

U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

WEATHER BUREAU

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STORM DATA

MARCH 1963

Volume 5 No. 3



ASHEVILLE: 1963

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
ALABAMA									
Bessemer, Homewood and Mountain Brook areas, Jefferson County	5	3:35p	15	1/4-1/2	0	35	6		Tornado and Rain
Tornado observed as it struck first in extreme southwest portion of Bessemer, moved across downtown Bessemer and on to the northeast, through a portion of Homewood and Mountain Brook. About 90% of damage in Bessemer along first two miles of path. Over 200 buildings damaged, 29 destroyed and 25 had major damage in Bessemer. In other sections about 40 buildings damaged. Heavy rain after tornado added to damage. Damage by tornado about 80% of total, by rain 20%.									
West Gadsden, Etowah County	5	Afternoon	1	1/2	0	0	4		Wind
High winds fell trees, power lines and damaged several roofs.									
Rock Rm, Cherokee County	5	Afternoon	12	?	0	3	4		Tornado
Tornado dipped down in Rock Run Community destroying 1 house and damaging several others. Moved northeast into Cave Springs, Georgia area cutting a swath through trees.									
Pickens and Fayette Counties	11	Early Afternoon	?	1/2	0	0	4		Tornado
Tornado apparently moved across north portion of Pickens County and on northeast into Ashcraft Corner Community of Fayette County, where 1 house was demolished, 1 house damaged, 1 church damaged, and several farm buildings destroyed. Cut swath through timber.									
Townley Community, Walker County	11	Early Afternoon	?	?	0	0	4	0	Tornado
Tornado moved from southwest to northeast and extended across much of the county in rural areas. In the Townley Community 1 house was destroyed and several other buildings damaged.									
Gulfman County	11	2:00p-2:15p	25	1/2-3/4	2	6	6		Tornado
Tornado first reported in Valley Grove Community, then moved northeast about 50 mph through Phelan, Boxlin and Fairview Communities. About 20 houses and 20 farm buildings were demolished and about 120 houses and several other buildings damaged. Considerable timber destroyed. This tornado occurred with the same storm that moved earlier through Walker, Fayette and Pickens Counties.									
Arab area, Marshall County	11	2:15p-3:00p			0	0	5	0	Wind
High winds damaged a warehouse and several other buildings in Arab. In Mt. Carmel Community several farm buildings damaged or destroyed. This is the same storm that earlier moved through Gulfman County.									
Pogo Community, Franklin County	11	5:25p	?	?	0	0	5	0	Tornado, Rain
Two houses destroyed, 4 houses damaged and about 15 out-buildings destroyed or damaged in the Pogo Community. Flooding over the County due to heavy rain in the evening. About 50% of damage due to tornado and 50% due to rain.									
Marion and Winston Counties	11	7:15p-8:25p	35	100-500	0	4	5	0	Tornado
Tornado struck about 5 miles south-southwest of Hamilton and skipped northeast through several communities disappearing near the Poble Community in the northwest portion of Winston County. About 15 houses were destroyed and 50 were damaged. Numerous barns and out-buildings were destroyed or damaged. Six large poultry houses were destroyed.									
Limestone and Madison Counties	11	Evening	50	?	1	3	6	4	Tornado, Rain
Tornado struck first about 5:10 p.m. at Paradise Shores, southwest Limestone County, moved northeast touching down at the communities of Ripley, Copeland and East Limestone. Damage reported at Harvest, Hazel Green and Pleona in Madison County. Four houses were demolished, 10 damaged, several barns and sheds demolished or damaged. Heavy rains following the tornado resulted in local flooding of many areas of the counties. In Madison County 40 families were evacuated from a flooded trailer court, 200 houses and several business houses were flooded. Extensive damage to roads. In Limestone County about 50 houses and 15 businesses were flooded. One person drowned on the morning of the 12th when bridge collapsed. About 75% of property damage and all crop damage due to rain and 25% of property damage due to tornado.									
Jackson County	11	Evening			0	0	5	5	Wind, rain
Scattered damage to houses, farm buildings, forests and utilities mainly in eastern portion of County around Stevenson and Bridgeport. Local flooding from heavy rains mostly in western portion of County around Scottsboro and Palm Rock Valley. 50% of damage to property due to wind and 50% to rain. All crop damage due to rain.									
Lawrence County	11	Evening			0	0	5	4	Rain, wind
Local and flash flooding due to heavy rain. Most damage occurred in Tom Creek Community where a large factory was partially inundated. Scattered wind damage reported to a few houses, barns and out-buildings near Moulton. 75% of damage to property and all crop damage due to rain. 25% of property damage due to wind.									
Huntsville, Madison County	11	Evening							Funnels
Four funnel clouds reported aloft in the Huntsville area in the early evening.									
Mt. Carmel and Dudleyville Communities, Tallapoosa County	12	Mid-Afternoon	8	?	0	0	4	0	Tornado
Tornado struck first in Mt. Carmel Community uprooting trees and unroofing buildings and then moved northeast near Dudleyville destroying 3 houses and 4 barns.									
ALABAMA (Cont'd)									
Brent, Centreville, Bibb County	17	10:00a	2	100	0	4	5	0	Tornado
Tornado hit in Brent east of Highway 5 and moved northeast across Centreville. One house was demolished injuring 4 occupants in Brent. About 25 houses were damaged and a large sawmill and cotton gin were damaged extensively in Brent. In Centreville minor damage to roofs.									
Morgan, Limestone, Madison, Marshall and DeKalb Counties	19	6:20p-8:15p	70	?	0	0	5		Wind, Hail
Storm with high winds and hail began at Finley's Island near Decatur and moved eastward across southeast corner of Limestone County, across southern portion of Madison County, northeast portion of Marshall County and central portion of DeKalb County. Damage to several buildings at Finley's Island, several light aircraft and a hangar were damaged at Decatur-Attness Airport. At Hedeston Arsenal observed winds of 95 mph damaged several large buildings. A large grain elevator was blown over at Owen's Cross Roads. In the Preston area of Marshall County one house was unroofed, several out-buildings damaged and trees uprooted. In DeKalb County a barn was destroyed near Rainville and a few buildings at Powell's Cross Roads were damaged. Hail fell in Decatur area but caused no damage. All damage due to wind.									
ALASKA									
Alaska Peninsula and the Southwestern Alaska Mainland	8-10		800	*250	0	0	5	0	Windstorms accompanied by light rain
A low pressure system, which intensified as it moved from the southwest into the Bristol Bay area, brought strong southwesterly winds to the Alaska Peninsula, Kodiak Island, the coastal areas of Bristol Bay and over the Cook Inlet Area. The strongest winds apparently occurred along the Peninsula: gusts were reported reaching 70 mph in the Cold Bay area and, unofficially, in the Wide Bay area. Peak gusts of around 65 mph were reported at King Salmon. Wind speeds across the Cook Inlet area were not as strong as to the west and southwest of that area. At Kenai wind gusts reached about 30 mph on March 8. Winds here diminished rapidly after midnight, but increased rapidly after 5 p.m. on March 9 and continued strong until noon of the 10th. Both Homer and Kenai reported peak gusts of 45 to 50 mph during this overnight period with the strongest reported around midnight. At Anchorage International Airport gusts reached near 40 mph during the afternoon of March 9 and continued strong during the night, reaching gusts of 52 mph at 5:26 a.m. the following day. Widespread, but only relatively minor, damages were reported from the affected areas except in the general Anchorage area. Damages here to buildings were mostly confined to roofs and some door and window damages. The major loss consisted of two small airplanes which were almost a total loss. It was later determined, however, that these had not been properly moored. Total damages over the entire storm area probably totaled around \$50,000.									
The Aleutian Islands and the Gulf Coast to Baranof Island, the southern Alaska Mainland	25-29		300	*400	0	0		0	Large-area windstorms
This was one of the most widespread and persistent windstorms on record for Alaska. A low pressure system, originating over the Arctic Ocean, moved with its complex frontal system in a southeasterly direction across the Alaska Mainland, becoming centered in the Cordova area on March 26. From here the center progressed very slowly on southeasterly. With the gradual build-up of a high pressure system, extending from the Arctic Coast into the southwestern mainland, strong, and cold northerly winds developed which affected most of the southern half of the mainland. Meanwhile, to the east of the low center, strong south to southwesterly winds affected the eastern Gulf coastal area as far south as Chichagof Island on March 25 and 26; but these became strong east and north-easterly with peak gusts of 60 to 65 mph on March 27 and 28. Damaging winds developed in the southwestern mainland and over Kodiak and the Kenai Peninsula areas on March 25, but these appear to have been most associated with the cold front extending southwestward from the low which was centered at that time in the Arctic Slope. Unofficial reports from Larsen Bay, in western Kodiak Island, indicated gusts in excess of 90 mph on March 25. On this same date gusts reaching 60 to 65 mph were reported along the Aleutians from Sheya to Cold Bay. Winds at the Naval Air Station hangar on Kodiak Island reached peak gusts of 125 mph on the 26th. Shearwater Bay reported, unofficially, gusts of 80 to 100 mph on the 27 and 28. From March 25 to 28 strong northerly winds swept across the area extending from the upper Alaska Peninsula and Lake Iliamna eastward over the southern mainland, including points as far north as Allakaket in the upper Koyukuk River Valley. These northerly winds were accompanied by rapidly falling temperatures. Gulikana, for example, with 6 degrees below zero had wind gusts around 50 mph. At the Anchorage International Airport wind gusts exceeded 60 mph. Unofficial estimates of gusts in excess of 70 mph were reported elsewhere in the general Anchorage area. These strong northerlies gradually spread eastward with winds in the channel areas of Southeastern Alaska reported reaching speeds around 60 mph with temperatures in the low 20s. Widespread reports of damages were received, but the most concentrated loss appears to have occurred in the Kodiak Island and upper Cook Inlet areas. Roofs were torn off at Allakaket; the roof of the old City Hall in Kodiak was blown away and struck and badly damaged a near-by house; several windows were broken and considerable structural damage									

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS		
ALASKA (Cont'd)										occurred to garages and residences in the Kodiak area, including a new housing development. In the general Anchorage area roofs were torn from numerous buildings, and parked cars and trailers were extensively damaged. Damage to power and communication lines occurred in Kodiak, over the Kodi Peninsula and over the upper Cook Inlet area including the Anchorage and Palmer areas. Wind-borne trees were responsible for much of the line damage. Snow drifts caused serious traffic tie-ups, including sections of the Richardson and Glenn Highways with the most serious drifting conditions developing in the Thompson and Isabel Passes on the Richardson Highway. Due to the variety of damages experienced and the indirect effects of the storm specific total damage estimates are difficult to arrive at.
ARIZONA										
Douglas	3	Afternoon			0	0	4	0	Wind	Strong winds damaged homes, businesses and utilities.
ARKANSAS										
Wynne, Cross County	4	6:45 p.							Funnels aloft	Two funnels observed in central Cross County, moving northward. Light wind damage only.
Sardis area, Lafayette County	16	12:30 p.	4	1/4	0	0	4	3	Tornado	Damage done by wind. One house moved off its foundation. Several houses and barns damaged to lesser degree. Timber was blown over in spots.
CALIFORNIA										
Tulare County	14	Evening			0	0	4	0	Squall and rain	Local strong winds damaged buildings, downed trees and utility lines and broke windows.
Southern Calif. Coast	16				0	0	4	0	Squalls, hail, and rain	Local winds damaged buildings, permitting additional rain and hail damage.
Tulare County	22	Afternoon			0	8	4	0	Squalls	Wind damaged buildings, downed trees and utility lines, and picked up dust to restrict highway visibility and cause a series of serious traffic accidents.
COLORADO										
Most of State	2-4				3	few			Heavy snow	Heavy wet snow, from 10 to 20 inches, accompanied by strong winds, was general over most of the state but more severe in the area directly east of the Continental Divide in northern and central Colorado and in the San Juan Mountains in southwestern Colorado. Drifting and blowing snow in the plains area caused hazardous driving conditions and resulted in many accidents. In southwestern Colorado on Red Mountain Pass near Duray, a man and his two daughters were swept to their deaths by an avalanche after their car was stalled by heavy drifting snow.
Eastern Colorado	16				1	few	8	0	Wind and snow	Strong gusty wind beginning a few hours before sunrise caused extensive damage over a wide area east of the Continental Divide from the Wyoming to the New Mexico borders. Damage was heavy in the Denver area. Wind gusts were reported up to 88MPH at the Jefferson County Airport where hangars and several light planes were severely damaged. An SPMF wind was reported at the Martin Plant southwest of Denver. Trees were uprooted, signs torn down and communication and power lines disrupted. Public reported considerable damage from winds up to 75MPH. Damage in varying degree was general over the entire area. Blowing dust over the eastern plains closed roads and damaged emerging crops. Snow accompanied the wind in the extreme northeastern Colorado. A young woman was found dead from exposure near Julesburg. She had attempted to find shelter when driving became impossible in blowing and drifting snow.
CONNECTICUT										None reported
DELAWARE										None reported
FLORIDA										
Opa-Locks Airport Dade Co.	2	3:00 pm	Short	Narrow	0	0	3	0	Whirlwind	Small but energetic whirlwind moved northeastward across Opa-Locks airport and into an area of parked light aircraft. Eight aircraft damaged when they were flipped over by whirlwind.
Miami Area Dade Co.	29	11:00 am	30	1*	0	0	4	4	Hail	Hail fell in a band about one mile wide along a line extending from near Opa-Locks airport southward to near Homestead. Size of hail quite variable; there were authentic reports of some stones of 3 inches in diameter. Average hail size estimated near 1 inch in diameter. Most hail fell in the residential areas and caused considerable damage to screened enclosures and windows. Hail fell in scattered agricultural areas and caused scattered light to moderate crop damage; 2 or 3 fields of tomatoes suffered extensive damage. Hail fell between 11:00 am and 12:30 pm.

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FLORIDA (Cont'd)										
West Palm Beach Palm Beach Co.	29	Afternoon			0	0				Funnel Clouds (3)
GEORGIA										
Cave Springs, Floyd County	5	6:55 p.	12	400	0	2	5	0		Tornado
Northwest	5 and 12				0	2	5	3		Rain
Villa Rica to College Park, Carroll, Douglas, and Fulton Counties	17	10-10:45 a.	?	100-200	0	0	4	0		Tornado
Mitchell and Colquitt Counties	26	3:15 p.	1 1/2	200	0	0	4	0		Tornado
Brooks County	26	6:10 p.	?	Narrow	0	0	4	0		Tornado
HAWAII										
Waianalo-Keolu Hills Area, Oahu	6	Morning			0	0	5	4		Rain
Kalaheo-Lawai, Kauai	14				0	0	4	4		Rain
Kawela Bay, Oahu	27	Between 8:00 - 9:00 p.			0	1	4	0		Waterspout
Kailua, Oahu	31	4:00 a.			0	0	4	0		Wind
IDAHO										None reported
ILLINOIS										
Extreme Southern Illinois	16	2-4 p			1	0	05	0		High wind, heavy rain
Gallatin County	16	3-3:15 p	1/8	30	0	0	4	0		Tornado
INDIANA										
Anderson	4				1	0	0	0		Lightning
Salem (Washington County)	16	6:20 p. S.S.T.	1	100	0	0	4	0		Tornado

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
INDIANA (Cont'd)										KANSAS (Cont'd)										
DeGonia Springs (Warrick County)	16	afternoon	1 1/4	1/2	0	0	5	0	Tornado											Winds began to be noticeably strong, gusts to 35 mph. Late in the afternoon of March 15, gradually increasing to gusts of 75 or 80 mph from noon to mid-afternoon of the 16th. Initially the wind blew from the south and gradually turned to the southwest and then to west and northwest. Although all of the State had high winds, the north central was particularly affected. Minor damage to plate glass windows, roofs, TV antennas, trees, telephone and power lines, hay stacks, signs, etc., were reported from much of the northern half of Kansas. Many fires were fanned out of control by the wind. Poor visibility from dust resulted in injury to 12 people in auto accidents.
Indianapolis	19	1:45 p. E.S.T.			1	4	0	0	Lightning, rain, wind	North Central and Northeast Kansas	18	11:00 a.-1:00 p.							Hail and lightning	
Jasper (Dubois County)	19	2 p.			0	0	5	0	Tornado										A thunderstorm across the northern counties resulted in numerous falls of hail varying in size from peas to marbles. Ground was covered to a depth of an inch or more in a number of localities from Smith and Osborne counties eastward. Little damage was reported as no crops were advanced enough to damage. Lightning damaged power lines in Washington County.	
Becks Mill (Washington County)	19	afternoon			2	0	3	0	Tornado	KENTUCKY										
Salem (Washington County)	19	3 p.			0	0	0	3	Hail	EASTERN KENTUCKY	11-13				2	7	7		Floods	
Columbus (Bartholomew County)	19	3:05 p.			0	7	6	0	Hail, wind, rain										Very heavy rains on the 11th caused floods, described in many places as "the worst in history", in the headwater areas of the Big Sandy, Kentucky, and Cumberland Rivers. More than 25,000 persons were forced to evacuate their homes. There was extensive damage from landslides and washouts to highways and railroads in addition to heavy damage from floodwaters in businesses and residences. The entire affected area was declared a federal disaster area. One person was killed when a train on which he was a crewman ran into a washed-out section of track and plunged into the Small Fork of the Big Sandy River, two miles east of Millard in Pike County. Another person drowned in Owsley County.	
Crete (Randolph County)	19	3:16 p.	4	300	0	0	5	0	Tornado	Henderson and Hopkins Counties	16	4 P.M.							High Winds	
Orange (Fayette County)	19	3:30 p.	3	100	0	0	4	0	Tornado										High winds accompanied by heavy rain caused considerable minor damage in addition to completely destroying one house and barn 1 1/2 miles north of Smiths Hills in Henderson County. A number of apple trees were blown down near Bluff City.	
Le Mars	16	12:15 p	2	200	0	0	4		Tornado	EASTERN KENTUCKY	17								Floods	
7 NW Sheldon	16	1:00 p	5	300	0	0	4		Tornado										Heavy rains during the evening hours of the 16th caused flash flooding in the headwater areas of the Big Sandy, Kentucky, and Cumberland Rivers. This is the same area which was flooded a few days before. About 3,000 people were forced from their homes -- many for the second time in a week. Numerous highways and railroads were damaged further by landslides and many buildings which had just been repaired from the previous flood were damaged by floodwaters once more.	
5 N Aurelia	16	1:30 p	2	250	0	0	3		Tornado	HENDERSON	19	Early AM							Heavy Rains	
6 SW Spencer	16	1:30 p	5		0	0	1		Tornado										Heavy rain caused the roof of a large supermarket to collapse in the Eastgate Center causing considerable structural damage and allowing water to pour in on stocks within the store.	
KANSAS										NORTH CENTRAL	19	Late Afternoon								Tornado, Hail, & Windstorm
Central Kansas	3-4	9:30 p.-1:30 a.							Thunderstorms with winds and hail										Heavy squall-line thunderstorms accompanied by high winds, scattered hail "as large as a half dollar", and at least one small tornado moved through the area with numerous reports of wind damage from Louisville northeastward. Nine persons were injured slightly in the Bevon Community, Boone County, when two house trailers were torn from their foundations and destroyed at 4:30 PM by a small tornado. One other minor injury was reported in Franklin County when a barn collapsed on a teenage boy after the barn was lifted from its foundation by very high winds. Other buildings nearby were undamaged.	
Cherokee and Crawford Counties	4	About 8:30 a.							Wind	LOUISIANA									None reported	
Southwest and Central Kansas	4	Early morning till afternoon							Glaze	MAINE	6				0	0	5	0	Floods, wind	
Northern half of Kansas	15-16	3:00 p. of 15th to 5:00 p. of 16th			12				Sustained high winds	Coastal Areas									Moderate to heavy rains, combined with snow melt, caused widespread local flooding. High winds blew down trees over power lines in the Oostung area, knocking out power for some time in the afternoon. Many cars were stalled in the flooded low sections of the Maine Turnpike from Kittery to Gray. Air service was grounded for a time. Rain-soaked snow on roofs collapsed a 25 x 200 ft. stable at North Knox and a bus garage at Rockland where 2 buses were damaged. Glazed road surfaces in some sections were responsible for numerous highway accidents.	
										Sweden	10				0	0	3	0	Snowfall accumulation	
										MARYLAND									None reported	
																			About 8 inches of new snow fell upon an existing snow cover more than 3 feet deep. Heavy snowfall accumulations endangered many flat-roofed buildings. At least one, a warehouse, was completely wrecked when it collapsed under the weight of snow.	

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MASSACHUSETTS Statewide except southeast	1-2				0	0	3	0	Snow				
					Storm dropped 6 to 10 inches of snow cover the state except in the southeast where precipitation changed to sleet and rain. The storm produced scores of highway accidents, slowed and snarled traffic, and delayed airline flights. A woman was killed in a highway traffic accident in Mattick and a Holyoke man died as a result of a heart attack while shoveling snow. Snow removal costs in Boston alone amounted to \$200,000.								
Statewide	6				0	0	5	0	Floods				
					Fast-moving storm dumped more than an inch of rain generally in less than 12 hours. The rain, combined with snow melt, formed a huge volume of water that created lakes on highways, streets and driveways. Sewers and drains, clogged by snow and ice, were almost useless and thousands of cellars and basements were flooded, up to 4 feet deep in some cases. Fire departments were overwhelmed with calls for help. Several Haverhill families had to be evacuated. High water in streets splashed over wirings of cars stalling many of them. Some airline flights were canceled. In the higher elevations of the Berkshires precipitation occurred mostly as snow but valleys had pools of water up to a foot or more deep.								
Goshen	11	8 P.M.			0	0	4	0	Snowfall accumulation				
					A dormitory at Camp Jollee, built by volunteers in 1962 for victims of cerebral palsy, collapsed under the weight of accumulated snow and ice. Depth of snow on ground in the area at the time was around 3 feet. Building was almost totally destroyed with damage estimated at \$7000, not including value of labor.								
Eastern and south-eastern sections	20-21				0	0	4	0	Snow				
					The storm dropped 5 to 10 inches of heavy wet snow over this area. The heavier yields accumulated over central and eastern portions of Worcester County. The Cape area received around 5 inches for the heaviest snowstorm of the season there. Though the Cape received the lesser falls, the storm affected that area more seriously than elsewhere. Schools were closed in a number of towns, wires were downed, and airline flights were canceled. Driving conditions were treacherous and numerous highway accidents resulted. Many homes were without power and phone services.								
MICHIGAN Southern Lower Michigan	19	10:00 a. 5:00 p.							Thunderstorms with hail and heavy rains				
					Hail stones up to 1 inch in diameter reported in the Grand Rapids and Muskegon areas. Sea and pebble size hail reported elsewhere in the area. Hail damaged car bodies. Numerous windows broken in cars and homes due to hail. Heavy rains flooded streets and basements with resultant damage.								
MINNESOTA MISISSIPPI Actala County NW to Monroe County	11	5:25 p.- 7:25 p.			2	12	5	0	Tornadoes				
					None reported								
					High winds and torrential rains accompanied squall line moving across state. Tornadoes touched down, damaged and flattened buildings, homes, and timber; injured or killed livestock and people. Monroe County and adjacent communities declared disaster areas. ATTALA COUNTY: 5:25 p.-6:15 p., path 10 miles, width 1/4 mile, injured 2. First touched down on Besseville rural road few hundred yards behind J. H. Remagea neighborhood store; moved NE; 5:25 p. blew Mrs. J. K. Oaker, 72, and mattress 50 yards when home splintered and scattered over 1/4 mile area; on Highway 55 (10 N Kosciusko), pickup truck waffed 40-50 ft. through air, hitting pine tree top, spilled driver, then top-down crashed to ground several feet below; 5:30 p.-ripped down 5 great H-structures supporting main 115,000 volt transmission line; for about 10 miles twisted through pine timber along Hatcher trace, ripped treetops Little Mountain, now and then damaging remote farms; in Selma community parked pickup truck rolled over and over by wind. CHOTAW COUNTY: 6:30-6:59 p., path 7 miles, killed 2, injured 5. 7 homes destroyed, others damaged, and 20 families affected; some household goods scattered to ten miles away. First struck Byvo Community, then to Reform-Sherwood area. About 6:30 p., Kelley's house (N of Reform), lifted and carried 200 ft., then demolished, scattering over 1/4 mile area; moved through Sherwood and vicinity Highway 15 and 82. OKTIBERHA COUNTY: Struck little after 7:00 p., first near Double Springs Community. Passed close by Ray home (Highway 82, 12 miles NW Starkville), the new brick walls fell out and roof flew into air; to one side of NE path uprooted timber faced west, on other side east. MONROE COUNTY: 7:20-7:25 p., 5 injured, 18 buildings demolished, 54 others damaged, 75 families affected. Luminous black funnel leaffrogged Hamilton area; 7:20 p.-ripped roof Hamilton Garment plant; jumped to appliance store; crossed road sucking operator out of dairy bar entrance and disintegrating building, wrecked some homes 2 miles NE Hamilton, then headed towards Alabama. Coahoma County 16 About 5:30 p. 300 0 0 5 0 Wind, thunderstorm								
					From near intersection Highways 61 and 1 to NE of Clarkedale, some 3 blocks wide, trees uprooted, utility lines downed, buildings damaged by driving winds and swirling rain, preceded by rolling pink cloud). Bus and pickup truck blown off highway.								
Central Division	19	p.m.			0	4	4	0	Wind, thunderstorm				
					Wind damaged buildings in scattered areas as line of thunderstorms crossed state; thousands of chickens lost. Bargersville gymnasium west brick wall swayed and water poured in as under 50 basketball spectators and players evacuated; a few minutes later (7:30 p.), the west and east walls collapsed, sending brick and boards onto nearby automobiles, injuring 2 women and 2 girls; photo shows roof and walls (north and south) standing. A 10-mile path, 100-250 yards wide, with damages at intervals, extended from 2 SW Lillian to 4 NE Harperville.								
MISSOURI													
Northeast Missouri on Mississippi River	3	Late afternoon						2	4	Thunderstorm			
					Lightning struck empty gasoline barge on river. Barge blew up killing two workmen.								
Columbia, Boone County	4	5:25 AM								Strong vertical current			
					Radiosonde balloon from Columbia Weather Bureau ascended from 933 mb to 711 mb in 4.5 minutes. Public report of hail within three miles of station.								
Newburg, Phelps County	4	9:00 AM						1		Thunderstorm			
					A man working in wooded area killed by lightning.								
Lamar, Barton County	4	9:00 AM							4	Tornado			
					Metal barn picked up, destroyed, deposited over wide area. Two head of cattle killed by flying metal. Damage occurred at this one spot, no visible tornado path.								
Springfield, Green County	4	10:45 AM							3	Thunderstorm			
					Routine wind damage except that 1" x 1/4" board was picked up from a pile of lumber and blown through side of trailer home on an adjoining lot in Springfield.								
Houston, Texas County	4	11:45 AM	3/4						4	Tornado			
					Destroyed buildings and overturned heavy machinery in narrow belt 3/4 mile long. Movement was northwest to southeast. Winds were not strong prior to sudden damaging occurrence.								
Scott, Dunklin, Pemiscott Counties	4	Late afternoon							4	5	Thunderstorm		
					Damage by gusts of wind to airplane hangar, destroying three aircraft. Roof blown off of several substantial buildings. Large bus blown off highway. Lightning struck gas storage tanks at service station, exploding tanks.								
Clarence, Shelby county	4	unknown	1/4	30					4		Tornado		
					Cattle self feeder with 1000 lb. steer in it picked up and deposited 100 feet away. Twenty foot portable building moved 300 feet. Other small buildings destroyed in narrow path.								
Cape Girardeau, Cape Girardeau County	16	2:00 PM							1	5	Thunderstorm		
					Extensive severe wind damage to buildings occurred in Cape Girardeau at the time of a cold frontal passage. One death due to drowning in flooded creek. Rainfall up to three inches. Roofs of new structures blown off, wall of one brick building collapsed and store fronts blown out in the city.								
Entire State	18									5	Hail		
					In Andrew County, marble size hail was two to three inches deep and snow plows were used to clear the road. Golf ball size hail was reported in the afternoon in Franklin County. At Doniphan, in Ripley County, roofs of new buildings were penetrated by hail 1.600 insurance claims in city of 1800 population. 1/4 inch hail reported throughout the state. In most cases little surface wind, strong winds at Doniphan were an exception.								
MONTANA NEBRASKA Dundy to Phelps Counties	12		125	50	0	0	0	4	0	0	Wet Snow		
					Utility lines and poles snapped as a result of heavy snow accumulation								
Entire State	16									4	Wind		
					Trees, roofs, utility lines, etc. suffered from winds with gusts in excess of 60 mph over all the State. Near blizzard conditions were reported in the panhandle.								
NEVADA											No report received by printing deadline.		
NEW HAMPSHIRE Southern portion	6				0	0	4	0	0	0	Floods		
					Moderate to heavy rainfall combined with snowmelt to cause flooding of many low-lying areas. At Nashua, a garage roof collapsed under the weight of a rain-soaked snow cover on the roof, and heavily damaged a new station wagon.								
NEW JERSEY											None reported		
NEW MEXICO Northeast Plains Area	10	Afternoon							0	0	4	0	Wind
					Wind, possible tornado, damaged buildings at Vallejos Ranch, west of Springer, Gelfax County. Main house adobe walls moved nearly a foot off their bases and extensively cracked. Vegas loosened and moved. Damage \$12,000. Roof of Tucuman (Quay County) Municipal Airport hangar blown off, 100 feet into the air and 300 feet from the hangar. Damage \$1,200.								
McKinley and Valencia Counties	15	Afternoon							0	8	5	0	Wind and dust
					Winds to 60, with gusts to 82, miles per hour in McKinley County. Sandblasts in Gallup-Theriot area damaged roofs, fences, windows, and minor brick walls. Dust storm with near zero visibility in Grants-Hilam area of Valencia County caused chain pileup on highway of about 20 vehicles, with high injuries. Winds to near 50 miles per hour general in northern third of the State.								

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
NEW YORK										
Statewide	6-7							6		Heavy rain, wet snow, freezing rain, high winds
										Severe winter storm with combination of heavy thunderstorm rains changing to wet soggy snow and rain freezing in many areas; also gale to near hurricane force winds. Winds ranged between 50 and 75 mph over much of the state and was reported at 113 mph by a reliable gage in the Buffalo area. Damage and destruction was widespread from winds, heavy wet snow, and freezing of surfaces. Power and communication lines down, roofs caved in and scores of traffic accidents resulting in many deaths and injuries. Jamestown area classified storm as worst blizzard of the year and hundreds of schools and other gathering places forced to close as well as much traffic bogged down and abandoned for many hours. Cattaraugus, Steuben, Allegany and Livingston counties hit by heavy drifting snow, violent winds and blizzard conditions. Much of the north-eastern area under near blizzard conditions for many hours with new snow of a foot or more. Southeastern counties plagued with freezing rain and some flooding along with high winds.
Area east of Lakes Ontario and Erie	10							4		Severe snow squalls and gale winds
										Severe snow squalls and gale winds off Lake Ontario produced near blizzard conditions for many hours over parts of Jefferson and Lewis counties. Most highways were drifted closed. Similar conditions prevailed east of Lake Erie over parts of Cattaraugus, Genesee, Erie, Allegany and Wyoming counties.
Central counties	12							4		Wet snow, freezing rain, high winds
										The central counties, especially the Syracuse, Utica, Rome and Oneida area, received heavy wet snow, freezing rain and high winds, closing most schools and blocking many highways.
Chautauqua County	17-18							5		Flooding
										The Sunset Bay area near Lake Erie where Cattaraugus Creek flows into the Lake overflowed into thickly settled area. Mild weather causing heavy snow melt and ice jam breaking sent 5' or more water over widespread residential area. Some 500 forced to flee homes.
NORTH CAROLINA										
Beaufort, Martin, Pitt Counties	5	Day			1	0	4	0		Wind
										Several occurrences of local wind damage in connection with passing low pressure storm. Roofs damaged, cement block walls blown down, plate glass broken, antennas blown down. Child killed by falling timbers when building under construction blew down.
Western North Carolina	12				0	0	5	0		Rain, wind
										Heavy rains during day and evening caused flash flooding on a number of streams in Mountains and western Piedmont. Many earth slides, damaging highways, roads, water mains and drainage facilities. Scattered wind damage to communications lines and roofs.
Buncombe County	19	10 pm			0	0	4	0		Electrical
										Home nearly completely destroyed when struck by lightning. Damage unusual in that no fire occurred; walls blown outward by force.
Wilson County	21	3:45 pm			0	1	3	0		Wind
										Wall blown down from building under construction; workman struck and seriously injured.
NORTH DAKOTA										
OHIO										
OKLAHOMA										
Okmulgee and Delaware Counties	4	3:00 a.-4:00 a.			0	0	4	0		Electrical
										Two homes and their contents were lost when lightning struck and burned them to the ground—one at Morris in Okmulgee County, and the other a farm home near Euch in central Delaware County.
Frederick, near Tillman County	4	5:25 a.	7	*2	0	0	5	0		Tornado and high winds
										High damaging winds accompanied squall line activity moving through area. Small tornado first hit a farm 5 miles west of City where windows were blown out of house, a tractor demolished, and two barns destroyed and strewn in all directions. Spotty damage along the path indicated movement east-northeast with occasional touch-downs ending 2 miles northeast of City where a farmstead was heavily damaged. Several farmsteads were damaged in Burt Lake vicinity, and two homes heavily damaged just north of City. Extensive straight wind damage occurred up to 2 miles south of the main path in Frederick area. Greatest damage to cotton compress with scattered lesser damage over City and up to 2 hours of power outage.
Cyril to Cement, Caddo County	4	6:00 a.-6:35 a.			0	0	4	0		Wind
										Squall line moving southeastward through area provided a three hour power failure, demolished Cyril Highschool bus barn, tore the
OKLAHOMA (Cont'd)										
Tulsa Area, Southeast Osage and Tulsa Counties	4	8:45 a.-9:00 a.			0	0	3	0		Wind
										roofing from school gymnasium along with many other homes and a bank, broke numerous windows, and damaged at least 30 TV antennas. Extensive damage also received at Cement where a warehouse was destroyed and seven other buildings damaged.
North-Central Counties	10	8:20 p.-9:16 p.			0	0	4	0		Wind and hail
										Squall line passage through area produced locally high winds unofficially measured at 60 MPH with gusts to 90 MPH at Tulsa North Airport which nearly demolished a Piper Coupe. Several windows were blown out and power outages reported over Tulsa, while fastest mile of wind reported at Tulsa Weather Bureau Airport Station was 26 MPH from the south-southwest, with gusts up to 55 MPH. One barn at Broken Arrow also heavily damaged by wind.
Duncan, Stephens County	17	6:53 p.			0	0	0	0		Funnel aloft
										Damaging winds accompanied line of moderate thunderstorms moving east-northeast across area. Heaviest wind damage was in Garfield County just west of Eromlin at 8:25 p. where a large hay barn was demolished and four other outbuildings damaged. Several plate glass windows were blown in at Erid where winds were measured up to 40 MPH. Alfalfa County damage was limited mostly to roof damage in Alva on two business buildings, and many homes in the Indian Hills district. Scattered damage occurred in Grant County from Pond Creek to Jefferson with wind destroying 3 farm structures and damaging 9 other buildings. Scattered hail fell over area, most of 0.5-inch size, with up to 1-inch size reported at Blackwell in Kay County at 9:16 p.
Extreme Northwest and Panhandle Counties	18	9:00 a.-4:00 p.			0	0	4	0		Wind and dust
										Small funnel aloft sighted over southwest part of City that remained for a few minutes and then dissipated without touching ground.
Pottawatomie County	18	2:45 p.	6	*1	0	0	?	0		Wind, hail
										High winds over area recorded at 40 MPH, gusting to 50 MPH at Guyton, and with gusts up to 60 MPH reported over the Panhandle. Dust storm kept visibility mostly 1/4 to 1/8 mile with reductions to near zero at times. Wind at Guyton broke tree limbs, blew down telephone wires and toppled a 35-foot metal sign that damaged two bars. Major damage at Lawrens where two trailer houses were badly damaged when blown over just south of town. Indicated property loss from wind damage.
Johnson, Pontotoo, Coal, Atoka, and Bryan Counties	18	5:00 p.-6:00 p.	60	*20	0	0	4	0		Rain, wind and tornado
										Strong storm cell moved from northeast of Tecumseh to 3 miles north of Earlsboro. Heavy wind damage reported to barns and outbuildings with some damage to dwellings caused by hail up to 3/4-inch size.
South-Central Counties	24	6:00 p.-9:45 p.	83	*1-10	0	0	*5	0		Hail
										A north-south line of thunderstorms moving eastward across the area was accompanied by damaging winds and blinding rains of up to 1.78 inches measured at Tupelo. Heaviest unofficial rains estimated near 8.0 inches just northwest of Tupelo. A stalled motorist observed a funnel aloft pass over S. H. 99 just north of Pontotoo and move northeast. This funnel believed to be the same tornado that lifted a barn momentarily from its foundation just north of Tupelo and partially destroyed a barn northeast at about 5:30 p. High winds blew two 35,000-pound semi-trailer trucks off S. H. 48 just south of Wapanucka, while one house in town was blown from its foundation. Scattered wind damage extended south into the Roberts area in central Bryan County with damage mostly to barns, garages, TV antennas, roofs, and from downed electric and phone lines. Damage set at \$30,000 with about 15 percent from tornado and 85 percent from wind.
Custer County	30	Afternoon			0	0	?	?		Rain
										Hailstorm first hit at Elmore City in southern Garvin County and moved southeast across central Murray, northeast Carter, and southern Johnston Counties, and then curved east-southeast across northwest Bryan County. Numerous cells within this system provided hail swaths of varied length along path with most places receiving 1.5-inch size hail or larger that occasionally covered ground. Larger hail ranged up to 3.8-inch size 2 miles south of Davis at 7:30 p., up to 2.2-inch size at Ravia from 8:20 p. - 8:40 p., up to 4-inch size jagged chunks at Fishbaine from 8:45p.-9:05 p., up to 2.7-inch size which fell at Cobb for 20 minutes, and up to 2-inch size at Armstrong. Greatest damage was to roofs, siding, windows, neon signs, and to numerous automobiles which were severely dented.
Gotton and Stephens Counties	30	3:00 p.-10:30 p.			0	0	?	?		Rain, hail, and wind
										Stafford area, located 8 miles west-northwest of Clinton, reported unofficial rainfall amount near 4.25 inches.
										Thunderstorm activity across area provided heavier amounts of 2.45 inches at Walters, 2.40 inches unofficially at Duncan and near 3.0 inches at Marlow. Hail fell at Walters for ten minutes with stones 0.5- to 1.5-inch size on north side of City. Wind gusting

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1963

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					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (Cont'd)	occasionally to 40 MPH accompanied hail which covered the ground mainly over a path 30 yards wide and two miles long. Damage was mostly from broken windows and damaged roofs and siding, with one adjuster listing 250 claims. Hail also fell in the Duncan area along a 4- by 20-mile strip from 6 miles south of Duncan to 13 miles north-northeast. Hail size ranged from 0.5 to 0.8 inch near Beckett, up to 2-inch size two miles south of Duncan, and up to 1.5- and 2-inch size in the Bray area.								
Cotton and Stephen Counties (Cont'd)									
Oologah, Rogers County	30	3:30 p.			0	0	4	0	Electrical
									Cafe on U. S. Highway 169 two miles southwest of City struck by lightning and totally ravaged by fire.
Oklahoma and Payne Counties	30	Early Evening			0	0	4	0	Electrical
									Lightning struck and heavily damaged a hay-filled barn in southeast part of Oklahoma City, while moderate damage was caused by lightning striking a home in the southwest part of the City. Payne County lightning damage resulted from a burned barn 12 miles west of Stillwater at about 5:15 p., minor damage within Stillwater, and a burned home and contents 2 miles east of Yale.
Duncan, Stephens County	30	Between 4:00 p. and 5:00 p.	2	50	0	0	3	0	Tornado
									City employees watched a small tornado dip water out of a small lake 2.5 miles northeast of City and demolish a small concrete building at the City of Duncan's water filtering plant.
Pauls valley, Garvin County	30	After 6:00 p.	Short	Narrow	0	0	7	7	Hail
									Hailstones up to 1-inch size fell over area during heavy rains.
Ada, Pontotoc County	30	Near 8:20 p.			0	0	4	0	Electrical
									Empty house struck by lightning causing windows and frames to blow out and with resulting fire ravaging the entire structure.
OREGON									
West of Cascade Mountains	14	Afternoon			0	0	4	1	Thunderstorm
									Thunderstorm, fairly well distributed, over much of western Oregon. Lightning strikes caused scattered damage to buildings, electrical installations and equipment.
Nest of Cascade Mountains	27	Most of the day			0	6	6	1	Windstorm
									Intense low center moving eastward considerable distance north of State's border produced hurricane force winds along Oregon coast with speeds of damaging proportions persisting to the crest of the Cascade Mountains. Gusts of over 100 miles observed on unofficial Coast Guard and Airforce radar station anemometers. Thousands of power and telephone service interruptions, large number windows smashed, roofs damaged, some farm buildings demolished. At least 6 serious injuries, many hundreds of trees blown down.
PACIFIC AREA	None reported								
PENNSYLVANIA									
South Central Counties	27	5-7 P.M.					5		Strong Winds
									High wind unroofed several homes, damaged many others, broke a number of windows and toppled a cement block wall in Cambria, Huntingdon, and Franklin Counties.
Marietta and Dover	27	7:30 P.M.	18	15			4		Twister
									The tornado which first struck in Dover, ripped the roof off a building and carried it 50 feet, where it slammed into a garage. A car and a truck in the garage were damaged by falling debris. From Dover, the tornado moved eastward but skipped over to Marietta, where it demolished two large tobacco barns, uprooted trees, and damaged several homes. The 5000 lbs of tobacco stored in one 320-foot tobacco barn were scattered over a half mile area.
PUERTO RICO	24-26				0	0	0	0	Heavy rainfall
									The passage of a cold front on the 26th brought heavy rainfall and stronger than normal winds through March 26. Some minor crop damage resulted but due to the lack of a sufficient rainfall-soil moisture balance which existed several weeks prior to frontal passage, serious flooding was averted.
									Minor flooding was reported along the lower tributaries of the rivers Arecibo, Comy and Manati the morning of the 26th.
									Rainfall was the heaviest since the flood producing rain of last October.
									Rainfall to the Virgin Islands during this some three day period ranged from less than one-half of an inch on St. Croix to two-three inches on St. Thomas and St. John with no flooding reported.
RHODE ISLAND	None reported								
	SOUTH CAROLINA								
Uptate South Carolina	5-6				1	0	5	0	Rainstorm
									General heavy rains with amounts exceeding 4 inches in some locations caused a considerable number of washouts, damaging bridges, culverts and roads.
Uptate South Carolina	12-13				0	0	5	0	Rainstorm
									Rains up to 3 inches fell in approximately the same area as on the 5-6 causing aggravation of the damage experienced in the previous storm.
Near Peedee	18				1	0	0	0	Flooding
									One fatality from drowning.
	SOUTH DAKOTA								
Western and Northern sections	16						4		Blizzard, Heavy Snow and Icing
									Blizzard conditions preceded by freezing rain. Many telephone and power lines and poles broken due to icing and strong winds. Heaviest snow in and near Black Hills where 1 to 1 1/2 feet of snow fell. Snow depth tapered to 1 to 2 inches in northeastern part of state. Rapid City spent \$14,000 for snow removal. Possibly the most spent at any one time since blizzard of 1949. Two deaths in Rapid City were attributed to storm. One man in his 60's died of heart attack due to shoveling snow, and one premature baby was lost due to the fact that mother could not get to hospital in time. Livestock loss light.
	TENNESSEE								
West Tennessee	4	Evening			0	0	5	?	Wind, rain and hail
									Numerous heavy thunderstorms moved eastward and caused scattered local wind damage to buildings, trees and utility lines. Heaviest damage was in Ripley and Dyersburg areas where heavy rains did extensive damage to merchandise in unroofed buildings but damage extended eastward to the Kentucky Lake area. Hail was reported in several locations. Greatest damage due to wind.
East Tennessee	5	Through-out day			0	0	5	?	Rain, wind and electrical
									Heavy rains during thunderstorms caused flash flooding on numerous streams flooding streets, highways, business and residential areas, damaging bridges and roads, and eroding farmlands. Heaviest damage was at Sevierville, Sevier County where about 50 families were forced to evacuate their homes. Most damage due to flooding, only minor damage by wind and lightning.
Lawrenceburg area, Lawrence County	11	3:10 p.	10	300	0	1	5	4	Tornado
									Tornado first struck near Highway 64 about 7 miles west of Lawrenceburg and moved northeastward to the Etna Ridge and Cross Roads communities 7 miles north of Lawrenceburg. A woman suffered cuts and bruises at the Cross Roads community. Several houses and barns were destroyed or damaged, utility lines downed, and trees uprooted.
Murfreesboro area, Rutherford County	11	4:20 p.	2	100	0	0	4	0	Tornado
									Tornado struck Versailles Community in southwest corner of county destroying 5 farm buildings and damaging 2 homes. Storm moved northeastward. Fungal cloud reported seen.
Wayne, Lawrence, and Giles Counties	11	5:00 p.	30	100	0	5	5	4	Tornado
									Tornado first struck about 5 miles south of Collinwood in Wayne County where a family of 4 were injured when their home was demolished and they were blown 200 yards into a field. Two members of the family received broken limbs and the other two minor cuts and bruises. Tornado moved east-northeastward through a wooded area to the West Point Community 14 miles southwest of Lawrenceburg where damage was heavy. Other communities in path were Dunn 3 miles south of Lawrenceburg, New Prospect east of Lawrenceburg, and near Bodenham in Giles County. Also a child received minor injuries at the Wesley Chapel Community in Lawrence County. Several homes, a church and other buildings were damaged or destroyed, livestock killed, and utilities and timber received extensive damage.
McKinville area, Warren County	11	6:30 p.	6	100	0	0	5	3	Tornado
									Tornado first struck the Banner Community south of McKinville and moved southeastward to the Sylvia Community. Several homes, farm buildings and a community store were damaged or destroyed, trees uprooted, and utilities damaged.
Jasper area, Marion County	11	7:00 p.	15	200-1000	0	6	5	4	Tornado and hail
									Tornado first touched down at New Hope Community near South Pittsburg moving northeastward. Next and heaviest hit were the Cedar Grove and Hancock Road areas 2 miles south of Jasper where 30 to 50 homes were damaged and 6 persons received minor cuts and bruises. Numerous cattle were killed in the Havron Chapel Community and a church at Ebeneter was demolished. Tornado dissipated as it moved up the Squatchie Valley with only strong winds and slight damage reported further northeast. Some 75 businesses, homes and furnishings, and outbuildings were in various stages of destruction. Trees, utilities, automobiles, and fences were badly damaged. Heavy hail was reported.

See reference notes at end of table.

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MARCH 1963

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					KILLED	INJURED	PROPERTY	CROPS	
TENNESSEE (Cont'd)									
Parrottsville area, Cocke County	11	10:00 p.	10	200	1	1	5	4	Tornado
									Tornado first struck between Parrottsville and Salem where several houses were destroyed, barns unroofed, and trees uprooted. A 17 year old boy was killed there when a brick wall collapsed on his bed, and a woman received minor burns from a stove as the house collapsed. Tornado moved eastward and dissipated in the mountains.
East and Central Tennessee	11-12				4	3	6	?	Rain, wind and lightning
									Heavy rains, up to 6 inches, during thunderstorms caused severe flash flooding and heavy damage in many areas, particularly in Sevier and Marion Counties. In Harbin County nearly 100 homes washed away and damage was heavy in many other areas. In Sevier County alone 150 to 200 bridges were washed out. A family of 4 drowned when their home was washed away by the Sequatchie River near Jasper. A total of at least 500 families were forced to flee their homes; 200 at Sevierville. Three women were hospitalized for shock and exposure after rescue from their car which was washed off the highway near Gatlinburg, Jackson County. Rain and floods caused numerous landslides and did heavy damage to bridges, roads, streets, homes, businesses, automobiles, boats, farmland, and livestock. There was wind damage in scattered areas to buildings, utilities, trees and automobiles. Lightning damaged utilities and started fires in a few areas. Most damage was due to heavy rain and flooding.
Putnam County and Smith County	16	5:00-11:00 p.			0	0	5	?	Rain
									Heavy rains damaged roads, fences, bridges, culverts, drowned livestock, flooded buildings and basements, and eroded farmlands.
Lebanon area, Wilson County	16	7:30-11:00 p.			0	0	5	?	Rain
									Heavy rains during thunderstorms left 4 feet of water standing in downtown Lebanon. More than 15 business houses were flooded, 2 blocks of homes were evacuated, several rural bridges were washed out, and roads and farmland damaged.
Clarksville, Montgomery County	19	Forenoon			0	1	3	0	Wind, rain and hail
									Plate glass windows were broken at several businesses and a woman was cut by flying glass. Roofs, chimneys, TV antennas, trees, utilities, and outbuildings were damaged in and near the city. Most damage due to wind, only minor damage by rain and hail.
Portland area, Robertson County	19	12:40 p.	15	1000-6000	0	2	5	3	Tornado, rain and hail
									Strong winds, which probably included a tornado, accompanied by excessive rain and hail struck an area from Orlinda and Barren Plains in Robertson County about 7 miles west-northwest of Portland to about 8 miles east-southeast of Portland moving east-southeastward. Many residents said they either saw the funnel shape cloud or heard the roar of a tornado. Hail reported the size of marbles covered the ground to a depth of 2 1/2 inches. Some buildings were demolished and some heavily damaged while others nearby were undamaged; a total of 400 to 500 buildings were damaged. Heaviest damage was north of Main Street in Portland. Utility poles were snapped, trees uprooted, cattle killed, and railroad signals with large concrete footings pulled from the ground and blown away. A man and wife suffered minor cuts and bruises when their house trailer was blown over. Heavy rain added to damage.
Smithville, DeKalb County	19	4:00-4:10 p.			0	0	3	0	Hail
									Hail reported as large as English walnuts sent cattle scurrying for shelter and did minor roof damage.
Lawrenceburg area, Lawrence County	19	4:25 p.	3	Unknown	0	0	4	3	Windstorm
									Windstorm moving eastward struck the Cross Roads Community where a large dairy barn was demolished killing 20 cows. Also trees, utilities, homes and farm buildings were damaged.
Monteagle area, Grundy, Franklin, and Coffee Counties	19	5:15-5:30 p.	5	1*	0	0	5	3	Windstorm and hail
									A severe windstorm with hail and lightning hit parts of several counties. Hail from 1/2 to 1 1/2 inches in diameter was reported. Homes, businesses, farm buildings, utilities, timber, fences, and poultry were heavily damaged or destroyed by wind at Pelham, Grundy County, with lesser damage at Rutledge, Coffee County, near Alto, Franklin County, and at Monteagle. Storm moved eastward.
White County	19	Late Afternoon			0	0	3	?	Hail, rain and wind
									A brief electrical storm accompanied by high winds, rain, and large chunks of hail damaged windows, windshields, television antennas, utility lines, a transformer, and school supplies.
Cleveland area, Bradley County	19	7:15 p.	5	150	0	3	5	0	Tornado and rain
									Tornado moved eastward through northwest Cleveland damaging at least 3 businesses, a church, numerous automobiles, several homes, garages, trees, utilities, and nearby farm homes, barns, and other buildings. A man suffered a back injury when blown into the basement of a demolished supermarket, and a man and boy were cut by flying glass when their home was damaged. Rain added to the damage of building contents.
TENNESSEE (Cont'd)									
Near Athens, McMinn County	19	7:30 p.	3	200	0	1	4	?	Tornado and rain
									Funnel sighted as tornado demolished a barn, crib and garage, badly damaged a house, and cut a swath through timber 5 miles west of Athens. Other roof, porch, shed, and automobile damage, and livestock injury was reported in the area. A woman was treated at a local hospital for shock and dismissed.
Near Mountain City, Johnson County	20	Night			0	0	5	0	Wind
									Strong winds hit the Rainbow Burley Warehouses on Highway 421 south of Mountain City demolishing one of the houses and doing great damage to a second one.
TEXAS									
Brownfield, Terry County	10	2:30 p.	?	?	0	0	?	?	Wind
									Winds gusting to 60 mph destroyed a 79 x 20 foot building, leaving only a small north part of the building standing. The rest of the structure was picked up and carried about 40 feet by the wind and stream like match sticks over the highway. The building was a storage shed.
Jonah, Williamson County	10	10:00 p-10:30 p	short	200	0	0	?	?	Tornado
									A small tornado caused minor damage in the small community of Jonah, disrupting power and telephone service, uprooting small trees, smashing signs, blowing over barns and other farm out-buildings, and wrecking an unoccupied building. On one farm it picked up a four-wheeled cotton trailer and dropped it on the opposite side of a barn from where it had been parked. All four tires were blown out.
W. Mart, McLennan County	10	10:13 p.	1	13	0	0	3	0	Tornado
									A small tornado dipped down on Edgar Johnson farm a few miles west of Mart, cutting a path 1 mile long and about 40 feet wide. The tornado destroyed one garage and two barns. Damage was estimated at \$2000.
Kaufman, Kaufman County	11	12:15 a-12:20 a	2	33	0	0	5	0	Tornado
									A small tornado bounced up and down in a circuitous course through Kaufman, damaging 30 to 50 buildings. The biggest single loss was the destruction of a 100 x 40 foot grain storage building owned by the Nash Grain Company. Damage to this building alone was estimated at more than \$100,000. The tornado passed through a thinly populated part of town. It hit two blocks east of the town square, spring in from the southwest. The tin roof of the AA Farmers Cooperative Gin was strewn over four blocks. Miraculously, no one was killed or injured. At one residence, wallpaper was peeled off the walls. Total damage was estimated at \$300,000.
Seymour, Baylor County	29	afternoon	?	?	0	0	?	?	Hail
									Hail, with largest stones one to one and one-half inches in diameter caused considerable damage to flat roofs in the business district of Seymour.
Panosh, Cottle County	30	4:55 p-5:30 p	25	*18	0	0	5	?	Hail, wind
									A hailstorm caused considerable property damage to a large area from 10 miles NW of Panosh to 11 miles SSE to 3 miles N to 16 miles south of Panosh. Largest hailstones were 2 1/2 inches in diameter, with average size 1 1/2 inches. The ground was entirely covered to a depth of 1 inch. Wind gusts measured at 55 mph by a Taylor windscope accompanied the storm. Hail damage was estimated at 70,000 dollars; wind damage at 5000 dollars.
Brownfield, Terry County	30	afternoon	?	?	0	0	5	0	Hail
									A hailstorm caused approximately \$200,000 damage to residences of Brownfield. The center of the storm was in the southeast section of town with the hail beginning about the blocks north of the Tahoka Road and going south up Harris Street, down to the center of town and out to the 1000 block east of the square.
Ropesville, Hockley	30	afternoon	?	?	0	0	?	?	Hail, rain
									A hailstorm, with largest stones golf ball size and larger, caused extensive damage to roofs, automobile finishes and window glass. Damage was estimated in the thousands of dollars.
UTAH									
No report received by printing deadline.									
VERMONT									
Northeastern portion	6-7				0	0	3	0	Snow
									The storm dropped 8 to 10 inches of new snow upon an existing snow cover of around 3 feet or more deep. Attended by fresh to strong winds, the storm proceeded to partially paralyze this section of the state. Main streets and highways were kept open to traffic but side streets and secondary roads became impassable. Schools in many communities were closed on the 7th. The roof of a large barn in East Haven collapsed under the weight of the accumulated snow.
Granville	26				0	0	3	0	Temperature and rain effects
									About a mile of Vermont Route 100 was washed out when an ice and mud slide tore up the highway. A combination of light rain on the 25th and unseasonably mild temperatures on the 25th and 26th loosened thick snow and ice and mud layers which slid down steep embankments onto the road.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
VERMONT (Cont'd) St. Johnsbury	31	Evening			0	0		0	Snow melt and temperature effects
			Tons of mud, loosened by snow melt and unseasonably mild temperatures, slid down an embankment. This covered a 25 yard section of U. S. Route 5 near Hazen Field in St. Johnsbury to a depth of about a foot.						
Franklin County	Week of 25th				0	0	4	0	River floods
			Floodings, mostly minor, took place during the week as follows: Streams between St. Albans and Fairfield overflowed their banks and flooded sections of State Route 36. Road remained partially submerged at month's end. Ice jams on the Missisquoi River caused some floods near Richford and West Swanton. At Richford, secondary roads were made impassable by huge chunks of ice floating in about a foot of water. Dynamite was required to break up the ice jam. At Swanton, the jam nearly doubled the normal width of the river. The Lamolle River overspilled its banks briefly on the 29th and 30th--long enough to deposit tons of ice on some secondary roads in Georgia.						
U.S. VIRGIN IS.			See Puerto Rico						
VIRGINIA Wise County	6	Morning			0	0	4	?	Flash Floods
			Five stores were damaged in the community of Coeburn as one-foot depths flooded into basements and under doors over merchandise. Some minor flooding occurred in other southwestern counties as a cold front brought near one-inch rainfall during the early morning hours.						
Norfolk	6	Afternoon			1	0	?	?	High Winds
			At the Norfolk Shipyard a 35-ton crane was dislodged by the wind and crashed into a smaller crane, killing one person. Highest gust 63 mph recorded at 12:08 PM at the Norfolk Municipal Airport. High winds accompanying the cold front which brought flooding earlier to the southwestern portion of the state caused some wind damage but of a minor degree to most of the Tidewater area.						
Southwestern Virginia	12				1	?	6	?	Flash Floods
			Prefrontal warming melting snow in the mountains followed by heavy rainfall from a gulf storm brought devastating flash flooding to several southwestern communities. Hardest hit were the eight counties of Buchanan, Dickenson, Lee, Russell, Scott, Tazewell, Washington and Wise. These mountainous areas were ravaged by floods wrecking homes and businesses and forcing the evacuation of an estimated 5000 persons. According to the Red Cross at least 1200 families were affected with 817 homes damaged or destroyed and 134 businesses suffered losses. Highway Department damage report estimated near 300,000 dollars with 52 bridges either washed out or damaged with approximately 800 slides and washouts on the secondary system and 223 slides and washouts on primary highways. One slide accounted for one death in the community of Arns in Wise county.						
WASHINGTON			None reported						
WEST VIRGINIA State except Eastern Panhandle					7	?	?		Heavy rains and flooding
Federal Disaster Areas Logan, McDowell, Fayette, Summers, Monroe, Lewis, Upshur, Harrison, Marion, Mason, Wood, Marshall, Ohio, Brooke, Boone, Cabell, Greenbrier, Lincoln, Mercer, Mingo, Raleigh, Wayne and Wyoming.			Severe flooding occurred on three separate periods from heavy rains and the snow melt during the first period. The first flood period began on March 5 being the most severe in the Little Kanawha basin and other small basins in the North. The most devastating floods occurred in the Guyandotte and Big Sandy River basins during the second period which began March 12. The third flood period began on March 17 when the Guyandotte River and the Tug Fork again rose to about flood stage. This storm moved northward causing floods in the northern portion again with the most severe occurring on the West Fork River. Most of the flood damage will be reported in the River District reports but much damage from preliminary flash flooding will not be included. One such case will be the flooding in Vienna, adjacent to Parkersburg, the night of the 4th from over 4 inches of rainfall. Many families were evacuated, some via boat and extensive damage to homes and streets was done. Another such example is the city of Elkins which is protected from the Tygart River but local runoff flooded streets as much as five feet deep on March 19.						
WISCONSIN MEQUON	19	9-10 AM					3		HAIL
			Four hailstorms with hailstones measuring up to one and one-half inches in diameter; other north shore suburbs of Milwaukee also reported large hail.						
WYOMING			None reported						

* Miles instead of yards.
 † 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 \$50,000,000
 8 \$50,000,000 to \$500,000,000
 9 \$500,000,000 to \$5,000,000,000.

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

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