
ssissippi ruger (3 miles buth of), reenwood (10 iles east of), renada (1 mile buth of),Holmes	and	10-10:30 p.m.	20	300	2	1	5	3	Tornado and wind	Began as tornado 3 miles south of Cruger and de- generated into large area squalls as it moved northeastward; 8 homes, 16 farm buildings and radio tower destroyed; several homes and other buildings damaged.
arroll, and renada Counties								- 487 -		

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Place			path,	path,		mber	Estimated by categ			
Place	Date	Time	Length of p	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
TEXAS Orange, Orange County	7	11:10 p.m.			1	81	6		Tornado	Several business houses destroyed, 130 homes de molished, 250 others heavily damaged; 100 families homeless. 9 ships and 3 barges torn from moorings. Thousands of telephones cut of and power disrupted. Tornado moved east-north eastward.
OUISIANA Carencro, afayette Parish	7	11:30 p.m.			2	13	5	3	Tornado	Several homes and numerous farm buildings de- stroyed, while many received more or less damage. Tornado moved northeastward.
OUISIANA Higginbothan to Cankton, Acadia and St. Landry Parishes	7	11:30 p.m.	8	200	4	10	5	3	Tornado	Tornado moved northeastward through thickly settled rural area, destroying 25 homes, 60 farm buildings, and causing major damage to 14 homes and 2 farm buildings; path first toward northeast and then east, with funnel lifting and dipping as it moved.
ISSISSIPPI Winston County	7	11:30 p.m.			0	0	4	1	Tornado	2 buildings destroyed and 7 damaged; no other details available.
OUISIANA Crowley, Acadia Parish	7	11:50 p.m.	2	2500			4	3	Wind, elec- trical, and rain	High winds with thunderstorm uprooted trees, severed powerlines, and caused extensive minor damage. Storm moved eastward.
	7									Minor storms also reported near Stevenson and at Tallulah, La.; and at Vicksburg, Miss.
(ISSISSIPPI Bond (10 miles east of), Philadelphia, Preston, and Gholson, Neshoba, Kemper, and Noxubee Counties	8	1:30-3 a.m.	30	200	0	3	5	1	Tornado	6 homes, 15 barns, and 3 other buildings destroyed; 13 homes and 18 other buildings damaged. Tornado moved north-northeastward.
ENNESSEE Pulaski and vicinity, Giles County	8	2-4 a.m.	4	100	0	0	3	1	Tornado	At Pulaski, several houses suffered roof and TV antenna damage. Leaving Pulaski, storm lifted for about 3 miles, descending again on Powell Chapel Community. Here wall ripped from 1 house and roof and porch from another. Barn and garage destroyed. Tornado moved northeast ward.
LABAMA Aliceville area, Pickens County	8	2:25 a.m.	8		0	5	5	1	Tornado	Tornado moved northeastward, demolished 15 hous and damaged several others. Storm path slight northwest of Aliceville.
OUISIANA New Orleans, Orleans Parish	8	2:30 a.m.					4	1	Wind	Storm moving eastward uprooted trees, severed powerlines, and smashed plate-glass windows.
Meridian (15 miles west- morthwest of), Newton County	8	2:30 a.m.					4	3	Wind	12 homes and 10 farm buildings damaged. Trees uprooted and powerlines downed. Storm moved northeastward.
ABAMA Tuscaloosa County	8	Early a.m.			0	0	2	1	Tornado (suspected)	Power pole blown down between Buhl and Coker. No estimate of damage caused by power being of
ABAMA Tranklin County	8	Early a.m.			0	0	2	1	Tornado (suspected)	5 power poles and 2 trees blown down.
LABAMA Selma, Dallas County	8	4:22 a.m.	1-1/2	50-400	0	0	5	1	Tornado, wind, electrical, and funnel aloft	In northwest suburbs of Selma diagnosed as torm although damage was by winds blowing in same direction. Short path of fallen trees about 50 yards wide first made, followed by skip of about 1/2 mile. Second hit was about 200 yard wide and about 400 yards long. Short distance further to northeast it hit third time over pa about 400 yards wide and about 500 yards long. Several hundred houses damaged, with only a fe heavily damaged and none demolished. I automobile turned over on its side. Pressurejump occurred at Craig Field at 4 a.m., accompanied by drop of several degrees in temperature, and it is believed that tornado aloft managed to briefly penetrate unfavorable surface condition to produce these surface gusts on right hand side of path. Funnel cloud seen in area at time of storm by weather forecast personnel of Craig AFB, presumably by light of lightning flashes. Storm moved northeastward.
ABAMA Shelby County	8	4:30 a.m.	9	40	0	0	4	1	Tornado	Tornado moved northeastward from 2 miles northe of Columbiana to 2 miles west of Wilsonville. Skipping path with width reported only along last 2-1/2 miles.

See footnotes at end of table.

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Place	Date	Time	Length of p	Width of payards	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
GEORGIA Early and Cal- houn Counties	8	9-10 a.m.	15		Đ	1	4	1	Tornado	Storm moved northeastward from south of Blakely, Early County, to near Leary, Calhoun County, causing property damage at 4 different places along path. About 7 small houses and several barns destroyed and 2 larger houses damaged. Many trees uprooted or twisted off and 2 automobiles damaged by falling trees. 1 person injured slightly.
NORTH CAROLINA Yadkin and Surry Counties	8	12:30-2 p.m.	20	300			4		Wind	School damaged, wall blown in. Roofs damaged, outbuildings destroyed. Some indication of tornado activity, but not conclusive. Storm moved northeastward.
ILLINOIS Central and northern portions	8	Afternoon							Wind	Rapidly intensifying LOW center moved from northern Illinois to Lake Superior. Westerly winds 30-45 m.p.h., caused scattered light damage, especially in Chicago area.
NORTH CAROLINA Catawba County	8	Afternoon			1				Wind	Man electrocuted by "live" wire blown down in windstorm.
WEST VIRGINIA Western and central counties	8	Afternoon				1		1	Wind	Scattered reports of trees blown down or large limbs broken off, roads temporarily blocked, windows blown in, roofs and other parts of buildings damaged, antennas blown over, power services disrupted. Storm moved northeastward.
WISCONSIN Northern and Central portions	8	Afternoon				2	4	1	Wind and snow	Storm moved eastward.
NORTH CAROLINA Wake County	8	4 p.m.				1	3		Wind and rain	Woman injured in automobile accident, due to blinding rain and wind. 2 houses partially unroofed in Raleigh suburb.
PENNSYLVANIA Statewide	8	Afternoon -evening				9	4	1	Wind	Strong, gusty winds which reached 70 m.p.h., caused most of damage in western part of State. Flying glass from broken plate-glass store windows responsible for all injuries. Several buildings unroofed. Property damage from uprooted trees and snapped utility lines wide-spread. Several large cinder-block walls under construction blown down and home near McKean blown off its foundation. Storm moved eastward
NORTH CAROLINA Wilson, Edge- combe, and Bertie Counties	8	6:30-7 p.m.	40	1-200	0 0	5	5	4	Tornado	American Red Cross reports only 1 major injury. Following also reported by Red Cross: 10 homes 23 farm buildings, 5 other buildings destroyed; major damage to 8 homes, 21 farm buildings, 6 others; minor damage to 20 buildings, 34 families affected. Greatest single item of damage was 1,250-pupil school destroyed in Wilson County. Tornado moved northeastward.
	8									Minor storms also reported at Canton and Waleska and near Dahlonega, Ga.; and at Golden Meadow, La.
MICHIGAN Upper and Lower all portions	8-9	Noon 8th- noon 9th					5	1	Wind, snow, and glaze	Light to moderate snow and some glaze. \$50,000 damage to pier at Grand Haven, rest of damage to plate-glass windows, billboards, automobiles minor structures, etc.
NEW YORK	8-9	Afternoon 8th				3			Wind, snow, and rain	Low pressure storm area moving through southern Canada north of New York State caused strong, damaging winds over many sections of State. Some rains also occurred and snow squalls developed as cold air followed storm. Innumerabl power- and communications lines downed as well as trees, branches, etc. Wind gusts reached 72 to 80 m.p.h., in Niagara with gale winds or more in many sections of State. 2 school boys in Lackawanna hit by falling chimney and 73-year old man in Buffalo blown down and suffered broken wrist. Snow squalls in Lake Erie and to less extent in Lake Ontario snow belts caused usual traffic problems along with some fallen lines due to snow accumulation.
CONNECTICUT Southwestern portion	8-9	P.m. 8th early a.m. 9t				2	2 5	- 489	Wind and rain	High winds of 30 to 40 m.p.h., general over State and gusts to 60 m.p.h. Concentrated damage in Fairfield County. Falling trees and limbs caused widespread power and telephone failures for several hours throughout County. 2 persons escaped injury from large tree blown over on front end of car. Car heavily damaged. DC-3 aircraft touching runway at Westchester, N.Y., airport blown aloft suddenly by wind gust and forced to land in residential street of Greenwich, Conn., a few miles away. Pilot and copilot slightly injured; no damage to residenting property, but plane damaged in excess of \$100,6 Small boats blown ashore in Westport harbor.

			path,	path,		nber	Estimated by cates	damage gories †		
Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
MAINE, MASSA- CHUSETTS, NEW HAMPSHIRE, and VERMONT	8-9	Evening- night				4	4	1	Wind, rain, and electric- al	Winds over entire section caused widespread minor damage from falling trees, limbs, and wires, most numerous instances in Massachusetts. Outdoor movie screen damaged at Chicopee, Mass. Many small boats and fish traps along Cape Cod damaged. Tree fell across road at Swansea, Mass., causing 4-car accident and 2 injuries. Tree smashed automobile at Springfield, Mass. 2 additional injuries in automobiles said to be due to storm. Lightning burned grist mill at Rockland, Mass. Tree fell on house in Lacconia, N. H. Extensive power failure for short time at St. Johnsbury, Vt.
OHIO Scattered points, es- pecially north- ern portion	8-9				2	Sev- er- al	4	2	Wind	Storm moved southward. Injuries from flying debris and deaths caused by contact with fallen power wires. High winds covered all of Great Lakes and Ohio Valley. Speeds high, particularly following cold front which moved past Cleveland area shortly after noon. Winds of 80 m.p.h., measured along Lake Shore, and nearly as strong at some inland points. Damage widespread and significant, although in many places confined to roofing, windows, trees signs, utility lines, etc. Most spectacular were Highway Patrol radio tower destroyed at Massillon, and Weather Bureau storm warning
	8-9									tower toppled at Conneaut.  Minor storm also reported at South Bend, Ind.
OREGON Western portion	10	Afternoon -evening	250	*100			4	2	Wind and rains	High winds accompanied locally by heavy rain occurred nearly full length of Oregon coast and inland for 60 to 100 miles. Gusts recorded up to 48 m.p.h., at Portland, 46 m.p.h., at Medford, 44 m.p.h., at Salem. I home suffered heavy damage in Albany area, several roofs damaged in other scattered areas. Numerous power service interruptions for short periods. Practically all damage due to wind. Estimated not more than \$2,000 due to rains. Storm moved eastward.  Some traffic accidents in which injuries occurred but no known injuries as direct result of storm
CALIFORNIA Santa Barbara County	12					1	2		Wind	elements.  Strong, gusty winds broke branches from trees.  Woman injured by falling branch. 2 boats dragged anchors in harbor, but no damage reported.
LOUISIANA Alexandria (20 miles southeast of), Rapides Parish	13	11:10 a.m.			0	0	3	1	Tornado (suspected)	2 homes destroyed, but no other information available.
LOUISIANA De Ridder, Beauregard Parish	13	1:20 p.m.							Wind	Only report was by radio station but no details available from any source; not included in Red Cross report.
LOUISIANA Burrwood (1 mile south of), Plaquemines Parish	13	1:25 p.m.		8	0	0	3	1	Tornado	Tornado moving northward damaged 1 house and 1 warehouse, broke some windows, and overturned rain gage.
MISSISSIPPI Meridian, Lauderdale County	13	10 p.m.					4	1	Wind	Buildings unroofed, trees uprooted plate-glass windows smashed, and powerlines downed.
MISSISSIPPI Stringer, Jasper County	13	10:30 p.m.				6	4	3	Wind	6 injured when automobile crashed into fallen tree during storm; some damage to homes.
COUISIANA Ramsay St. Tammany Parish	13	11:25 р.т.	2	100	0	0	5	1	Tornado	Tornado moving northeastward caused heavy damage to church and dormitories of St. Joseph's Abbey and St. Gertrudes Convent, with trees uprooted or twisted off 6 to 12 feet above ground; downed trees indicated rotating winds.
Washoe and Mineral Counties	13	Evening							Wind	In Reno-Sparks area, gusty winds up to 72 m.p.h., blew over 45-foot house trailer, toppled several trees, and caused damage to roofs, sign boards, and powerlines. Damage to dwelling roofs reported at Hawthorne.
	13									Minor storms also reported in Delta area, and at Mansford and Oakdale, La.; and at Vicksburg, Miss.

			path,	path,	Num of per		Estimated by cates		Character	
Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
LABAMA Russellville, Franklin County	13-14	Night							Wind	General high winds over State. Power disruption due to fallen trees in Russellville.
LABAMA Mobile County	13-14	Night					4	1	Wind	General high winds over State. Tug boat at Mobile driven into L&N bridge by wind and current early on 14th. Trains halted at Mobile, Pensacola, and Flomaton. Tree fell across automobile at Citronelle.
LORIDA Quincy area, Gadsden County	14	8:30 a.m.			0	0	3		Wind and tornado (suspected)	3 homes sustained major damage, several other buildings unroofed.
INDIANA	14	Midday				6	5	1	Wind	Righ winds from intense Low pressure center blew down television antennas, utility lines, and trees; broke windows, and damaged build- ings. Peak gusts reached 69 m.p.h., at Indianapolis. Some of cities reporting damage were: Bedford, Muncie, Rushville, Anderson, Columbus, Whiteland, Greenwood, and Auburn.
	14									Minor storms also reported at Brunswick, Jones- boro, and Savannah, Ga.; in Erie area, Pa.; and at Crossville, Tenn.
MICHIGAN Lower Southern half		A.m.14th - a.m. 15th					4	1	Wind	
MISSISSIPPI Grenada, Grenada County	15	3:30 p.m.					4	1	Hail and wind	Some homes unroofed and windows broken.
Grenaum Councy	15									Minor storms also reported in Gregory and Lawrence Counties and in northern Black Hills, S. Dak.
TENNESSEE Knoxville and vicinity, Knox County	15-18							1	Rain	Heavy rains caused flooding of some streets, severe erosion and some rock slides onto streets; some families evacuated in Knoxville and about 10 in Fountain City.
LOUISIANA Ft. Jessup, Sabine Parish	16	5 a.m.	1	100	0	1	4	1	Tornado	Tornado moving northeastward demolished 3 homes and 1 automobile and damaged several homes.
TENNESSEE Chestua Com- munity, Monroe County	16	A.m.						1	Electrical	Barn containing 1,200 bales of hay, 2 calves, and 6-acre tobacco crop struck by lightning and burned to ground.
ALABAMA Red Hill, Marshall County	16	Morning					4	1	Wind	3 barns unroofed.
	16									Minor storm also reported in Georgetown area, S.C.
MISSISSIPPI Macon (5 miles west of) Brooksville, to Deerbrook, Noxubee and Lowndes Counties	17	12:15- 12:40 p.m.	15	70	2	2	5	3	Tornado	Developed 5 miles west of Macon, crossed highwight north of Brooksville and dissipated after passing Deerbrook; followed by State Police; 5 homes, 2 barns, and 4 other buildings destroyed; 5 homes and 7 barns damaged. Tornad moved north-northeastward, probably passed into Alabama.
ALABAMA Pine Springs, Lamar County	17	1:10 p.m	1.		0	(	3	1	Tornado	Near Sulligent. Brief dips in spots of tornad which hit near Gattman, Miss.
MISSISSIPPI Kilmichael to near Stewart, Montgomery County	17	1:30 p.m	. 8	100	0		4	1	Tornado	2 homes and 1 other building destroyed and 8 buildings damaged. Tornado moved eastward.
ALABAMA Walker County	17	3:12 p.m	1. 5	15-40	0 4	1	5 4	1	Tornado and hail	Tornado moved northeastward from Cross Roads, 6 miles northwest of Jasper, to 1 mile north of Manchester. Hail occurred ahead of storm.
ALABAMA Cullman Count	у 17	4:10 р.п	a. 8		0	) :	5	4	Tornado	Tornado moved northeastward from Trimble to Crane Hill and Bethsaida. Became wide and dissipated over Cullman, where damage scatter Crop damage mostly to unpicked cotton.
OKLAHOMA Idabel to Eagletown, McCurtain County	17	4:30 p.n	n .						Wind, hail, and rain	Strong winds caused general damage to utilitie roofs, windows, outbuildings, trees, etc., in Idabel area. Hail up to 1/2 inch in diameter fell at Idabel and up to size of golf balls a Eagletown. Storm moved northeastward into Arkansas.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
FEXAS Fort Worth (5 miles west of), Tarrant County		4:35 p.m.		50-75	0	2	3		Tornado	Small tornado touched ground momentarily in southwestern part of White Settlement Township Mainly roofs, glass windows, signs, and TV antennas damaged; 1 small outbuilding demolished house trailers moved, 1 blown over. Woman and child in trailer injured. Tornado moved northeastward.
ARKANSAS DeQueen and Smyrna areas, Sevier County	17	5:30-6:10 p.m.					4	3	Wind, hail, and rain	Hailstones as large as tennis balls reported in scattered localities; extensive damage to roof automobiles, and timber. Principal wind damage in Smyrna area. Storm moved southeastward.
ARKANSAS  Mt. Ida (6 miles west of), Montgomery County	17	Early evening				1			Hail	Extremely heavy hail. 1 stone reported to have measured 11 inches by 9 inches in circumference and another 9-1/2 by 10 inches in circumference 1 person reported injured by hailstones. Damage to roofs and automobiles. Pine trees stripped of needles and small branches.
MISSISSIPPI Ripley, Tippah County	17	8:30 p.m.			0	0			Funnel aloft	Cloud aloft, roar heard.
Memphis (15 miles north of), Shelby County	17	9:15 p.m.			0	0			Funnel aloft	Pilot reported funnel cloud almost touching ground; no damage.
TENNESSEE Giles County	17	P.m.						1	Wind	Extensive roof damage to homes and barns, with resultant loss of stored crops, particularly tobacco. Elkton and vicinity hardest hit by wind; part of roof blown from home at Bryson.
TENNESSEE Athens, McMinn County	17							1	Rain	Several streets covered by water; 3 persons evacuated; heavy damage to cafe; some water in downtown basements.
	17									Minor storms also reported at Rosetta, Miss.; at Neosho and Springfield, Mo.; at Panama and Sallisaw, Okla.; at Ripley, Tenn.; and at Deport, Tex.
KANSAS North-central counties	17~18	Afternoon -night							Snow	Heavy snow totaling near 10 inches in area 50 miles wide from Lane and Ness Counties northeastward to Smith and Republic Counties resulted in some blocked roads and loss of unharvested grain sorghums. Greater losses avoided due to lack of strong winds and severe cold. Storm moved southeastward.
OWA Northwestern two-thirds	17-18	7 p.m. 17th- 5 p.m. 18th			4	18	5	1	Snow	Up to 18 inches snow covered band from southwes to northeast across central Iowa. Traffic stalled for 24 hours in some areas. Hundreds of traffic accidents during storm and on slippery highways in days following storm. 4 persons died from over-exertion, due to shoveling snow. Injuries resulted from traffic accidents. Storm moved northeastward.
Holly Bluff (6 miles east of), to Yazoo City, Yazoo County	17-18	During night					3	4	Wind and rain	Squalls blew open cotton out and rains damaged it; trees uprooted, powerlines downed, some roof damage. Storm moved east-northeastward.
(ISSISSIPPI Nitta Yuma and Rolling Fork areas, Sharkey County	17-18	During night					3	4	Wind and rain	Squalls blew cotton out on ground and rains ruined it.
SEBRASKA South-central and eastern portions	17-18	P.ma.m.					3	6	Snow	Much mile or grain sorghum broken off and dropp to ground, increasing difficulty of harvesting and causing much grain to be lost. Considerab damage to ornamental shrubs and trees. Snow depths up to 14 inches, many localities re port heaviest November snow of record. Storm moved east-northeastward.
Indian Mound Community, Stewart County	17-18							1	Rain	7 families evacuated; minor damage to 8 homes, 6 farm buildings, and 5 other buildings. 1 building destroyed.
	17-18									Minor storm also reported at Black Hawk, Miss.
RKANSAS Blakely Mountai Dam (near), Garland County	n 18	3:30 a.m.				1	3	1	Wind	l cabin destroyed and boat dock and trees damaged.

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Place	Date	Time	Length of path,	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
Needmore Com- munity, Mont- gomery County	18	4 a.m.			0	0	3	1	Tornado	House wrecked and most of its furniture damaged porch blown off second house; numerous trees and utility poles blown down or sheared off.
RKANSAS West Memphis, Crittenden County	18	7 a.m.							Wind	Roofs damaged, utility poles broken, and power services disrupted.
ISSISSIPPI LeTourneau Community, Warren County	18	10:30 a.m.			0	0	3	1	Tornado	Struck in mostly wooded area; moved eastward.
ISSISSIPPI Warren, Hinds, and Rankin Counties	18	10:30 a.m. 12:30 p.m.	50	*1			5	3	Wind	Moved eastward from Vicksburg through Bolton, Clinton, and Jackson into Rankin County; Clinton and Bolton hardest hit; 1 home and 18 farm buildings destroyed; 16 homes and 32 barn damaged; 22 other buildings, including an oil derrick damaged or destroyed.
OUISIANA Springville to Kentwood (5 miles south- west of), Livingston and	18	11-11:45 a.m.	15	25	0	0	4	1	Tornado	Began as severe storm near Springville and move over thinly settled area to near Kentwood; dam spotty with heaviest near Kentwood where 1 hou and dairy barn destroyed and 2 homes damaged. Tornado moved north-northeastward.
St. Helena Parishes ENTUCKY Pulaski County	18	A.m.			1				Electrical	Woman killed when struck by lightning while working in barn.
OUTH CAROLINA Anderson County eastward to Fairfield County	18	Morning				1	4	* 1	Rain	4- to 5-inch rainfall occurred on early morning of 10th from about Anderson County through Fai field County; caused considerable damage to county roads, etc.
ISSISSIPPI Meridian and Russell areas Lauderdale County	18	Noon					4	1	Wind	Widespread high winds destroyed 1 home, damaged 7 others and damaged numerous other buildings, uprooted trees, downed power- and communication lines. Storm moved eastward.
ISSISSIPPI Pontotoc County	18	Noon					4	1	Wind	1 home destroyed, 3 homes and 3 barns damaged; no other data available.
DUISIANA Franklinton area, Washing- ton Parish	18	12-12:30 p.m.	10	3000			4	3	Wind, elec- trical, and rain	Severe thunderstorms with high winds caused wid spread mostly minor damage over western half of Parish, with greatest damage in Franklinton area where 5 homes and 5 farm buildings suffer major damage; trees uprooted and powerlines downed. Storm moved eastward.
ISSISSIPPI Cairo communi- ty to Holcut, Prentiss and Tishomingo Counties	18	12:10 p.m.	10	50	0	2	5	1	Tornado	Moved northeastward from Cairo community, 15 miles east of Booneville, into Tishomingo Coun destroying 6 homes and 6 farm buildings and damaging 13 homes, 6 farm buildings, and 2 other buildings.
ENNESSEE Hohenwald, Lewis County	18	1 p.m.						1	Wind	Several trees uprooted and many homes damaged; side blown from garage.
LABAMA 570% Franklin 570%	18	1:30 p.m.	8		O	0	4	1	Tornado	Tornado moved northeastward, partially destroyed house and moved another on foundation at Belgreen. Several downtown store roofs damaged in Russellville probably due to spread-out win of dissipating tornado passing Belgreen.
ISSISSIPPI Sharon Com- nunity to Sandersville (near), Jones County	18	1:30 p.m.	5	50	0	2	4	1	Tornado	3 homes and 6 farm buildings destroyed, 13 home and 6 other buildings including church damaged Tornado moved northeastward.
ISSISSIPPI Hattiesburg (12 miles west of), Forrest County	18	1:30 p.m.					4	1	Wind	3 homes and 1 barn damaged.
ENNESSEE Maury County	18	1:30 p.m.				2	5	1	Wind	At Columbia, blew portion of roof off 1 school, allowing rain damage to interior and splintere door of another; moderate wind damage to 4 business establishments; numerous TV antennas damaged; many trees felled or damaged, some da aging phone lines; minor injuries to 2 persons due to wind-blown objects; damage in County as a whole, about \$250,000.

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Place	Date	Time	Length of p	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
TENNESSEE Columbia (5 miles south- east of), Maury County	18	1:30 p.m.						1	Wind and rain	Wind hit suddenly. Rain came down so hard could not see trees a few feet from house. I house considerably damaged and moved 8 feet off foundation, porch blown off another, and part of roof blown off third; 6 smaller farm buildings blown or knocked down; 15 trees snapped off, utility lines downed, and minor damage to several other barns and outbuildings.
TENNESSEE Mt. Pleasant, Maury County	18	1:30 p.m.						1	Wind	Building unroofed, allowing extensive rain damage; store door and window smashed.
TENNESSEE Nashville and vicinity, Davidson County	18	2 p.m.				1	4	1	Wind	Chimney, toppled by wind, punctured school roof causing serious injury to 1 child inside; display shed, containing 15 motor boats, blown over; 48 feet of new metal roofing ripped from State Capitol building and flagpole atop building bent; several trees and windows broken and numerous power- and phone lines downed.
ALABAMA Greene and Hale Counties	18	2:30 p.m.	28		0	5	5	1	Tornado	Tornado moved northeastward. From Forkland in Greene County it "plowed several miles" and lifted to strike again in Hale County, passing successively Sawyerville, near Akron, and Havana.
MISSISSIPPI Hale, DeSoto, and Linden, Clarke County	18	2:30 p.m.	. 10	75	0	0	4	1	Tornado and wind	5 homes, 5 barns, and 4 other buildings destroyed with 7 homes and 20 other buildings damaged; attendant squalls also caused minor damage over most of County. Storm moved east-northeastward.
ALABAMA Tuscaloosa (12 miles north of), Tusca- loosa County	18	2:45 p.m.	. 3	Narrov	0	1	4	1	Tornado	Storm moved northeastward.
ALABAMA Dallas County	18	2:45 p.m.	. 35	Narro	0	0	4	1	Tornado and hail	Northeastward skipping path, with only brief dips to ground, from Safford to near Orrville, near Marion Junction, and on to Summerfield and Plantersville. At Plantersville, hail large as hens' eggs reported. Residents of Plantersville terrified by funnel dipping up and down.
Bunker Hill to Bassfield, Walthall, Marion, and Jefferson Davis Counties	18	3-4 р.т.	25	75	0	2	5	1	Tornado and wind	Began in Walthall County where heaviest damage occurred, degenerating into area squalls as moved across Marion County into Jefferson Davis County; 4 homes and 13 farm buildings destroyed, while 10 homes and 16 barns suffered major damage with 38 homes and 31 other buildings damaged to some extent. Storm moved northeastward.
ALABAMA Jefferson County	18	3:30 p.m	. 7	50-20	0 1	35	6	1	Tornado	Tornado moved northeastward from Ensley past north Birmingham to Tarrant City. Storm passed about 2 miles northwest of Birmingham Airport. Red Cross reported 121 houses damaged or destroyed and 395 homes with minor damage.
ALABAMA Hulaco, Morgan County	18	Afternoo	n Short	Narro	w 0	0	4	1	Tornado	Brief dips of tornado wrecked 1 home, took back porch off 1 home, blew washhouse away, and unroofed barn.
ALABAMA Entire State	18	Afternoo	n				4	1	Winds	Pressure gradient over State gave rather windy afternoon when gusts of 40 to 50 m.p.h., common. Local scattered damage occurred over Marion and Fayette Counties, including section of bleachers blown over at school stadium at Brilliant, Marion County, and many trees and TV antennas downed. In Selma, Dallas County, scattered trees and TV antennas blown down, windows broken, and signs overturned. Tree in Decatur blown across house; wet soil contributed to felling of tree.
ALABAMA DeKalb County	18	4:15 p.m	. Shor	tNarro	w 0	0	4	1	Tornado	Dipped at Fairview Community, near Dawson. 2 homes, 2 broiler houses, and several other buildings wrecked.
KENTUCKY Danville area, Boyle County		4:25-4:3 p.m.	10		0	0	4	5	Tornado	Tornado hit outskirts of Danville. I warehouse, containing tobacco, destroyed and another warehouse damaged. Roofs on about 12 houses damaged. Plate-glass windows, signs, trees, and smaller buildings smashed.
TENNESSEE Shirley, Armathwaite, and Mt. Helen, Fentress Count	·	4:30-4:3 p.m.		22	0	2		- 494	Tornado	At Shirley, barn demolished, house almost entirely unroofed, building blown 20 feet off its foundation, and several large trees blown down. Back glass in automobile almost pulverized and buckled from inside out suggesting reduction of pressure outside. At Armathwaite, barn destroyed and home partly blown away, the remainder catching fire and burning. Home and nearby car total losses. At Mt. Helen community, 2 broiler houses demolished; 1 contained 5,000 3-week old chickens, many of which were killed or died

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
ENNESSEE (Cont'd.)										of exposure. 2 men slightly injured; 1 from flying debris, the other from a fall. Roof blown off 1 house and another damaged. Tornado moved northeastward.
LABAMA Alexander City, Talla- poosa County	18	4:35 p.m.	Shor	Narrow	0	0	4	1	Tornado	In Spring Hill subdivision 2 houses and 1 traile and other buildings damaged. Trees strewn "like match sticks".
LABAMA Heflin (near), Clebourne	18	5:15 p.m.			0	0	4	. 1	Tornado	In Macedonia area. A number of broiler houses destroyed, scattered roof damage, porches damaged, and trailer destroyed.
County EORGIA Gore, Chattooga County	18	5:45 p.m.	12	500	0	1	5	2	Tornado	3 houses destroyed or heavily damaged and severa barns and chickenhouses demolished. Property damage included \$3,500 losses in livestock. Man injured when his car was blown off road and overturned several times. Tornado moved north- eastward.
LABAMA Lawrence and Morgan Counties	18	Late af- ternoon			0	0	3	1	Tornado (sus- pected) funnel aloft	Witnesses saw funnel cloud form southwest of Decatur and pass over City. It may have cause damage reported in southeastern Lawrence Count which was not heavy. Storm moved northeastware
LABAMA Blount and Marshall Counties	18	Late af- ternoon	30	100	3	12	5	3	Tornado	Northeastward from Rosa, near Oneonta, Blount County passed Snead, Horton, and finally just northwest of Albertville. Pilot reported path straight as an arrow and with only one lift which was Short Creek and Town Creek.
ALABAMA Ashland (near), Clay County	18	Late af- ternoon			0	0	4	1	Tornado	l building unroofed, several houses' roofs damag l house moved off pillars, 3 other buildings badly damaged. Porches removed from several houses.
FENNESSEE Spring City Rhea County	18	6 p.m.					6	1	Rain and wind	Wall of water descended on Spring City as result of 3-day downpour west of city; several homes twisted from their foundations and moved 50 to 75 feet; downtown businesses wrecked; 8 homes destroyed, 92 buildings sustained major damage and 150 buildings received minor damage. 247 families affected, about 75 of which were evacuated.
GEORGIA Atlanta (Westend and southwest sections) Fulton County	18	7:15 p.m	L				5	1	Wind	At least 10 business buildings and many more residences suffered varying degrees of roof as structural damage. Some smaller buildings destroyed completely. 100 or more trees uproot or broken off and extensive damage to utility lines.
GEORGIA Crandall, Murray County	18	Early evening	5		0	) (	0 4	1	Tornado (suspected)	l church and 3 houses severely damaged and chickenhouses and barns destroyed. Tornado moved northeastward.
TENNESSEE Tracy City, Grundy County	18	9 p.m.						1	Rain	New broiler house flooded, killing 1,500 baby chickens.
KENTUCKY Metcalfe County	18	P.m.			(		0 4	4	Wind and tornado (sus- pected)	Northern end of county buffeted by winds that leveled 3 tobacco barns containing tobacco, and severely damaged 3 houses. Several other homes received lesser damage.
TENNESSEE Rhea County	16	P.m.						1	Rain	23 homes flooded in Morgantown, south Dayton, and Frog Level areas, 2 of which damaged extensively; 10 farm buildings sustained minor damage and 2 other buildings major damage.
GEORGIA Northeast quarter	11	8 Night					4	1	Wind and electrical	In addition to the above localized storms, hig winds caused widespread but mostly minor dama in several widely scattered areas. At Griffi Spalding County, 3 houses damaged; in Troup County, roofs and utility lines heavily damaged; in Butts County 1 house destroyed and another damaged; at Adarisville, Bartow Count 1 house unroofed; at Bremen, Haralson County, several houses damaged; in Carroll County min damage reported.
KENTUCKY Muhlenberg County	1	8				1			Electrical	Child killed when lightning leaped from elec- trical outlet into room where she was sleeping
KENTUCKY Bourbon County	1	8					4	4	Electrical	Lightning destroyed barn, containing stripped tobacco, hay, straw, and farm machinery.
TENNESSEE Anderson	1	8							Rain	15 to 20 families evacuated at Lake City; base ments flooded at Norris; some homes surrounde by water at Clinton.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
ENNESSEE Shelbyville and vicinity, Bedford County	18								Wind and rain	Duck River about 5.4 feet above flood level; about 12 families evacuated; several streets underwater; some water damage to residences and other buildings; heavy crop damages, especially to corn in fields. Station wagon and pickup truck heavily damaged by tree blown down by wind.
CAMPBELL Campbell County	18								Rain	Heavy rains washed out railroad tracks between Jellico and Caryville and between Caryville as Pioneer. At Newcomb, some streets inundated and water entered basements.
Dyersburg, Dyer County	18							1	Rain	Heavy rains caused flooding of lowlands. 15 to 20 families evacuated, basements flooded, and some highways inundated.
ENNESSEE Buchanan (near), Henry County	18							1	Electrical	Lightning struck barn, containing 1,000 bales of hay, which burned to ground. Farm home als severely damaged by lightning.
ENNESSEE Hickman and Perry Counties	18								Wind and rain	Damage to TV antennas and farm outbuildings; re of store near Linden damaged; corn in fields badly damaged by high winds and torrential rate
ENNESSEE Memphis, Shelby County	18							1	Wind	Hay barn blown down, shingles blown off 7 or 8 houses, and trees and phone wires downed.
ENNESSEE Portland (near), Sumner County	18							1	Rain	Flash flood washed out railroad tracks at 2 points near Portland and inundated rails at third.
	18									Minor storms also reported at Arab, Ala.; near Clarendon, Ark.; at Lafayette, Ind.; at Kenne La.; at Ripley, Miss.; and at Dunlap, Goodlet ville, Hartsville, Henderson, Huntingdon, Martin, and McMinnville, Tenn.
INNESOTA Southeastern half	18-19	A.m. 18th				Many			Snow and wind	Snow began morning of 18th continued for 24 ho with accumulation up to 16 inches in extreme southeast. Drifting snow halted traffic. Ov 200 schools closed. 3 automobile deaths attributed to storm. 1 person died shoveling snow. Numerous injuries from falls on icy streets and walks. Loss of unharvested corn and soybeans expected to be heavy. At Twin Cities, 9.5 inches snowfall was third greates 24-hour November snowfall of record; greatest was 16.2 inches on November 11-12, 1940.
LLINOIS Entire state	19	Early morning							Wind	Southwest winds 30 to 40 m.p.h., behind deepen north-northeastward moving LOW center caused widely scattered light damage.
ICHIGAN Lower - All portions	19	Early a.m after- noon			1		4	1	Wind and snow	19 inches of snow in some areas in western Upp Michigan; fatality near Grand Rapids when tre fell on victim.
ENNSYLVANIA Palmyra area, Lebanon County	19	12:20 p.m.	2	14	0	0	4	1	Tornado	Tornado moving northeastward destroyed barn an garage, damaged automobile extensively, tore off porches and roofs from homes, ripped part of home in two, twisted off many TV antennas including one 60 feet high, and twisted off ll utility poles.
ENNSYLVANIA Pottsville area, Schuyl- kill County	19	12:45 pm.			0	0	5	1	Tornado and rain	Tornado moving northeastward smashed windows, leveled billboards, and ripped roof from driv in theatre restaurant. Heavy rain accompanyi storm did extensive damage to equipment insid restaurant. Factory roof also blown off, resulting in \$5,000 damage.
ENNSYLVANIA Eastern half	19	Afternoon					4	1	Wind	Numerous utility lines and poles, trees and TV antennas downed by 40- to 70-m.p.h., winds.  Many house roofs also suffered considerable damage. Storm moved eastward.
EW JERSEY Washington, Warren County	19	3:03 p.m.	1300	150	0	0	5		Tornado	Small twister dipped through 2-block area in business district, moved aloft, and then strul-block area in housing development 1/2-mile away. Severe damage to framework of 1 store, roofs blown off, and many windows out, mainly in business area. Storm moved east-northeast ward.
ENNESSEE Obton County	19							- 496 -	Rain	At Obion, water covered almost all southeast stion of city adjoining Obion River; 64 familievacuated. At Union City, 21 families evacua and some industrial buildings flooded. At Rives, several families evacuated. Consideral damage to crops still in fields.

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Place	Date	Time	Length of p	Width of payards	Killed	Injured	Property (exclusive of crops)	Crops	of storm  Note that the storm of the storm o	Remarks
	19									Minor storm also reported at Rockwood, Tenn.
AINE, MASSA- HUSETTS, and IEW HAMPSHIRE		Afternoon -night			1	Some		1		Damaging winds caused widespread, but minor datages in area. Falling limbs and trees broke powerlines in many towns. Lightning caused power failures by burning out power transform in Springfield, Mass., where heavy rains also washed out a road. Rain blamed for 1 death i Springfield, Mass., when pedestrian struck by automobile. A number injured in automobile accidents attributed to storm.
MICHIGAN Detroit, Wayne County	20	5:50 p.m.	1-1/2	75- 150	1	12	5	1	Tornado (sus- pected)	No funnel observed, but definite path and width of damage characteristic of tornado. Fatality and most of injuries caused by falling "chunks" of concrete in factory building. Tornado moved east-northeastward.
TENNESSEE Cumberland County	20								Rain	Several families evacuated at Crab Orchard; esti- mated 12 houses with 6 to 18 inches of water. considerable damage to county roads and at least 4 bridges washed out. Damage to some hay, grain, and corn in flooded barns.
TENNESSEE Fayetteville,	20								Rain	Several families evacuated; considerable crop damage in county.
Lincoln County	0.1					1	3	1	Wind	Side of a house and many roofs, awnings, windows, television antennas, and lines damaged.
INDIANA Hancock, Madison, and Marion Coun- ties	21									
TENNESSEE Henderson County	21								Rain	Severe damage to corn in fields; some roads impassable.
TEXAS Northwestern portion	21				1	3			Snow	First snow of consequence in Texas this season varied from 4 to 8 inches. Near-blizzard conditions caused closing of schools in at least 7 South Plains towns. Visibility in some place not over 100 yards. Many accidents occurred, 1 death in collision blamed on storm.
	21									Minor storms also reported at Flagstaff and near Prescott, Ariz.
CALIFORNIA Southern mountains and coastal plain from Oxnard t San Diego	S	22				15			Wind, sand, and fire	Santa Ana winds blowing from Mojave Desert through mountain passes of south, with gusts reported reaching 90 m.p.h., caused widespread damage to trees, buildings, utility lines, sign aircraft, and automobiles. 28,000-acre brush fire along 40-mile front west of Crystal Lake is San Gabriel Mountains started by warming fire i oil drum, used by road crew, overturned by wind Blowing dust and sand reduced visibility to nea zero in many areas, and along with other storm debris, presented major clean-up operation. In some urban areas, pedestrians ordered from streets because of danger from flying glass and other debris. Twelve of 33 passengers aboard Western Airlines plane flying over Ontario at 10,000 feet injured (four of them seriously) when plane severely jolted by downdraft in severe turbulence. Damage by communities follows La Habra: Several small trees downed; powerlib broken. Riverside: Tree-top fire destroyed 8 palm trees. El Monte: Minor wind damage from fallen trees and wires. San Juan Capistrano: Flower nursery damaged. Banning: Roof ripped from church; plate-glass window broken in auto mobile show room. Idyllwild: Falling trees damaged 7 automobiles, and more than a dozen cabins. Hemet: 4 persons injured when pickup truck overturned by wind; 2 persons injured in cars struck by falling trees; church roof dama 1 residence partially destroyed; 6 plate-glass windows broken. Altadena: Giant eucalyptus limbs broken; full-grown pine trees snapped li matches; several roofs partially or completely stroyed. San Jacinto: Huge tree uprooted, se verely damaging home; many narrow escapes from flying debris. Sunland-Tujunga: 2 persons in jured when tree fell on house trailer; 1 home ripped apart by wind; hundreds of trees uproot 1 tree 15 inches in diameter snapped in half; many plate-glass windows smashed; all homes ur roofed in 2-block area in Sunland; warehouse blown over in Shadow Hills area. Glendora: person injured by falling limb; 6 homes and 5 automobiles damaged by falling trees; many signand billboards blown do

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Place	Date	Time	Length of p miles	Width of payards	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
CALIFORNIA (Cont'd.)										unroofed. Oxnard: Heavy damage to young citrus groves; utility lines, television antennas, and window glass suffered most damage. Camarillo: dozens of TV antennas downed; trees and flagpoles snapped off; several signs demolished. Fontana: Over 60 trees downed; 2 house trailers and 2 furniture vans overturned by wind on expressway; heavy damage to utility wires and poles; 4 cars stalled in sandstorm had paint completely stripped off on windward side; heavy plate-glass window smashed in automobile show room. Santa Ana: Radio station off air when transmitter damaged by wind. Pomona: Hundreds of trees toppled; large limbs, cartons, and other debris littered streets; 2 homes, garage, and 1 parked automobile damaged by falling trees; 1 window broken. Colton: Many trees and utility lines downed; 2 automobiles damaged by falling trees. Ontario-Upland: Thousands of limbs torn from trees; several large trees uprooted or snapped by wind; 2 aircraft overturned by wind at Ontario International Airport; several automobiles damaged by falling limbs; many signs blown over, houses unroofed, and utility lines damaged. Huntington Beach; 7 steel oil derricks blown down across Coast Highway. San Pedro; Several boats damaged, and 4 boats blown ashore on Catalina Island and destroyed by surf. Whittier: Many tree branches broken and powerlines downed, but only 1 small tree uprooted. San Fernando: Partially built apartment house suffered severe structural damage; roof of new house blown away; several tied-down planes at San Fernando Airport damaged; wing of 1 plane sliced off by hangar door which was torn loose by wind; many plate-glass windows shattered. Los Angeles: About 350 trees downed in city, mostly in northern and western areas; 2 homes slightly damaged by falling trees. San Diego County: Trees blown down in El Cajon, Pacific Beach, and San Diego; shingles blown from roofs in Ramona and Lakeside; powerlines downed in many places over County.
MONTANA	22-23						3	1	Wind	northern Black Hills, S. Dak.  Damage to roofs, TV antennas, storm doors, etc.  Some soil blowing. Estimated peak wind speed
Conrad, Pondera County NEW YORK Lake Eric area	22-23								Snow and wind	Snow squalls caused by advance of cold air across warm waters of Lake Erie brought up to 3 feet of snow in some areas to lee of Lake. 200 plows necessary to clear snow, and traffic severely tied up. Some damage to power- and communications lines. No damage estimates available, but costs mostly in wages for clearance of snow and restoration of downed lines. Injuries not important. Some squall activity also to lee of Lake Ontario, but to much less extent.
WASHINGTON Northwestern portion	25	Afterno	on				4	1	Wind	Righ wind blew down trees in several localities in northern half of western Washington, damag- ing property and causing large number of power outages.
FLORIDA Alligator Reef, Monroe County	25	5 p.m.				0	0		Waterspouts and funnels aloft	4 waterspouts and 6 funnel clouds sighted off Alligator Reef.
IDAHO Kootenai and Shoshone Counties	25	Evening							Wind	Wind gusts estimated up to 50 m.p.h., at Kellogg, 40 m.p.h., at Coeur d'Alene. Utility poles toppled and trees blown across lines with disruption of power and telephone services. Some damage to roofs and windows, I automobile accident caused by tree blown across highway.
CALIFORNIA San Fernando Valley and San Bernarding and Los Angeles Count							3		Wind and dust	Santa Ana winds breaking through mountain passes raised huge billows of dust, reducing visibility to zero at Ontario and causing 500 employees at aircraft overhaul and repair base to be sent home. 2 trees blown down at Chino, tree blown down at Sunland, and some powerlines whipped down in San Fernando Valley.
	25									Minor storm also reported at Whitefield, N. H.

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Place	Date	Time	Length of path miles	Width of path	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
IDAHO Northern counties	27-28	Night							Snow and wind	Heavy snow which began evening of 27th caused much trouble on power- and telephone lines in Coeur d'Alene belt and Newport and Bonners Ferry's sectors. Crews worked 16 hours restoring service. At Lewiston WBAS, winds reached 57 m.p.h., at 4:50 a.m., of 28th.
TEXAS Kress, Swisher County	27-29							5	Wind	Damage heavy to maize crop.
KANSAS Cherokee County	29	8:45 a.m.							Wind, glaze, and snow	High winds estimated at 50 m.p.h., accompanied by some glaze and later by heavy snow caused damage to electric and telephone lines over county. Storm moved south-southeastward.
NEBRASKA Eastern portion	29	All day					2	6	Wind	Much additional milo or grain sorghum blown down, causing considerable grain to be lost.  Many ears of corn also blown from stalks.  Storm moved northeastward.  If previous autumn weather had been normally dry, these crops would have been harvested, and damage from these storms minor.
OKLAROMA Most of State	29	During day						3	Wind	Winds of up to 60 m.p.h., blew behind cold front across State. Widespread minor damage resulted to Christmas decorations, TV antennas, utilities, and unharvested sorghum crops. Several boat stalls damaged at Lake Tenkiller, Sequoyah County. Storm moved south-southeastward.
GEORGIA Alma (8 miles southeast of), Bacon County	29	2;45 p.m	. 1	300	0	6	4	4	Tornado	l house in which 12 persons were awaiting funeral was completely demolished. 2 persons hospitalized, others treated for minor injuries and released. Another house destroyed and 1 damaged. 3 cars wrecked after being carried several hundred yards. Losses include several head of livestock and chickens. Timber also destroyed. Tornado moved northeastward.
CALIFORNIA Berkeley and Oakland, Alameda County	29						3		Wind	Northerly gales aloft brushed surface in narrow band along Berkeley Hills, lasting for about 1-1/2 hours. 3 large plate-glass windows in furniture store shattered and window broken in printing shop. Branches blown from trees on University of California campus, and 2 large trees uprooted elsewhere in Berkeley.
CALIFORNIA San Gabriel Mountains, San Bernardim Los Angeles, and Orange Counties	29-3	0				1	4		Wind	Santa Ana winds breaking through mountain passes caused new flare-up of the 28,000-acre brush fire in San Gabriel Mountains. Winds reaching reported peak of 80 m.p.h., at Fontana blew down trees and powerlines, and in Buena Park man injured when 60-foot eucalyptus tree fell across pickup truck. House trailer upset and demolished by wind while being towed on Devils Canyon road north of San Bernardino.
LOUISIANA New Orleans, Orleans Parish	30	4:30 a.m					4	1	Wind	Squalls attending cold front uprooted trees, caused power failure and broke plate-glass windows, waves on Lake washed over seawall and damaged a few lakeside camps. Storm moved southeastward.

<sup>\*</sup> Miles instead of yards.

\*\* Yards instead of miles.

Includes crop damage.

C Crop damage.

\* Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than \$50
2 \$50 to \$500
3 \$500 to \$5,000
4 \$5,000 to \$50,000
5 \$50,000 to \$50,000
6 \$500,000 to \$50,000,000
7 \$5,000,000 to \$50,000,000
8 \$50,000,000 to \$50,000,000
9 \$500,000,000 to \$500,000,000
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Place	Date	Time	Length of path	Width of 1	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
NEW ENGLAND Northern and Central portions	1	A.m.			2	3	5	1	Wind, rain, and snow	Winds felled trees, limbs, and poles, snapping phone and powerwires in 4-state area. Most severe damage in central Massachusetts, where gusts reached 70 m.p.h. Many TV antennas and some chimneys, signs, and plate-glass windows smashed. Barn blew down at Sterling, Mass., \$9,000 loss, including livestock. Sawmill at Zoar, Mass., collapsed. House roof section blown off at Clarksburg, Mass. Trees fell on barn at Yarmouth, Maine, and on several houses and 3 automobiles in Massachusetts. Falling limb injured man at Methuen, Mass. Cabin cruiser blown from moorings at Nahant, Mass., and wrecked on rocks at Graves Light. Rain in southern portion. Snow in north, up to 8 inches in northern Maine. Automobile accidents due to storm killed 1 person at Troy, Vt., and another injured. Another injured at Farmington, Maine. I dead from overexertion at Mapleton, Maine. Damage estimated at \$60,000 in Massachusetts, \$20,000 in Maine, and \$3,000 each in New Hampshire and Vermont.
RHODE ISLAND Central and southern portions	1	A.m.					3	1	Wind	High winds with gusts measured at 55 m.p.h., at WBAS Providence caused widespread damage to powerlines, trees, and billboards in affected area. Two 50-foot boats driven ashore at Newport Navai Base; damage estimated at \$2,000. Numerous smaller boats capsized or driven ashore in Narragansett Eay. Telephone failures to 1,500 users and several large billboards, store awnings, and trees blown down in greater Providence area.
CALIFORNIA Ontario, San Bernardino County	2						1	1	Wind	Santa Ana type winds, reported reaching speeds exceeding 45 m.p.h., caused little apparent damage. House trailers ordered to stay off highways in area.
VIRGINIA Northern and western mountain areas	3-4	Afternoon -night							Snow and freeze	Snowfall up to 14 inches in Loudoun County and generally 6 to 8 inches in mountains of west and north. Many schools closed in these areas because of slippery roads and highways.
CONNECTICUT and RHODE ISLAND Southern half of both States	3-4	Late p.m. 3d-late p.m. 4th				11			Snow and wind	Coastal storm yielded 10 inches of snow at Stamford, decreasing to 5 inches at New Haven and to 3 inches in southeast sections. Trace or less north of Hartford-Providence line. Traffic badly snarled on highways from New Haven to New York, with trips normally taking 1/2 to 2 hours increased to 4 to 6 hours. Numerous minor automobile accidents with injuries reported to 6 persons, while 4 persons hurt in falls on slippery walks. Winds blew in 2 large store windows in Bridgeport and forced overnight suspension of Narragansett Bay ferries. Deep snow in southwest forced abandonment of hundreds of cars and necessitated lodging of many persons not able to reach homes.
MARYLAND and DELAWARE	3-4				2			ì	Snow	One of worst snowstorms in years paralyzed traffic and caused other troubles. Snow made driving hazardous and resulted in numerous traffic accidents. 2 persons died in traffic accidents. Thousands of motorists marooned for hours on blocked highways. Air traffic and shippingalso delayed. At Baltimore 8.4-inch snowfall on 3d-4th was second greatest so early in season and greatest since 9.9-inch fall on February 20, 1947 Greatest snowfall so early in season was 8.5 inches on November 25, 1938.
NEW JERSEY	3-4				2				Snow	Snowfall ranged from 1 or 2 inches along south- east coast to 13 inches in northern half of State. 1 death due to exertion, 1 to exposure.
IOWA Western por- tion	3-8					4	3	1	Snow	Snow-packed roads resulted in numerous automobile accidents.
NEW YORK New York City area, lower Hudson Valley, and coastal areas	4	Most of day			2	Many		1	Snow and wind	Snow of 4 to 12 inches fell from low pressure off Atlantic coast. Many traffic accidents and minor injuries from slippery traveling conditions Some powerlines downed. Staten Island man died of heart attack after shoveling snow. North Lindenhurst resident died of heart attack after shoveling snow.
PENNSYLVANIA Entire State	4	Through- out day			12	7	4	- 522 -	Snow	Day long storm ended with 3 to 11 inches of snow and drifts up to 6 feet deep with eastern sections hardest hit. All deaths result of heart attacks induced by overexertion in shoveling snow. Auto accidents resulted in several fatalities and injuries and accounted for all property damage. Storm moved eastward.

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Place	Date	Time	Length of path,	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
MASSACHUSETTS Nantucket and Cape Cod areas	4-5	Night					3	1	Wind and snow	Winds, reaching 80 m.p.h., in gusts at Nantucket caused minor damage there and on Cape Cod. 3 small boats sank and 6 others slightly damaged, 3 plate-glass windows broken at Hyannis, and some phone and powerwires snapped in area. Snow on Cape caused automobile accident at Santuit.
CALIFORNIA Southern coastal area	4-5						3		Hail, elec- trical, rain, and wind	Hailstones size of peas fell in Downey-Southgate area. Small earthslide occurred at Pacific Palisades and slide blocked Brea Canyon Road east of Pomona. Trees toppled in Los Angeles, Pasadena, Arcadia, Sierra Madre, and Ventura. Wind blew in plate-glass window at Inglewood automobile agency, and display window at Ventura appliance store. Powerlines blown down in scattered areas, and lightning struck utility pole in Walnut area. Slippery streets contributed to many traffic accidents. Freak windstorm in Huntington Park damaged 3 homes in 1-block area, blew down billboard damaging automobile, and uprooted tree. In 1-block area of Westchester, freak, described as "big black spot" arrived with roaring sound, twisting off large trees, pushing in window, sweeping shingles from roofs, and tearing boards from
SOUTH DAKOTA	4-8,					9	4		Ice and snow	fence.  Accidents resulted from icy or snow-packed high-
Statewide	17, 26, 29									ways on 4th through 8th, 17th, 26th, and 29th. Most injuries not serious.
	6									Minor storm reported at Ft. Lewis, Wash.
UTAH Northern portion	6-7				1	Sev- er- al		1	Snow	Blizzard conditions in portions of Uinta Basin and in several canyons along Wasatch Range. Roads closed in some localities and up to 16 inches of snow fell in mountains. Several persons injured in traffic accidents on icy roads. I man lost his life in accident in Weber County.
SOUTH DAKOTA Rapid City Pennington County	7	8-11 a.m.					2		Wind	Gusts to 70 m.p.h., toppled previously fire- weakened wall, breaking communications and powerlines. Other minor damage.
COLORADO Eastern portion	7	Forenoon					4		Wind and snow	Cold front caused sudden drop in temperature, snow, and high wind. Gusts of wind up to 95 m.p.h., recorded at Rocky Flats Atomic Plant near Boulder. At Greeley, winds estimated up to 70 m.p.h., blew down wall and partition to 86x80-foot garage under construction, also damaged power- and telephone lines and TV aerials. 2 light planes torn loose from moorings and overturned at Stapleton Airport in Denver. Unloaded panel delivery truck overturned on highway between Canon City and Colorado Springs by gust of wind. Many trees uprooted, signs blown down, powerlines, buildings, etc., damaged throughout eastern Colorado by winds generally 50 to 60 m.p.h. Storm moved southeastward.
WYOMING All of State	7	All day					4	1	Wind	Cold front passing through State, with strong winds causing small amounts of damage at many places including 4 aircraft at Cody, 2 aircraft at Douglas, overturned haystacks, damaged fences, many television antennas downed sand-blasted cars, etc. Storm moved southeastward.
	7									Minor storm also reported at Pawnee, Okla.
KANSAS Industry (near), Dick- inson County	9						4		Wind and fire	Fire which got out of control as result of high wind burned large hay barn and contents of 1,500 bales of alfalfa hay.
NEW YORK Capital District and middle Hudson Valley	9-10							1	Freezing rain	2-day freezing rain and freezing drizzle left ground, communications lines, and shrubbery covered with layer of ice. Numerous lines and trees downed and many minor accidents due to icy roads. Damages all small, but total (if available) would amount to several thousand dollars.
SOUTH BAKOTA Statewide	10	1-10 a.m.					3		Wind	Wind speeds of 40 to 50 m.p.h., destroyed Christ mas decorations and other fragile structures. In Minnehaha County, trailer overturned while in motion. Near Yankton, communications lines downed.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	of storm	Remarks
OKLAHOMA	10	Day				2		3	Wind and dust	Widespread minor damage resulted from strong northerly winds following cold front across State. Winds estimated at 60 m.p.h. Injuries resulted from wind blowing over concrete form, breaking man's leg, and blowing down an elderly woman. Blowing dust noted in open fields in west. Storm moved south-southeastward.
NEBRASKA Eastern third	10	All day					3	5	Wind and cold	Property damage widespread, but light; trees and TV antennas blown down and plate glass broken. I car smashed by falling tree. Much unharvested corn and milo blown down, some lost, and remainder harvested with great difficulty. Storm moved south-southeastward.
ISSOURI Lexington Lafayette County	10	1 p.m.							Wind	Large steel tower carrying 69,000 volt trans- mission line across Missouri River blown down.
KANSAS Central and eastern counties	10	Afternoon					4		Wind	High wind in advance of cold front reached speed of 60 m.p.h., or higher in gusts, at many places. Damage included Christmas decorations, TV antennas, trees, and electrical and communications services. Wall of new church in Hillsboro blown down, part of wall of old College Auditorium in McPherson toppled over and north wall of new garage in Eldorado flattened. Mino damages reported from other points. Storm moved east-southeastward.
MISSOURI Columbia, Boone County	10	7:30 p.m.							Wind	Fastest mile of wind, 56 m.p.h., from northwest at 7:30 p.m. This was 12 m.p.h. higher than previous record for December.
MAINE, MASSA- CHUSETTS, and NEW HAMPSHIRE	10				1	4	3	1	Wind, snow, and glaze	Northeast coastal storm caused minor wind damage in Maine and caused hazardous driving condition in 3 states. 1 person killed and 2 injured at Chelmsford, Mass., and 2 injured in Maine, by automobile accidents attributed to storm.
	10									Minor storms also reported in western Iowa and at Burlington Junction, Mo.
PENNSYLVANIA Entire State	10-11	Through- out days			2	15	3		Snow	l to 4 inches of snow piled up during 2-day period. Automobile accidents accounted for 2 deaths, numerous injuries and property damage. Storm moved eastward.
MICHIGAN Allegan, Cass, Berrien, and Van Buren Counties	10-11								Snow	Freak snowstorm, with snowfall ranging from 16 to 20 inches confined to small area in southwestern section of State.
NEW YORK State	10-12				4	Num- er- ous		_1	Snow	Snowfall of 3 to 9 inches in many places brought usual traffic accidents. Numerous injuries and 4 deaths resulted from accidents. 1 death near Silver Creek, another near Salamanca, and 2 at New Lebanon.
FLORIDA Limona, Hills- borough County	11	11 a.m.			0	0			Tornado	Small tornado unroofed several chicken houses as caused other minor damage.
VIRGINIA Central and northern mountain counties	11	Morning			13				Snow and cold	l to 9 inches of snowfall, heaviest in Rockingha County. Storm more severe since it was accompanied by cold wave which broke low temperature records for date by morning of 12th in a few locations. Icy roads and cold weather blamed for 13 deaths, 10 in home fires, 2 in traffic crashes, and 1 from exposure.
FLORIDA Naples, Collier County	11	2:30 p.m.			0	0			Funnels aloft	Several funnel clouds sighted; 1 may have dipped near ground as 1 building unroofed.
FLORIDA West Palm Beach, Palm Beach County	11	3:55 p.m.			0	0			Funnels aloft	Several funnel clouds aloft sighted near Palm Beach International Airport.
FLORIDA Captiva, Lee County	11	Afternoon			0	0			Waterspout	
MISSOURI Louisiana, Pike County	11-12	11 a.m. 11th-1a.m 12th							Wind	Strong winds and high waves along water front sank small boats and damaged docks.
CONNECTICUT Western and central portions	11-12	Early p.m 11th - early a.m 12th			2	4			Snow	5 to 7 inches of snow to inland western and central counties and up to 3 inches in coastal areas resulted in usual skidding accidents, traffic tieups, and greatly delayed travel on

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Place	Date	Time	Length of p	Width of payards	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
CONNECTICUT (Cont'd.)										highways. Fatalities due to overexertion, shoveling snow, and injuries in skidding accidents on highways.
NEW JERSEY	11-12								Snow	Snowfall from 1 inch along coast to 8 or 9 inches in northwestern counties.
MICHIGAN Marcellus, Cass County	12	Early morning					5	1	Wind	Housetrailer factory collapsed when strong winds blew in 1 wall.
NORTH CAROLINA	12	Early morning			1		4		Cold	Man killed by exposure to cold and other con- tributing causes. Coldest weather in 10 years over much of State, causing widespread occur- rence of minor damage due to water pipes burst ing, radiators freezing, etc.
SOUTH CAROLINA	12-13								Cold wave	Severe cold wave caused some freezing to water pipes, perishables, and even some hardy shrubs Small grains sustained some undetermined damage
OWA Waterloo, Black Hawk County	14	3:30 p.m.				1			Ice	Icy walks resulted in broken leg.
CALIFORNIA Entire State	15-16				7		3		Rain, snow, and wind	Heavy rains in north flooded many streets in Chico, and caused minor flooding in San Francisco Bay area. Private airplane with 7 person aboard crashed in heavy snow storm in Yuba Rive Canyon while in flight from Reno to San Francisco. All aboard killed. In south, torrentir rains flooded many areas of San Fernando Valley Subdivision in Canoga Park inundated, damaging several homes. Home damaged by mud slide in Burbank. Some stores in Valley flooded, damaging merchandise. Lowland sections of Glendale West Los Angeles, Culver City, Inglewood, and San Bernardino flooded. 3 automobiles caught by flood waters in dip near Saugus washed downstream. Section of roadway collapsed at Redom Beach, causing parked car to plunge 20 feet downstream. Section of roadway collapsed at Redom Beach, causing parked car to plunge 20 feet downstream. Section of roadway collapsed at Redom Beach, causing parked car to plunge 20 feet downstream at Lake Arrowhead, and mud and rock slides clomany mountain roads. Locally strong winds bleved own few trees and branches, with scattered power failures over area.
IDAHO Canyon and Ada Counties	16	Evening							Wind	Powerlines damaged in vicinity of Parma. At Star, trees uprooted, several roofs damaged, and large signs blown down. Power off 3-1/2 hours.
OREGON Northwestern portion	16-17	Late af- ternoon 16th - early morning 17th	125- 150	*80			5	2	Wind	High winds reaching gusts of 60 m.p.h., at Corvallis, 58 m.p.h., at Salem, 55 m.p.h., at Eugene, and 52 m.p.h., at Portland caused wide spread power and to lesser extent telephone service outages over northwest. Large number trees felled, some across buildings, power-an telephone lines, highways, and, in a few cases parked cars. Storm moved eastward.
MASHINGTON Entire State	16-17						4		Wind and rain	High wind and rain over entire State. Several residences damaged by falling trees. Power an communication outages occurred in various localities of State.
	17									Minor storm reported at Ozark, Mo.
CALIFORNIA Northern and central portions	17~18						3		Wind and rain	Unusually vigorous cold front moving across northern and central portions caused brief, but torrential rains, and violent gusts of wind in some areas. Minor damage from gusty winds reported in Sacramento Valley. At Vallejo, winds broke branches from trees, blew down or bent television antennas, and ripped shingles from roofs. Flash flood poured over lawns in 1 section of town and flooded some basements. At San Francisco Airport, 0.62 inch of rain in 1 hour. Overflowing storm drain flooded motel in Millbrae, and mud slides damaged homes and lawns in Belmont. At Seacliff, in Santa Cruz County, freak gust of wind tore roof from home carrying it intact for approximately 400 feet, broke several windows, and knocked down trees and utility lines. In Watsonville, garage demolished by wind, and 2 trees blown down.
MISSOURI Hannibal, Marion County	18	12:20- 1:40 p.m							Wind, hail, and elec- trical	Wind at Hannibal estimated at 55 to 60 m.p.h. Mother, lightning, and hail. Telephone-and powerlines downed. Storm moved northeastward.

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Place	Date	Time	Length of miles	of	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
MISSOURI Truxton, Lincoln County	18	12:30 p.m.	1/4	100	0	1	4		Tornado	Tornado moved northeastward.
MISSOURI Farmington Francois County	18	12:58- 3:24p.m.		100	0	0			Funnel aloft and hail	Ground covered by hail 1/2 to 3/4 inch in diameter. Funnel seen by CAA observer 2 to 3 miles east of Farmington. Storm moved northeastward.
MISSOURI Sulphur Springs, Jefferson County	18	1:04 p.m.			0	0			Tornado (sus- pected) and hail	Funnel cloud reported. Hail 1 inch in diameter
MISSOURI Fredericktown (15 miles north of), St. Francois County	18	2 p.m.			0	2	4		Tornado	Demolished buildings. Storm moved toward Libertyville. Possibly same storm that later hit McBride.
ILLINOIS Randolph and Perry Counties	18	2:30 p.m.	20		0		4		Tornado	Reported north of Chester at 2:30 p.m. Hit just north of Steeleville at 2:45 p.m., and moved east-northeastward to Jamestown and Conant. 10 or more homesteads damaged. May have been continuation of tornado which hit Farmington, Mo., at 1:50 p.m. This is first of 20 different tornado occurrences on this date in Illinois for worst late-season tornado situation ever recorded in State.
ILLINOIS Randolph and Perry Counties	18	3 p.m.	18		0	0	5		Tornado	Near Chester at 3 p.m. Continued east-northeast ward to Denmark and may have been observed over Pinckneyville at 3:35 p.m. Brick school wrecker and 2 dozen or more homes demolished at Willisville.
MISSOURI Malden (35 miles north- east of) Mississippi County	18	3 p.m.			0	0			Funnel aloft	
ILLINOIS Wood River, Madison County	18	3:20 p.m.	1		0	1	4		Tornado	Continuation of tornado of Florrissant, Mo. 9 buildings damaged on south side of Wood River. Tornado moved east-northeastward.
MISSOURI McBride and Altenburg, Perry County	18	3-3:20 p.m.			0	0	5		Tornado	School lifted off foundation. No children in- jured. Apparently 2 funnel clouds involved. 15 to 20 buildings damaged.
Mason City Mason County	18	3:35 p.m.	Short :	Narrow	0	1	4		Tornado	Tornado moved northeastward. Damage to 3 or 4 buildings not heavy. Funnel cloud reported. May have been same formation that produced tornado at Truxton, Mo., 2-1/2 hours earlier. Truxton is about 110 miles away from Mason City
LLINOIS Perry County	18	3:35 p.m.	2-3		0	1	5		Tornado	Occurred at junction of Highways 150 and 154. 6 houses heavily damaged at Cutler "Y". Car driving on highway thrown off road and demolished. Same tornado may have been observed north of Pinckneyville about 3:55 p.m. Tornado moved east-northeastward.
Boyd, Jeffer- son County	18	3:45 p.m.	5		0	2	4		Tornado	8 buildings heavily damaged at Boyd and near Kell. Tornado moved east-northeastward.
Mt. Vernon area, Jeffer- son County	18	3:55-4:10 p.m.	18	100-250	1	45	6		Tornado	First observed about 10 miles west-southwest of Mt. Vernon. Patrol cars followed movement and reports broadcast on local radio station. Destruction complete among prefabricated ranch homes on far southwest side. Path continued across near north side of town, with less severe damage to older residences in wooded and rolling land. Path continued intermittently some 8 miles to east-northeast of town.
LLINOIS Vandalia (southwest and south of), Fayette County	18	4 p.m.			0	0	1	1	Funnels aloft	1 or more funnels aloft reported by aircraft.
LLINOIS Ava, Jackson County	18	4 p.m.	5		0	0	4		Tornado	Damage to 3 or 4 homesteads. May have been same formation reported at McBride, Mo., about 3:20 p.m. Tornado moved east-northeastward.

See footnotes at end of table.

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Place	Date	Time	Length of miles	Width of p	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks	
ILLINOIS Rockwood (near), Ran- dolph County	18	4:15 p.m.			0	0	4		Tornado	Freight cars overturned and damage to buildings	
ILLINOIS Mt. Vernon, Jefferson County	18	4:30 p.m.	12	200	0	0	4		Tornado	Hit far north side of Mt. Vernon at 4:45 p.m., with light damage to residences. Path began 10 miles to west-southwest. 6 farmsteads damaged. Tornado moved east-northeastward.	
ILLINOIS Gorham-Murphys- boro, Jackson and Williamson Counties		4:35 p.m. 30 200- 11 200 6 Tornado		Tornado	About 40 houses destroyed in Gorham and 40 in Murphysboro. Man killed at Sand Ridge and 10 killed at Murphysboro. Funnel followed river bottom on southeast side, destroying older buildings. Gas, electric, and water utilities knocked out. Lack of water hampered fire fighting. City without electric power for 60 hours. Intermittent path continued east-north eastward, with damage near DeSoto, Hurst, Bush and at Plumfield. Tornado reported at Plumfield about 5:05 p.m. This tornado may have						
ILLINOIS Perry County	18	4:35 p.m.	5	200	1	0	5		Tornado	traveled at 60 m.p.h., but there is some doubt as to accuracy of time fixes.  Occurred at junction of highways 51 and 154.  Small crossroads settlement at Sunfield "Y" wiped out. Very heavy destruction in small area. Several survisors took cover in buildings. Man remaining in open killed. Tornado moved east-northeastward.	
MISSOURI Cape Girardeau County	18	4:45-4:55 p.m.	15	750	0	0	5		Tornado	Moved northeastward from Millersville to Qak Ridge to Highway 61.	
CLLINOIS Orchardville- Clay City, Wayne and Clay Counties	18	5 p.m.	20	100- 200	0	1	5		Tornado	Along 20-mile path from near Orchardville to south of Clay City some 20 farmsteads damaged wrecked. Path may have curved from east-north east toward northeast during movement. Damage heaviest near start of path, with path more intermittent later. Separate tornado may have occurred in same area 1/2-hour earlier.	
LLINOIS Carbondale, Jackson County	18	5:25 p.m.	1-2		0	5	4		Tornado	Tornado struck trailer camp 1 or 2 miles south of Carbondale, destroying 15 trailer homes and damaging 3 houses.	
LLINOIS Boos-Ste. Marie, Jasper County	18	5:25 p.m.	6		0		4		Tornado	Damage to 3 or 4 farmsteads in small area betwee Boos and Ste. Marie. Tornado moved northeastw	
LLINOIS Dahlgren, Hamilton County	18	5:35 p.m.	2-3	150	0	3	5		Tornado	Heavy damage to several buildings on southeast side of village. May have been same tornado formation that struck Sunfield "Y"   hour earlier (32 miles to west-southwest). Tornado moved east-northeastward.	
IISSOURI Chaffee, Scott County	18	5:35 p.m.			3	1	6		Tornado	Storm hit in downtown Chaffee, damaging many business houses and shoe factory.	
NDIANA Rockville (20 miles east of), Parke County	18	5:45 p.m.			0	0	1	1	Funnel aloft	Air Force Radar Station near Rockville observed on radar what appeared to be funnel cloud. No damage or other visual contact reported. Funn moved northeastward.	
LLINOIS White and Edwards Counties	18	6 р.ш.	20		0		5		Tornado	Fairly heavy damage from southwest of Springert to northwest of Grayville with some 20 farmste affected. Tornado moved east-northeastward.	
LLINOIS Forman, John- son County	18	6 p.m.	Short		0		4		Tornado	Church destroyed and damage to school and 2 far Unconfirmed report of 2 successive tornadoes in small area. May have been same formation which struck Chaffee, Mo., at 5:15 p.m.; Chaffee is 40 miles to west-southwest.	
LLINOIS Sidell, Ver- milion County	18	6:40 p.m.	•	60	0	0	4		Tornado	Tornado moved northeastward just to northwest o village. Not a strong tornado but there were reports of "roaring" sound.	
CENTUCKY Owensboro (8 miles west of), Daviess County	18	8:05 p.m.			0	0			Funnel aloft	Pilot reported funnel cloud 1,000 feet above surface, moving south-southeastward.	
WASHINGTON Eastern portion and lower Yakima Valley	18						4		Wind and rain	Wind speeds ranging from to 50 to 70 m.p.h., reported in Kennewick and Pasco areas. A few residences damaged by falling trees. Numerous power outages occurred. Christmas decorations damaged.	

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Place	Date	7	ime	Length of p	Width of payards	Killed		Injured	Property exclusive of crops)	Crops	of storm	Remarks
	18											Minor storms also reported at Belleville, Ill.; at Clinton and Keokuk, Iowa; at Columbia and Florissant and near Advance, Mo.; and in north- ern Utah.
OREGON Western portion	18-22			400	*12:	5			4	2	Rain	Heavy rains on 18th to 21st, preceded by several days of intermittent rain earlier in December, resulted in flooding of lowlands along some western tributary streams; local flooding in poorly drained sections in some towns where heavy rainfall exceeded capacity of sewer systems and a number of slides closed roads mostly in coastal range. Damage mostly consisted of erosion to flooded farmland, washing out of a few private bridges and sections of dykes, and highway damage from slides. Timely Bureau warning permitted all necessary evacuation of livestock, persons, and movable property. Storm moved eastward.
TENNESSEE Dotsonville Community,	19	10	:30 a.m.					1		1	Electrical	Lightning tore light meter from house, knocked kitchen cabinet several feet, smashed outside telephone box, ripped down gutters, ruined refrigerator, and damaged roof. Woman received
Montgomery County												slight shock.
ARKANSAS Waldo to Stephens, Co- lumbia and Ouachita	19	12	2:44 p.m	. 15			2	9	4	1	Tornado	Principal damage in Cotton Belt community, between Waldo and McNeil, Columbia County. 5 homes destroyed and 5 damaged. 3 other buildings destroyed, 2 persons killed and 9 injured. Tornado moved northeastward.
Counties TEXAS Dallas, Tarrant County	19	A	fternooi	n					4	1	Wind and dus	st Strong, gusty winds (fastest mile 47 with gusts to 50 m.p.h.) blew down marquee roof onto 3 cars. Accompanying dust cut visibility at Dallas to 1/2-mile between 2:40 and 4:45 p.m. Storm moved eastward.
ARKANSAS Sherrill and Tucker Prison Farm, Jeffer-		3	:40 p.m		5 3	.00	0	0	4	1	Tornado	Damage to 2 farms near Sherrill and on Tucker State Prison Farm. Tornado moved northeastward.
missouri Golden City area, Dade County	19	9 4	:10-4:1 p.m.	5 1	5	100	0	O	4		Tornado	Funnel first touched ground 2-1/2 miles south and 1 mile east of Golden City, damaging several farm buildings. Tornado then moved northeastward, lifting and dipping back to ground several times. Buildings on 5 farms damaged. Witnesses report seeing several funnels.
ILLINOIS Waltonville Jefferson County	1	9	5:50 р.п	а.	1	65	0	(	4		Tornado	Storm moved northeastward through southwest side of village. Heavy damage to 1 farmstead. Other buildings had lighter damage. Wind damage at Elkville and Royalton at about the same time may have been associated with tornadoes.
ILLINOIS Pankeyville		19	9 p.m.	1/	2	100	0		0 4		Tornado	Storm moved northeastward, causing damage to barn and other buildings.
Saline County TENNESSEE Humboldt, Gibson County	1	19	9:15 p.	m .			0		0	1	Tornado (su pected)	warehouse demolished, most of roof from hotel and part of City Hall roof blown off. Cotton gin severely damaged, building moved and twisted, several houses and business establishments damaged by flying debris, and many powerlines, tree limbs, and TV antennas blown down. Many residents reported noise similar to that of fast train. \$15,000 damage done to hotel alone.
TENNESSEE Milan, Gibso County		19	9:20 p.	.m .			0	)	2 4	1	Tornado (s	Concrete-block garage destroyed, roof of which severely damaged nearby brick house; several other houses suffered roof, window, or antenna damage. 2 persons received minor injuries from flying debris. (Possibly continuation of Humboldt storm).
ALABAMA Littleville, Colbert Cour		19	11:15 p	.m. <b>S</b> 2	ort Na	rrow	(	0	7 4	1	Tornado	
TENNESSEE Sitka Commun ty, Gibson		19	P.m.					0	0	1	Tornado (s	ation of Humboldt-Milan Storm).
TENNESSEE Chester		19	P.m.							1	Wind	Many roofs ripped off, trees blown down, power- lines torn down, and several outbuildings dam- aged.
TENNESSEE Henderson County		19	P.m.								Wind and electric	Roof blown from Post Office at Darden. Elsewhere power transmission pole snapped and transformers damaged by lightning.

			path,	path,		nber rsons	by cates				
Place	Date	Time	h of	to	71	TO	Property	0	Character of storm	Remarks	
			Lengt	Width	Killed	Injured	(exclusive of crops)	Ctops			
ENNESSEE Jackson (near), Madison County	19	P.m.						1	Wind	2 farm buildings destroyed; considerable damag to 2 houses and a barn.	
LABAMA Winfield (4 miles south of), Fayette County	19	Late evening	Short	Narrow	0	0	3	1	Tornado	1 home and outbuildings destroyed.	
	19									Minor storms also reported at Batesville, Ark near Brookhaven, Miss.; at Aurora, Knobnoster and Sweet Springs, Mo.; at Altus and Gage and near Erick, Okla.; and at Somerville, Tenn.	
OWA Entire State	19-31				1	12	4	1	Snow and ice	Numerous automobile accidents; pedestrians slipped and fell; I farmer killed when shotged discharged as he slipped and fell on ice.	
LABAMA Clanton, Chilton County	20	2:30 a.m.	Short	Narrow	0	0	5	1	Tornado	Cotton mill and 35 homes heavily damaged. To nado moved northeastward.	
LABAMA Castleberry (8 miles east of), Conecuh County	20	За.в.	3/4	35	0	0	3	1	Tornado	Hit twice with blows about 1/2 mile apart. 2 houses and barn destroyed. Tornado moved nor eastward.	
ENNSYLVANIA Eastern portion	20	Day - night				3	5		Rain	Hardest hit was Pocono Mountain area where 4 to 5 inches of rain fell in 15 hours. Most dama caused by flooding. Sections of roads washed away as well as temporary bridge and dam under construction. 3 persons injured in automobil accident on rain-swept highway. Storm moved northeastward.	
EW YORK Penfield, Monroe County	20	8-9 p.m.		208.00			4	1	Wind	Wind associated with squall line tore roof of henhouse and blew parts of it into house. Do age to henhouse estimated at \$20,000 and \$3 to thousand to home.	
EW JERSEY Central and northern portions	20						4		Wind	Damage to roofs, trees, and utility lines in several non-adjacent communities.	
DRTH CAROLINA East of mountains	20						4		Wind	Strong winds in connection with squall line as cold front caused widespread minor damage. aircraft turned over, tree blown down on automobile, numerous signs blown down, and minor structural damage.	
	20									Minor storm also reported in Decatur area, Ala	
Intire State	20-21	Late p.m. 20th- early a.m. 21st			4	2			Rain	Restricted visibility and slippery highways caused by heavy downpours blamed for 4 highwadeaths in Bridgeport and New London areas. Precipitation of 1.50 to 2.50 inches and heaviest early on 21st was accompanied by recwarm temperatures.	
ake of the sles (In St. awrence river	20 even- ing - 21 a.m.				0	0		1	Wind or tor- nado (sus- pected)	Strong windstorm threw boats and trees around. Area isolated and no one present at time. La in weekend damage discovered by a person goin in to check on some boats. Residents reporte "roaring wind" Friday evening, but no damage other neighboring sections. Due to lateness report, lack of qualified meteorologists in area, and isolated character of area, no checing done, but there is evidence of tornadic activity.	
INE, MASSA- USETTS, NEW MPSHIRE, and RMONT	20-21	Night					4	1	Rain and wind	Rain caused road washouts and water damage to property, especially in Springfield-Holyoke-Chicopee, Mass., where phone service cut off also by flooded cables. Minor tree and limb damage by wind through entire section with so power outages resulting. High voltage line a St. Johnsbury, Vt., became crossed with home circuits with \$5,000 loss to appliances.	
w JERSEY entral and orthern ortions	20-21						5		Rain	Damage from flooding.	
W YORK ong Beach assau County	21	12:01 a.m.					5	1	Wind	Wind ripped off roof section of 3-family apart- ment house and threw it into unoccupied bunga- low	
SHINGTON orthwestern ortion	22						4		Wind and rain	Numerous power and communication outages oc- curred in northern Puget Sound area. 1 pleasu boat sank near Anacortes. Several other small	

			path,	ath,		mber rsons	Estimated by cates			
Place	Date	Time	Length of path,	Width of path	Killed	Injured	Property (exclusive of crops)	Сторя	Character of storm	Remarks
(Cont'd.)										boats damaged after breaking loose from their mooring and were pounded on rocks by high wind and waves.
FLORIDA Broward, Palm Beach, Hendry, and Glades Counties	23-24								Rains	2-day rainfall totals in 4-county area ranged from 3 to 8 inches generally with scattered amounts as high as 11 inches caused considerable local flooding and crop damage in truck cropproducing areas. Flooding rains, coming about 2 weeks after disasterous freeze of December 12-13, were especially disheartening to agriculture as they severely damaged portion of crops that survived freeze as well as many fields that had been planted after freeze. Total damages not estimated, but thought to have been considerable.
LORIDA Tarpon Springs, Pinellas County		8 a.m.				1			Wind or tor- nado (sus- pected)	Several house trailers overturned in trailer park, but overall damages minor. Storm moved northeastward.
REGON Western and northern portions	25	Late af- ternoon- evening					5	2	Wind	High winds, which reached 69 m.p.h., in gusts at Pendleton experienced along full length of western Oregon and along northern border inland to Blue Mountains, blew down or broke large
										branches off a great number of trees which caused widespread service interruptions and considerable damage to power installations and to lesser extent to telephone lines. Thousands of power service customers without service for periods ranging from a few minutes to several hours. Severe damage to roofs of homes and other buildings, and breaking of plate-glass store windows reported from several widely scattered areas. Total of 31 ewes killed when sheds in which they were sheltered collapsed under force of wind. Farm machinery and other property also damaged as several outbuildings in storm areas gave way. Storm moved eastward.
ASHINGTON Entire State	25						5		Wind and rain	Wind speeds ranging from 50 to 70 m.p.h., caused large number of power and communication outages. Windows broken in few localities and automobiles and residences damaged by falling trees. Heavy rainfall in some localities of western Washington. Highway traffic slowed or delayed. Rail traffic delayed near Tacoma by mudslide. Television service interrupted in southeastern Washington when micro-wave tower damaged by high wind.
ONNECTICUT and HODE ISLAND	26	A.m late p.m.			1	6	•	1	Rain and wind	Intense storm with winds to 60 m.p.h., and precipitation of 1 to 2 inches caused moderate but widespread and varied damage throughout both States. Extensive power and telephone disruption as numerous trees blown on wires and, in one instance, blown onto automobile, injuring 2 persons. Over a dozen large store windows smashed in several cities, with damage in one instance set at \$2,000. Small aircraft blown over at Hartford, church roof damaged at Meriden, and Christmas decorations downed by wind in many communities. Tides 2 to 3 feet above normal at storm height, with flooding of shoreline roads. Large rivers inland near bankfull and minor flooding occurred on small streams. Storm had beneficial aspect in that precipitation greatly replenished long deficient water supplies in reservoirs of both States.
AINE, MASSA- HUSETTS, NEW AMPSHIRE, and ERMONT	26	Evening			2	3	5	1	Wind and rain	Winds damaged outdoor Christmas decorations, felled trees, limbs, and wires, broke plateglass windows, toppled a few chimneys and destroyed some buildings. Greatest loss \$40,000 at Belgrade, Maine when powerwires blew onto farmstead, destroying it by fire. Home at Lewiston, Maine, damaged by fallen tree. 20x175 foot wall toppled at Everett, Mass. Barn blown apart at Bellingham, and large shed at Adams, Mass. Man electrocuted at West Newbury, Mass., by fallen wire. 3 construction workers injured at South Braintree by girder blown down. Heavy rains caused some washouts in central Massachusetts and flooded cellars and buildings in low areas of several Massachusetts communities. Man struck and killed by automobile in Portland, Maine, during blinding rain. Loss estimates include \$60,000 for Maine, \$50,000 for Massachusetts, \$3,000 for New Hampshire, and \$1,000 for Vermont.

			of path,	ath,		nber	Estimated by categ			
Place	Date	Time	Length of principles	Width of path,	Killed	Injured	Property (exclusive of crops)	Crops	Character of storm	Remarks
NEW JERSEY Central and northern portions	26 26-27 27						4		Rain	Minor storms also reported in northern Utah and Wyoming.  Damage from flooding.  Minor storm reported at Pauls Valley, Okla.
DELAYED REPORT November 1957 KANSAS Lyon County	17	8 p.m.							Wind	Gusts of wind up to 54 m.p.h., recorded at Emporia CAA office. Streets littered with fallen trees and branches. Numerous interruptions of electrical and communication line resulted. Storm moved southeastward.

<sup>\*</sup> Miles instead of yards.

<sup>\*</sup> Includes crop damage.

C Crop damage.

Storm damages are placed in categories varying from 1 to 9 as follows:

1 Less than \$50

2 \$50 to \$500

3 \$500 to \$5,000

4 \$5,000 to \$50,000

5 \$50,000 to \$50,000

6 \$500,000 to \$500,000

7 \$5,000,000 to \$50,000,000

8 \$50,000,000 to \$50,000,000

9 \$500,000,000 to \$50,000,000

9 \$500,000,000 to \$50,000,000

# ANNUAL SUMMARY

TORNADO DATA

POTOLOCUL-1

						Num	her	Estima ted	damage		
			aou	miles	yards	of per		by catego	ries †		
State and date	Hour	County	Direction of advance	Length of path, 1	f path,	Killed	Injured	Property (exclusive of crops)	Crops	Remarks	
ARIZONA Apr. 29	2:15 p.m.	Apache	NE	2-1/2	105	. 0	0	(a)	1	4 miles northeast of Dinnehotso, cedar trees uprooted on Indian Reservation, no other damage.	
. Aug. 4	6 p.m.	Maricopa	w	12	(a)	0	0	3	1	Possible tornado near Sentinel damaged service station.	
. Aug. 18	5:45 p.m.	Coconino	(a)	(a)	(a)	0	0	1	1	Possible tornado moved over open country east of Flagstaff.	
Aug. 20	Afternoon	Yavapai	(a)	(a)	(a)	0	0	1	1	Pilot reported funnel cloud reaching ground 40 miles northwest of Prescott.	
Aug. 29	2:30 p.m.	Maricopa	N	(a)	800	0	0	4	1	Filling station unroofed and house damaged at Sentinel.	
ARKANSAS										. W. J. Brand Value and	
Jan. 22	6:45 a.m.	Johnson	ENE	14	(a)	0	0	(e)	1	In Hunt, Horse Head Lake, and Harmony areas, several homes and buildings damaged.	
. <b>J</b> an. 22	9 a.m.	Hot Spring	NE	4	880	0	0	4	1	2 miles southeast of Bismarck, 2 homes destroyed, 8 damaged; 11 other buildings destroyed, and 10 damaged.	
. Jan. 22	11:30 a.m	.Craighead	(a)	(a)	(a)	0	0	(e)	1	Several barns destroyed, houses an other buildings damaged, and grain elevator damaged in Crossroads community.	
. Jan. 22	1:15 p.m.	Ashley	NE	4	(c)	0	0	4	1	4 miles west of Crossett, house an outbuildings damaged; 300,000 boa feet of standing timber and 700 cords of pulp timber damaged.	
. Apr. 3	12:05 p.m	1.Greene	NE	(b)	(c)	0	0	2	1	Funnel cloud touched ground briefl destroying garage in Alexander co munity.	
. Apr. 3	12:05 p.m	.Craighead	NE	20	100	0	0	4	1	Funnel observed by several persons Several buildings destroyed and rice dryer damaged at Cash.	
, Apr. 3	12:30 p.s	n.Craighead	(a)	(a)	(a)	0	0	2	1	Near Manila, 2 houses damaged; fur cloud observed.	
. Apr. 4	5:30 p.m	. Lonoke	NE	400	20	0	0	3	1	Occurred 10 miles south of Carlis Damaged limited to 20 acres.	
. Apr7	11:05 p.s	s.Scott	NE	4	300	0	0	3	1	3 barns and several roofs damaged Elm Park area, north of Waldron.	
0. Apr. 23	4 a.m.	Роре	NE	1/4	100	0	0	2	1	Damage limited to a 1-block area Russellville. Funnel observed a for 10 minutes after lifting.	
1. Apr. 25	Midnight	Craighead	NE	1/2	300	0	0	4	1	Tornado at Jonesboro touched grou in 2 places; building lifted 40 into air.	
2. May 11	11 a.m.	Logan	NE	(a)	(a)	0	0	(d)	1	Funnel observed to touch ground I mile southeast of Prairie View a again 1/4 mile northeast of town Several buildings damaged.	
3. May 13	10:20 a.	m.Little River	NE	1	75	0	1	(e)	(d)	At Ashdown, I house destroyed and cotton compress and other buildidamaged.	
4. May 13	10:35 a.	m. Howard	NE	2	200	0	1	4		B Property damage in Mineral Spring and in Unity and Blackland commu- ties.	
15. May 13	11:20 a.	m.Pike	SE	(a)	50	0	0	4		6 houses destroyed and 9 building damaged at Delight.	
6. May 13	11:45 a. -12:25p	m.Hot Spring	NE	15	880	0	0	5		From Friendship to Malvern storm skipped along path, touching gr in several places. Principal da age to brick plant in Malvern.	
17. May 13	12:50-2 p.m.	Faulkner	NE	19	50-75	1	18	5		1 Storm first struck 1-1/4 miles s west of Conway and followed nar- path to Guy. Principal damage, death and injuries, in Conway.	

See reference notes at end of table.

			nce	miles	yards		nber	Estimated by categ			
State and date	Hour	County	Direction of advance	Length of path, m	Width of path, yas	Killed	Injured	Property (exclusive of crops)	Crops	Remarks	
ARKANSAS (Cont'd	2 p.m.	Izard	NE	2	400	0	,				
19. May 23	4:30-5 p.m		N	6	880	0	0	4		To south and west of Oxford.  From McNeil to College Hill Church, garages and small buildings destroyed and roofs damaged.	
20. May 23	5:30 p.m.	Howard	NE	1/2	440	0	0	(d)	1	Damage confined to city of Dierks.	
21. May 23	7:20 p.m.	Drew	NE	6	25	0	0	5	4	Tornado moved from 3 miles south- west of Monticello to 3 miles northeast. Extensive property damage. Crop damage included peaches and tomatoes.	
22. May 25 23. May 25	6 a.m.	Garland Garland	N N	(a) (a)	(a) (a)	0	0	(a)	(d)	2 funnels observed; only scattered light damage.	
24. June 13	6:25 p.m.	Faulkner #	NE	1	25	0	0	3	1	Buildings damaged at Damascus. Several persons observed funnel at rear edge of rain cloud.	
25. June 13	6:30 p.m.	Faulkner	(a)	(a)	(a)	0	0	(e)	1	Occurred from Pinnacle Springs Road to southeast of Guy. House and barn damaged. Funnel observed.	
26. Dec. 19	12:44 p.m	.Columbia and Ouachita	NE	15	(a)	2	9	4	1	Principal damage in the Cotton Belt community between Waldo and McNeil in Columbia County. 5 homes de- stroyed, 5 damaged, 3 other build- ings destroyed.	
27. Dec. 19	3:40 p.m.	Jefferson	NE	5	100	0	0	4	1	Damage to 2 farms near Sherrill and at Tucker State Prison Farm.	
CALIFORNIA  1. Jan. 29	2:10 p.m.	San Diego	(a)	(a)	(a)	0	0	1	1	Waterspout observed northwest of San Diego Airport,	
2. May 19	8:18 a.m.	Fresno	ENE	200	(c)	0	0	(d)	(d)	Very small tornado, but observed by reliable witnesses.	
3. Oct. 21 4. Oct. 21 COLORADO		San Diego San Diego	(a) (a)	(a) (a)	(a) (a)	0	0	1	1	2 waterspouts observed offshore near Oceanside by airline pilot.	
1. Apr. 21	Night	Washington	(a)	(a)	(a)	0	0	(e)	1	Tornado upset cattle shed 60x16 feet on farm 11 miles northeast of Akron Several large trees uprooted.	
2. Apr. 22	11 a.m.	Kit Carson	NE	(a)	(a)	0	0	(e)	1	Considerable damage to farm building near Burlington.	
3. May 20	Afternoon	Kit Carson	(a)	(a)	(a)	0	0	1	1	Observed 6 miles southeast of Burlington, moved into Kansas.	
4. May 24 5. May 24	Afternoon Afternoon		(a) (a)	(a) (a)	(a) (a)	0	0	(d)	1	Several small tornadoes north of Greeley reached ground, damaging buildings.	
6. May 24	Afternoon	Otero	(a)	(a)	(a)	0	0	(d)	1	Small tornado 5 miles northwest of La Junta picked up building and set it down in field.	
7. May 24	Afternoon	Kit Carson	(a)	(a)	(a)	0	0	(d)	1	Demolished brooder house on farm 9 miles north of Burlington.	
8. May 29	Afternoon	Larimer	(a)	(a)	(a)	0	0	2	1	Damage to farm building 10 miles north of Ft. Collins.	
9. May 29 10. May 29	Afternoon Afternoon		(a) (a)	(a) (a)	(a) (a)	0	0	1	1	2 tornadoes observed, 1 southwest of Greeley, the other west of Nunn.	
11. May 30	Afternoon	Weld	(a)	(a)	(a)	0	0	3	1	Most damage at Windsor to school and farm buildings.	
12. May 30 13. May 30		Washington Washington	(a) (a)	(a) (a)	(a) (a)	0	0	1	1	Small tornadoes sighted near Akron and Otis.	
14. May 30	Afternoon	Larimer	(a)	(a)	(a)	0	0	1	1	Small tornado sighted in vicinity of Loveland.	
15. June 11	Afternoon	Bent	E	(a)	(a)	0	0	(d)	1	Near Ft. Lyon, corral blown down and 2 trees uprooted.	
16. June 21	1:15 a.m.	Yuma	(a)	(a)	(a)	0	0	3	1	Buildings on 2 farms damaged in Wages area.	

			nce	miles	yards	Num of pe		Estimated by categ			
State and date	Hour	County	County	tion of advance	of path,	path,	77	P	operty sclusive crops)	90	Remarks
					Direction	Length	Width of	Killed	Injured	Property (exclusive of crops)	Crops
COLORADO Cont'd.										1 1	
17. June 22-23	P.ma.m.	Baca	(a)	(a)	(a)	0	0	2	1	Struck ranch southwest of Campo, demolishing barn and chickenhouse.	
18. June 30 19. June 30	Afternoon Afternoon		(a) (a)	(a) (a)	(a) (a)	0	0	(e)	1	2 tornadoes, 1 north of First View destroyed barn, the other 16 miles southeast of Cheyenne Wells destroyed barn and caused other minor damage.	
20. June 30	Afternoon	Kit Carson	(a)	(a)	(a)	0	0	(a)	1	Tore limbs off trees, upset hay- racks and other farm implements near Stratton.	
21. June 30	Afternoon	Yuma	(a)	(a)	(a)	0	0	2	1	At Eckley, barn demolished, house damaged, windmill blown down, and trees uprooted.	
22. July 3	4:40 p.m.	Rio Blanco	(a)	(a)	(a)	0	0	2	1	High school at Meeker damaged.	
23. July 30	Afternoon	Yuma	E	(a)	(a)	0	0	(e)	1	Tore down buildings, windmills, and I house south of Yuma.	
24. Aug. 5	4 p.m.	El Paso	(a)	(a)	(a)	0	0	(e)	1	Twister took part of roof off lumber company building and blew stacked lumber about.	
CONNECTICUT											
1. June 19 DELAWARE	1:30 p.m.	Hartford	NNE	1/4	400	0	0	4	5	Tornado struck shade-tobacco area about 1 mile east of Glastonbury 70 acres of tobacco destroyed. Tepoles, 6-inches in diameter, twied off at ground level and tent cloth ripped beyond repair. 5 hutrees blown over at different angles and 2 pine trees sheared 15 feet above ground. 2 curing barns blown in, but not unroofed Driver of loaded bus facing wind claimed it was forced back 5 fee with brakes on and in low gear. Large wagon driven and several 5 gallon drums blown into side of third curing barn, but structura damage to barn slight.	
1. July 5	5 p.m.	Sussex	(a)	(a)	(a)	Q	0	3	1	At Fenwick Island Beach, small to nado picked up jeep, carried it feet; took small house off found tion; lifted small boat out of water and carried it about 200 f against telephone pole.	
2. Sept. 10	3:20 p.m.	Sussex	NE	(a)	(a)	0	0	(e)	1	At Bridgeville, large chickenhous hurled 50 feet into tree; cut sw of destruction through woodlands	
FLORIDA 1. Feb. 25	Morning	Recambia	NE	(a)	(a)	0	1	(d)	1	Demolished drive-in theater scree	
1. Feb. 25	Morning	Escambia	NE	(a)	(a)	U	1	(a)	1	and upset several house trailers	
2. Mar. 4	12:30 p.m	.Polk	NE	(b)	20	0	0	(a)	1	Cloud touched ground in uninhabitarea at Lakeland. Funnel cloud observed.	
3. Apr. 19	Моов	Highlands	(a)	(a)	(a)	0	0	1	1	Waterspout over Lake Jackson dis- sipated before inflicking any da age.	
4. May 5	Afternoon	Broward	(a)	(a)	(a)	0	0	(a)	1	Waterspout off Pompano Beach.	
5. May 13	1:15 p.m.	Hendry	(a)	(a)	(a)	0	0	(d)	(d)	At Clewiston, funnel cloud toucher ground briefly, damaging several buildings.	
5. May 16	4:45 p.m.	Polk	*	6	150	0	0	3	1	Tornado at Auburndale.	
7. May 29	Afternoon	Lee	(a)	(a)	(a)	0	0	(a)	1	Waterspout seen off Captiva.*	
3. May 30	Afternoon	Palm Beach	(a)	(a)	(a)	0	0	(a)	1	Waterspout near Boynton Inlet.	
9. June 5	7:40 a.m.	Dade	(a)	(a)	(a)	0	0	(a)	1	Waterspout observed at Miami.	

		Hour County	nnce	miles	Width of path, yards	Num of per		Estimated by cate		
State and date	State and date Hour		Direction of advance	Length of path, 1		Killed	Injured	Property (exclusive of crops)	Crops	Remarks
FLORIDA (Cont'd)										
10. June 8	3 p.m.	Alachua	NW	(b)	(a)	0	0	3	1	Tornado near Newberry unroofed 1 house, blew down 2 tobacco barns, and uprooted several trees.
11. June 8	3 p.m.	Marion	NW	(b)	50	0	0	3	1	Tornado 20 miles east of Ocala in timberland unroofed 1 house.
12. June 8	3-4 p.m.	Clay	NW	(b)	25	0	0	4	1	Tornado near Orange Park and Doctors Inlet demolished several houses and blew down numerous trees.
13. June 8	3-4 p.m.	Putnam	(a)	(a)	(a)	0	0	(d)	1	Tornado near Georgetown affected rural area only.
14. June 8	4-5 p.m.	Duval	NW	(b)	(a)	0	0	4	1	Tornado in East Springfield section of Jacksonville demolished paint shop and unroofed church.
15. June 8	5:15 p.m.	Duval	NW	(b)	(a)	0	0	4	1	Tornado affected Jacksonville Naval Air Station.
16. July 2	6:30 p.m.	Duval	SE	(a)	(a)	0	0	(a)	1	Suspected tornado at Jacksonville.
17. July 9	2:15 p.m.	Duva1	(a)	(a)	20	0	0	(d)	1	Tornado cloud briefly touched ground at Jacksonville.
18. July 15	8 p.m.	Dade	(a)	(a)	(a)	0	0	(a)	1	Suspected tornado at Miami.
19. July 17	5:50 a.m.	Monroe	(a)	(a)	(a)	0	0	(4)	1	Waterspout near Key West moved ashore.
0. July 18	9:28 a.m.	Pinellas	(a)	(a)	(a)	0	0	(a)	1	Waterspout observed at St. Peters- burg.
21. July 24	Afternoon	Palm Beach	(a)	(a)	(a)	0	0	(a)	1	Waterspout observed at Palm Beach.
22. July 25	4 p.m.	Monroe	(a)	(a)	(a)	0	0	(a)	1	Waterspout near Key West.
23. July 29 24. July 29 25. July 29 26. July 29	Noon Noon Noon	Dade Dade Dade Dade	(a) (a) (a) (a)	(a) (a) (a) (a)	(a) (a) (a) (a)	0	0	(a)	1	4 waterspouts seen east of Miami.
27. July 30	Early afternoo	Volusia	NE	(a)	(a)	0	0	(a)	1	Waterspout along Halifax River near Daytona Beach.
28. Aug. 6	3 p.m.	Palm Beach	(a)	(a)	(a)	0	0	(a)	1	Waterspout observed at Palm Beach.
29. Aug. 7 10. Aug. 7	5-6 p.m. 5-6 p.m.		(a) (a)	(a) (a)	(a) (a)	0	0	(a)	(a)	Waterspouts reported near Mayport.
31. Aug. 19	Noon	Lee	(a)	(a)	(a)	0	0	(a)	1	Waterspout near Ft. Myers.
32. Aug. 23	5 p.m.	Pinellas	(a)	(a)	(a)	o	0	(a)	(a)	Waterspout at Pass-a-Grille.
33. Aug. 24	10:30 a.m	.Monroe	(a)	(a)	(a)	0	0	(a)	1	Waterspout near Tavernier.
34. Aug. 29	11 a.m.	Volusia	(a)	(a)	(a)	0	0	1	1	Waterspout off Daytona Beach, dis- sipated at sea.
35. Sept. 5	Afternoon	Вау	(a)	(a)	(a)	0	0	(a)	1	Waterspout off Panama City.
36. Sept. 9	6 p.m.	Duval	(a)	(a)	(a)	0	0	(a)	(a)	Waterspout at Jacksonville.
37. Sept. 19	11:45 a.m	.Pasco	(a)	(a)	(a)	0	0	(a)	1	Waterspout off New Port Richey touched water.
88. Sept. 30	1:45 p.m.	Taylor	NW	(a)	(a)	0	0	(d)	1	Waterspout off Keatons Beach moved ashore, damaging several buildings
39. Oct. 8 10. Oct. 8 11. Oct. 8	12:30 p.m 12:30 p.m 12:30 p.m	.Dade	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	0	0	3	1	Tornado and several waterspouts sighted in and around Dade County. Tornado at Tamiami Airport,
12. Oct. 20	(a)	St. Lucie	(a)	(a)	(a)	0	0	(a)	1	Waterspout observed at Fort Pierce.
13. Nov. 14	8:30 a.m.	Gadsden	(a)	(a)	(a)	0	0	3	1	Suspected tornado near Quincy.
14. Nov. 25 15. Nov. 25 16. Nov. 25 17. Nov. 25	5 p.m. 5 p.m. 5 p.m. 5 p.m.	Monroe Monroe Monroe	(a) (a) (a) (a)	(a) (a) (a) (a)	(a) (a) (a) (a)	0	0	(a)	1	4 waterspouts sighted near Alligato Reef.
48. Dec. 11	11 a.m.	Hillsborough	(a)	(a)	(a)	0	0	(a)	1	Unroofed several chickenhouses near
19. Dec. 11	Afternoon		(a	(a)	(a)	0	0	(a)	1	Limona. Waterspout sighted off Captiva.

			8	les	ds	Num of per		Estimated by catego		
State and date Hour County	Direction of advance	Length of path, miles	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks		
GEORGIA	3 a.m.	Lamar	E	(b)	(c)	0	0	(e)	1	In Barnesville and Antioch com- munity. Several barns destroyed and many porches and roofs dam- aged. Trees blown down and utility lines damaged.
. Apr. 5	4-5;30 a.r	nSchley to Wilkinson	NE	80	200-800	2	3	5	(d)	Storm moved alternately along ground and through air through Schley, Macon, Peach, Houston, Twiggs, and Wilkinson Counties. Heaviest damage in Schley County where storm moved along surface 15 miles, killing 2 children and injuring 3 persons. Many buildings destroyed or damaged.
3. Apr. 5	6:15-7:15 a.m.	Warren to Columbia	NE-E	30	200-800	0	2	4	1	Storm first observed near Warrenton Warren County, moved through Mc-Duffie County near Thomson, and then apparently separated into 2 tornadoes, I moving northeastward and the other eastward through Columbia County. Many buildings destroyed or damaged, trees uprooted, and utility lines downed.
4. Apr. 5	8:30 a.m.	Colquitt and	ENE	10	200	0	0	3	1	Damage to houses and barns near Moultrie, Colquitt County, and nea Lenox, Cook County. Funnel cloud reported by witnesses.
). Apr. 5	11 a.m.	Ware	E	(b)	(c)	0	1	3	1	l house destroyed and other buildi and trees damaged in Jamestown co munity, 6 miles north of Waycross
6. Apr. 5	11:34 a.m	.Chatham	(d)	500	(c)	0	0	(d)	1	Damage to roofs, small buildings, and trees near Savannah.
7. Apr. 8	2 p.m.	<b>G</b> ordon	NE	10	200	0	20	5	1	Storm first struck southwest of Calhoun, moved about 10 miles to within 2 miles of city. 70 buildings destroyed or damaged and 10 house trailers demolished. Funne observed by many persons.
8. Apr. 8	4-5 р.ш.	Tift, Irwin, and Coffee	SE	50	150-800	0	0	5	4	Storm moved 50 miles along ground and through air from near Chula, Tift County, through southern Irwin and Coffee Counties. Many homes, tobacco barns, and other buildings destroyed or damaged ne Harding, River Bend, Gladys, and Lax. Planing mill destroyed near Douglas, Coffee County.
9. Apr. 8	4:30 p.m.	Telfair	ESE	15	400	1	5	(e)	(d)	First struck in China Hill section hit again between Jacksonville an Lumber City. I man killed, anothe injured in truck trying to outrus storm. Truck whirled through air 100 yards. TV blown into well, wi out breaking picture tube.
10. Apr. 8	6:30 p.m.	Randolph	E	4	200	0	1	4	1	3 homes, 2 barns, church, and schodestroyed or damaged in Friendshi community.
11. May 3	8:05 p.m	Glynn	SE	1	50	0	1	4	1	10 buildings destroyed or damaged utility lines downed and trees up rooted. I person injured by flysglass.
12. June 5	3 p.m.	Colquitt	NE	2	200	0	0	3	1	Roofs damaged and trees blown dow Funnel cloud observed.
13. June 8	8:15 p.m	. Glynn	(a)	(b)	(c)	0	0	4	1	Suspected tornado destroyed admin tration building and damaged oth property on Jekyll Island.
14. June 13	P.m.	Tattoall	(a)	(p)	(c)	0	0	3	1	Roofs damaged and trees and utili lines downed by suspected small tornado at Collins.
15. Nov. 8	9-10 a.m	Early and Calhoun	NE	15	(a)	0	1	4	1	Storm moved from south of Blakely Early County, to near Leary, Calhoun County, causing damage a different places. 7 small houses a

			nce	miles	yards	Num of per		Estimate by cate	d damage gories †		
State and date	Hour	County	Direction of advance	Length of path, m	Width of path, ya	Killed	Injured	Property (exclusive of crops)	Crops	Remarks	
GEORGIA (Cont'd)										several barns destroyed and larger houses damaged.	
16. Nov. 18	5:45 p.m.	Chattooga	NE	12	500	0	1	5	2	3 houses destroyed or heavily damaged and several barns and chickenhouses demolished at Gore.	
17. Nov. 18	Evening	Murray	NE	(b)	(c)	0	0	4	1	l church and 3 houses severely damaged and barns destroyed at Crandall.	
18. Nov. 29	2:45 p.m.	Bacon	NE	1	300	0	6	4	3	3 houses and several barns and out- houses destroyed. 3 automobiles wrecked, livestock and chickens killed, and timber destroyed near Alma.	
. IDAHO 1. June 5	2:45 p.m.	Twin Falls	N	(b)	(c)	0	0	1	1	Near Twin Falls Airport, funnel	
ILLINOIS										touched ground briefly. No damage.	
1. Mar. 14	2 p.m.	Schuyler	NE	5	(a)	0	0	4	(a)	Wrecked veterinary office and caused other damage at Rushville.	
2. Mar. 14	2:55 p.m.	Mason	NE	(a)	100	0	0	4	(a)	In Mason City area, light to moder- ate damage to about a dozen resi- dences and farmsteads.	
3. Mar. 14	3:10 p.m.	Logan	NE	(a)	(a)	0	0	4	(a)	2 farmsteads damaged at Latham.	
4. Mar. 14	4:20 p.m.	Champaign, Douglas, and Piatt	NE	8	30	0	0	4	(a)	Damage to about 10 farmsteads at Atwood and Parkville.	
5. Mar. 14	6:10 p.m.	Lake	NE	2	35	0	0	3	1	Occurred at Round Lake.	
6. Apr. 3	2 p.m.	Alexander and Pulaski	NE	(a)	(a)	0	2	J 5	С	3 buildings unroofed in Mound City; light damage in Cairo, and several farms damaged near Tansil.	
7. Apr. 18	2 p.m.	Monroe	NE	(a)	(a)	0	0	(d)	1	Occurred near Warnock.	
8.Apr. 25	2:30 a.m.	St. Clair	NE	2	200-300	0	0	4	1	2 farmsteads damaged 3 miles north- west of Freeburg.	
9. Apr. 26	2 p.m.	McLean and Ford	NE	25	30	0	0	4	1	Intermittent path from near Le Roy to east of Gibson City.	
10. May 9	7:10 p.m.	Hancock	NE	4	200	0	0	3	1	Some damage on 4 or 5 farms south and east of La Harpe.	
11. May 13	11 a.m.	Sangamon	NE	(b)	(c)	0	0	2	1	At Camp Butler National Cemetary.	
12. May 21	3:50 p.m.	Monroe and St. Clair	ENE	25	150	0	0	5	1	Intermittent path from south of Columbia to Belleville and Scott Air Force Base. Damage most severe near Columbia.	
13. May 21	5 p.m.	Richland	ENE	4	150	0	0	4	1	Several farmsteads damaged in Claremont area.	
14. May 21	6:07 p.m.	Union and Jackson	ENE	9	200	0	0	5	5	Struck near Makanda and heavy damage at Alto Pass. Peach orchards damaged.	
15. May 21	7:40 p.m.	McDonough	ENE	10	120	0	0	5	1	Homes destroyed at southeast edge of Colmar and several farmsteads damaged.	
16. June 10	10:05 p.m	.Pike, Morgan, and Cass	NE	50	(a)	0	. 0	4	1	Intermittent path with damage near Pittsfield, Concord, and Philadelphi 6 homes damaged at Philadelphia.	
17. June 12	8 p.m.	Douglas	NE	1	(a)	0	0	2	1	At tree-top level. Minor damage to trees and wires at Tuscola.	
18. June 14	1 p.m.	Pike	E	23	(a)	0	1	5	1	Probable tornado with path from Rockford to Milton. Much damage to buildings, trees, and utility lines.	
19. June 14	1:30 p.m.	Morgan	E	3	(a)	0	5	5	1	Probable tornado struck eastern portion of business district of Jacksonville.	

			nce	miles	yards	Num of per		Estimated by categ		
State and date Hour County	Direction of advance	Length of path, m	Width of path, yar	Killed	Injured	Property (exclusive of crops)	Crops	Remarks		
ILLINOIS (Cont'd)										
. June 14	2 p.m.	Sangamon	ENE	6	220	2	50	6	1	Path from southwest of Springfield through south side, with severe tornado destruction in small area
. June 14	3 p.m.	Kankakee	NE	1	80	0	0	5	1	Occurred 4 miles east of Aroma Park.
. Dec. 18	2 p.m.	Randolph and Perry	ENE	20	(a)	0	0	4	1	Reported north of Chester, north of Steeleville to Jamestown and Conant. 10 homesteads damaged.
. Dec. 18	3:15 p.m.	Randolph and Perry	ENE	18	(a)	0	0	5	1	Reported from near Chester to Den- mark, Heavy damage to school and homes damaged or demolished at Willisville.
. Dec. 18	3:20 p.m.	Madison	ENE	1	(a)	0	1	4	1	9 buildings damaged in southern Wood River area.
. Dec. 18	3:35 p.m.	Mason	NE	(b)	(c)	0	1	4	1	Hit southeast side of Mason City. 3or 4 buildings damaged.
3. Dec. 18	3:35 p.m.	Perry	ENE	2-3	(a)	0	1	5	1	Occurred at junction of Highways 150 and 154. 16 houses heavily damaged at Cutler "Y".
7. Dec. 18	3:45 p.m.	Jefferson	ENE	5	(a)	0	2	4	1	8 buildings damaged at Boyd and near Kell.
3. Dec. 18	3:55-4:10 p.m.	Jefferson	ENE	18	100-250	1	45	6	1	First observed 10 miles west-south west of Mt. Vernon, continued across north side of town. Much destruction on southwest side of Mr. Vernon.
Dec. 18	4 p.m.	Jackson	ENE	5	(a)	0	0	4	1	Damage to 3 or 4 homesteads north and northeast of Ava.
D. Dec. 18	4:15 p.m.	Randolph	(a)	5	(a)	0	0	4	1	Near Rockwood, freight cars over- turned and buildings damaged.
l. Dec. 18	4:30 p.m.	Jefferson	ENE	12	200	0	0	4	1	Moved through far north side of Mt. Vernon. Damage to about 6 residences and 6 farmsteads.
2. Dec. 18	4:35 p.m.	Perry	ENE	5	200	1	0	5	1	Occurred at junction of Highways 51 and 154. Small crossroads settlement at Sunfield "Y" wiped out. Heavy destruction in small area.
3. Dec. 18	4:45 p.m.	Jackson, Williamson, and Franklin	ENE	30	200-300	11	200	6	1	About 40 houses destroyed in Gor- ham and 40 in Murphysboro. Inter mittent path with damage near De Soto, Hurst, Bush, and Plumfield
4. Dec. 18	5 p.m.	Wayne and Clay	NE	20	- 100-200	0	1	5	1	Near Orchardville to south of Cla City, about 20 farmsteads damage or destroyed.
5. Dec. 18	5:25 p.m.	Jackson	(a)	1-2	(a)	0	5	4	1	Struck trailer camp 1 to 2 miles south of Carbondale, destroying 15 trailers and damaging 3 house
5. Dec. 18	5:25 p.m.	Jasper	NE	6	(a)	0	(a)	4	1	Damage on 3 or 4 farmsteads between Boos and Ste. Marie.
7. Dec. 18	5:35 p.m.	Hamilton	ENE	2-3	150	0	3	5	1	Heavy damage on south side of Dahlgren.
3. Dec. 18	6 p.m.	Hamilton, White	ENE	20	(a)	0	(a)	5	1	From southwest of Springerton to northwest of Grayville about 20 farmsteads damaged.
9. Dec. 18	6 p.m.	Johnson	(a)	(b)	(a)	0	(a)	4	1	Church destroyed and damage to sc and 2 farms near Forman and Belk
0. Dec. 18	6:40 p.m.	Vermilion	NE	4	60	0	0	4	1	Occurred near Sidell,
1. Dec. 19	5:50 p.m.	Jefferson	NE	1	65	0	0	4	1	Heavy damage to 1 farmstead, ligh damage to other buildings near Waltonville.
2. Dec. 19	9 p.m.	Saline	NE	1/2	100	0	0	4	1	Near Pankeyville, barn and other buildings damaged.

			nce	miles	yards	Num of pe		Estimated by categ		
State and date	State and date Hour	County	Direction of advance	Length of path, m	Width of path, y	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
INDIANA										
1. Mar. 14	6 p.m.	Sullivan	NE	5	(a)	0	0	4	1	South of Fairbanks and northeast of Hutsonville, barn and roof of barn and house damaged.
2. Mar. 14	6:30 p.m.	Lake	ENE	10	30	0	0	4	1	3 buildings and 7 trailers damaged at Schererville.
3. Mar. 14	7:10 p.m.	La Porte	ENE	(a)	(a)	0	0	3	1	Trailer demolished and house damaged northwest of La Porte.
4. Mar. 14	7:30 p.m.	Owen	NE	1/10	30	0	0	2	1	Minor damage 3 miles south of Spencer.
5. Apr. 5	12:05 p.m	.Delaware	(a)	(a)	(a)	0	0	4	1	In and around Muncie, housetrailer overturned, metal garage roof hurled 50 feet, powerlines downed, and front of house damaged.
6. Apr. 5	12:30 p.m	.Grant	(a)	(a)	(a)	0	0	2	1	Tornado dipped down, destroyed small shed and tore down utility line at Fairmount.
7. Apr. 5	1 p.m.	Randolph	(a)	(a)	(a)	0	0	3	1	Door of hanger torn off at Win- chester Airport,
8. Apr. 5	Early afternoo	Lawrence	(a)	(a)	(a)	0	0	3	1	Roof of house destroyed at Bartletts-ville.
9. Apr. 5	Early afternoo	Lawrence n	(a)	(a)	(a)	0	0	3	1	2 buildings damaged by small tornado at Needmore.
10. Apr. 5	Afternoon	Jay	(a)	(a)	(a)	0	0	3	1	Struck near Redkey and Poling; de- molished shed, tore roof off houses, and damaged street lights.
11. Apr. 5	Afternoon	Henry	(a)	(a)	(a)	0	1	4	1	In northwestern part of county, TV antennas, powerlines, trees, and roofs of small buildings blown down and part of gymasium unroofed.
12. Apr. 24	Noon	Bartholomew	(a)	(a)	(a)	0	0	3	1	House unroofed northwest of Columbus.
13. Apr. 26	12:30 p.m	Jasper	(a)	(a)	(a)	0	0	3	1	Farm buildings damaged 1 mile east of Kniman.
14. Apr. 26	2:30 p.m.	Wabash	NE	(a)	(a)	0	0	1	1	Funnel cloud reported by pilot 35 miles west-northwest of North Manchester, touching ground at times.
15. Apr. 26	4 p.m.	Miami	(a)	(a)	(a)	0	0	3	1	Tornado struck southern edge of Denver.
16. Apr. 26	Evening	Hancock	NE	(a)	(a)	0	0	3	1	Near Greenfield, small tornado damaged several buildings along Sugar Creek, 2 miles north of Highway 40.
17. May 11	4:50 p.m.	Allen	(a)	(a)	(a)	0	0,	2	1	House damaged 6 miles northeast of Ft. Wayne.
18. May 21	8:03 p.m.	Warrick	(a)	(a)	(a)	0	2	4	1	12 miles east of Evansville, house destroyed by observed tornado.
19. June 11	P.m.	Sullivan	E	2/10	70	0	0	J. 4	С	Tornado struck 4 miles east of Sullivan, destroying barn and 10 telephone poles.
20. June 13	A . m .	Wabash	(a)	1/10	10	0	0	3	1	Farm buildings damaged 4 miles east of North Manchester.
21. June 13	A . m .	Wayne	(a)	1/10	10	0	0	4	1	Tornado struck church.
22. June 14	7:15 p.m.	Fulton	(a)	(a)	(a)	0	0	4	1	2 baras, home, and other buildings destroyed 5 miles west of Rochester.
23. June 14	7:15 p.m.	Kosciusko	(a)	(a)	(a)	0	0	4	1	Cottage, boats, and docks damaged along shore of Webster Lake.
24. June 28	(a)	Ripley	(a)	(a)	(a)	0	0	4	1	Several buildings damaged at Cross Plains.
25. July 4	5 p.m.	Shelby	(a)	(a)	(a)	0	0	5	C	Buildings damaged or destroyed between Bengal and Marietta.
26. July 4	Evening	Boone	(a)	(a)	(a)	0	0	4	1	Some buildings destroyed northwest of Dover.

YEAR	1000
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				or advance	vards		Number f person	MID L.L.	mated dam categorie	nage s †
State and da	ate Hour	County	7	or day						
			Direction of		12	. Killed	Injured	Property (exclusive	of crops) Crops	Remarks
INDIANA (Cont	(d)		-   -	-	3	×	- In	Pr. (e)	g G	
27. July 12	8 p.m.	Lake	N	f_200	25		0 0		5	l Hangar and attention
IOWA										Hangar and aircraft destroyed a Cedar Lake Airport.
1. Apr. 19	1:30 p.r	n. Winneshiek	N	1	300					
2. Apr. 25	11:30 a	m.Montgomery as	ad (a)	(a)	(a)	0			4	Damaged farm buildings and equipment 4 miles northwest of Burro
3. May 13	Morning	Henry	(a)	1						1 Damaged buildings.
4. May 21	5-8:30 p.	m.Cedar, Muscat		(a)	(a)	0	0	3	3	l Damaged school and farm building
5. May 25		and Scott	,	10	100	0	0	5	5	l Damaged farm buildings.
6. May 25		Chickasaw	(a)	(a)	(a)	0	0	4		3 Damaged farm buildings and crops Fredericksburg area.
7. May 29	11:50 a.r	m.Montgomery	SE	4	1,000	0	0	4		1 Damaged farm buildings and grand stand in Stanton area.
8. May 29	1:30 p.m.		E (a)	(a)	(a)	0	0	3		Damaged farm buildings 4 miles so of Everly.
9. May 29	4 p.m.	Webster .	(a)	(a)	(a)	0	0	(a)	(a	) Reported near Garner.
10. May 30	2:35		1	(4)	(a)	0	0	1		Funnel cloud touched ground at Barnum,
11. May 30	2:35 p.m. 4:50 p.m.		(a)	(a)	(a)	0	0	(e)	(e	
	1.00 р.ш.	Carroll	(a)	(a)	(a)	0	0	(a)	(a)	Occurred 12 miles northwest of
12. May 30	4:50 p.m.	Story	(a)	(a)	(a)	0	0	4		Funnel cloud reported to b
13. June 10	6 p.m.	Lee	NE	(a)	(a)	0	0			north of Nevada.
14. June 11	11:33 a.m.	Lee	(a)	(a)	(a)	0	0	4 (a)		Damaged farm buildings northwest (
15. June 16	6:30 a.m.	Ida, Buena	NNE	15				(4)	1	Reported by Ground Observer Corps southwest of Keokuk.
16. July 4		Palo Alto	MAL	15	(a)	0	0	5	4	Destroyed farm buildings, trees, and utility lines.
17. July 21	2:28 a.m.	Calhoun	ESE	150	(a)	0	1	(a)	1	Woman injured when her home
July 21	11 a.m.	Decatur	(a)	(a)	(a)	0	0	(a)	(a)	corrapsed.
KANSAS									(4)	Reported by Civil Aeronautics personnel.
. Apr. 18	5:55 p.m. C	Comanche	NE	1-1/2	(c)					
. Apr. 18	5:55 p.m. C	omanche	NE	(b)	(c)	0	0	1	1	Occurred 9 miles east of Coldwater Tremendour roar heard.
. Apr. 22	4:45 p.m. C	lav	N					1	1	Occurred 7 miles east and 1 mile north of Coldwater.
Apr. 22	4:45 p.m. C	lay	N	4	300	0	0	4	1	2 tornadoes A number of
. Apr. 22	5:30 p.m. p		N	(b)	(c)	0	0	(e)		sheds destroyed in Clay Center are Struck farmhouse 5 miles east of Sawyer.
Apr. 22	6:35 p.m. Ba		N	6-8	100	0	0	3	1	8 miles southeast of Pratt, farm- house, large barn, and silo damaged
			(E	1/2	(a)	0	0	1	1	Funnel observed to hit ground,
	5:17-6 p.m. Ri	ce	1	-1/2	(b)	0	0	3	1	southeastern part of county.
	5:17-6 p.m. Ri			(b)	(c)	0	0	4		Damaged farm plant on west side of Lyons.  Damaged buildings on 2 farms 2-1/2 miles east of Little
May 13 May 13	11:30 a.m. The	omas N		(b)	(c)	0	0	1		miles east of Little River.

	•					miles	yards		nber	Estimated by categ		
State and date	Hour	County	Direction of advance	Length of path, n	Width of path, ye	Killed	Injured	Property (exclusive of crops)	Crops	Remarks		
KANSAS (Cont'd)		3										
12. May 13	12:14 p.m	Graham	NE	(b)	(c)	0	0	1	1	Funnel cloud came to ground once, then disappeared.		
13. May 16	12:43-12:5	4Cowley	NE	5	125	0	0	1	1	Came to ground in open field be- tween Arkansas City and Winfield.		
14. May 16	2:45 p.m.	Elk	NE	(b)	(c)	0	0	(e)	1	Damaged farm building 2-1/2 miles northeast of Grenola.		
15. May 16	3:30-4:15 p.m.	Greenwood and Woodson	NE	13	440	0	0	(e)	1	Path extended from about 3 miles east of Severy, across Fall River Reservoir to a few miles south- east of Toronto. Buildings on several farms destroyed.		
16. May 16	4:18-5 p.m.	Chautaugua, Montgomery, Wilson and Neosho	NE	40	100-300	0	0	5	1	Extended from 6 miles southwest of Elk City to 2-1/2 miles east of Earlton. Intermittent damage as funnel lifted and dipped to ground.		
17. May 16 18. May 16 19. May 16 20. May 16	4:30-4:50 p.m. Ditto Ditto Ditto	Elk Elk Elk Elk	NE NE NE	4	20	0	0	3	1	4 small tornadoes, 2 caused damage 2 miles north of Grenola, and the other 2 damaged buildings 4 miles east of Grenola.		
*21. May 20	11:10 a.m. -1:35 p.m.	Sherman and Rawlins	NE	100	(a)	0	0	1	1	Tornado moved from Bethune, Colo., on ground 5 miles north-northeast of Goodland and again 5 miles southwest of Atwood, disappeared near Herndon.		
22. May 20	11:15a.m 12:10 p.m		NE	1	300	0	0	(d)	1	Moved across southeastern Phillips- burg.		
23. May 20	1:15 p.m.	Osborne	NE	(p)	(a)	0	0	(d)	1	1 farmplant damaged 3 miles north and 1/2 mile east of Downs.		
24. May 20	1:25-1:45 p.m.	Mitchell	NE	(b)	(c)	0	0	(d)	1	First observed near Hunter, dipped 4 times before disappearing.		
25. May 20	2:05 p.m.	Jewell	NNE	6	300	0	0	4	1	Damaged buildings 3 to 9 miles north of Burr Oak.		
26. May 20	2:50-4 p.m.	Cloud, Republic, and Washington		60	400	0	0	5	1	Main tornado traveled from 5 miles east-northeast of Glasco to 3 miles southeast of Haddam.		
27. May 20	2:50-4 p.m	.Cloud	NE	(b)	(c)	0	0			Short path 6 miles south-southeast of Concordia.		
28. May 20	2:50-4 p.m	Cloud	NE	(b)	(c)	0	0			On north side of main storm about 1-1/2 miles east of Huscher.		
29. May 20	2:50-4 p.m.	Cloud	NE	(b)	(c)	0	0			South of main tornado for 2 miles about 1-1/2 miles east of Huscher.		
30. May 20	2:50-4 p.m.	Cloud	NE	4	(c)	0	0			Path began 4 miles east of Concordia, joined main path 4 miles east of Hollis and 1 mile north of Canadian River. Damage listed for all 5 tornadoes.		
31. May 20	5:45-5:50 p.m.	Lyon	ESE	1/2	100	0	0	2	1	Slight damage in village of Hartford.		
32. May 20	6:15-6:30 p.m.	Greenwood	NE	1	100	. 0	0	(d)	1	Well defined elephant trunk appearance. Struck ground 1-1/2 miles west of Madison.		
*33. May 20	6:15-7:37 p.m.	Franklin, Miami, and Johnson	NE	57	150-700	Ż	31	6	4	Traveled from 2 miles southwest of Williamsburg into Missouri.		
34. May 20	6:15-7:37 p.m.	Franklin	NE	7	(c)	0	0			Second tornado adjacent to number 33 from 1 mile northeast of Williams-burg to 3 miles northeast of Home-wood. Damage listed for both tornadoes.		
35. May 24	5:05 p.m.	Sumner	(a)	(b)	(e)	0	0	(e)	1	Dipped once 3 miles southwest of Belle Plaine.		
36. May 24	10 p.m.	Sumner	(a)	(p)	(c)	0	0	(d)	1	Damaged farmplant 2 miles southeast of Mulvane.		
37. May 24 See reference not	Night	Cherokee	NE	(b)	(c)	0	0	(d)	1	Struck southeastern corner of Baxter Springs.		

			nce	miles	yards		nber rsons	Estimated by categ		
State and date Hour County	Direction of advance	Length of path, m	Width of path, ya	Killed	Injured	Property (exclusive of crops)	Crops	Remarks		
KANSAS (Cont'd) 38. May 29	6-8 p.m.	Ellsworth	(a)	(p)	(c)	0	0	(e)	1	Damaged buildings 9 miles northwes of Ellsworth.
39. May 29	7-8 p.m.	Saline	NE	(b)	(c)	0	0	(a)	1	Occurred a few miles northwest of Bavaria.
40. May 30	3:35 p.m.	Thomas	N	(a)	(a)	0	0	(a)	1	Touched ground momentarily 4 miles north of Colby.
11. May 31	11:55 a.m.		NE	5	150	0	0	(a)	1	In open pasture 28 miles southwest of Medicine Lodge.
12. May 31	2:35 p.m.	Sherman	(a)	(a)	(a)	0	0	(a)	1	Touched ground briefly 10 miles west of Goodland.
3. May 31	3:44 p.m.	Sherman	(a)	(a)	(a)	0	0	(a)	1	Occurred 13 miles northwest of Goodland.
14. June 11	6 p.m.	Douglas	NE	3	(c)	0	0	(a)	1	Struck ground 5 miles south of Lawrence, damaged farm buildings.
15. June 11	7:45 p.m.	Shawnee	NW	200	60	0	0	(d)	1	Dipped to ground 6-1/2 miles south west of Topeka.
6. June 11	8:04 p.m.	Johnson	NE	1/4	100	0	0	4	1	Destroyed large barn 3 miles north and 1/2 mile west of Olathe.
17. June 14	12:15-12:24 a.m.	Barber	NE	(a)	(a)	0	0	(a)	1	Small tornado on ground a few mile north of Aetna and 1-1/2 miles south of Medicine Lodge.
8. June 14	1:05 a.m.	Geary	NE	(a)	(a)	0	0	(e)	1	Positive account of tornado 4 mile south and 1 mile west of Junction City.
9. June 15	4:05-4:45 p.m.	Smith	NNE	14	(a)	0	0	6	1	Traveled from about 4 miles south- southwest of Kensington, through west side of Kensington, to 10 miles north-northeast of town.
0. June 15	4:05-4:45 p.m.	Smith	NNE	2	(a)	0	0			Hit ground 1 mile northwest of Athol, with intermittent damage across several miles. Damage listed for both tornadoes.
1. June 15	Evening	Gove	NNE	7	(a)	0	0	(a)	1	Damage over path from 6-1/2 miles northwest of Quinter to 10 miles north of town.
2. June 16 3. June 16	Midafter- noon		(a)	(a)	(a)	0	0	(a)	1	2 tornadoes observed to have touch ed ground in open country about 2
4. June 16	Ditto 9:25 p.m	Finney Osborne	(a)	(a)	(a)	0	0	(a)	1	miles northwest of Garden City.  Touched ground momentarily 4 or 5
5. June 21	8 p.m.	Republic	(a)	(a)	(a)	0	0	(a)		miles north of Downs.  Dipped at Norway, uprooting a long
6. June 21	9:14 p.m.	Reno	NE	(a)	(a)	0	0			row of cottonwood trees.
7. June 21	10:09 p.m.		NE	3	100	0	0	(a)		West of Hutchinson.  Damage occurred 4 miles west of
8. June 21-22	11:30 р.т	Johnson	E	8	400	0	20	5		Valley Center.  Considerable building damage from
9. June 23	12:15 a.m.		(a)	(a)	(a)	0	0	(e)		near De Soto to Shawnee.  14 power poles and windmill destroy
0. June 29	Evening	Greeley	(a)	(a)	(a)	0	0	1		east of Copeland.
1. June 29		Trego	(a)	(a)	(a)	0	0			Touched ground in open country 8 miles west of Tribune.
2. June 29		Dickinson	E	(p)	20	0	0	(d) 3		Occurred at Collyer.  Tornado sighted and heard west of
3. June 30	11:05 p.m.	Harper	NE	(a)	(a)	0	0	1	(a)	Enterprise. On ground 12 miles southeast of
4. July 21	6:50 p.m.	Edwards	(a)	(a)	(a)	0	0	(a)		Attica.  Touched ground 10 miles northwest
KENTUCKY										of Kinsley.
. Jan. 22	3:30 p.m.	Logan	NE	1	880	0	0	34	C	Storm struck 4 miles northeast of

State and date Hour County by the date of partial states and date Hour County by the date of the date	osts, trees, ned. Corn, some farm  ing Green.  ed by tornado, not observed. f freight miles south— House, 4 barns, ngs destroyed. es blown down.  lle, 1 ware— cco destroyed damaged. maged. Plate—
residence damaged. Po and utility lines down hay, other feeds and s machinery lost.  2. Apr. 3 P.m. Warren (a) (a) (a) 0 0 (d) (d) Occurred south of Bowli  3. May 22 A.m. Carroll NE 3/4 440 0 0 4 3 Damage apparently cause although funnel cloud Noise like "a bunch of trains" heard. Hit 4 west of Carrollton. He and other farm building Trees and utility pole p.m.  4. Nov. 18 4:25-4:30 Boyle (a) (a) (a) 0 0 4 5 Hit outshirts of Danvil house containing tobac and another warehouse Roofs on 12 houses dam	osts, trees, ned. Corn, some farm  ing Green.  ed by tornado, not observed. f freight miles south— House, 4 barns, ngs destroyed. es blown down.  lle, 1 ware— cco destroyed damaged. maged. Plate—
3. May 22  A.m. Carroll  NE 3/4 440 0 0 0 4 3 Damage apparently cause although funnel cloud Noise like "a bunch of trains" heard. Hit 4 west of Carrollton. He and other farm building Trees and utility pole 4. Nov. 18  4. Nov. 18  4:25-4:30 Boyle (a) (a) (a) 0 0 4 5 Hit outshirts of Danvil house containing tobac and another warehouse Roofs on 12 houses dam	ed by tornado, not observed. f freight miles south- House, 4 barns, ngs destroyed. es blown down. lle, 1 ware- cco destroyed damaged. maged. Plate-
although funnel cloud Noise like "a bunch of trains" heard. Hit 4 west of Carrollton. H and other farm buildin Trees and utility pole  4. Nov. 18 4:25-4:30 Boyle p.m.  (a) (a) (b) 4 4 5 4:4:5 4:4:5 4:4:5 4:4:5 4:4:5 4:4:5 4:4:5 4:4:5 4:4:5 4:4:5 4:4:5 4:5	not observed.  f freight miles south- House, 4 barns, ngs destroyed. es blown down.  lle, 1 ware- cco destroyed damaged, maged. Plate-
p.m. house containing tobac and another warehouse Roofs on 12 houses dam	cco destroyed damaged. maged. Plate-
glass windows, signs, smaller buildings smas	
LOUISIANA  1. Jan. 22 10:50 p.m. Webster NE 1-7/10 180 3 9 4 4 In Princeton area, heaven 180 yards; path errati	
2. Mar. 21 6 a.m. La Fourche NE 2 100 0 2 4 (e) Between Montegut and Bodemolished and several	lourg, 2 homes
3. Mar. 31 4 p.m. Jefferson Davis NE 8 300 0 0 4 1 Near Lake Arthur, seven buildings destroyed, ed, and roofs damaged	trees uproot-
4. Mar. 31 6 p.m. St. John the N 2 1,000 0 0 3 (d) Over open farmland better and Laplace.	ween Reserve
5. Mar. 31 10:30 p.m.Plaquemines NE 1 200 0 0 4 3 Lifted several homes of unroofed packing plan power poles at Nairn.	it, and downed
6. Mar. 31 10:15 p.m.Plaquemines NE 1 100 0 3 4 1 Several homes demolish damaged at Boothville	
7. Apr. 3 6 p.m. Jackson (a) (b) (c) 0 0 (d) 1 Near town of Hodge.	
8. Apr. 27 5:40 p.m. Calcasieu NE 1 200 0 0 4 1 1 home destroyed, seve barns, and fences dam village of Carlyss.	
9. May 23 5 p.m. Bossier (a) 1/2 150 0 1 4 (d) 20 miles north of Shre home damaged, trees u derrick blown over.	
10. May 26 1:40 p.m. East Baton E 175 50 0 0 3 1 6-1/2 miles east of Ba Airport.	ton Rouge
11. June 27 Early a.m.Orleans NE (a) 25 0 0 4 1 At Michaed during pass cane.	age of hurri-
12. June 27 10:30 p.m.St. Landry NE (b) (c) 0 0 4 1 Near Arnaudville, seve aged and trees uproot during passage of hur	ted. Occurred
13. July 10 2:14 p.m. Plaquemines (a) (a) (a) 0 0 1 1 3 waterspouts observed 14. July 10 2:14 p.m. Plaquemines (a) (a) (a) 15. July 10 2:14 p.m. Plaquemines	i near Burrwood.
16. July 13 12:50 p.m.Orleans (a) (a) (a) 0 0 2 1 Waterspout on Bayou St Mirabeau moved onto 1 roofing off house und tion.	land and tore
17. Aug. 28 1:50 p.m. St. John the (a) (a) (a) 0 0 1 1 Waterspout on Lake Mau	irepas.
18. Oct. 15 10-11 p.m.St. Landry and Point Coupee NNE 45 100 1 29 4 4 Moved from near Leonvi Cypress Grove communithrough thinly settle Mix. 15 houses destricted amaged.	ity, them ed areas to
19. Oct. 16 la.m. Tangipahoa NE (b) 50 0 0 3 (d) Destroyed several built north of Kentwood.	
20. Oct. 16 1-2 a.m. West Baton Rouge ESE 50 (c) 0 0 4 (d) Destroyed several house and Livingston  and Livingston Baton Rouge, came to moved to Walker.	lifted over

			ace	miles	ds	Num of per		Estimate by categ		
State and date	Hour	County	of advance	path, mi	path, yards					Remarks
			Direction o	Length of p	Width of pe	Killed	Injured	Property (exclusive of crops)	Crops	
LOUISIANA (Cont'	d)							-		
21. Oct. 23	8:15 a.m.	Rapides	NNE	18	100	1	1	4	(d)	Several houses destroyed and minor widespread damage to buildings, powerlines, and trees between Kolin and Deville.
22. Oct. 23	2:15 p.m.	Assumption	Е	10	100	0	0	4	3	Moved from Elm Hall Plantation to Napoleonville and Unice Breaux, damaging many houses and destroy- ing some others.
23. Nov. 7	2-2:30 р.д	Caddo and Bossier	NE	15	100	0	0	<i>Y</i> <sub>4</sub>	С	Moved through mostly wooded land from Robson to Fillmore.
24. Nov. 7	2:30-3 p.m	Jefferson Davis	NNE	15	50	0	0	4	(d)	Moved from Lowry to Iota; lifted over Jennings.
25. Nov. 7	4:50 p.m.	Pointe Coupee	NE	3	50	0	5	5	(d)	15 homes and farm buildings destroyed in Torras area.
26. Nov. 7	8:35 p.m.	Vernon	(a)	(a)	(a)	0	0	4	1	3 buildings destroyed 2 miles west of Leesville.
27. Nov. 7	9-9:15 p.m	waa pides	SE	13	50-75	3	16	6	(d)	Moved from Boyce to Alexandria; through 10-block area in Alexandr Destroyed 98 homes and 6 other buildings, damaged 458 homes and other buildings.
28. Nov. 7	11:30 p.m	.Lafayette	NE	(a)	(a)	2	13	5	(d)	Several homes and farm buildings destroyed at Carencro.
29. Nov. 7	11:30 p.m	Acadia and St. Landry	NE	8	200	4	10	5	(d)	Destroyed 25 homes and 60 farm buildings, damaged 14 homes and 2 farm buildings from Higginbothan to Cankton.
30. Nov. 13	11:10 a.m	.Rapides	(a)	(a)	(a)	0	0	3	1	20 miles southeast of Alexandria, 2 homes destroyed.
31. Nov. 13	1:25 p.m.	Plaguemines	N	(a)	8	0	0	3	1	Occurred 1 mile south of Burrwood.
32. Nov. 13	11:25 p.m	.St. Tammany	NE	2	100	0	0	5	1	Heavy damage at St. Josephs Academ at Ramsey.
13.Nov. 16	5 a.m.	Sabine	NE	1	100	0	1	4	1	3 homes destroyed at Ft. Jessup.
4. Nov. 18	11-11:45 a.m.	Livingston and St. Helena	NNE	15	25	0	0	4	1	Began near Springville, moved to 5 miles southwest of Kentwood. Damage spotty.
1. Mar. 31	2:30 p.m.	Washington	SE	1/4	10	0	0	(a)	1	Waterspout crossed part of Machias Bay between Starboard and Ingalls Island. Unconfirmed report that small boat capsized by spout.
2. June 19	2 p.m.	York	(a)	(a)	(a)	0	0	1	1	Waterspout observed offshore at Yo Beach apparently developed from same squall that spawned Newingto N. H., tornado about 25 minutes earlier.
MARYLAND	2:39-3 p.m	Arrostook	E	5	50	0	0	3	2	Evidence of skipping about a mile in each of 2 places along path at Sherman Mills. Barn wrecked and 2 homes damaged. Heavy wooden beams carried 300 to 500 feet in
(None) MASSACHUSETTS										
. May 6	Noon	Suffolk	(a)	(a)	(a)	0	0	(a)	(a)	Waterspout crossed Houghton's Pond lifting water level 2 to 3 feet with anticyclonic circulation.
2. May 10	4:35 p.m.	Franklin	ESE	300	10	0	0	2	1	Funnel observed at North Bernardst with no visual connection with squall clouds above wind calm onl 80 feet away from twister. Storm damaged trees, utility lines, and a roof.
. June 19	2:47 p.m.	Middlesex	NE	1	25	0	0	4	1	Funnel observed at North Sudbury, discontinuous path. Damage to orchard and farm buildings. Much

			nce	miles	yards	Num of per		Estimate by categ	d damage ories †	
State and date	Hour	Hour County	Direction of advance	Length of path, m	Width of path, )	Killea	Injured	Property (exclusive of crops)	Crops	Remarks
MASSACHUSETTS (Cont'd)										storm, but some went in other directions, even to southwest.
. June 19	3 p.m.	Middlesex	N	1/2	100	0	~0	2	1	Funnel cloud observed at Bedford. Post Office damaged.
. June 19	Afternoon	Worcester	E	1-3/4	(a)	0	0	4	1	Storm occurred at Lancaster. Fun- nel cloud described as "something like a little smokestack" felled trees, snapped utility poles, and sent several trees crashing against buildings.
. July 5	9:20 a.m.	Hampshire	SE	1	(a)	0	0	3	1	At Northampton, very narrow path of damage to trees and wires. No confirmation of funnel cloud.
. July 5	8 p.m.	Worcester	SE	(a)	20	0	0	3	1	At Leominster; no confirmation of funnel cloud.
. Aug. 16	2:15 p.m.	Essex	(a)	(a)	(a)	0	0	(d)	1	Waterspout on Lake Attitash. Black cloud overheard. 14-foot boat with motor picked up and overturn
MICHIGAN . Apr. 25	Afternoon	Huron and	(a)	(b)	(a)	0	0	3	1	Several funnels reported. Some
. Apr. 25	Afternoon	Sanilac Ditto	(a)	(b)	(a)					evidence that 1 or more dipped briefly in rural areas.
. Apr. 27	10:30 a.m	. Oakland	(a)	(b)	(a)	0	0	3	1	3 funnels reported near Pontiac, dipped briefly to surface in nor end of Pontiac, damaging lumbery slightly and hurling 2 big planks through window of nearby grocery store.
. May 14	Evening	Oceana	(a)	(p)	(a)	0	0	1	1	Waterspout reported in Lake Michiganear Oceana County
. June 14	6 p.m.	Montmorency	NE	1	50	0	0	4	1	l summer cottage demolished, 2 oth damaged in Vienna Township.
. June 22	4:30 p.m.	Ottawa	(a)	(b)	(c)	0	0	4	1	Onion warehouse at Hudsonville de- stroyed along with contents.
. June 22	5:05 p.m.	Berrien and Cass	ENE	12	50	0	0	4	(e)	Funnel developed near Eau Claire, lifted several times; some rural buildings destroyed or damaged.
. June 22	5:10 p.m.	Allegan	NE	1	(c)	0	0	1	1	Small funnel moved over Dumont La and dissipated soon after hitting shore.
. June 22	Evening	Вау	(a)	(b)	(c)	0	. 0	3	1	Barn, trees, and utility lines wrecked near Bay City.
0. July 4	4 p.m.	Emme t	NE	6	35	0	0	4	3	Near western edge of Harbor Spring 2 barns destroyed and several oth rural buildings damaged.
il. July 4	5 p.m.	Presque Isle	E	5	130	0	0	4	3	Tornado just south of Lake May, do stroyed 3 barns and damaged sever rural buildings.
2. July 4	6:55 p.m.	Livingston and Oakland	E	32	50	0	5	5	1	Tornado began just southeast of Brighton, moved to northern subur of Detroit. Destroyed 2 homes an damaged 10 others. Funnel lifted several times during passage. Heaviest damage near Brighton.
3. Aug. 4	9:25 a.m.	Allegan	(a)	(a)	(a)	0	0	1	1	Waterspout 7 miles north of South Haven in Lake Michigan dissipated upon reaching land.
4. Aug. 4	10:50 a.m	. Ва у	(a)	(a)	(a)	0	0	1	1	Waterspout 15 miles northeast of Saginaw in Saginaw Bay dissipate upon reaching land.
5. Sept. 21	4 p.m.	Shiawassee and Flint	ENE	26	30	0	0	<i>T</i> <sub>3</sub>	C	Small tornado began at Owosso and ended 6 miles east of Flushing; funnel lifted and dipped several times; damage mostly from trees f ing on buildings.
16. Sept 22	1:21 p.m.	Leelanau	NE	(a)	(a)	0	0	1	1	Waterspout 5 miles southeast of South Fox Island.
7. Sept. 19	5:50 p.m.	Wayne	ENE	1-1/2	100	1	12	5	1	Suspected tornado in northeast se tion of Detroit; fatality and mo

			95	8	**	Numi of per		Estimated by catego		
State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
MICHIGAN (Cont'd)										of injuries caused by falling chunks of concrete in factory building.
MINNESOTA										
1. May 14	10 a.m.	Dodge	NW	(a)	250	0	0	(e)	1	4 miles east of Blooming Prairie, suspected tornzdo, severe thunderstorm, with some hail. No funnel observed. Barn destroyed. Other buildings and machinery damaged. One witness described storm as making "terrible roar" following a calm.
2. May 21	Noon	Cass	N	4-1/2	100-300	0	0	4	1	Funnel cloud observed striking farm near Staples. Barn and ga- rage demolished. Windows in house blown out. Swath 1 mile in length cut through stand of pine trees.
3. May 21	l p.m.	Chisago	NNE	9	100	0	2	4	1	Funnel cloud observed by several persons, also photographed. Struck 9 individual farms, beginning I mile east of Harris and ending I mile north-northeast of Rush City. Child snatched from mother's arms as they tried to escape storm and hurled both through the air. I house destroyed, 4 others damaged. 8 barns blown over and destroyed also numerous outbuildings. Trees up to 24 inches in diameter twisted and uprooted.
4. May 25	2:38 p.m.	Wright	NE	1,400	20	0	0	4	1	Suspected tornado flattened barn and uprooted trees near Maple Lake. Roaring noise heard, but no funnel observed.
5. June 13	P.m.	Brown	(a)	(a)	(a)	0	0	(e)	1	Suspected tornado demolished barn and damaged small buildings near New Ulm.
6. June 16	(a)	Martin	NE	(a)	(a)	0	0	3	4	Funnel cloud observed 5 miles north east of Dunnell. 1 barn demolished Heavy rain flooded highways and farmland.
7. June 20	6:40 p.m.	Clay	В	26	400	0	0	5	(e)	After striking Fargo, N. Dak., tornado crossed Red River into Moorhead. 2 farms, 2 country clubhouses, and other buildings, all just north of Moorhead, damaged or partially destroyed. Length of mosserious damage 3 miles. Minor damage also reported at Glyndon and Dale, east of Moorhead, as tornado weakened and finally dissipated over Lake Park.
8. June 20	7:30 p.m.	Otter Tail	E	(a)	(a)	0	0	3	1	Funnel cloud observed. Demolished cottage at Long Lake near Fergus Falls.
9. June 22	A.m.	Freeborn	(a)	(a)	(a)	0	(	1	1	Cooperative observer reported small twister near Albert Lea.
10. June 25	P.m.	Norman	(a)	(a)	(a)	0	(	1	1	Trucker sighted funnel cloud. Finle radar reported tornado.
11. June 25	7 p.m.	Freeborn	SE	(a)	(a)	0	(	(e)	(e)	Trees uprooted, steel grain bin ov. turned, and tractor damaged at Al- Farmer said "it sounded like a bu- of bombers going over."
12. June 27	2 p.m.	Douglas	(a)	(a)	(a)	0		) (e)	(d)	Suspected tornado destroyed barn 2 miles north-northeast of Alexandr
13. June 27	2 p.m.	Otter Tail	(a)	(a)	(a)	0		1	1	Funnel cloud reported touching gro 2 miles east of Ottertail.
14. July 3  See reference no	4-5 a.m.		SE	50	(a)	C		2 5	5	Generally straight-line winds with some local evidence of tornado bl down at least 12 barns, thousands of trees, telephone lines, outbui ings, and windmills. Livestock ki ed by lightning. Drive-in theater and housetrailer damaged in Luver

			nce	miles	ig.	Num of per		Estimate by categ	d damage ories †	
State and date	Hour	County	Direction of advance	Length of path,	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
MINNESOTA (Cont'	<b>a</b> )									Lumberyard unroofed and church destroyed at Ellsworth.
15. July 7	8 p.m.	Le Sueur	(a)	(a)	(a)	o	0	1	1	Occurred 10 miles north of Water- ville; funnel observed.
16. July 19	P.m.	Freeborn	(a)	(a)	(a)	0	0	1	1	Funnel cloud touched ground in field 5 miles south of Albert Lea.
MISSISSIPPI										
1. Feb. 1	7 a.m.	Madison	NE	1	100	0	0	3	1	Funnel observed; 1 home destroyed and several damaged at Camden.
2. Feb. 1	7 a.m.	Montgomery	NE	(a)	30	0	0	2	1	Lifted roof 4 miles southeast of Winona.
3. Apr. 3	7:15 p.m.	Washington	NE	10	(a)	0	4	5	(a)	Struck Glen Allan, Arcola, and Darlove; 20 homes, church, and gin destroyed.
4. Apr. 4		Winston, Noxa- bee, and Lowndes	NE	20	200	0	0	4	(d)	Struck 10 miles southeast of Louis- ville, then 10 miles west of Macon to 10 miles southeast of Columbus, moving over thinly settled farmland.
5. Apr. 4	1-3 a.m.	Simpson, Smith, Jasper, Newton, and Lauderdale		40	175	1	75	5	(d)	
6. Apr. 8	3:10 a.m.	Lee	NE	10	200	0	Ø	5	(a)	Old Union to Verona; 1 home destroy- ed; experiment station heavily dam- aged.
7, Apr. 8	8 a.m.	Calhoun	NE	(b)	100	0	0	3	1	Funnel observed; 2 homes destroyed. 6 miles north of Bruce.
8. May 2	8:30 a.m.	Pearl River	(a)	(a)	(a)	0	0	1	2	Funnel observed in pecan grove in Plainview community.
9. May 2	7 p.m.	Forrest	(a)	(a)	(a)	0	0	2	2	Funnel observed at Hattiesburg, dipping down and uprooting trees and destroying TV antennas.
10. June 27	8:30 p.m.	Neshoba	NE	4	50	0	9	4	3	At Philadelphia, 3 homes destroyed and 5 damaged. Spawned by hurricane Audrey.
11. June 27	10:10 p.m	.Chickasaw	(a)	(a)	(a)	0	0	3	(a)	4 miles north of Houston, trees up- rooted and some damage to roofs.
12. June 28	12:32 a.m	.Noxubee	NE	10	50	1	10	5	4	Spawned by hurricane Audrey. Touched down 2 miles southwest, then in town of Brooksville; 4 houses and cheese plant demolished; corn blown down, other crops damaged.
13. June 28	6:30 a.m.	Wayne	NE	10	50	0	0	5	3	Spawned by hurricane Audrey. Several buildings destroyed and school damaged is town of Clara.
14. July 24	6 p.m.	Harrison	SE	(a)	(a)	0	0	1	1	Waterspout observed over Mississippi Sound about 12 miles south of Biloxi.
15. Aug. 10	5:23 p.m.	Harrison	(a)	(b)	(c)	0	0	(d)	1	Touched ground briefly 15 miles north- northeast of Wavelaud.
16. Oct. 15-16	11:45 p.m. 12:15 a.m		NNE	20	50-100	0	0	4	(d)	Moved from 10 miles southeast to 10 miles northeast of Vicksburg.
17. Nov. 7	10-10:30 p.m.	Holmes, Carroll, and Grenada	NE	20	300	2	1	5	3	Moved from 3 miles south of Cruger to 10 miles east of Greenwood; 23 buildings and radio tower destroyed.
18. Nov. 7	11:05 p.m	Claiborne	NE	3	100	0	0	5	(d)	Struck Alcorn A & M College, causing heavy damage.
19. Nov. 7	11:30 p.m	. Winston	(a)	(a)	(a)	0	0	4	1	2 buildings destroyed, 7 damaged.
20. Nov. 8	1:30-3 a.	nNeshoba, Kemper, and Noxubee	NNE	30	200	0	3	5	1	Through Bond, 10 miles southeast of Philadelphia, Preston, and Gholson. 24 buildings destroyed and 31 damaged.
•21. Nov. 17	12:15-12:40 p.m.	ONoxubee and Lowndes	NNE	15	70	2	2	5	(d)	5 miles west of Macon to Brooksville and Deerbrook; 11 buildings destroyed and 12 damaged, Moved into Alabama.

			90	89	sp	Num of per		Est	ima ted catego	damage ries †	
State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Killed	Injured	Property -	crops)	Crops	Remarks
			Dire	Len	Wic	Kil	Inj	Pro	70	Ö	
MINNESOTA (Cont'd) 22. Nov. 17	1;30 p.m.	Montgomery	E	8	100	0	0		4	1	Kilmichael to Stewart; 3 buildings destroyed and 8 damaged.
23. Nov. 18	10:30 a.m.	Claiborne	E	(a)	(a)	0	0		3	1	Mostly in wooded area.
24. Nov. 18	12:10 p.m.	Prentiss and Tishomingo	NE	10	50	0	2		5	1	Moved from Cairo to Tishomingo; 12 buildings destroyed and 21 dam- aged.
25. Nov. 18	1:30 p.m.	Jones	NE	5	50	0	2		4	1	Sharon to near Sandersville; 9 buildings destroyed and 19 damaged.
26. Nov. 18	2:30 p.m.	Clarke	ENE	10	75	0	0		4	1	At Hale, De Soto, and Linden, 14 buildings destroyed and 27 damaged.
27. Nov. 18	3-4 p.m.	Walthall, Marion, and Jefferson Davis		25	75	0	2		5	1	Heaviest damage and casualties in Walthall; 17 buildings destroyed and 95 damaged.
MISSOURI		Dunklin	NE	1	100	0	1		4	1	Major damage to 19 homes, minor damage to 100 homes at Kennett.
1. Jan. 22	11:40 a.m		NE	1	100	0	0	)	3	1	Damage to cotton gin and buildings at Caruth.
2. Apr. 3 3. Apr. 3	p.m.	Mississippi	E	(a)	(c)	0	(	)	3	1	Damage to farm buildings 3 miles north of East Prairie.
4. Apr. 25	p.m. 1:25-1:30		NE	1/2	500	0	(	)	4	1	Damage to buildings in residential area of Fredricktown. Observer heard loud "screeching" sound.
5. May 9	a.m. 3:30-4:15 p.m.	St. Louis	NE-N	9	100-150	0		0	3	3	First reported point of contact was on grounds of a seminary at point about 3 miles from WBAS, Lambert Field. At this spot a number of trees broken in wooded area close to point of contact. 2 farms damaged and roof of school blown off and windows broken near Florissant.
6. May 13 7. May 13 8. May 13 9. May 13	2:15-3:15 p.m. Ditto Ditto Ditto	5 Howell and Oregon Ditto Ditto	NE NE NE	(a) (a) (a) (a)	(a) (a) (a) (a)	0		0	3	1	In Howell County, tornado at 3 p.m., hit 5-1/2 miles south of West Plains, damaging several farm buildings. Another hit in White Church community south of Mountain View, Oregon County; another 1 mile east of Couch; and another between Job and Billmore.
*10. May 20	7:37-8:3 p.m.	O Jackson and R	ay NE	15	200-300	0 37	50	00	6	(a)	Tornado first spotted at 6:15 p.m., near Williamsburg, Kans. It crossed Kansas-Missouri border just north of southwestern corner of Jackson County at 7:37 p.m. It then hit Martin City, Ruskin Heights, and near Knobtown. Some indications tornado lifted near Knobtown, then either came back down, or another funnel formed near Sibley, then moved into Ray County across river. Considerable damage to property at Richmond about 8:30 p.m. Debris from Hickman Mills found at Ottumwa, Iowa, and at many points in central Missouri.
11. May 20	Late	De Kalb	(a)	8	200		0	0	(e)	)	Damage to buildings on 8 farms in Maysville area.
12. May 20	8:45-9 p		NE	(a)	(a)		0	0	(a)	) (a	) Witnesses heard "freight train roar." 40-acre field at Hardin littered with debris from Grandview-Ruskin Heights storm.
13. May 21	3 p.m.	Dent	NE	12	440-8	во	0	1		4	Storm first struck on Highway 19 north of Standing Rock. Next damage 2 miles east of Doss, where home de- stroyed. Storm moved on to near junc- tion of Highways 32 and 72, hitting several farm buildings and houses along way. Child hurt by flying glass.
14. May 21	3:15-3: p.m.	27 Taney and Douglas	NE	11	500-		0	0		5	3 Tornado apparently first hit in north- eastern corner of Taney County near Brown Branch, passed near Squires

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## TORNADO DATA

			nce	miles	yards	Num of per		Estimated by categor		
State and date	Hour	County	Direction of advance	Length of path, n	Width of path, y	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
MISSOURI (Cont'd)	1			+ -	-	-	<del>-</del>	<b>H</b> C 0		and lifted 2-1/2 miles northeast
15. May 21	3:45-4:15 p.m.	Reynolds to St. Francois	ENE	8	300-400	8	50	7	(a)	of Girdner. Tornado apparently hit in vicinity of Centerville, Reynolds County, damaging several buildings, came down again in vicinity of Belgrade, Washington County, where 20 buildings destroyed and several damaged. It then moved due east along Highway 8, destroying 1 house at Leadwood. Full impact of storm hit Desloge and Cantwell, St. Francois County, where several buildings and homes demolished. Storm hit again in vicinity of Fairview and French Village.
16. May 21	3:53-4:10 p.m.	Carter	ENE	(a)	400-500	7,	50-75	(a)	(a)	Tornado hit Fremont just before 4 p.m., then moved to Van Buren. Fremont left devastated, with only 7 homes intact. In Van Buren, damage severe, but not as complete as in Fremont.
17. May 21	5-5:30 p.m.	Cape Girardeau	NE	5	500	0	0	4	1	Tornado began north of Highway 34, west of Jackson in Byrds Creek area, moved about 5 miles, making numerous "dips."
18. May 21	5:30 p.m.	Cape Girardeau	NE	3	440	0	0	4	(a)	House and barns in Millersville and Bufordville demolished in storm path. Trees uprooted.
19. May 21	5:30-5:31 p.m.	Lewis	NE	(a)	440	0	2	5	1	Storm hit 6 miles southwest of Monti- cello, damaging barn, then hit north western section of Monticello, then skipped to about 6 miles northeast where it destroyed buildings in Benjamin.
20. May 21	11:45 p.m	.Dunklin	NE	(a)	(a)	0	0	(a)	1	Tornado damage reported in eastern edge of Kennett, southwest of Arbyd, and in Gobler-Deering area.
21. May 22	2:30 p.m.	Washington	NE	100	8	0	0	(e)	1	7 barns and 5 houses damaged in Caledonia.
22. May 22	11:55 p.m	.Mississippi	NE	3-4	100-150	0	0	(e)	1	Suspected tornado. 25 houses and barns badly damaged in southeastern tip of Mississippi County. 8-room house lifted off its foundation, leaving 19 members of family inside unhurt.
23. June 7	4 p.m.	Andrew	NE	(a)	400	0	0	2	1	Funnel touched ground briefly at Fillmore, damaging farm building.
24. June 7	8-8:30 p.	mClinton	NE	(a)	(a)	0	0	(d)	1	Funnel touched ground briefly in pasture near Gower.
25. June 12	1:15 p.m.	Douglas	(a)	(a)	(a)	0	0	(e)	1	Roaring noise heard, but no funnel seen. Possibly touched ground briefly. Farm building damaged near Ava.
26. June 14	4-4:15 a.m	a.Livingston	NE	(a)	300	0	0	(e)	(e)	Buildings on several farms damaged and oats flattened in fields 2 miles northwest of Chillicothe.
27. June 14	9 a.m.	St. Charles	(a)	(a)	(a)	0	0	(e)	1	Funnel touched ground 1 mile north of Boschertown, damaging buildings on 1 farm.
28. June 15	6 p.m.	Shelby	(a)	(a)	(a)	0	0	(e)	1	Funnel-shaped cloud seen approach- ing farm near Lakenan. Debris blown in air. Several farm build- ings destroyed.
29. June 22	Midnight- 12:30 a.	Clay and Jack- m son	NE	10-15	100	0	0	5	1	Many powerlines, telephone lines, trees, and homes damaged in Kansas City, and farm buildings in rural areas damaged.
30. Dec. 18	12:30 p.m	Lincoln	NE	1/4	100	0	1	4	1	Occurred at Truxton.
31. Dec. 18	12:58-3:20 p.m.	4St. Francois	NE	(a)	100	0	0	(a)	(a)	Occurred 2 to 3 miles east of Parmington.

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			•	S	S	Numb of pers			timated y catego		
			dvanc	path, miles	ı, yards						Remarks
State and date	Hour	County	Direction of advance	Length of pat	Width of path,	Killed	Injured	Property	of crops)	Crops	
MISSOURI (Cont'd)										,	Demolished buildings on farm 15
2. Dec. 18	2 p.m. M	adison	(a)	(a)	(a)	0	2		4		miles north of Fredericktown. Storm moved toward Libertyville.
3. Dec. 18	3-3:20 p.m.	Perry	(a)	(a)	(a)	0	0		5		15 to 20 buildings damaged, school lifted off foundation.
4. Dec. 18	4:45-4:55 C	Cape Girardeau	NE	15	750	.0	0		5		Moved from Millersville to Oak Ridge to Highway 61.
5. Dec. 18	5:35 p.m.	Scott	(a)	(a)	(a)	3	1		6	1	Storm hit in downtown Chaffee, dam- aging many business houses and a shoe factory.
6. Dec. 19	4:10-4:15 p.m.	Da de	NE	15	100	0	0		4	(a)	Funnel first touched ground 2-1/2 miles south and 1 mile east of Golden City, damaging several farm buildings. Lifted and dipped several times on path. Buildings on 5 farms in Golden City damaged. Witnesses
											report seeing several funnels.
MONTANA 1. July 7	Afternoon	Judith Basin	(a)	(a)	(a)	0		ı	2	1	Small tornado destroyed machine shed 3 miles east of Utica.
NEBRASKA 1. Apr. 18	4:45 p.m.	Sheridan	(a)	8-10	880	0		0	5	1	Occurred 28 miles south of Clinton. Funnel observed.
2. Apr. 18	Late evening	Box Butte	(a)	(b)	(c)	0		0	' 3	1	Destroyed 1/2 mile of powerlines over sparsely settled terrain 20 miles northeast of Alliance.
3. Apr. 19		Hitchcock	NE	(b)	50	c	ı,	0	(e)	1	Set of farm buildings damaged 6 miles southwest of Culbertson.
4. Apr. 19	7 p.m.	Madison	NE	8	65		)	0	3	1	Moved from 6 miles southwest of Tilden to north of Meadow Grove.
5. Apr. 19	8:30 p.m	Madison	NE	2	17		)	0	2	1	Occurred 2 to 4 miles southwest of Norfolk. Funnel observed.
		L	(a)	(b)	(c)		0	0	4		Occurred at Grant.
6. Apr. 22 7. Apr. 22	11:30 a.m	Hitchcock	(a)	(b)	(c)		o	0	(d)	1	Small granary upset near Palisade. Funnel observed.
8. Apr. 25	6-8:45 p.r	n. Seward to Douglas	ENE	80	200-400	)	1	18	6	(d)	ing to south of Omaha. Most damage at Milford.
9. Apr. 25	6:40-7:3	5 Clay and Fill more	- ENE	35	100-22	0	0	0	5	(d)	Destroyed several sets of farm build- ings from near Edgar to east of Exeter.
10. May 9	3:30-3:4	5 Otoe	NE	10	100		0	0	4		Several sets of farm buildings dam- aged in path from Burr to Syracuse.
11. May 13	p.m. 1:45 p.m	. Red Willow	NE	(b)	(c)		0	0	1		Touched ground only in open field 5 miles southwest of Lebanon.
		9	E	2	(c)		0	0	3		Occurred south of Papillion.
12. May 13	6:45 p.m		(a)	(b)	(c)		0	0	(d)		1 Occurred south of Omaha.
13. May 13	7 p.m.	Douglas	(a)	(b)	(c)		0	0	3		1 Occurred southwest of Gretna.
14. May 16	Noon	Sarpy n. Scotts Bluff	NE	(b)	(c)		0	0	1		1 Observed over open range 7 miles east of Minatare.
15. May 19	6:30 p.m.	Cheyenne	NE	2	(c)		0	o	,	•	1 Farm buildings destroyed 1 mile west of Gurley.
16. May 19	9:30-10		(a)	(b)	(c	)	0	0			1 Occurred 6-1/2 miles west of Bayard.
17. May 15	p.m.	m. Webster	N	(b)	(c	)	0	0	(d	)	1 Struck little of value northeast of Red Cloud.
19. May 20	2:13-2:	20 Custer	NE	(b)	(c	)	0	0	(d	)	1 Struck little of value northeast of Broken Bow.
20. May 20	p.m. 2:20 p.	m. Nuckolls	NE	(b)	(c	)	0	0		1	Observed over open field east of Guide Rock.

TORNADO DATA

	-		90	miles	yards	Nun of pe	nber			imated	damage ries †		
State and date	Hour	County	Direction of advance	Length of path, mi	Width of path, ya	Killed	Injured	Property	(exclusive	of crops)	Crops		Remarks
NEBRASKA (Cont'd) 21. May 20	Afternoon	Custer	(a)	(a)	(c)	0		0		3	1	COL	of path over sparsely settled natry 3-1/2 miles west of selmo.
22. May 20	3-5 p.m.	Thayer to Lan- caster	NE	70	(c)	C	)	0		5	(d)	or	sets of farm buildings destroyed damaged in path south of Hebron Malcolm.
23. May 20	5 p.m.	Gage	NNE	7	(c)	(	0	0		4	(d)	we	perty damaged in area 2 miles st of to 6 miles north of Adams.
24. May 20	5:08 p.m.	Hall and Hamilton	NNE	12	(c)		0	0		4	1	Ph	urred in area from Doniphan to
25. May 24	7:30 p.m.		(a)	(b)	(c)		0	0		3	1	of	curred 11 miles west-northwest Grant. Wed from Waco to Gresham.
	9:30 p.m.	York	NNE	5	(c)		0	0		3	(d)		
26. June 6		Scotts Bluff	(a)	(b)	(c)		0	0		3	1		curred 3 miles south of Gering.
27. June 10	5 p.m.		NE	(b)	(c)		0	0		3	(d)		curred north and east of Mouroe.
28. June 13 29. June 13	6:20 p.m. 6:25 p.m.		(a)	(b)	(c)		0	0		3		D	operty damaged 9 miles south of avid City.
30. June 15	12:15 p.m	.Adams	(a)	(b)	(c)		0	0		2		H	rage demolished southwest of astings.
31. June 15	2 p.m.	Pawnee	E	(b)	(c)		0	0		(e)	(d)	e	rge barn destroyed 6 miles north- east of Burchard.
32. June 15	8-8:30 p.	m. Seward	NE	15	(c)		0	0		4			oved from Beaver Crossing to Seward.
33. June 15	8:30-9:3 p.m.	O Saunders and Douglas	NE	21	(c)		0	0		4	(d		oved from Ithaca to Bennington. arge barn demolished 1 mile north
34. June 15	Evening	Lancaster	(a)	(b)	(c)	)	0	0		(e)			of Agnew.
35. June 16	Midnight	- Furnas	ENE	15	(c	)	o	0		4			few farm buildings destroyed south and east of Beaver City.
36. June 21	2 a.m. 6:15 p.r	n. York	ENE	6	(с	)	0	0		5	(4		buildings on 1 farm destroyed and damaged on 15 other farms from Waco to Utica.
37. June 21	6:30 p.	m. Butler	NE	1	12	10	0	0		2			turkey houses destroyed 4 miles west of Bellwood.
38. June 21	6:52 p.	m. Saunders	NE	(p)	(0	:)	0	0		1			Observed over open fields north of Valparaiso.
39. June 27	7 p.m.	Nuckolls and Thayer	ENF	10	(0	2)	0	0		4	•		2 sets of farm buildings badly damaged.
40. June 27	7:05 p.	m. Thayer and Fillmore	NE	(p)	(	c)	0	0	)	1			Tornado touched ground briefly.
41. July 2	5:15-5: p.m.	30 Frontier	NW	5	8	80	0	C	)		•		Property and ripening wheat destroyed 9 miles southwest of Curtis.
42. July 2		.m. Cuming	(a	) (p)	(	e)	0	(	0	(d			Hog house moved 50 feet, turned around and set down, near Wisner.
43. July 3	8 p.m.	Keith	N	(b)	(	(c)	0		0		3		Occurred 6 miles south-southeast of Roscoe.
	0.20	.m. Custer	NN	E (b)	(	(c)	0		0	(e	)		Occurred near Callaway.
44. July 3			(a	(b)		33	0		0		4		Occurred 2 miles east of Maywood.
45. July 4 46. July 7		p.m. Frontier	E			(c)	0		1		5		Tornado with hailstorm. Property damaged by tornado.
47. July 12	p.m. 6:38 p	o.m. Frontier	(1	(b)		(c)	0		0		1		Struck nothing of value 32 miles northeast of McCook.
		p.m. Platte	(	a) (b)	)	(c)	0		0	(	d)		Occurred at Duncan.  3 funnels touched ground southwest
48. July 19 49. July 19 50. July 19	5-6 p 5-6 p	.m. Hamilton	N N	1:	2	(c) (c)	0		0		4	4	of Aurora.
50. July 19 51. July 19 52. Aug. 15	5-6 p	.m. Hamilton	N (	a) (a		(a)	0		0		2	1	Property damaged south of Battle Creek.

TOLOCUL-I

	amage es †	ted da	Estimate by cate	ersons		ards	miles	vance					
Remarks	Crops		Property (exclusive of crops)	Injured	Killed	Width of path, yards	Length of path, miles	Direction of advance	County	lour	Н	State and date	
	<u>ට</u>	(	4 e 4		+-						d)	EBRASKA (Cont'd	NI
Observed over open field near Superior.	(d)		(d)	o	0	(c)	(b)	(a)	kolls	N	(a)	Aug. 16 EVADA (None)	NE
												W HAMPSHIRE	NE
everal small, short-lived funn	1 5		3	0	0	(a)	(a)	SE	sboro	.m. H	5-6 p.	ay 10	
seen at Milford, 1 dipped mucl of way to ground.			4	1	0	75	1/4	E	ingham	1:37 Ro	1:35-1 p.m.	une 19	2. J
Steel screen of drive-in theat destroyed and 100 speaker post set in cement blocks) downed. Soy carried 40 feet not seriou urt.									ingham	Ro	2 p.m.	ine 19	3. Ju
terspout observed off shore a oast. Apparently developed fome squall that spawned Newin .H., tornado about 25	1 W		1	0	0	(a)	(a)	(a)	Suam			JERSEY	NRW
arlier.	•						t/				2.00		1. No
all twister dipped through 2-trea in business district of Bo f Washington, moved aloft, and truck 1-block area in housing clopment 1/2 mile away. Sever mage to framework of 1 store,	o s v		5	0	0	150	1,300	ENE	n E	.m. War	3:03 p.		
ofs blown off, and many windo it, mainly in business area.								1			3	MEXICO	. Apr
Causey, 4 separate funnels re General storm moved eastwar t tornado that caused damage most in circle	bu		4	0	0	40	1/4 1/4 1/4 1/4		velt E E elt E	Roos Roos Roos	3 p.m. 3 p.m. 3 p.m. 3 p.m.	. 21 3 . 21 3 . 21 3	. Apr . Apr . Apr
age in Farmington confined to ock. Death occurred about 17 thwest of city when the confined to	1 Dam bl	1	4	0	1	(a)	(a)		on SE		6:20 p.m	.	. May
nel aloft much of time. Structured at intervals between Grie	5 Fun gr an	5	5	0	0	35	40		NE	Curr	la.m.		
el sighted 12 miles	Funi	1	1		0 (	(a)	a)	(	B	. Quay	:30 p.m.	27 5:	May
land, on ground short time in a country.  pen country 20 miles south of	оре		1	0	0	(a)	)	(a	'e SE	n.Santa	2:20 p.m		May 3
ta Fe.  Den country 7 miles northwest			1	)	0	(a)	a)	(4	e SE		45 p.m.		May 3
en country 8 miles count	In o		1		0 0	(a)	1)	(a	NW	Linco			May
nice, 3 separate funnels ob-	At E		1		0	(a) (a) (a)	)	(a (a (a	ESE ESE ESE	Lea Lea	39 p.m. p.m. 30 p.m.	30 30 7:3	May
p.m., all over open country.	7:30		1		0 (	(a)	)	(a	E	Valenc	15 p.m.	ļ	May :
en country 20 miles south- hwest of Albuquerque.					0 0	50	8		ENE	Grant			Oct.
damage at Silver City Airport	8 mil	1	5		0 0	(a)	)	(a)	(a)	Sandov	30 р.ш.	3:30	Oct.
on ground only shor	time				0 0	(a)	,	(a)	(a)	Sandov	30 р.ш.	1:30	Oct.
es south of Cabezon over open ry. On ground only about 5 es.	20 mi coun minu	1	1										

			8	miles	yards	Num of pe		Estimated by categor		
State and date	Hour	County	Direction of advance	Length of path, mi	Width of path, yar	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
NEW YORK										
1. Apr. 25	6:15 p.m.	Erie	NE	1/2	15	0	0	3	1	2 funnel clouds oberved, 1 hit ground in Cheektowaga and South Newstead areas.
NORTH CAROLINA										
1. Jan. 29	5:15 p.m.	Iredell	E	1,000	150	0	0	3	1	Statesville Airport hangar damaged, trees up to 10 inches in diameter broken off.
2. Apr. 5	4:30 p.m.	Camden and Pasquotank	ENE	6	35	0	0	4	1	Crossed lower Pasquotank and Camden Counties. I farmhouse unroofed and several buildings demolished.
3. Apr. 5	6:10 p.m.	Yadkin	E	5	50	0	0	4	1	Path from western part of county to western edge of Yadkinville, blowing down trees, breaking powerand telephone lines, and demolishing a number of outbuildings.
4. Apr. 5	8:35 p.m.	Guilford	ENE	5	50	0	1	5	1	Destroyed or damaged about 12 houses, numerous outbuildings, trees, antennas, roofs, and chimneys in High Point area.
*5. Apr. 8 6. Apr. 8 7. Apr. 8	7:30-9 p.m  Ditto Ditto	Bladen, Cumber- land, Duplin, Hoke Robeson, Sampson, and Scotland Ditto	ENE ENE	100	25-300	4	114	6		Group of 3 tornadoes. First crossed from South Carolina into Scotland County near Johns; did considerable damage northeast of Maxton. Touched ground at St. Pauls, moved to near Roseboro where deaths occurred and 40 of the injuries. Second tornado in
т. арг. о			BNB							Pembroke vicinity where 21 persons injured. Third tornado struck with greatest intensity in rural community west of Rosehill.
8. Nov. 8	6:30-7 p.m	.Bertie, Edge- combe, and Wilson	NE	40	100-200	0	5	5	4	Large school and 37 other buildings destroyed and many damaged.
NORTH DAKOTA										
1. Apr. 22	5:20 p.m.	Stark	NW	1/2	800	0	0	3	(d)	10 miles south of Belfield, garage, granary, and barn completely demolished.
2. May 1	5:20 p.m.	Burleigh	E	(a)	(a)	0	0	1	1	8 miles north of Wing, tornado ob- served to have touched ground 4 times.
3. May 1	5:45 p.m.	Burleigh	E	(a)	(a)	0	0	(a)	(a)	Occurred 10 miles northeast of Wing.
4. June 5	(a)	Ransom	(a)	(a)	(a)	0	0	3	4	House and barn damaged 11 miles southeast of Verona.
5. June 20	6:15 p.m.	Dickey	E	2	30	0	0	4	1	Near Oakes, 2 funnels seen. Airplane and hangar destroyed. Roof of lumber company ripped off. Houses and garages damaged. 25 to 30 trees uprooted.
6. June 20	6:30 p.m.	Cass	S	(a)	(a)	0	0	(a)	(a)	Occurred 10 miles southwest of Fargo.
*7. June 20	6:40 p.m.	Cass	ENE	30	500	10	103	7	1	Tornado first seen 30 miles west of Fargo at Wheatland, than at Casselton. Tornado struck in northwestern Fargo, destroying nearly all property in area of 5 city blocks wide and 20 blocks long. 1,364 homes damaged or completely destroyed. No damage reported west of Fargo, but damage occurred after crossing State line into Minnesota. Many lives saved by Weather Bureau warnings.
8. July 11	3:56 p.m.	Grand Forks	(a)	(a)	(a)	0	0	1	1	2 miles west of Grand Forks, tornado apparently touched ground several times.
9. July 16	4:34 p.m.	Williams	(a)	(a)	(a)	0	0	(a)	(a)	Occurred 15 miles northwest of Williston; funnel seen.
10. July 16	8 p.m.	Burleigh	(a)	(a)	(a)	0	0	3	1	2 miles north of Wing, several small sheds damaged or destroyed.

			Ince	niles	urds	Num of per		Estimated by catego		
State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
NORTH DAKOTA (Cont	tel)		-							
11. July 16	9:45 p.m.	Griggs	(a)	(a)	(a)	0	0	4	3	Near Walum, house sucked up and dropped with heavy damage. Several barns, garages, and granary de- stroyed.
12. Aug. 12	8 p.m.	Rausom	SE	1/2	34	0	0	4	2	Destroyed warehouse and several other buildings, and grain bins blown down. Touched southeast corner of Englevale.
13. Aug. 14	7:15 a.m.	Wells	(a)	(a)	(a)	0	0	4	3	7 miles northeast of Fessenden, barn, garage, granary, and brooder house destroyed all on 1 farm.
OHIO										
1. May 14	2:40 p.m.	Wayne	NE	(b)	(c)	0	3	5	(e)	In Wooster area, major damage in business section. Bank building unroofed, 3 persons injured when roof crashed into building.
2. June 11	3:20 p.m.	Champaign	(a)	(a)	(a)	0	0	(a)	(a)	At north Lewisburg, score of trees damaged and 1 residence unroofed.
3. June 11	4:20 p.m.	Knox	ENE	1/2	100	0	0	4	1	At Centerburg, buildings unroofed, trees broken, and structural damage from explosive effect.
4. July 4	6:55 p.m.	Williams	ESE	4	100	0	5	5	(e)	Southeast of Bryan, 2 homes destroyed, 10 others damaged. Buildings, trees, and powerlines damaged at many points along path.
OKLAHOMA										
1. Jan. 21	6:55 p.m.	Muskogee	NE	5	400	0	0	4	1	Suspected tornado destroyed service station, farmstead, and outbuildings in Warner. Loud roar heard.
2. Jan. 22	3:30-4:15 a.m.	Pottawatomie, Seminole, Hughes, Okfuskee, and McIntosh	NE	60	450	0	0	4	1	Tornado skipped along path from St. Louis through Wewoka, Wetumka, and Weleetka to Ryal. Rapid passage of terrible roar reported. Con- siderable damage resulted along path.
3. Jan. 22	6 a.m.	Haskell and Sequoyah	NE	5	50	10	21	5	1	Suspected tornado struck Hoyt, Haskell County, damaging 9 homes. Complete destruction along narrow path. 8 homes destroyed, 15 damaged, 12 buildings destroyed, and 6 damaged. 37 families suffered losses. Probably same tornado whi struck Gans where 8 persons killed and 21 injured.
4. Apr. 2	3:30 p.m.	Jefferson	N	2	(a)	0	0	3	1	Suspected tornado damaged several homesteads 2 miles north of Ringli
5. Apr. 2	4:50 p.m.	Murray, Garvin, Pontotoc, and Seminole	NNE	60	400	0	1	4	(a)	Tornado formed southeast of Davis, moved on ground 12 miles from 4 miles northwest of Sulphur to sout of Stratford. Same tornado believe sighted aloft between Asher and Konawa. At least 18 homes and 10 barns damaged or destroyed. Injur resulted from flying debris.
6. Apr. 2	4:55 p.m.	Murray	NNE	2	600	1	2	5	1	Tornado struck on Highway 77, 15 miles north of Ardmore. Cars and trucks overturned, 340-foot TV tower destroyed, transmitter building unroofed, and utility poles broken off. Man killed when pickutruck blown from highway and destroyed. Transport truck picked uand whirled around.
7. Apr. 2	5:29 p.m.	Marshall	N	5	200	2	6	6	1	Tornado moved from over Lake Texhor Destroyed fishing camp at Cumberla then moved through 2 oil refinery camps near Little City. 15 homes destroyed and both refineries sevely damaged.

			8	miles	ds	Num of per		Estimated by categor		
State and date	Hour	County	Direction of advance	Length of path, mi	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
OKLAHOMA (Cont'd)	)									
8. Apr. 2	5;58 p.m.	Bryan	NNE	7	200	3	3	5	1	In Calera and Durant areas, large drive-in theater and large stock barn destroyed. In southern Durant, 9 blocks received near total destruction and 20 blocks received damage. 135 homes and 25 business buildings destroyed or damaged. 2 persons killed and 3 injured when service station collapsed. All buildings at Southeastern State College damaged, with loss estimated at \$100,000. Another person killed at northern edge of town where house was lifted and exploded.
9. Apr. 2	6:30-8 p.m.	Jackson and Kiowa	NE	45	150	0	1	5	4	Tornado moved from 2-1/2 miles east of Altus, 1 mile west of Friendship, to near Roosevelt, and last reported just west of Mountain View. Numerous farmsteads destroyed or damaged near Friendship. Injury resulted when truck demolished.
10. Apr. 2	6:40 p.m.	Pottawatomie	(a)	(a)	(a)	0	0	1	1	Tornado reported on ground 3 miles west of Asher.
11. Apr. 2	7:05 p.m.	Jackson	NNE	8	100	0	0	4	(d)	Tornado formed southwest of Altus Air Force Base, moved over eastern portion of base, then over mostly open and uninhabited area.
12. Apr. 2	7:15 р.ш.	Choctaw	NNE	16	(a)	0	0	(e)	(a)	Tornado moved from near Grant to 4 miles east of Hugo to 10 miles northeast of Hugo. Many homes, outbuildings, and utilities damaged or destroyed.
13, Apr. 2	8:37 p.m.	Love	N	(a)	(a)	0	0	1	1	Ground Observer Corps reported torna at Thackerville.
14. Apr. 2	9 p.m.	Latimer and Haskell	N	25	880	0	2	4	4	Tornado moved from near Bengal to 1/mile east of Red Oak to McCurtain.  Many homes and outbuildings destroy ed or damaged. 2 injuries resulted at McCurtain where 26 homes and 6 barns destroyed or damaged.
15. Apr. 2	9:05 p.m.	Pittsburg	NE	10	440	0	0	4	3	Tornado demolished 2 homes and damaged business buildings, homes, and outbuildings in Halleyville. TV antennas and trees received heavy damage.
16. Apr. 2	9:30 p.m.	McCurtain	NE	9	880	0	0	4	1	Tornado cut path through forest 8 miles northeast of Broken Bow.
17. Apr. 2	9:50 p.m.	Le Flore	(a)	(a)	(a)	0	0	1	1	Tornado reported at Poteau.
18. Apr. 2	10:30 p.m	.Oklahoma	NE	(a)	(a)	0	0	1	1	Tornado touched ground momentarily in wheat field on northern edge of Oklahoma City.
19. Apr. 2	P.m.	Love	(a)	(a)	(a)	0	0	(a)	1	House swept away, indicating possible tornado at Courtney.
20. Apr. 3	12:15 a.m	Lincoln	NNE	(a)	(a)	0	0	1	1	Ground Observer Corps reported funne on ground at Davenport.
21. Apr. 18	7:45 p.m.		NNE	(a)	(a)	0	0	1	1	south of Waynoka.
22. Apr. 18	9:30 p.m.	Harmon	NE	1-1/2	200	0	0	4	(d)	Suspected tornado at Hollis sucked out windows, damaged buildings, etc
23. Apr. 19	1:40 a.m.	Tulsa	NE	(a)	(a)	0	0	3	1	Tornado touched ground on northern edge of Tulsa where home damaged and 20-foot diving tower, TV antennas, and wooden fence destroyed.
24. Apr. 19	1:45 a.m.	Washington	NE	8	400	0	0	4	1	Tornado destroyed several farmsteads in rural area 4 miles south of Ramona.
25. Apr. 19	P.m.	Sequoyah	NE	(a)	(a)	0	0	(e)	1	Suspected tornado destroyed 2 farm- steads near Sallisaw.

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State and date	Hour	County	Direction of advance	of path,	of path,	7	P	operty cclusive crops)		Remarks
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OKLAHOMA (Cont'd)										
6. Apr. 20	1:40 a.m.	Ellis	SE	(b)	(c)	0	0	2	1	Tornado dipped down momentarily on farm 3 miles northwest of Arnet.
7. Apr. 20	6:30 p.m.	Stephens	SE	(a)	(a)	0	1	3	1	Tormado touched ground 6 miles west of Duncan. Farmstead damaged. 1 person injured when house trailer blown over.
8. Apr. 22	6 p.m.	Jackson and Greer	NE	(a)	(a)	0	0	(a)	(a)	Suspected tornado caused spotted damage from 6 miles south of Duke, at Fairview, and 9 miles east of Mangum. Outbuildings destroyed and houses twisted on foundations.
9. Apr. 22	7:01 p.m.	Washita	(a)	(a)	(a)	0	0	(a)	1	Barn and shed destroyed as tornado dipped momentarily southwest of Sentinel.
0. Apr. 22	8 p.m.	Alfalfa	NE	(b)	50	0	0	3	1	
31. Apr. 22	8 p.m.	Caddo	NE	1	200	0	1	5	. 1	Tornado moved across Carnegie, causing extensive damage. 1 injury resulted when pickup truck lifted in air and smashed to ground on its top.
32. Apr. 22	8-10 p.m.	Caddo, Blaine, Canadian, Kingfisher, and Logan	NE	80	(a)	0	0	5	5	Suspected tornado caused irregular damage and destruction over parts of 5-county area. Heavy damage between Binger and Eakly, near Lookeba, and north and west of Calumet.
33. Apr. 22	9 p.m.	Kingfisher	NE	4	200	0	0	5	1	Tornado believed to have passed over Kingfisher just above ground. De- struction spotty along path. At least 6 homes in Kingfisher and barn northeast of Kingfisher heavil damaged.
34. Apr. 22	10 p.m.	Kay	ENE	(a)	(a)	0	0	4	1	Tornado believed to have touched ground 3 miles northeast of Ponca City where trailer park and farmstead damaged.
35. Apr. 22	11:04 p.m	.Creek	(a)	(a)	(a)	0	0	1	1	Ground Observer Corps reported tor- nado on ground at Drumright.
6. Apr. 22	11:30 p.m	Tulsa	(a)	(a)	(a)	0	0	1	1	Reported near Bixby.
37. Apr. 22	11:40 p.m	.Carter	(a)	(a)	(a)	0	0	(e)	1	Boathouse destroyed on Lake Murray.
38. Apr. 22	P.m.	Lincoln	NE	(a)	800	0	0	(e)	1	Trees and farmsteads damaged 12 miles southwest of Stroud.
39. Apr. 23	1:05 a.m.	Sequoyah	NE	18	(a)	0	0	(e)	1	Suspected tornado blew out plate- glass window in Gore. Farmstead damaged 8 miles north of Vian and 3 buildings heavily damaged at Rocky Point near Marble City.
40. Apr. 25	10 p.m.	Creek	NNE	(a)	(a)	0	0	1	1	Tornado sighted on ground at Kiefer
41. Apr. 25	10:05 p.m	.Hughes	NE	2	200	0	0	5	1	First sighted 25 miles southwest of Holdenville, next as it passed just above ground over Holdenville. Ove 40 homes damaged and two-thirds of business district received heavy damage.
42. Apr. 25	10:35 p.m	.Okfuskee	NNE	9	100	0	0	4	1	Hit and miss damage noted along path 2 miles east of Okemah.
13. Apr. 25	11:12 p.m	.Rogers	NE	(b)	50	0	0	3	1	Suspected tornado damaged 2 farm- steads near Claremore.
14. May 10	2:16 a.m.	Tillman	SE	(a)	(a)	0	0	1	1	Highway Patrol reported tornado momentarily on ground southwest of Frederick.
15. May 12	Night	Caddo	(a)	(a)	(a)	0	0	(d)	1	12 miles south of Carnegie funnel reached down to roof-top level, taking off part of barn roof.
46. May 15	5:10 p.m.	Kingfisher	(a)	(a)	(a)	0	0	1	1	Sheriff reported tornado 6 miles southwest of Dover. Evidently hit in open country.

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State and date	Hour	County	Direction of advance	Length of path, m	Width of path, ye	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
OKLAHOMA (Cont'd)	5:30 p.m.	Kingfisher	w	(b)	500	0	0	3	1	Barn destroyed and house damaged near Dover.
48. May 16	12:32 a.m.	Ellis	N	6	200	0	e	3	1	House and machinery damaged, out- buildings destroyed, and car wrecked 7 miles west of Arnett.
49. May 20	5 p.m.	Pawnee	NE	1/2	100	0	0	(d)	1	Small tornado damaged roof of house north of Pawnee.
50. May 20	5:45 p.m.	Osage	NE	(a)	(a)	0	0	4	1	Warehouse destroyed and equipment inside damaged. Iron girders twisted. Occurred at Hominy.
51. May 20	6 p.m.	Lincoln	NE	(a)	(a)	0	0	(e)	(e)	Extensive damage to at least 8 farmsteads near Prague.
§2. May 20	7 p.m.	Creek	(a)	(a)	(a)	0	0	(e)	1	Tornado moved south and east of Sapulpa. Outbuildings destroyed and a cow killed.
53. May 20	7 p.m.	Nowa ta	(a)	(a)	(a)	0	0	(e)	1	500 yards of fence ripped up and oil tank blown into gully 7 miles west of Nowata.
54. May 20	7:30 p.m.	Tulsa	NE	3	500	0	0	5	1	Tornado formed over Broken Arrow and bounced across city. About 200 homes received variable damage. Outbuildings destroyed and cars and trees blown over.
55. May 20	8:04 p.m.	Okmulgee	NE	(a)	(a)	0	0	1	1	Ground Observer Corps reported tor- nado on ground 3 miles southwest of Beggs.
56. May 20	10:30 p.m	.Rogers	NE	(a)	(a)	0	0	(e)	1	Suspected tornado caused extensive damage to several farmsteads and buildings in and near Chelsea.
57. May 20	11 p.m.	Mayes	NE	(a)	200	0	1	(e)	(d)	Tornado passed aloft over Pryor, struck farmstead 3 miles southwest of Spavinaw, moved through city and struck several farmsteads to northeast. Injury occurred in Spavinaw when house collapsed.
58. May 20	P.m.	Craig	(a)	(a)	(a)	0	0	(e)	1	Suspected tornado caused extensive damage on ranch west of Centralia.
59. May 20	P.m.	Craig	(a)	(a)	(a)	0	0	(e)	(e)	Suspected tornado damaged 3 barns northeast of Vinita.
60. May 22	6 a.m.	Comanche	(a)	(a)	(a)	0	0	1	1	Tornado reported at Chattanooga.
61. May 22	6:15 a.m	. Kiowa, Washita, and Caddo	NE	15	(a)	0	0	4	4	Tornado believed to have passed aloft over Mountain View, sucking out several plate-glass windows. First reported on ground 5 miles northeast of Mountain View. Considerable damage to farmsteads in path. Home nearly destroyed in Eakly.
62. May 22	6:38 a.m	. Kay	Е	2	25	C	) (	2	1	Tornado traveled through mostly open country. Light damage on 1 farm at Ponca City.
63. May 22	8 a.m.	Oklahoma	NE	2	50	0	) (	4	1	All buildings damaged on 1 farm southwest of Luther. Outbuildings, trees, and utilities damaged in Luther.
64. May 22	8 a.m.	Noble	NE	(p)	100	(	)	0 3		Tornado dipped momentarily in Perry damaging 1-block area.
65. May 22	8:58 a.m	. Payne	NE	(a)	(a)	(	)	0 (a)		Civil Defense reported tornado 6 miles north of Yale.
66. May 22	A.m.	Kiowa	(a)	(a)	(a)	(	0	0 (e)		1 Farmstead 6 miles west of Mountain Park damaged.
67. May 22	A.m.	Canadian	(a)	(a)	(a)		0	0 3		1 Farmstead damaged 5 miles southeast of Yukon.
68. May 22	A . m .	Lincoln	(a)	(a)	(a)	(	)	0 (e)		Suspected tornado lifted and de- molished garage and unroofed barn near Tryon.

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State and date	Hour	County	Direction of advance	Length of path, mi	Width of path, yar	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
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OKLAHOMA (Cont'	d)									
59. May 22 70. May 22	8:30 p.m. 8:30 p.m.		(a) (a)	(a) (a)	(a) (a)	0	0	1	1	Ground Observer Corps reported 2 tornadoes, 1 and 2 miles south of Muldrow.
71. May 24	10:40 a.m.	.Bryan	(a)	(a)	(a)	0	0	4	1	Suspected tornado struck boat dock at Willow Springs on Lake Texoma.
72. May 24	4:30 p.m.	Tillman	NNE	12	(a)	0	0	4	(e)	Tornado moved from 3 miles south of Davidson to 3 miles south of Frederick. Several farmsteads damaged and utility lines and poles knocked down.
73. May 24	5:30 p.m.	Cotton and Comanche	NE	22	880	4	5	(e)	(e)	Tornado moved from near Apheatone to south of Lawton. At least 12 homes destroyed and many farmsteads damaged or destroyed. 4 persons killed when 2 homes destroyed. Up to 70 head of cattle and a number of chickens killed. 5 cars completely demolished.
74. May 24	6-7:45 p.m.	Garvin and Pottawatomie	NNE	48	440	0	0	5	(e)	Tornado formed and dipped down sout west of Wynne Wood and destroyed barn, moved over Wynne Wood at tre top level and caused heavy damage oil refinery. Next hit was Walker School area southeast of Pauls Valley where school, 5 houses, and many outbuildings damaged or destred. Tornado then moved mostly alo through open country until it toue ed down south of Wanette. Hit Wanette at 7:10 p.m., then turned northward to 6 miles northwest of McComb. Heavy damage to complete destruction noted in and north of Wanette.
75. May 24	8 p.m.	Comanche	(a)	(a)	(a)	0	0	1	1	Tornado sighted in mountains of Wild Life Refuge.
6. May 24	10 p.m.	Ottawa	NE	1	1,000	0	0	4	1	Tornado caused damage in Quapaw and east of Picher.
7. May 24	10:20 p.m	.Stephens	NE	(a)	(a)	0	0	(e)	1	Tornado hit 1-1/2 miles southwest of Duncan, moved through 12-block-lor path of city, causing general dama \$5,700 trailer house near total 1
78. May 24	10:25-11:10 p.m.	Ookmulgee and Muskogee	(a)	(a)	(a)	0	0	1	1	Ground Observer Corps at 10:25 p.m reported tornado near Morris and at Boynton at 11:10 p.m.
9. May 24	11:43 p.m	.Okmulgee	(a)	(a)	(a)	0	, 0	1	1	Highway Patrol reported tornado 12 miles southeast of Henryetta.
O. May 24	11:45 p.m	.McIntosh	(a)	(a)	(a)	0	0	1	1	Tornado reported 9 miles north of Eufaula.
31. May 24	P.m.	Stephens	(a)	(a)	(a)	0	0	(e)	(e)	
32. May 24	P.m.	McClain	(a)	(a)	(a)	0	0	(e)	(e)	Suspected tornado damaged farmstead southwest of Purcell and another north of city.
33. May 25	12:05 a.m	.Johnston	NE	1	200	0	0	4	1	Roof of new school blown off and homes, outbuildings, and trees da aged at Coleman.
4. May 25	12:10 a.m	.Coal	(a)	(a)	(a)	0	0	(e)	1	Suspected tornado caused damage to farmstead near Lehigh.
5. May 25	12:15 a.m	Pontotoc and Hughes	NE	12	150	0	0	3	1	Tornado moved from 5 miles southea of Allen to Atwood. Damage result to homes, business buildings, and farms.
36. May 29	8:15 p.m.	Ellis	NE	(a)	(a)	0	0	1	1	Highway Patrol reported tornado 14 miles west of Arnett. Evidently traveled over open country.

			ace	miles	şp	Num of per		Estimated by categor		
State and date	Hour	County	Direction of advance	Length of path, mi	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
OKLAHOMA (Cont'd)	)									
87. May 29	11:37 p.m.	Кау	N	(a)	(a)	0	0	1	1	Filter Center reported tornado on ground 6 miles west of Ponca City.
88. May 30	4:15 p.m.	Garvin	E	(a)	(a)	0	0	1	1	Ground Observer Corps reported tor- nado 3 miles east of Elmore City.
89. June 12	12:30 a.m.	Washington	NE	(b)	(c)	0	0	1	1	Tornado dipped down momentarily at Dewey.
90. June 12	4:45 a.m.	Lincoln	NE	6	440	0	0	3	1	Tornado destroyed 20 outbuildings and damaged homes, utilities, etc., in Agra.
91. June 12	4:55 a.m.	Payne	NE	7	(a)	0	0	(e)	1	Tornado damaged several farmsteads 4 miles southwest of Stillwater, lifted and traveled aloft over southern edge of Stillwater, and came down again 3 miles east, damaging several more farmsteads.
92. June 12	7:40 a.m.	Mayes	ENE	(a)	(a)	0	1	4	1	Suspected tornado damaged 2 trailer houses and several farmsteads from Adair to Pensacola. Injury resulted when trailer house blown over.
93. June 12	A.m.	Canadian	(a)	(a)	(a)	0	0	(e)	1	Western half of concrete-block house blown away 6 miles west of Calumet.
94. July 1	2 a.m.	Tulsa	(a)	(a)	(a)	0	0	(e)	1	Tornado dipped down, destroyed re- vival tent and broke many of the 2,000 chairs at Sand Springs.
95. July 1	2:20 a.m.	Tulsa	NE	(a)	(a)	0	0	4	1	Tornado dipped down to tree-top level and moved across southern edge of Tulsa. Considerable damage re- sulted in shopping center and sur- rounding area.
96. July 1	A.m.	Creek	E	(a)	(a)	0	0	1	1	Suspected tornado lifted automobile off highway into ditch 8 miles east of Drumright.
97. July 20	P.m.	Carter	(a)	(a)	(a)	0	0	(e)	1	Possible tornado damaged house and outbuildings at Healdton.
98. Aug. 14	4 p.m.	Sequoyah	NE	5	(a)	0	0	(e)	1	Tornado moved about 20 feet above ground over Hanson, causing damage to homes, buildings, trees, utili- ties, etc.
99, Aug. 14	5:30 p.m.	Mayes	(a)	(a)	(a)	0	0	(e)	1	Tornado struck farmstead 7 miles southeast of Pryor.
100. Aug. 14	6 p.m.	Delaware	NW	3	880	0	0	3	1	Tornado moved off of Grand Lake and damaged properties near Ketchum.
101. Sept. 14	5:30-8 p.m	.McClain, Cleveland, Pottawatomie, Seminole, and Hughes	ENE	70	800	2	6	5	•	Tornado formed in vicinity of Wayne. First evidence on ground in southern Cleveland County where 3 barns destroyed and crops flattened. Worst hit was 7-mile path near Sacred Heart at 6:55 p.m. 2 persons killed and 6 injured in 3 homes completely destroyed. Extensive heavy damage reported throughout area. Last damage noted at Butner School and in Wetumka.
102. Sept. 14	5:56 p.m.	Pottawatomie	Е	5	400	0	3	5	4	Tornado reported to have twin funnels struck Bethel community, 5 miles west of Shawnee. School buildings, 15 to 20 homes, and numerous outbuildings destroyed or damaged. 3 persons severely injured in destroyed homes.
103. Sept. 14	P.m.	Hughes	(a)	(a)	(a)	0	0	1	1	Highway Patrol reported tornado on ground 10 miles east of Wewoka.
104. Sept. 20	5:30 p.m.	Custer	NNE	(a)	(a)	0	0	(e)	(e)	Tornado dipped to ground just west of Clinton.
105. Sept. 20	10 p.m.	Stephens	E	(a)	(a)	0	0	1	1	
106. Oct. 13	5:20 p.m.	Beaver	(a)	(a)	(a)	0	0	1	1	Ground Observer Corps reported tornad

			ice	miles	sp.	Num of per		Estimated by catego		
State and date	Hour	County	Direction of advance	Length of path, mi	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
			Ä	.3	, X	2	In	P. 9. 40	ڻ ت	
OREGON 1. Apr. 12	Noon	Clackamas	NW	2-3	50	0	0	3	2	Near Clackamas, fir trees 18 to 36 inches in diameter twisted off 30 to 40 feet above ground. Large barn carried considerable distance and a number of farm buildings blown away.
2. Apr. 12	12:30 p.m	Gilliam and Morrow	E	15-20	100-400	0	0	2	(d)	Moved from southeastern Gilliam County to south-central Morrow County over mostly range land and large wheat fields.
PENNSYLVANIA										
1. Apr. 28	8 p.m.	Laucaster	(a)	(b)	(c)	0	0	4	1	Near Lancaster, tornado dipped to earth momentarily, but leveled large, cinder-block farm building.
2. July 8	11:59 p.m	.Westmoreland	E	(b)	(c)	0	0	4	1	In Rostraver Township, several small buildings destroyed and others considerably damaged.
3. Aug. 7	Afternoon	Lehigh	(a)	1,600	5	0	0	3	1	Near Allentown, large carnival tent ripped.
4. Aug. 21	2:30 p.m.	Cumberland	(a)	(b)	(c)	0	0	2	1	Near Harrisburg, small pavilion lifted about 20 feet into air, carried about 30 feet, and complete- ly destroyed as it hit ground.
5. Sept. 15	4 p.m.	Potter	NE	2	30	0	0	4	1	At Germania, numerous windows blown out, barn destroyed, and trees and utility poles sheared off at ground level.
6. Sept. 15	7 p.m.	Snyder	SE	(b)	(c)	0	2	. 4	1	Struck hangar at Penn Valley Airport near Selinsgrove, injuring 2 men and damaging 4 airplanes.
7. Sept. 21	6 p.m.	Erie	s	1/4	200	0	3	4	1	At Erie, widespread property damage. 3 persons injured by flying glass.
8. Nov. 19	12:20 p.m	.Lebanon	NE	2	14	0	0	4	1	In Palmyra area, barn and garage destroyed, automobile damaged extensively, roofs ripped off, and many TV antennas and utility poles twisted
9. Nov. 19	12:45 p.m	.Schuylkill	NE	(b)	(c)	0	0	5	1	At Pottsville, windows smashed, bill- boards leveled, and roof ripped from restaurant. Factory roof blown off, resulting in \$5,000 damage.
RHODE ISLAND (none)										
SOUTH CAROLINA	7.45 9.30		NAME	25	40	0	1	4		Part of squall system which crossed
1. Apr. 5	a,m.	Lexington	NNE	25	10		•	*		from Georgia, developing tornadoes. Tornado moved from south of Bates- burg to near Gilbert to northeast- ern edge of Lake Murray. I home destroyed, several damaged; large recreation hall damaged.
2. Apr. 5	8:14 a.m.	Newberry	NE	3	100	. 0	0	3	3	Part of squall system from Georgia. Tornado struck town of Prosperity.
3. Apr. 5	8:10 p.m.	Lancaster	NE	1	30	0	0	5	1	Severe damage to school at Lancaster
4. Apr. 8	4-4:30 p.m	n.Union	E	20	(a)	0	2	4	3	From Cross Keys to Santuc, 3 homes destroyed, 57 damaged; 67 other buildings destroyed.
*5. Apr. 8	5:50-7:30 p.m.	Lancaster, Chesterfield, and Marlboro	E	15	(a)	0	16	6	3	Struck near Flat Creek School, with more or less continuous path through Jefferson, north of Cheraw and Wallace and into North Carolina near Johns. 33 homes destroyed, 108 damaged, and 156 other buildings damaged or destroyed.
6. May 22	8:58 a.m.	Charleston	(a)	(a)	(a)	0	0	1	1	Waterspout moved inland near Charleston.
7. June 30	6 p.m.	Marion	NE	(a)	(a)	0	0	3	3	At Gapway community, barn destroyed, another barn damaged, and tobacco in fields damaged.

			90	miles	s p		nber rsons	Estimate by catego	d damage	YEAR 1957
State and date	Hour	County	Direction of advance	Length of path, m	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
SOUTH CAROLINA (Cont'd)					-					
8. July 6	11 a.m.	Charleston	(a)	(a)	(a)	0	0	1	. 1	Waterspout observed on Cooper
9. July 11	9 p.m.	Beaufort	NW	(a)	(a)	0	0	, 1	1	River. Waterspout apparently moved inland
SOUTH DAKOTA										near Hiltonhead.
1. Apr. 18	4:20 p.m.	Beadle	NE	(a)	(a)	0	0	4	(d)	South of Wolsey, 11 grain bins destroyed and 2 house trailers over- turned. Funnel indistinct.
2. Apr. 18	10:30 p.m	Tripp	(a)	(a)	(a)	0	0	3	1	2 farms damaged 10 miles southeast and 7 miles east-southeast of winner.
3. May 20	3 p.m.	Pennington	(a)	(b)	(c)	0	0	3	1	Barn destroyed near Rockerville.
4. May 25	2:45 p.m.	Codington	(a)	(b)	(c)	0	0	1		Occurred near Grover.
5. June 3	Evening	Perkins	SE	(a)	400	0	0	2		Telephone poles downed west of Bison.
6. June 8	Night	Harding	(a)	(a)	(a)	0	0	3		2 farm buildings demolished 3 miles east of Ludlow.
7. June 9	Afternoon	Bennett	(a)	(b)	(c)	0	0	1	1	Touched ground in pasture.
8. June 9	5:30 p.m.		NE	1	(c)	0	0	4		Pestroyed house and barn near Faulkton
9. June 10	1:40 p.m.		(a)	(a)	(a)	0	0	1		Funnel touched ground.
10. June 12	8:30 p.m.	Browa	SE	(a)	(a)	0	0	1	1	Touched ground only briefly 1 mile north of Aberdeen Airport.
11. June 13	1 p.m.	Marshall	SE	(b)	(c)	0	0	1	1	Touched ground briefly 6 miles south- east of Britton.
12. June 13 13. June 13	3:30 p.m. 3:30 p.m.		ESE ESE	(b)	(c) (c)	0	0	1	1	2 funnels touched ground briefly.
14. June 20		Faulk and Spink	ENE	(a)	(a)	1	0	4	1	Near Athol, woman fatally injured when house trailer blew over near Rockham; several barns destroyed and other buildings damaged.
15. June 30		Tripp	SE	(a)	(a)	0	0	4	1	Farm buildings demolished 4 miles west of Winner.
16. July 3	9:25 p.m.		ESE	(a)	(a)	0	0	5	4	Buildings in and near Kimball dam- aged.
17. July 14		Pennington	(a)	(b)	(c)	0	0	4	1	Struck in wooded area near Rochford,
18. July 14	7:30 p.m.		(a)	(b)	(c)	0	1	3		Woman bruised by flying debris. Shed and gramary destroyed at Vale.
19. Aug. 14	5:20 p.m.		SE	(a)	(a)	0	0	1	1	Touched ground twice.
20. Sept. 1	5:30 p.m.	Spink	NE	35	(c)	0	0	1	1	Touched ground in field east of Mellette. Straw could be seen around fringe of funnel.
TENNESSEE										
1. Jan. 22	4:30 p.m.		ENE	15	20-100	0	4	6	1	Moved from Belle Meade suburb to Donelson. I house and I church destroyed, 10 houses heavily dam- aged and numerous houses with minor damage.
2. Jan. 22		Wilson	(a)	(a)	(a)	0	0	(d)	1 8	Suspected tornado at Oakland School. 2 houses and barn deroofed, garage blown away, outbuildings damaged, and timber destroyed.
3. Jan. 22	6:30 p.m.		NE	(a)	10	0	0	(d)		Suspected tornado in Bethel com- munity. Barn demolished, roof blown from 1 house, 2 porches and roof damaged on second house.
4. Jan. 22	8:30 p.m.	arren aud Coffee	NE	5	30	0	0	5		t New Union, Fredonia, and Verville, 20 to 25 homes, a school, and barn damaged, chicken-coop factory level- ed, and several head of livestock crushed.

			nce	miles	ırds	Num of per		Estimated by catego		
State and date	Hour	County	Direction of advance	path,	Width of path, yards			9		Remarks
			Direction	Length of	Width of	Killed	Injured	Property (exclusive of crops)	Crops	
TENNESSEE (Cont	'd)									
5. Apr. 1	9:30 a.m.	Madison	(a)	(a)	(a)	0	0	3	1	Near Medon, part of walls felled and roof blown off cement-block farmhouse.
6. Apr. 4	1:10 a.m.	Henderson	(a)	(a)	(a)	0	0	(e)	1	Suspected tornado in Middle Fork community. 2 houses demolished, and 4 houses, several barns, and outbuildings damaged.
7. Apr. 4	1:15-2 a.m.	McNairy	NE	8	50	0	11	5	1	
		•								munity, 9 houses, 9 farm buildings, and 4 other buildings including cotton gin, service station, and grocery store destroyed; 13 houses and 5 farm buildings damaged.
8. Apr. 8	6 a.m.	Cumberland	E	3	(a)	0	0	3	1	Suspected tornado near Isoline. 3 barns, 5 houses, and many out- buildings damaged and many trees uprooted.
9. Apr. 8	P.m.	Washington (	(a)	(a)	(a)	0	0	3	,	Near Leesburg, roof blown from grain storage house, barn moved about 3 feet off foundation, house damaged by flying debris.
10. June 27	P.m.	Dyer	NW	3	30	0	0	3 *	1	Near Dyersburg, sawmill, barn, and several small outbuildings destroy- ed. Funnel seen.
11. July 4	10:30-1Q45 p.m.	weakley	E	2	1,320	0	0	4	,	At Martin, 2 paths of damage about 1/4 mile apart across city. Carnival ferris wheel felled, storehouse demolished, much roof and tree damage Funnel observed.
12. Nov. 8	2-4 a.m.	Giles	NE	4	100	0	0	3	1	In Pulaski and vicinity, barn and garage destroyed, wall blown from 1 house and roof and porch from another; much damage to roofs and TV antennas.
13. Nov. 18	4 a.m.	Montgomery	(a)	(a)	(a)	0	0	3	1	In Needmore community, 4-room house wrecked, porch blown off second house, many trees and utility poles sheared off or downed.
14. Nov. 18	4:30-4:35 p.m.	Fentress	NE	15	220	0	2	4	1	At Shirley, Armathwaite, and Mt. Helen, 2 barns demolished, 2 houses unroofed, another partly blown away 2 broiler houses demolished, and building blown 20 feet from founda- tion.
15. Dec. 19	9:15 p.m.	Gibson	(a)	(a)	(a)	0	0	(e)	1	Suspected tornado at Humbolt. Ware- house demolished, most of hotel roo and part of city hall roof blown of cotton gin severely damaged, and damage to several other buildings.
16. Dec. 19	9:20 p.m.	Gibson	(a)	(a)	(a)	0	2	4	1	Suspected tornado at Milan. Concret block garage destroyed, several oth buildings damaged. Possible contination of Humbolt storm.
17. Dec. 19	P.m.	Gibson	(a)	(a)	(a)	0	0	(e)	1	Suspected tornado in Sitka community 4 miles north of Milan. 4 tenant farmhouses wrecked. Possible continuation of Humbolt-Milan storm.
TEXAS  1. Feb. 16	1:30 p.m.	Cameron	NW	1-1/2	200	0	0	2	1	Small column extended from ground to cloud base, had appearance of very strong dust devil. 3 service poles damaged and 1 demolished 5 miles west of Harlingen.
2. Mar. 11	9 p.m.	Karnes	(a)	(a)	(a)	0	0	1	1	Hit in open country west of Zunker-ville.
3. Mar. 17	1:30-5 p.m	.Galveston	(a)	(a)	(a)	1	7	(a)	(a)	

			ance	niles	yards		mber	Estimate by categ	d damage	YEAR 1957
State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, y	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
TEXAS (Cont'd)										
4. Mar. 17 5. Mar. 17 6. Mar. 17 7. Mar. 17 8. Mar. 17	1:30-5 p. 1:30-5 p. 1:30-5 p.	n. Galveston Galveston Galveston Galveston Galveston	(a) (a) (a) (a) (a)	(a) (a) (a) (a) (a)	(a) (a) (a) (a) (a)				•	
9. Mar. 17		. Brazoria	E	£ 5	400	0	0	5	3	Occurred at Alvin.
10. Mar. 17		Jefferson	NNW	300	100	0	0	3	1	4 miles east of Jefferson County Airport, 1 house deroofed and 2 garages damaged. 1 lifted and turned 60° cyclonically.
12. Mar. 20	7:10 p.m.		NE	14	(a)	0	2	4	1	In Lincoln, Loebau, and Mahaw com- munities, church destroyed and roofs damaged.
13. Mar. 20	7:45 p.m.		NE	15	300	0	2	4	2	
	7:45 p.m.	Lee	NE	10	(a)	0	0	5	* 1	Destroyed homes and outhouses and damaged roofs, windows, etc., at Giddings.
14. Mar. 20	Evening	Kendall	(a)	(a)	(a)	0	0	3	(a)	Unroofed 100-foot chickenhouse, twisted windmill, caved in side- wall of rock dwelling at Sister- dale.
15. Mar. 31	7:55-8 a.m		NE	15	880	0	0	3	1	
16. Mar. 31	9:05 a.m.	Travis	NNE	1/2	100	0	0	5	1	Over small area, extensive roof damage and broken windows on northern edge of Austin.
17. Mar. 31	10:30 a.m.	Travis	NNE	(a)	(a)	0	0	4	1	Tore 40-foot wide gap in wall of all-brick school and downed trees
18. Mar. 31	12:30 p.m.		NE	2	100	0	2	4	(a)	and antennas at Pflugerville.  Occurred at Huntsville and in portions of Walker County.
	1:30 p.m.		E	1-1/2	30	0	0	3	(a)	Medium-size trees broken off 2 or 3 feet above ground and roofs blown off at Blessing.
20. Mar. 31 21. Mar. 31	4:10 p.m.		ENE	1	200	0	0	3	1	Minor surface damage as funnel touched ground intermittently in Bryan area and eastward. Funnel ill-defined.
21. Mar. 31	9:15 p.m.	Travis	(a)	(a)	(a)	0	0	2	1	Windmill, chickenhouse, and sheds
22. Mar. 31	(a)	Harris	(a)	(a)	(a)	0	0	4		damaged at McNeil.  Damaged at least 3 houses and knock- ed down 295-foot radio tower at Baytown.
23. Apr. 2	Midafter- (	Grayson	NW	(a)	(a)	0	2	4	(a)	2 houses blown down and 1 damaged, 2 barns destroyed and garages do
24. Apr. 2	3:25 p.m. N		NE	2	30	0	1	4	1	At Hines City, 9 miles north of Nocoma, 1 house and 1 business establishment blown away, church destroyed, 3 houses, warehouse, and garage of oil company damaged.
	3;50 p.m. T	arrant	N	1/4	50-65	0	0	3	1	Occurred 3 miles northeast of Grape- vine.
26. Apr. 2		rayson	NNE	(a)	(a)	0	0	4	1	miles west of Denison, 2 homes destroyed, 1 damaged, and several barns damaged.
See reference note		Grayson	NE	15	35	0	4	5		Barn shattered, contents scattered over 3-mile area. 2 homes destroyed, a number of homes, 1 church, and other buildings damaged, 1 warehouse blown away, trees mowed down, and hundreds of chickens killed. Occurred in Melissa, Anna, Howe, and McKinney areas.

			nce	miles	yards		nber rsons	Estimate by categ	ed damage cories †	
State and date	Hour	County	Direction of advance	Length of path, m	Width of path, ya	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
TEXAS (Cont'd)									A CONTRACTOR OF THE PARTY OF TH	
28. Apr. 2	4:30-5:10 P.m.	Dallas	*	21	100	10	200	6	1	Moved at about 25 m.p.h., from southwest outskirts of city to just west of Love Field Airport, northwest of Dallas, accompanied by heavy obscuring rain, loud roaring noise. Structures exploded when struck, debris carried aloft several hundred feet before falling. Estimated some 574 buildings damaged or destroyed, electricity knocked out in 75,000 homes, and 4,000 phones out.
29. Apr. 2	6:05 p.m.	Wheeler	SE	1/4	50-65	0	0	4	(a)	Farmhouse demolished, farm building destroyed, and livestock killed 1-1/2 miles north of Wheeler.
30. Apr. 2	6:15-6:40 p.m.	Wise	NNE	(a)	(a)	0	2	5	(a)	Damaged li houses, business estab- lishments, and National Guard can- teen. House lifted from founda- tion and slammed down on school. Roof of masonry building torn off. Occurred in Newark, Dido, and Boyo areas.
31. Apr. 2	6:30 p.m.	Denton	N	10-15	75	0	0	4	1	In Stony-Plainview area, dipped 3 times, damaged 2 barns and out- houses and removed part of house n
32. Apr. 2	6:30 p.m.	Lamar	(a)	(a)	(a)	0	0	4	(a)	In K-Bar Ranch area, I house destred, house and outbuildings badly damaged, also store and farm equiment.
33. Apr. 2	6:30 p.m.	Lamar	(a)	(a)	(a)	0	0	4	1	2 houses shattered at Ambia, 10 mi southwest of Paris.
34. Apr. 2	(a)	Cooke and Denton	(a)	(a)	(a)	0	0	(d)	1	Tornado observed.
5. Apr. 2	(a)	Delta	(a)	(a)	(a)	1	2	4	1	At Ben Franklin, 6 houses leveled and many damaged.
36. Apr. 3	10:28 a.m.	Harrison	(a)	(a)	(a)	0	0	1	1	Touched ground briefly 4 miles nor of Marshall.
7. Apr. 3	10:30 a.m.	Denton	N	(a)	(a)	0	0	1	1	Struck in open field 10 to 12 mile east of Denton.
38. Apr. 3	11:30 a.m.	Harrison	(a)	(a)	(a)		0	3	1	Damaged house roof, wrecked shed, uprooted trees, damaged 2 outbuil ings, and tore off garage roof 4 miles north of Marshall.
9. Apr. 3	Late a.m.	Morris	(a)	(a)	(a)	0	0	2	1	6 small farm buildings damaged and building destroyed 6 miles south of Daingerfield.
0. Apr. 3	12:45 p.m.	Orange	(a)	(a)	(a)	0	0	2	1	Ripped 50x40-foot section of roof off school 6 miles north of Oran
1. Apr. 3	1:30 p.m.	Shelby	(a)	2	(a)	O	0	3	1	1 house, 2 barns destroyed, and ma outbuildings damaged at Hurston, miles southeast of Center.
2. Apr. 3	(a)	Tarrant	(a)	(a)	(a)	0	0	1	1	No damage reported.
3. Apr. 3	(a)	Dallas	(a)	(a)	(a)	0	0	2	1	Damaged home south of Duncanville.
4. Apr. 3	(a)	Kaufman	E	(a)	(a)	0	0	(a)	(a)	Occurred between Forney and Terrel
5. Apr. 18	4:20 p.m.	Grayson	NE	10	20	0	0	3	(a)	Moved house from foundation, de- molished or damaged chickenhouses barns, TV antennas, windmill, hou garage, and roofs. Knocked out powerlines, hit boat docks on lak Residents in area said several funnels dipped to ground, cavorte about area for about 10 minutes. Hit 2 communities, Southmayd and Pottsboro.
46. Apr. 19	4 a.m.	Johnson	E	1/8	25	0	o	2	1	Carport and chicken coop destroyed fence posts and fencing downed 2 miles east of Rio Vista.

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State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Killed	Injured	Property	(exclusive of crops)	Crops		Remarks
TEXAS (Cont'd)	5:30 a.m.	Eastland	E	1/4	300	0	(		3			nroofed business buildings and homes, demolished or damaged small barns and garages, and smashed windows and TV antennas at Eastland.
	8:30 p.m.	Hill	(a)	(b)	(c)	0		0	(d)			Touched ground at Covington.  Damaged home, church, orchards,
48. Apr. 19 49. Apr. 19		.Heuderson	NE	(a)	200	0		0	3			in Athens area.
	Midnight	Wood	(a)	(a)	(a)	0		0	3			Damaged home, store, and trees 3 miles south of Mineola.
50. Apr. 19		m.Dallas and Elli	s NW	(a)	(a)	0	·	0	1		1	Touched ground northwest of Dallas, having been sighted near Midlothian and veering to northwest of Irving.
51. Apr. 20	12.20 4.	- 1/2 p			300		0	0	3		1	2 miles southwest of Brownfield, dam- age to phone lines and poles torn up.
52. Apr. 20	10:30 a.		NE	15	100		0	0	:	3	1	Destroyed farm residence and out- buildings 4 miles south of Delwin.
53. Apr. 20 54. Apr. 21	5:44-7:	m.Cottle	- NNW	500	500-		0	7		6	3	3 funnels converged into 1, causing savage destruction between Level-land and Amherst. Path from a land and Amherst.
	p.m.	ley						*				to point 1-1/2 miles abittlefield Lamb County, including Littlefield area. Property destroyed, mostly farm dwellings and equipment; l cage layer house with 2,400 hens destroyed; l cotton gin destroyed. Damage to automobiles high.
			NE	1	300		0	0		3	1	Smashed 2 small sheds 15 miles west of Seminole.
55. Apr. 21  56. Apr. 21-22  57. Apr. 21-22  58. Apr. 21-22  59. Apr. 21-22	6-6:30 6 p.m. 6 p.m. 6 p.m.	Lubbock Lubbock Lubbock Lubbock Lubbock	NW NW NW	75 75 75 75	(a) (a) (a) (a)		0	29				4 funnels touched ground. Moved from Slaton to Lubbock on ground, lifted and dipped at Shallowater and moved to southeast of Olton.  Damage included in Lamb and Hockley Counties' tornado.
33. apr			E	(a)	(a	)	0	0		2		1 Roofs damaged on 3 houses and win- dows broken in Volente community.
60. Apr. 22		.m. Travis	NI	1/2	2	5	0	C	0	3		Hit downtown Jacksonville. Much broken glass. Showroom, new car, and a roof damaged.
61. <b>a</b> y				a) (a)	(a	)	0	,	0	1		Occurred between Seminole and Higginbotham.
62. Apr. 22	12:15	p.m Gaines					0		0	4		1 4 houses demolished near Lesley.
63. Apr. 22		3 p.m. Hall		E (		00	0		0	1		1 Dipped to ground, pulled right up again at Odessa.
64. Apr. 22		p.m. Ector p.m. Briscoe		E (a)		50	0		0	3		1 Destroyed chickenhouses, damaged garage roof and scattered feed stacks 7-1/2 miles southeast of
<b>V.</b>				VE 5-	8	10	0		0	1		Quitaque.  1 Across pasture and fields west of Lockney.
66. Apr. 22	(a)	Floyd				(a)	0		0	2		Destroyed barn and damaged another building 4 miles south of Carthage.
67. Apr. 22	(a)	Panola				(a)	0		0	1		Reported by pilot to have hit ground near Webberville.
68. Apr. 24	2 p. 2:20	m. Travis				800	(	1	2	5		(a) 4 houses destroyed, 3 badly damaged 2 brooder houses, 2 barns, and trailer house destroyed, and 2 care damaged from 5 miles south to 8 miles northeast of Elgin.
70, Apr. 24	3:4	5 p.m. Navarro		NE	5	100		0	0	3		Razed 2 houses, barn, and outbuild- ing, and unroofed home in Shiloh community, southeast of Dawson.

			8	miles	÷	Num of per		Estimated by catego		
State and date	Hour	County	Direction of advance	Length of path, mi	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
TEXAS (Cont'd)	(a)	Graveou.	(a)	(a)	(a)	0	0	1	1	Touched ground at Pottsboro.
71. Apr. 24 72. Apr. 24	(a)	Graysou Bell	(a)	(a)	(a)	0	0	3	1	La Caracteria de la Car
73. Apr. 24	(a)	Freestone	(a)	(a)	(a)	0	0	2	1	Uprooted trees and damaged property on 1 farm and barn on another 7 miles northwest of Fairfield.
74. Apr. 24	(a)	Freestone	(a)	(a)	(a)	0	0	1	1	Hit ground 8 miles east of Fairfield
75. Apr. 24	(a)	Freestone	(a)	(a)	(a)	0	0	3	(a)	Dipped several times, damaged power- lines, tore down barn, blew down trees, blew off roof, and damaged another home northwest of Teague.
76. Apr. 24	(a)	Milam	(a)	(a)	(a)	0	0	5	1	Hangar and 2 planes damaged 2 miles south of Rockdale.
77. Apr. 24	(a)	Williamson	(a)	(a)	(a)	0	0	3	(a)	Unroofed 2 homes and destroyed 2 barns 5 miles northwest of Liberty Hill.
78. Apr. 25	3:30 p.m.	Taylor	(a)	(a)	(a)	0	0	1	(a)	Hit on hilltop between Buffalo Gap and View. Uprooted some shrubs.
79. Apr. 25	4:05 p.m.	Wichita	(a)	(a)	(a)	0	0	1	1	Dipped for an instant, kicking up dust, 10 miles south of Wichita Fall
80. Apr. 25	6:30 p.m.	Montague	NE	3	(a)	0	0	3	1	Barn and car damaged 1 mile south of Ringgold.
81. Apr. 26	12:30 a.m	.Reagan	NW	3/4	150	0	0	1	1	Tore up some brush in Big Lake area.
82. Apr. 26	2 a.m.	Caldwell	NE	35-40	(a)	0	0	3	1	Barns, garages, and powerlines damaged and furniture scattered for 50 feet near Luling.
83. Apr. 26	2:30 a.m.	Bastrop	NE	35-40	(a)	0	0	3	1	Uprooted large trees, unroofed barns and oil mill, broke windows, smashe highway signs, unroofed sheds, outhouses and garages; and damaged drive-in theater at Smithville and Kovar.
84. Apr. 26	8 a.m.	Smith	NE	5	100	0	6	\$6	(a)	In residential area of Tyler, 400 homes, 3 schools, and 1 church damaged.
85. Apr. 26	9:15 a.m.	Gregg and Rusk	(a)	1/2	(a)	0	0	4	(a)	A number of oil derricks and 1 tank overturned, 5 houses damaged, 2 barns and poultry house demolished, trees uprooted, roofs damaged, lake property wrecked, church and home destroyed, and 1 barn damaged in Kilgore area.
86. Apr. 26	9:30 a.m.	Gregg	W	1	50-60	0	0	4	1	Unroofed 2 houses, moved another off foundation 1-1/2 miles east of Longview.
87. Apr. 26	9:30 a.m.	Gregg	N and	1/4	50	0	0			Destroyed 1 garage 2 miles south of Longview. Damage estimate included with above storm.
88. Apr. 26	A,m.	Upshur	(a)	(a)	(a)	0	0	4	1	Destroyed church, damaged school, and destroyed garage and 2 homes east of Gilmer.
89. Apr. 26	2:10 p.m.	Eastland	NE	(a)	(a)	0	0	1	1	Reported by Ground Observer Corps 3 to 5 miles north of Ranger.
90. Apr. 29	2:15 a.m.	Willacy	(a)	(a)	(a)	0	0	(d)	1	Powerlines damaged at Raymondville.
91, Apr. 30	2:25 p.m.	Orange	SW	2-1/2	100	0	0	3	1	Timber twisted and broken. Minor damage to 3 houses northwest of Vidor.
92. May 8	10:38 p.m	.Taylor	E	(a)	(a)	0	0	1	1	Occurred in rural area near Trent.
93. May 11	5:15 p.m.	Hartley	NE	(b)	30	0	0	1	1	Hit 7 or 8 times in open country 1 mile south of Channing.

				T	T						YEAR 1957
					vance	yards		umber persons	Estimate by cate	ted damag	ge 1
•	State and dat	te Hou	r County		Direction of advance		Killed	Injured	Property (exclusive of crope)	Crops	Remarks
	TEXAS (Cont'd)	)						+-	T. O. A.	Ö	
	94. May 12 95. May 13	4:43 p	m. McLennan	NE		(c)	0	0		3	4 homes badly damaged and 150 acres of oats destroyed 4 miles north of Crawford.
	96. May 14		m. Briscoe	NE		200	0	0	J. 3	c	A few outbuildings destroyed, others damaged; trees and signs downed; corn crop damaged in Sulphur Park and Oak Grove sections.
	97. May 15		p.m. Carson	NE N	(a)	(a)	0	0	1	1	Hit lake then dissipated 12 miles southwest of Silverton.
	98. May 15		-		1	(a)	0	0	3	1	Crossed farm and pasture lands. Damaged barns, outbuildings, and home 4 miles east of Groom.
	99. May 15	5:20 p.		NE	(a)	(a)	0	0	3	(a)	
	100. May 15	p.m.	30 Donley	NE	10	(a)	0	1	15	c	
	101. May 15		n. Swisher	NE	(a)	(a)	0	0	4	1	At Vigo Park, home blown away, several houses blown down, out-buildings and windmills damaged nearby.
		7:40 p.n	Yoakum	NW	(a)	(a)	0	0	2	1	Blew away windmill and outhouses and damaged house roof in Plains
	102. May 15		Yoakum	NW	(a)	(a)	0	0	4	1	Dipped from low cloud, almost obscured by dust; destroyed house roof and laundry building and damaged automobile company building and school roof in Plains area. Did not remain continuously on ground, dipped 3 times.
	04. May 15		m.Briscoe	NE	17	300	21	80	5	(a)	Leveled most of new residential area homes of \$20,000 and up. At least 25 homes totally destroyed, estimated 15 homes with major damage and 15 others with minor damage. At least 4 granaries, cotton gin, wholesale petroleum products warehouse, and many other buildings leveled. Tore down power- and phone lines, smashed and twisted cars, destroyed or damaged barns, garages, outbuildings, buses and trucks in Silverton area.
	05. May 15	11:10 p.m		(a)	2	20	0	0	4	1	Farmhouse, barn, and well machinery destroyed at Prairie View.
		Late evening	Floyd	NNE	(a)	(a)	1	0			l person killed near Lone Star. Dam- age estimates included in above
	06. May 15	(a)	Jim Wells	(a)	(b)	(c)	0	0	1	1	Fouched ground only briefly at Orange Grove. Whipped trees process
	8. May 17		Roberts	(a)	(a)	(a)	0	0	3	1 1	lumber, debris, etc. Destroyed garage and outhouses 12 miles northwest of Miami.
	9. May 22	3:50 p.m. 9 p.m.		E	(a)	(a)	0	0	1	1 H	lit in country 10 miles south of Crosbyton.
	). May 22	10:15 p.m.	Hill Ellis	NE NE	2	200	0	4	5	(a) I	mmediately following heavy rain- storm, tornado severely damaged 3 farm homes, destroyed 4 others, damaged outbuildings, truck, and farm equipment and tore down all phone poles in path 5 miles west of Malone.
111	. May 23	3:30 p.m.		E	(a)	200	0	0	4	(a) O	ccurred 14 miles southwest of Ennis.
S	ee reference note					60	0	0	3		t Mt. Pleasant, powerlines and trees uprooted and TV antennas damaged.

			900	miles	-5	Num of pe		Estimated by catego		
State and date	Hour	County	Direction of advance	Length of path, m	Width of path, yards	Killed	Injured	Property (exclusive of crops)	Crops	Remarks
TEXAS (Cont'd)	10:45 а.п	Parmer, Deaf Smith, and Potter	NE	(a)	33	a	0	<i>Y</i> <sub>3</sub>	c	First touched ground about 5 miles south of Bovina, damaged farm property and orchard. Lifted west of Hubb, came down northeast of Hubb, crossed fields past Friona and into Black community. Passed through Deaf Smith County and on past Bushland, Potter County.
113. May 24	11:20 a.m	Bailey	NE	(a)	500	0	0	3	1	Hit in open country 4 miles north of Enochs. Damage only to Rural Electric Association poles and wire
14. May 24	11:30 a.m	.Deaf Smith	NE	(a)	(a)	0	0	1	1	Struck in Hereford area.
115. May 24	12:35 p.m		NE	(a)	200	0	10	<b>T</b> <sub>5</sub>	c	Estimated 77 homes in Olton area destroyed, grain company building badly damaged. Touched ground in cemetary at Sudan, lifted and came down at Olton.
16. May 24	1-2 p.m.	Hale	NE	(a)	(a)	0	0	(a)	(a)	5 miles northwest of Halfway, houses barns, and trailers damaged or de- stroyed and livestock killed.
17. May 24	1-2 p.m.	Lynn, Lubbock, and Crosby	NE	(a)	200	0	1	<i>J</i> <sub>5</sub>	С	Many homes destroyed or badly damaged at Tahoka, Slaton, Wilson, Robertso Ralls, and Savage. Public buildings, warehouses, farm equipment, church, fences, trees, and power- and phone lines damaged. Livestock killed.
18. May 24	1:20 p.m.	Potter	NE	1/4	50	0	0	4	(a)	Damage on 1 farm in Bushland area. Tornado lifted and came down in open country west of Cliffside, lifted and came down again 7 miles north of Amarillo Airport in open country.
19. May 24	2 p.m.	Hale	(a)	(a)	(a)	0	0	4	(a)	3 homes destroyed and others damaged southwest of Plainview.
20. May 24	2:45 p.m.		ENE	(a)	(a)	0	0	3	1	5 houses and several farm buildings damaged at Lenorah.
21. May 24 22. May 24	6:28 p.m. 8:30 p.m.		E	2	(a)	0	0	1		Tornado moved through pasture land 10 miles north-northwest of Midland
23. May 25			SW	(a)	(a)	0	0	3	3	Occurred 10 miles southwest of Seymo
24. May 25	2 p.m. 6:15 p.m.	Lampasas	E	(b)	(c)	0	0	1	(a)	Touched ground briefly 9 miles east of Lipan.
25. June 2		Galveston				0	0	2	1	Garage roof blows off at Lometa.
26. June 2 27. June 2 28. June 2 29. June 2 30. June 2 31. June 2	p.m. Ditto Ditto Ditto Ditto Ditto Ditto Ditto	Galveston Galveston Galveston Galveston Galveston	(a) (a) (a) (a) (a) (a) (a)	(a) (a) (a) (a) (a) (a) (a)	(a) (a) (a) (a) (a) (a) (a)	0	0	(d)	1	Six or 7 waterspouts observed, 3 a short distance offshore over Gulf of Mexico, 4 over Galveston Bay. 1 over Galveston Bay appeared to be unusually large, about 300 feet in diameter. Negligible damage in northern part of Texas City.
32. June 4	12:25 p.m.	Brazoria	NNE	(a)	(a)	0	0	1	1	6 to 10 miles south of Freeport, water spout observed over Gulf of Mexico, touched water surface.
33. June 5 34. June 5 35. June 5 36. June 5 37. June 5	11 a.m. 11 a.m. 11 a.m.	Matagorda Matagorda Matagorda Matagorda Matagorda	(a) (a) (a) (a) (a)	(a) (a) (a) (a) (a)	(a) (a) (a) (a) (a)	0	0	1	1	5 waterspouts all touching water, ob- served on Matagorda Peninsula.
38. June 10	5:15 p.m.		(a)	(b)	(c)	0	0	3	1	l barn and garage damaged, 1 grain bin destroyed, and phone lines and fences downed 7 miles southwest of Perryton.
9. June 12	8:10 a.m.	Dallas	SE	(b)	(c)	0	0	3	1	At Redbird Airport, tornado struck steel hangar, pulled concrete piers from ground, and damaged 3 aircraft. Hangar built to withstand winds up to 120 m.p.h.
10. June 22	9:47 p.m.	Yoakum	NE	(a)	(a)	0	0	(a)	(a)	Occurred 7 miles south of Plains.

YEAR 1957

## TORNADO DATA

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated by categor		
								» (s	Crops	Remarks
						Killed	Injured	Property (exclusive of crops)		
TEXAS (Cont'd)										
141. June 22	10:18 p.m	.Hale	(a)	1/2	(c)	0	0	3		Smashed truck and car in rural area 5 miles north of Plainview.
42. June 24	8 p.m.	Galveston	W	(a)	(a)	0	0	1	1	Waterspout reported offshore ll miles east of High Island.
143. Aug. 1	2 p.m.	Harris	NE	(a)	(a)	0	0	1	1	Waterspout sighted 10 miles east- northeast of Baytown.
44. Aug. 5	7 p.m.	Jefferson	NE	(a)	(a)	0	0	1	1	Waterspout sighted over Trinity Bay.
145. Aug. 12	3:50 p.m.	Baylor and Throckmorton	NE	\$ <sub>700</sub>	(c)	0	0	4	(e)	Smashed 1 barn, unroofed another, and downed phone poles and wires 15 miles southwest of Seymour.
46. Aug. 12	5:30-6 p.m	. Jones	(a)	(a)	7	0	0	3	1	Damaged cabin at Lake Fort Phantom Hill.
147. Aug. 17	5:45 p.m.	Navarro	SE	3-4	1,300	0	0	4	(a)	Destroyed drive-in theater screen at Corsicana. Some livestock killed
148. Aug. 30	6:45 p.m.	Nueces	WSW	(a)	(a)	0	0	1	1	Waterspout sighted 18 miles east- southeast of Port Aransas.
149. Sept. 6	9:25 a.m.	Nueces	•	(a)	(a)	0	0	1	1	Waterspout sighted 8 miles east of Port Aransas.
150. Sept. 20	6 p.m.	Wilbarger Wilbarger	S and SE Ditto	1/2	100-200	0	0	4	(a)	6 miles north of Vernon, 2 funnels touched ground. End torn off hangar at airport, house and garage damaged, light posts downed, 2 barns damaged, and feed scattered.
52. Oct. 7	7:15 p.m.	Baylor	SE	(b)	(c)	0	0	3	1	Destroyed garage and storage room, damaged home and several roofs and barn, uprooted trees, and damaged others west of Seymour.
153. Oct. 14 154. Oct. 14 155. Oct. 14	3 p.m. 3 p.m. 3 p.m.	Waller Waller Waller	NE NE NE	(a) (a) (a)	(a) (a) (a)	0	0	<i>Y</i> <sub>4</sub>	c	3 separate tornadoes in Waller and Brookshire areas ripped drive-in theater screen, damaged home, demolished church, uprooted trees and graveyard monuments. Crop damage to rice and peanuts. Severely damaged dairy barn, destroyed feed contents. Other buildings damaged between Waller and Hempstead.
156. Oct. 14	5:45 p.m.	Liberty	(a)	(a)	(a)	0	3	4	(a)	9 miles north of Dayton, 2 farm homes 1/4 mile apart destroyed with contents. Several barns and out- buildings destroyed, other homes damaged, trees uprooted, and power- and phone lines downed.
157. Oct. 22	6:30 a.m.	Liberty	(a)	4	100	0	1	4	(a)	Barns and outbuildings destroyed, 6 houses and powerlines damaged 8 miles southeast of Cleveland.
158. Nov. 1	9:23 p.m.	Jefferson	ENE	(a)	(a)	0	1	5	1	At Port Acres, about 20 houses badly damaged or destroyed.
159. Nov. 7	8:45 p.m.	Jefferson	SE	(a)	(a)	0	0	4	1	Slight to moderate dwelling damage at China and Nome.
160. Nov. 7	9:15 p.m.	. Jefferson	ENE	3	200	2	59	6	(a)	160 homes, several business buildings and many outbuildings completely demolished or extensively damaged in area of 15 to 20 blocks in center of town of Groves. Several hundred buildings damaged to lesser extend. I school building badly damaged. Winds estimated over 100 m.p.h., where tornado struck. Storm lasted only about 5 minutes.
161. Nov. 7	11:10 p.	m.Orange	ENE	(a)	(a)	1	81	6	(a)	At Orange, several business houses destroyed, 130 homes demolished, 250 others heavily damaged, 100 families homeless. 9 ships and 3 barges torn from moorings. Thousands of phones cut off, power disrupted.
162. Nov. 17	4:35 p.m	. Tarrant	NE	(a)	50-75	0	2	3	(a)	5 miles west of Ft. Worth, outbuilding destroyed, 2 house trailers moved, 1
See reference n	otes at end	of table.		1	1	1	1		1	blown over and 2 occupants slightly

## TORNADO DATA

				/ance	8	yards	Number of persons		Estimated damage		damage	YEAR 1957	
State and	date Hour	County		Duection of advance		ith, ye							
				non	p of	Width of path,			ve ve	0		Remarks	
					ength of	age.	Killed	Injured	Property (exclusive	of crops)	Crops		
TEXAS (Cont	'd)		+		-	-	×	_ <del>_</del> _	4 9	ö	ŭ		
UTAH												injured. Mainly roof, window, sign, and TV antenna damage other wise.	
1. Aug. 7	5:30 p.m.	Sevier	N									-130.	
VERMONT				1-1/	5	0	0	0		4	1	Small tornado hit western edge of Salina, blowing roofs off turkey processing plant and service sta tion; automobile damaged and sma shed demolished	
1. June 18	6:05-6:10 F	ranklin	NE									shed demolished.	
	p.m.		1.2		4 500	)	0	0	5		1 F	unnel described by some persons a	
2. July 5	7:30 p.m. W	indham	SE	(a)	(a)							having "two tails". Destroyed home and damaged many others from East Franklin to West Berkshire.	
VIRGINIA					(4)		0	0	3		3 7	nconfirmed reports of funnel clou at Brattleboro accompanied by	
1. Apr. 5	1:40 p.m. Wi	se	NE									Damage to trees and utilities.	
				(a)	(a)		0	3	4		1 Da	mage to buildings, trees, and ov	
2. Apr. 8	5:20 p.m. No	rfolk	NE	1	(a)		0				N	nead utilities at Big Stone Gap a	
3. May 27	8:20 a.m. Cha	irlotte	NE	8				2	5		1 Pr t N	incipal damage to overhead utili- ies, trees, and buildings in nor- orfolk.	
4. May 27	10			•	800		0:	0	3		(a) Oc	curred in area from Old Well to	
<b>V</b> A SW + 3/4	Lui	enburg	E	1	200		0	0	3/4				
WASHINGTON  1. Apr. 30											Di	mage mainly to farm buildings in undas area.	
	6:40 p.m. Yak	ima	NW	1	(c)		0	0	3				
2. May 6	9 p.m. Spol	kane	E	(a)	(a)	(		0			cu	ne doubt regarding this being a rnado. Garage roof damaged. Oc- rred in Yakima area.	
WEST VIRGINIA									2		l Ver	y small tornado or possibly larg st devil reported 10 miles south	
1. June 29	7:30 p.m. Rand										of	Spokane. 1 barn roof damaged.	
	P.m. Rand	lolph S	SSW 1	/2-3/4	30	0		0	5		1 4+ 1	91b	
WISCONSIN											and ser and ed.	Elkins, houses and business ildings unroofed, trees uprooted a limbs blown off, electrical vices disrupted. Funnel cloud is greenish cloud formation report Tornado believed associated the intensification of hurricane rey as it moved up Ohio Valley.	
. Apr. 19	2:30 p.m. La Cr		NW	2-3	150	0			4				
	4 p.m. Junea	u N	NE	20	300	1	(		4		Skip	ping path. Occurred at Holmen.	
. Apr. 19	4 p.m. Walwo	rth and NE		6	200	0			8			from New Lisbon to north of edah. Uprooted trees and dam- i buildings on 1 farm.	
. Apr. 19	4:05 p.m. Porta						2		5	,	Occur	red in Burlington area.	
. Apr. 19	4:15 p.m. Wausha	""		12	150	0	0		4	1	Occur	red in Coddington and Bancroft	
Apr. 19	8:30 p.m. Monroe				130	0	1		4	1	Occur	red in Wautoma and Saxeville	
May 25	4:30 p.m. Grant	NE NE		8	400	0	0		5	1		red at Kendall.	
June 14	5:30 p.m. Floren			20	400	0	0		4	1	Tornac curve path.	do moved northwestward then ed to northeast along skipping . A few reports of 2 or 3	
	rim. Floren	Ce NE		7	100	0	0		4			ennimore areas.  ing path. Intermittant de-	