

U. S. DEPARTMENT OF COMMERCE

Lewis L. Strauss, Secretary

WEATHER BUREAU

F. W. Reichelderfer, Chief

# STORM DATA

MARCH 1959

Volume I No. 3



ASHEVILLE: 1959

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1959

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>ALABAMA</b>									
Walker County Dilworth Community	11	4:15 p.m.			0	1	4	0	Wind
			High winds with prefrontal thunderstorm, blew down four large poultry houses, and damaged other farm buildings.						
Dallas County Jones Community	11	5:00 p.m.			0	0	4	0	Wind
			High winds with prefrontal thunderstorm, other out buildings.						
Leeds, 10 miles E. of Birmingham	21	3:00 p.m.			0	0	4	0	Hailstorm
			Golf ball size hail fell covering ground to depth of 2 to 3 inches winds estimated 40 to 50 miles per hour. Most damage to roofs. Marble size hail also reported from other areas near Birmingham, Double Oak Mountain, Bessemer and Hueytown.						
Enterprise	21	8:00 p.m.	3	150	0	0	4		Tornado
			Path was NW-NE. Apparently touched down at three localities. Blew down barn and tool shed and numerous trees at one locality unroofed barn at second and damaged 3 houses and destroyed several out buildings at the third.						
Jackson	26	Afternoon			1				Electrical
			Lightning killed worker employed at Jackson Lock & Dam construction site.						
Citronelle	26	2:45 p.m.			0	0	3	0	Tornado
			Funnel cloud from thunderstorm apparently touched down momentarily and unroofed one house and caused slight damage to several houses near by.						
<b>ARKANSAS</b>									
Stuttgart, Arkansas County	6	3:00 a.					3		Wind
			A machine shed destroyed. Roofs, awnings and fences damaged.						
Harrison, Boone County	8	8:15 p.					2		Wind
			Roof blown from barn.						
Plumerville, Conway County	10	11:00 p.					4		Lightning
			Fire set by lightning destroyed a barn and killed 74 head of swine.						
Lonsdale, Owensville, and Gravel Hill area of Garland and Saline Counties	14	8:10 p.	11	400	1	7	6		Tornado, hail, and wind
			Extensive damage to houses, out-buildings, automobiles, and timber. One man killed three miles west of Owensville. Funnel cloud reported out of trailing edge of thunderstorm clouds and could be distinctly seen against clear sky to the south. The storm moved north-northeastward. Hail to golf ball size reported, but only slight hail damage.						
Beaton, Mablevale, and Sweet Home areas of Saline and Pulaski Counties	14	8:00 p. to midnight					3	0	Hail
			Scattered hail reported in a band extending northeastward from Beaton in Saline County to Sweet Home in Pulaski County during the late evening. Despite the fact that there were some reports of hailstones to one-inch in diameter, crop damage was negligible due to the early late, and the only property damage reported was in the City of Beaton.						
Vilonia, Opal, and Antioch areas of Faulkner and White Counties	14	9:15 p.	15	50	1	5	5		Tornado and hail
			The storm first touched ground two miles south of Vilonia in Faulkner County and moved east-northeastward to the Opal-Antioch area of White County. One house destroyed near Vilonia. Principal damage was in the Opal Community, where several houses and out-buildings were destroyed or damaged. One person was killed in the Opal area when her house was destroyed. There was considerable timber damage along the entire path of the storm. There was some scattered hail, but no hail damage was reported.						
Moorefield and Charlotte area of Independence County	14	8:25 p.	10	800			4		Tornado
			The storm first struck at Moorefield and moved northeastward to the Charlotte area of Independence County. Principal damage was at Charlotte, where a church was destroyed along with several other buildings and an abandoned C.C.C. camp. Several houses were damaged.						
Batesville, Independence County	14	Evening							Funnel cloud
			Several persons in Batesville and West Batesville reported seeing a funnel cloud during flashes of lightning.						
<b>ARKANSAS</b>									
Moko area, Fulton County, Arkansas to Lexington in Howell County, Missouri	14	8:00 p.	10	400	1	10	4	2	Tornado
			Tornado traveled from near Moko in Fulton County, Arkansas north-eastward to Lexington in Howell County, Missouri. The funnel stayed on the ground over much of the path. Three houses and five barns were destroyed in Fulton County, Arkansas. One person killed at Moko.						
Harrison, Boone County	14	Evening					5		Wind
			Airplane damaged at airport. Roofs and signs damaged.						
Boydsville, 7 miles northwest of Hector, Clay County	14	10:45 p.					5		Wind
			Two barns destroyed and several buildings damaged.						
Paris, Logan County	31	11:00 p.	2	500			4		Tornado
			Feed mill and large chicken house destroyed. Storm moved from southwest to northeast.						
<b>COLORADO</b>									
Grand Junction Area	3	6:00PM			0	0	3		Gusty Wind
			Wind gusts to 68MPH accompanying a frontal passage damaged porches, roofs, and houses under construction.						
Grand Junction Area	13	9:00PM-10:00PM			0	0	3		Gusty Wind
			Strong winds with peak gusts of 40MPH at the airport, estimated higher other areas, caused extensive minor damage to property.						
Eastern Colorado	19 & 20	PM 19th into 20			2	0	6		Heavy Snow
			The storm began as rain afternoon of 19th, changing to snow and continuing on the 20th. The snow was accompanied by high winds that drifted the snow, blocking highways. There was heavy damage to phone lines along the Platte River. Wet snow froze on the lines, causing poles to break under the weight. Two deaths were attributed to the storm. Two men suffered heart attacks, one after shoveling snow & the other while removing chains from his car.						
Northeastern Colorado	24 & 26	PM 24th thru 26th & 28th.			1	0	5		Heavy Snow
			From 10 to 20 inches of wet snow fell on the northeastern plains. Many travelers were marooned & trains, planes, & buses were unable to make their schedules. Power & phone lines again suffered damage as a result of the storm. One woman was killed near Longmont, when the car in which she was riding hit a snow plow.						
<b>CONNECTICUT</b>									
Entire state	6	2 a. - 5p.					4		Rain, flooding, wind
			Precipitation of 1.5 to 2 inches, mostly in 12 hours, caused heavy runoff from deeply frozen ground. Considerable flooding of streets and highways resulted in many areas with most notable case in Bristol where downtown streets temporarily closed due to one foot of water. Sharp rises in streams and rivers with minor lowland flooding; flood alert called in northeast Conn. High winds smashed windows at Manchester and Old Saybrook and downed power lines and trees in scattered areas; property damage from wind estimated \$500-1000. Some schools dismissed during height of storm.						
Entire state	12	1 a. - 10 p.			5	10			Snow, electrical, wind
			Heaviest snowfall of winter yielded depths of 7 inches in coastal areas to 8 to 14 inches inland and marked 71st anniversary of the famous blizzard of 1888 in this section. Storm forced closing of schools in all areas and greatly curtailed industry and business as all kinds of transportation were paralyzed. Many auto accidents but serious injuries few. Vigorous electrical activity with hail occurred ground hiddy, mostly in central sections; lightning bolt knocked man off snow plow at Simsbury with minor injuries; also bolt downed power lines at Middletown. Other widely scattered power failures due to breakage from snow or wind. Fatalities from nonidle pickering when snow clogged auto exhaust and overexertion. Strong winds along shore caused high tides to flood some roads and other property.						
General	21-22	late p. of 21st to late p. of 22nd					2	3	Wind
			High winds of 20 to 30 mph, and peak gusts of 50 to 60 mph preceded sharp cold front passage late on 21st and continued through most of 22nd. Windows broken, trees and power lines downed in scattered areas; strong gust blew for two car collision that caused minor injury to two persons. Winds accompanied by temperature drop from mid 60s to mid 20s in twelve hours						

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1959

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					KILLED	INJURED	PROPERTY	CROPS	
CONNECTICUT Entire state	27	All day			1				Snow, rain
Late season snowfall of 3 to 6 inches inland and one inch mixed with rain in coastal areas resulted in very hazardous driving conditions. Rising temperatures in afternoon improved highways after rash of auto accidents in morning hours. One fatality due to overexertion shoveling the wet, heavy snow.									
FLORIDA									
Polk City Palm County	12	5:00 AM	-	-	0	0	3	-	Wind
Strong, gusty winds, apparently straight line, caused considerable property damage in the vicinity of Polk City during the early morning hours. Two storage sheds destroyed, several residences damaged and a number of citrus trees were uprooted. Considerable damage was also inflicted upon power and telephone lines.									
Palm Beach County	15	6:30 PM	-	-	0	0	-	-	Funnel Cloud
Pilot reported a funnel cloud, possibly touching the ground, in an unhabited area about 40 miles northwest of the West Palm Beach airport.									
GEORGIA									
Southern half	5-6								Heavy rains and wind
Extremely heavy rains during afternoon and night of March 5 and early morning of March 6 caused widespread local flooding and extensive damage to roads, streets and bridges over most of South Georgia. 24-hour rainfall totals ranged from about 2 inches in central Georgia to more than 6 inches in some southern border counties. New 24-hour record amounts for March measured at some stations. Many county schools closed because of washouts on bus routes. Some damage to tobacco beds, but crop damage generally light because few crops planted. Some scattered wind damage in accompanying thunderstorms.									
IDAHO									
Shelley, Bingham Co.	13	4:05 PM	0.4	100	0	0	4		Tornado
Funnel cloud, seen by 3 persons, travelled southeastward through part of the town, then lifted and passed aloft over the rest of the community. Two business buildings were damaged, 4 chimneys toppled and many windows broken. An automobile garage was destroyed and several autos damaged.									
ILLINOIS *									
INDIANA									
Central	6					3	4	0	Wind
Winds up to 70 m.p.h. caused scattered damage. A golf shop and shed were wrecked on U.S. 421 northwest of Indianapolis with damages estimated at \$14,000. Three persons were injured when a tree fell on their car in northern Indianapolis. A 50 foot mobile home was tipped over while travelling on Indiana road number 3 near New Castle. A number of windows were broken and television antennas were blown down.									
North	6						4	0	Snow, ice
Slippery roads caused numerous auto accidents. Several inches of snow drifted and filled roads in northwest. At least 13 persons died in highway accidents most of which were partially caused by weather.									
Central	11						4	0	Snow
Up to 1/2 foot of snow slowed auto traffic and closed a few schools mainly in east central Indiana.									
Rossville, near	14	Evening			0	0	4	0	Lightning
Lightning and resulting fire destroyed a home 4 miles southwest of Rossville.									
					0	0	5	0	Wind
High winds for several hours caused window breakage, downed television antennas, and broke power lines in scattered localities. A factory building in Elkhart was deroofed and three display garages were collapsed. Gusts reached 63 m.p.h. at South Bend at noon.									
Lafayette	25	4 p.			0	0	1	0	Wind
Gust of wind damaged a building.									
IOWA									
Entire State	4-6					19	14		Heavy snow
While general over state, the heaviest falls 12 to 20 inches occurred in a band 100 miles wide from Wayne and Appanoose north and northeastward. All traffic halted in heavy snow area. Many motorists stranded. In Des Moines 20,000 automobiles were abandoned by their owners. High winds piled the snow in drifts 6 to 10 feet, and in some places in northeast Iowa, 15 to 20 feet.									
Entire State, except NW and SE corners.	14-15					6	1		Heavy snow
The heaviest falls were concentrated from Webster County eastward to Clayton County and northeastward to Howard County. In Chickasaw County and part of Howard County there were 12 inches of new snow. High winds again drifted the snow, with drifts 10 to 15 feet deep in the northeast. All traffic was halted in the heavy snow area. In Des Moines 5000 basketball fans were compelled to spend the night in the Auditorium. Severe breakage of power and telephone lines in the southern counties. In Des Moines 200 power lines were down and 3000 homes were without electricity. In the State 1400 telephone lines were down.									
Spencer-Mason City area in northern Iowa.	26					1	0		Ice and snow
While heavy rains occurred in the south the damaging ice and snow occurred only in the northwest and extreme north with 4 inches of wet snow in O'Brien and Clay counties. In the Spencer to Mason City area ice accumulated to a maximum thickness of 1 1/2 inches. There were 150 poles broken, 500 long distance telephone lines down, and service to 3000 telephones disrupted. A total of 39 communities were in the damage area.									
KANSAS									
Eastern half of State.	14	3p.-9p.				2	1		Wind and snow
Strong northwest winds with gusts of 50 to 70 mph caused damage to T. V. antennas, signs, power and telephone lines, trees, roofs, and windows over much of eastern Kansas. The storm began in the north central counties about 3 p.m. and reached as far east and south as Kansas City and Wichita by 9 p.m. In the central counties there was considerable dust blowing. Snow falling with the wind made dangerous driving conditions with almost zero visibility. Many cars were stalled and numerous accidents occurred. Two women were killed in a truck-car collision near Leonardville in Riley county. The worst of the storm lasted near an hour. The most severe wind and heaviest snowfall were in the northern counties.									
Western counties	20	afternoon and evening							Wind and snow
Strong northwest winds of 30-60 mph and heavy snow caused hazardous driving conditions, roads became slick and with poor visibility driving was greatly restricted for several hours. Some trees and power and transmission lines were broken. The worst of the storm was in the western counties from the Arkansas river north to Nebraska. Goodland had 3 inches of snow and numerous roads were blocked and schools closed in that area. Rather heavy rain fell in other parts of the state.									
Extreme Western counties	25-26	8a of 25th till noon of 26th							Winds and heavy snow
A storm beginning about 8 a.m. as rain, turned to heavy wet snow combined with winds reaching velocities of 40-60 mph in the extreme northwest counties and continued until the next morning. Snowfall totalled 4 to 9 inches and drifts were 5 feet deep. Main roads were blocked along the Colorado line for several hours and county roads for several days. Some power and telephone lines were blown down and wires broken. Visibilities of zero at times with slick roads caused numerous accidents.									
Kiowa county	25	afternoon							Electrical
Lightning struck southwest of Haviland and wrecked an electric stove in a farm house.									
Marshall county	25	2:30p-6p.							Electrical
Lightning caused some damage to power lines and interruption of service over parts of the county. Several transformers were burnt out and a house in Waterville was set afire but little damage resulted.									
Brown county	25	3p.-3:06p	6	1 1/2			3		Hail
Rather soft hail of marble size fell for 6 minutes stripping trees and bushes, breaking a number of windows, and damaging automobiles and roofs.									

\* ILLINOIS: See end of table for Illinois data.

See reference notes at end of table.

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<b>KANSAS (Cont'd.)</b>											
McPherson county	25	5:30p.	** 220	50			2		Small tornado		
			A small tornado dipped about 5 miles northeast of Heaton, damaging 2 sheds and uprooted trees on one farm.								
Wesmo county	25	8:10 p.							Severe winds.		
			A severe gust of wind caused damage at a farm home 7 1/2 miles northwest of Parsons. Windows were broken, roof partly blown off, trees broken and blown down. A small out building demolished, and the house twisted on its foundation. A large sign board near the county line was blown over.								
Johnson & Wyandotte counties	31	7:30p-8p.							Severe Wind, hail and electrical.		
			Several spot damages from lightning and high winds reported. Hail of walnut size fell at Gardner, Overland Park, Leawood and Prairie Village but with out serious damage.								
<b>LOUISIANA</b>											
Calcasieu Parish, N Hackberry	5	4 AM					2		Tornado		
			Small short-lived tornado knocked down 15 utility poles near Intercoastal Canal.								
Caddo Parish; 10 S Shreveport	20	4:20 p.							Funnel cloud		
Ouachita Parish; 10 W Monroe	20	7 PM							Funnel cloud		
Ouachita Parish Monroe area	20	8:40 pm					4		Hail		
			Hail as large as goose eggs reported in vicinity of Monroe.								
<b>MAINE</b>											
Entire state	4				1	4			Heavy Snow		
			Four to 12 inches of heavy snow seriously delayed traffic and caused accidents on slippery roads. Many schools closed.								
Entire state	6					4			Rain, Snow, Sleet		
			Heavy rain, plus melt water from snow flooded and damaged many streets in the coastal areas and flooded many cellars. Electric power service was interrupted in several communities. In the northern portion precipitation fell as 3 to 10 inches of snow with sleet reported in some localities. Numerous auto accidents occurred.								
Entire state	12-15				11	1	5		Snow, Wind, Glaze		
			Blizzard or near blizzard conditions as 10 to 20 inches of snow fell on the 12th and early on the 13th, continuing as blowing snow in high wind on the 15th. Air and vehicular traffic halted or hampered. Many schools closed. Many auto accidents with one injury reported. Deaths from starvation, boat lost at sea, and a fire blamed on the storm. Thunder and lightning during snowstorm in afternoon of 12th in southwestern Maine. Some freezing rain reported at Bangor and Machias.								
Northern & Central portions	16								Glaze		
			Scattered reports of freezing rain.								
<b>MASSACHUSETTS</b>											
Cape Cod Area	2-5	PM-AM					3		Snow		
			Up to 4 inches of wet snow delayed traffic, caused minor accidents, and felled trees, limbs, and some utility lines.								
Western and North-Central portions	5-4	Late PM-AM					4		Heavy snow		
			Three to 9 inches of wet snow delayed traffic, closed schools in several communities, caused minor accidents and a few utility outages.								
Entire state	6				1	1	5		Rain, Wind, Snow, Glaze		
			Heavy rain and melt water from snow flooded cellars in many localities. Thirty families evacuated at Westfield due to water cascading down steep slopes onto homes. Snow in beginning of storm in northern portion caused skidding accidents, with one injury, and closed schools due to hazardous road conditions. Some road washouts were reported. Some lowlands on Cape Cod were flooded by storm tides reported 2 to 5 feet above normal. High winds caused minor damage inland, sank a boat in Boston Harbor, damaged boats in Cape Cod area and swept a man from a Texas Tower into the ocean south of Nantucket. Freezing rain reported in parts of northern Massachusetts.								
Most of state	9				15		4		Snow, Sleet		
			Snowfall, up to 6 inches, in central Massachusetts caused hazardous travel conditions in all but Cape Cod area. Schools closed in some central Massachusetts communities. Accidents, auto and pedestrian, due to slippery streets and walks caused injuries.								
Entire state	12-15				5	10	5		Snow, Wind		
			Near blizzard conditions as heavy snow and high winds on the 12th and wind and blowing snow continued on the 13th. Air and vehicular traffic halted or severely hampered as 5 inches of snow fell over Cape Cod area and 10 to 20 inches over most of Massachusetts. Scores of auto accidents. Deaths and injuries from exertion, auto accidents and falls. Widespread closing of schools, offices, factories, etc. Wind of 70 m.p.h. with gusts to 100 m.p.h. reported at Provincetown where some chimneys, roofs, and boats were damaged. Thunder and lightning occurred during the snowstorm on the afternoon of the 12th.								
<b>MASSACHUSETTS (Cont'd.)</b>											
Plymouth Co., Bridgewater and Middleboro	21	10 PM						4	Electrical, Rain		
			Lightning damaged a barn and set fire to a factory. Heavy rain flooded roads in some places.								
Entire state	27-28					2	15	4	Snow		
			Snowstorm left slippery roads resulting in many auto accidents.								
<b>MICHIGAN</b>											
Upper Michigan and northern Lower Michigan	5-6	all day					1	4	Blizzard		
			Heavy snow, ranging in depth from 10 to 20 inches, fell accompanied by strong northerly winds of 40 to 50 mph. Schools closed, several buildings collapsed from the weight of the snow. 24 automobiles and 7 trucks stalled overnight near Marquette. One death occurred near Suttons Bay when an ice fisherman died from overexposure - apparently lost in blizzard.								
Entire State	15	Afternoon					3	6	High winds.		
			High winds began in forenoon and continued through afternoon. Widespread damage to plate glass, billboards, TV antennas, roofs etc. Damage to buildings and automobiles from falling trees. Winds reached 50 - 70 mph during afternoon.								
Southwestern Lower Michigan	26	All day					1	3	Heavy snow.		
			4 - 6 inches of wet snow resulted in many auto accidents and in power failure in the Grand Rapids area. 3,000 homes without power for several hours.								
<b>MINNESOTA</b>											
Freeborn, Mower, Fillmore, Winona and Wabasha Counties	5-6	AM to AM					1	0	2	0	Heavy snow
			Heavy snow, varying in depths from 5 to 20 inches, accompanied by 40 mph winds blocked roads in southeast. Many communities and schools closed, motorists stranded and traffic in general badly disrupted. Only casualty reported was a "snow shovelling" death. Small foreign car and operator picked up by wind near Minneapolis and blown against tree.								
Mower, Fillmore, Houston, Winona Counties	14-	PM to AM					0	0			Heavy snow
			Additional snowfall of 4 to 10 inches fell over same area of March 5-6 snow storm. Highways clogged, traffic disrupted. The melting of the heavy snow layer that accumulated on March 5-6 and March 14-15 caused local flooding along the Root River with most serious flooding at Houston and Hokah. The Root River crested on March 25 at both locations; at Houston 17.2 feet, flood stage is 15 feet; at Hokah 45.2 feet, flood stage is 47 feet. This rise was complicated by the formation of ice jams.								
Martin, Faribault, Freeborn, Mower, Fillmore, Houston Counties	26	7A to 6P					0	0	3	0	Heavy snow
			Third heavy snow of the month, 3 to 7 inches, to hit this area. Utility lines damaged and traffic tied up by heavy wet snow. Resulting snow melt runoff from this storm caused another rise on the Root River cresting at Houston, 15 feet, and at Hokah, 49.2 feet, on April 1.								
<b>MISSISSIPPI</b>											
Rankin/Smith Counties; 3N Puckett to beyond Burns	11	8-8:30 a.	20	50				4			Tornado
			Tornado developed 3 north of Puckett, moved ENE thru the Blenville National Forest beyond Burns; no injuries; 2 warehouses, several homes and barns unroofed; many trees downed.								
Simpson County; Dry Creek, 8 mi. NE Magee	11	9 a.m.	Short	30				3			Tornado
			Touched ground at Dry Creek moving ENE; disappeared after few miles. Several houses unroofed, many trees downed.								
Warren County, Vicksburg	20	10:15 p.						4			Wind and hailstorm
			Severe thunderstorm with hail size small marbles caused scattered damage, heaviest to Showboat "Sprague" moored in old Tasso Canal which broke its mooring and moved upstream while play in progress. There were no injuries.								
<b>MISSOURI</b>											
Northern 2 or 3 tiers of Counties	5							5			Heavy snow
			From 5 to 12 inches of wet snow fell causing numerous accidents, stalling cars, trucks, school buses.								
Moniteau-Boone Counties	14										Funnel aloft
			This storm first showed up as a hook-shaped echo on Weather Bureau radar in the vicinity of Eldon, Missouri at about 6:34 p.m. The thunderstorms moved rapidly toward the NNE at about 45 knots, dumping large hail on California, Missouri, and some hail on Columbia. An hour later, a funnel aloft was reported at Edina, Missouri (details below).								

See reference notes at end of table.

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<b>MISSOURI (Cont'd.)</b>										
Edina-Govin area, Knox-Clark Counties	14	8:15 p.	40-50				4		Tornado	
		8:30 p.							Witnesses report hearing a loud roaring sound. This is along the path of the storm which had passed over Columbia, Missouri about an hour before. Tornado moved to near Govin, in Clark County. Many trees, homes, farm buildings damaged. Telephone poles down, farm machinery overturned, & steel grain bin was blown 1/4 mile from its original location.	
Coloma area, Carroll County	14	6:00 p.							Funnel cloud aloft	
Lanton-Christy area, Howell County	14	8:00 p.	10	50			3		Tornado	
									Farm home and several farm buildings destroyed. Tornado path began near Mdko, Arkansas and moved across the border to near Lanton, Missouri.	
Most of Missouri	14-15						5		Wind storm	
									A strong cold outbreak moved across Missouri, with winds of 50-90 mph reported from several places. Many reports of wind damage to roofs, TV antennas, power and phone lines. Heavy snow, with much drifting was reported in the northern fringes of the state. Many thunderstorms, with hail and heavy rains, and strong winds preceded the cold outbreak.	
Kansas City area, Jackson County	31	6:15 p.					4		Thunderstorm	
		6:30 p.							Hail piled up 2 feet deep near 18th and Askw, with hail 3/4 inch in diameter near Country Club Plaza. Lightning hit a power line and disrupted electrical service at Municipal Airport for an hour, closing the field to air traffic.	
Kansas City area, Jackson County	31	8:40 p.							Funnel aloft	
		8:50 p.							Funnel first observed at 8:42 p.m. 9 miles east of Olathe, Kansas. Moved to near Martin City and Hickman Mills. Apparently did not touch ground.	
<b>NEBRASKA</b>										
Eastern third of State	4-5	Late a.m.	Widespread		0	0	4	None	Blizzard preceded by wet snow	
		4th to 5th noon							Many roads blocked. Considerable damage to power and telephone poles and wires, mostly in southeast. 1 killed and 8 injured in traffic accidents during storm.	
Most of State	14	All day	Widespread		1	0	5	None	Wet snow to blizzard	
									Most damage to wires and poles. Most roads blocked. Many cars stalled.	
Southern Panhandle and southeast to east-central and northeast	25-26	a.m. of 25th in west to a.m. of 26th in east.	Widespread		1	0	6	None	Wet snow changing to blizzard.	
									Heavy ice damage to poles and wires from wet snow followed by freezing with strong wind, mostly in south-central and southeast. Many tied in stalled cars. Several injured in traffic accidents. Benefit from moisture to agriculture probably several times the total storm damage.	
<b>NEVADA</b>										
Las Vegas area, Clark County	19						0	0	5	Wind
									Power and telephone lines downed, a porch roof blown off, and other minor damage.	
<b>NEW HAMPSHIRE</b>										
Most of state	4	AM					4		Heavy snow	
									Three to ten inches of heavy snow fell except less along the immediate coastline and in extreme northern portion. Trees and limbs were felled with most damage in southern portion. Utility damage was greatest of season in some areas. Many schools closed. Roads were nearly impassable in some parts of state.	
Entire state	6						4		Rain, Snow, Wind	
									Heavy rain in coastal area and 4 to 8 inches of snow over most of state caused many minor accidents and delayed traffic. Storm tide reported 2 to 5 feet above normal battered the coast without serious damage. Considerable tree and roof damage by wind reported in northern portion.	
Entire state	12-15						5	5	Snow, Wind	
									Blizzard and near blizzard conditions as 12 to 20 inches of snow fell mostly on the 12th but continued to blow and drift in high wind on the 13th. Air and vehicular traffic halted or hampered. Widespread closing of schools, offices, factories, etc. Many auto accidents reported. Deaths from exertion and auto accidents. Wind reported at 7:30 a.m. in gusts at Salem. Thunder and lightning during snowstorm on afternoon of the 12th in southern portion.	
Northern portion	16								Clear	
									Scattered reports of freezing rain.	
Southern portion	27-28				1	4	4		Snow	
									Two to 4 inches of snow caused slippery roads resulting in auto accidents.	
<b>NEW JERSEY</b>										
Hudson County	17	Morning					1		Snow	
									Light snow formed ice on highway in vicinity of North Bergen.	
Statewide	31	Evening					1		Dense Fog	
									Dense fog over most of state night of March 31-April 1.	
<b>NEW MEXICO</b>										
Eastern third	20	all day					4	C	Wind and snow	
									Strong winds reaching velocities of 80 m.p.h. swept the eastern third of the State accompanied by heavy snow in the northeastern corner. Roads were blocked and all travel halted in most of Union and Colfax Counties. Major damage was to power and telephone lines with some urban areas isolated for several hours and rural lines out for several days. Damage to light structures, signs, fences and farm buildings reported in many areas. Crop damage confined mostly to erosion of winter wheat fields.	
<b>NEW YORK</b>										
Statewide	6-7	18-36 hrs.				2	40	6	Gale winds - severe frontal passage - heavy rains changing to driving snow.	
									Severe frontal passage across the State accompanied by heavy rains changing to driving snow in upstate areas, gale to hurricane force winds; gale winds persisting on the 7th. Winds and property damage particularly severe in the Beacon area and other sections of southeastern New York. Widespread property damage due to winds.	
Statewide	11-12	20-30 hrs.				22	30	5	Heavy snowstorm - severe blowing and drifting snow.	
									Heavy snowstorm followed by high winds and near blizzard conditions in upstate sections. Snow depths ranged up to 20 inches in mountain and Great Lakes counties and 8 to 12 inches over most of the State. Severe drifting up to 10 feet with highway traffic near paralysis.	
Great Lakes Counties	16-17	18-30 hrs.				0	15	4	Gale to hurricane force winds, localized heavy lake snow.	
									Gale to hurricane force winds blowing across the Great Lakes produced localized areas of heavy snow, with depths up to a foot. Near zero visibility at times - glazed highways causing severe travel conditions. Unusually high winds resulted in considerable property damage.	
Statewide	27-28	18-36 hrs.				7	numerous	5	Heavy wet snow.	
									Heavy wet snow west to east across central sections of the State with amounts up to 8 to 12 inches. Lesser amounts extreme north and extreme south. Severe traffic tie ups statewide due to unusually poor driving conditions. More than 200 cars skidded off one section of the Thruway between Victor and Batavia.	
<b>NORTH CAROLINA</b>										
Eastern half of State	6	morning						5	Wind and Rain	
									Winds ranging up to 70 miles per hour did widespread minor damage from Raleigh eastward and southward; roof, signboards, plate glass windows, power and communication lines were damaged; trees were blown down, at least one crushing a 1959 automobile. Rains up to six inches fell over parts of Columbus County, ranging downward to two inches over the southeastern counties generally; storm drainage capacity was overtaxed in many localities, and rowboats were operated in the lower lying streets of Chadbourn, Kinston, Lumberton, and perhaps other communities.	
Jones County	27	3:00 pm	1	400	0	0	0	3	Possible Tornado	
									Swath cut through woods and fields by violent winds. Few outbuildings destroyed.	
<b>OHIO</b>										
Hamilton	8	1:25 p						5	Local windstorm	
									This was a very localized storm, the only major damage being to a 2-car garage which was carried about 40 feet, and to a section of telephone line. This may have been a small tornado.	
									On the same day strong winds, with some gusts as high as 70 mph, were reported from other Ohio areas, mainly in northern counties. Extensive damage was done to utility lines, TV antennas, trees, signs, etc. At Bowling Green a 400 ft. radio tower was blown over, and 2 trailers were overturned. Hailstones of 3/4 to 1 inch diameter fell briefly at 4:30 p.m. just west of Toledo.	
Entire state	12	afternoon							Heavy snow	
									This storm may be classed as "severe" only because of the public inconvenience caused. 4 to 6 or more inches of snow blanketed the state within a short time, most of it falling during the afternoon, just before and during the homebound rush hour traffic period. The result was badly snarled traffic throughout the state. Snow accumulation ranged from 4 to 7 inches throughout, while 9 inches was measured at Zanesville, and 8 inches at such scattered points as Youngstown, Galien, Wilmington and Coshocton. While winds were not excessive, there was considerable drifting.	

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1959

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
<b>OHIO (Cont'd)</b>									
Entire state	15	all day					7		Windstorm
			Squally winds in connection with an unusually deep cyclonic system resulted in widespread damage throughout the state. Velocities were recorded between 60 and 80 mph at first order stations in gusts, and average velocities during the day were in the 30-50 mph range. Property damage was widespread and indiscriminate, roofs, windows, signs, TV antennas, utility lines and trees being most often mentioned in news stories. In the Cleveland area numerous greenhouses suffered major damage; a barn was blown down near Chardon; a factory building in Belle Center was badly damaged, as were others in Sandusky; and at Toledo a coal freighter ran aground in the storm. One death was widely reported, as an aged man fell while attempting repairs to a broken window, and there may well have been others. Reports generally failed to mention injuries, though there doubtless were scattered cases.						
OKLAHOMA									
Lawton, Comanche County	2					1			Wind
			Strong wind blew man from truck causing injuries.						
Western Sections of State	2	Day							Wind, dust
			Strong winds behind a rapidly moving cold front caused heavy blowing dust over much of west-central and northwest sections of the State. The blowing dust caused unestimated damage to crops. Shifting and loss of top soil was significant.						
Ada, Pontotoc County	4	8:07 p.					4		Electrical
			Lightning struck and burned warehouse in Ada.						
Durant, Bryan County	4	9:00 p.				1	4		Funnel aloft, wind, rain
			Funnel aloft was sighted over Durant. Strong straight winds caused general spotted damage to roofs and porches. Large truck ran off of road during heavy rain causing \$50,000 damage to truck and cargo; the driver was injured slightly.						
Oklmulgee, Okmulgee County	4	9:50 p.					5		Electrical, rain
			Lightning caused fire which damaged a furniture store.						
Idabel, McCurtain County	4	11:00 p.	3/4	50			4		Tornado, hail
			Tornado destroyed a tool shed and tipped over several large monuments at a cemetery and destroyed outbuildings on two farms. Half-inch hail fell during the storm. Storm moved northeastward.						
Most of State	6				1	16	4		Wind, snow
			Strong winds of up to 50 miles per hour and heavy snow of up to 7 inches over northwest and north-central sections caused near blizzard conditions. Man died of a heart attack shoveling snow in field. A bus slipped into a ditch and overturned near Edmond, 15 passengers received minor injuries. Snow piled into drifts 4 to 8 feet deep and most roads were closed. A great number of motorists were stranded and many accidents resulted. Turkey growers in Major County lost 5500 birds. A house trailer was blown over on the Roosevelt bridge west of Durant, estimated damage \$4000. Widespread general light damage occurred over the State. There was considerable blowing dust over western and southwestern sections.						
Braggs and Warner, Muskogee County	10	5:50 - 8:50 p.							Hail
			Spotted 1/2 to 1 inch hail fell in parts of Muskogee County. No damage was reported.						
Kiowa, Pittsburg County	10	8:25 p.					4		Hail, wind, rain
			Hail the size of hen eggs fell in the Kiowa-Savanna area. Damage resulted to autos and roofs. Strong winds and heavy rain accompanied the storm.						
Most of State	14	Day and into night				3			Wind, dust
			Strong winds of up to 60 miles per hour caused heavy blowing dust over the Panhandle, western and parts of central sections of the State. Much top soil was lost and crops were damaged. General wind damage resulted to roofs, trees, TV antennas, etc. Hundreds of thousands of acres of grass, pasture and woodlands were burned over by uncontrolled fires. Buildings, livestock, trees, fences, etc. were lost in the fires beside the untold damage resulting to the burned over lands. One person was injured in Tulsa when a construction walkway was blown onto several parked autos. Woman received a broken arm when she was blown down by the wind. Driver of an auto was injured when he lost control of car in heavy dust near Durant.						
Oklahoma City, Oklahoma County	19						1		Wind
			Elderly man had hip broken when blown down by strong wind.						
Mountain View, Kiowa County	20	1:45 - 2:40 p.					4		Tornado, funnel aloft, hail
			Two funnels traveled parallel just south of Mountain View. One funnel touched ground momentarily 3 miles south of Mountain View. No damage resulted as it hit in a pasture. Funnels traveled northeastward slowly and were visible for at least 15 minutes. Considerable hail of 1/2 to 1 inch size fell over a large area from Mountain View to Carnegie and Alfalfa in Caddo County. Damage resulted from the hail.						
Springer, Carter County	20	2:40 - 2:58 p.							Funnel aloft
			Funnel aloft traveled northeastward from 5 miles west to 7 miles north of Springer.						
<b>OKLAHOMA (Cont'd)</b>									
Alva, Woods County	25	12:20 p.	2	50			3		Tornado, hail, rain
			Tornado skipped through Alva causing damage to roofs, signs, and TV antennas. Storm moved eastward.						
Blair, Jackson County	25	1:00 p.							Tornado southwest of Blair
			Tornado touched ground momentarily in open field.						
Geronimo, Comanche County	25	2:10 p.							Funnel aloft
			Funnel aloft was sighted at Geronimo.						
El Reno, Canadian County	25	2:45 p.	1/2	200			3		Tornado
			Tornado caused damage at two farms 1 mile north of El Reno. Storm moved northeastward.						
Anadarko, Caddo County	25	2:48 p.	4	40			3		Tornado
			Tornado had the appearance of a huge dust devil at the south edge of a black cloud. Debris was whirled around and lifted 100 feet into the air. The funnel had a vacuum effect as a chicken house exploded when funnel passed over. Roofs, utility lines, trees, signs, etc. were damaged. Storm moved northeastward.						
Ringling, Jefferson County and Healdton, Carter County	25	3:20 p.					5		Hail, wind
			Hail up to 1 inch in diameter caused extensive damage to roofs in the area. A school in Ringling had 206 windows knocked out. Strong winds blew a trailer house and garage away.						
Terral, Jefferson County	25	3:45 p.	1	20			3		Tornado, funnel aloft
			Two funnels about 3 blocks apart moved over Terral. One dipped down and damaged outbuildings and trees. Storm moved northeastward.						
Armore, Carter County	25	4:10 p.	5	50					Suspected tornado, hail, rain
			A thundering roar was heard as porches and roofs were blown from homes and garages. No funnel was sighted but considerable damage resulted. Hail of up to 1 inch in diameter fell over a wide area. Storm moved northeastward.						
Beckham County	25	Evening							Hail, wind
			Small hail accumulated to 1 inch deep at Erick and was reported at Delhi and Sayre. Damage to roofs and winter wheat was reported. Strong winds damaged roofs, outbuildings and TV antennas in and near Delhi.						
Custer County	25	6:30 p.	9	*6			4		Hail
			Hail up to 1/2 inch in diameter accumulated up to 2 inches deep and was reported over much of Custer County including the communities of Arapaho, Butler and Clinton. Damage was confined to roofs, windows and paint was chipped. Storm moved east-northeastward.						
Weatherford, Custer County	25	7:05 p.	12	75			4		Tornado
			Tornado moved from just north of Weatherford to just north of Hydro in Blaine County. Buildings on several farmsteads were either destroyed or damaged. Storm moved northeastward.						
Tulsa, Tulsa County	25	7:20 p.	**250	50			4		Funnel aloft, wind, rain
			Strong winds blew off a roof, knocked down a concrete block wall and blew out plate glass windows. Indications were that the funnel aloft started the roof tearing off. Several cars had windows popped out.						
Warner, Muskogee County	25	9:50 p.							Suspected tornado
			Buildings were destroyed or damaged on 2 farms 4 miles east of Warner. Windows in a house were blown out.						
Thackerville, Love County	31	Afternoon							Hail
			Hail as large as baseballs fell south of Thackerville. Some stones measuring 1 1/2 inches in circumference dug holes in the ground, broke through roofs, and smashed neon signs.						
Shawnee, Pottawatomie County	31	4:30 and 5:15 p.					1		Hail
			Hail as large as golf balls fell in and around Shawnee for short intervals at two different times. Large hail knocked a 17 year old boy unconscious in Shawnee.						
Morrison, Noble County	31	4:55 p.	3				3		Tornado
			Tornado caused considerable damage to 2 farmsteads as it moved northeastward from 1 mile west to 2 miles north of Morrison.						
Pawnee, Pawnee County	31	5:00 p.					1	2	Tornado
			One farmstead was slightly damaged when tornado touched down 3 miles northwest of Pawnee. Flying debris slightly injured one person.						
Armore, Carter County	31	5:28 p.							Hail
			Hail up to 1 1/2 inches in diameter was reported in the Armore area.						

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1959

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>OKLAHOMA (Cont'd)</b>									
Silver City, Creek County	31	6:10 p.	1	880	3	5			Tornado, hail
Tornado formed over Silver City and nearly whipped out the small community. At least 6 homes, 2 churches, a school, businesses, etc. were destroyed or damaged. Three persons were injured when the wind picked them up. Survey of the area indicated there were three funnels, each cutting a path 100 yards wide. One veered off to the right and dissipated after it traveled about 1/4 mile. The other two funnels traveled about 1/4 mile northwest, then joined together and moved off northeast as it lifted. The funnel dipped down again north of the Cimarron River and destroyed a farmstead near Teriton. Hail the size of golf balls up to hen eggs fell over a wide area of northern Creek, west half of Payne, and southern Pawnee Counties. Variable damage to roofs, windows and autos resulted.									
Tulsa, Tulsa County	31	6:20 p.	5	1 1/2		4			Wind, hail
Strong winds damaged roofs, buildings, and power lines mostly in south part of Tulsa. Eight parked aircraft were damaged or destroyed at the various airports in the City. Only light small hail fell.									
Nowata, Nowata County	31	7:50 p.							Funnel aloft
Civil Defense tornado spotters sighted 2 funnels aloft west of Nowata.									
Enville, Love County	31	Evening							Suspected tornado
Two homes were unroofed in the Enville community.									
Madill, Marshall County	31	7:45 p.							Funnel aloft
Civil Defense spotters reported funnel southwest of Madill.									
Spiro, LeFlore County	31	7:45 p.							Hail
Hail up to one inch in diameter was reported from Spiro. Damage indications not reported.									
McAlester, 7 miles northwest, Pittsburg County	31	8:00 p.	2	60		3			Tornado, hail
Buildings were damaged on 2 farms. Some large trees were uprooted. Hail up to 3/8 inch in diameter fell in the area.									
Boynton, Muskogee County	31	8:10 p.							Funnel aloft
Civil Defense spotters reported funnel in the Boynton area.									
Willis, Marshall County	31	8:50 p.	12	800	10	5			Tornado
Tornado which moved aloft from Texas first struck a new bridge under construction across Lake Texoma at Willis where damage to equipment and piers may run near \$100,000. Next hit was the Oklahoma University Biological Station where damage to buildings and equipment was extensive and was estimated at \$80,000. The rest of the path was through resort and fishing cabins area. At least 15 cabins and several homes were destroyed. Several autos were destroyed and several trailer homes disintegrated. Damage to utility lines was estimated at \$4000. The storm moved north-southward slowly at about 15 miles per hour which permitted most people to take cover. There were several narrow escapes of reaching shelter just in time or outrunning the storm. There were no serious injuries reported.									
<b>PENNSYLVANIA</b>									
Statewide	5	Evening			3	5			Wind
Winds which reached 60 mph damaged roofs, broke windows and toppled signboards.									
Western Counties	6	Night			2	22	4		Snow and Ice
Slippery roads responsible for numerous auto accidents which accounted for all deaths, injuries and property damage.									
Eastern Counties	6-7	Night			8	4			Snow and Ice
Slippery roads responsible for numerous auto accidents which accounted for all personal injuries. Near Philadelphia a 200 ft. radio tower collapsed due to the storm. Near Greenville the roof of a hangar was blown in damaging 2 planes parked inside.									
Western Counties	15	All Day				4			Wind
Strong winds damaged roofs, broke windows and downed trees and utility wires.									
Elwood City-New Kensington Area	25-26	Night & Morning				4			Thunderstorm
Lightning from the thunderstorm struck several buildings as well as a barn which was destroyed by the fire that followed.									
Allentown-Scranton Area	27	Night			16	4			Snow and Ice
Slippery roads responsible for numerous auto accidents which accounted for all injuries and property damage.									
<b>RHODE ISLAND</b>									
Entire state	6	5 a. - late p.							Rain, flooding, wind
Precipitation of 1.5 to 2 inches, mostly in 12 hour period, and heavy runoff from frozen ground caused widespread flooding of streets and highways as well as sharp rises in streams and rivers. Flood alert along Blackstone River in northern Rhode Is. High winds with gusts clocked to 70 mph blew large tree onto house in Providence causing about \$1000 damage to porch, roof, and windows.									
Entire state	12	3 a. - 11 p.			2	Few			Snow
General storm yielding from 4 inches in the southeast Bay area to 6 to 11 inches in central and northern sections marked the heaviest snowfall of the winter. Most schools closed, business and industrial activities curtailed and transportation delayed by hazardous driving conditions. Fatalities resulted from heart attacks; injuries, mostly minor occurred among the numerous traffic accidents. Scattered reports of brief electrical activity.									
Entire state	27	early a. - late p.				15			Snow
Snowfall of 3 to 6 inches created very hazardous driving conditions. Numerous auto accidents resulted in injuries to some 15 people. Heavy snow caused breakage of power lines in Washington County.									
<b>SOUTH CAROLINA</b>									
South Carolina	5	Night			0	0	4		Strong winds and heavy rain.
Strong wind and heavy rainfall occurred in most sections of the state in response to the movement across the area of a strong cold front.									
<b>TENNESSEE</b>									
Memphis, Shelby County	14	11:30 p.	4	to 1750	2	5			Wind
A severe windstorm damaged 175 - 250 houses, several business establishments, one church, numerous outbuildings and automobiles and power lines. Building damage was mainly to roofs and windows. Two persons were injured, one by flying glass, the other from a collapsing garage.									
Davidson and Wilson Counties (portions of)	26	about 5 p.			2	3			Hail
Damage reported in area from the vicinity of Una and LeVergne to Hermitage and thence eastward through Mt. Juliet to LeVergne. Hail up to 3 1/2 inches in diameter and described by many as the size of hen's eggs slightly injured 2 persons, damaged many roofs, broke window panes and damaged autos. Hail covered the ground in places and persisted at spots for 3 hours.									
Rutledge Hill (near Alto), Coffee County to near Altamont Grundy County	26	6:10 - 6:15 p.	20	440	1	5			Tornado
First damage at Rutledge Hill (near Alto), Coffee County where a large barn was severely damaged and a small barn destroyed. The storm crossed into Grundy County about 2 miles NW of Palhan, where damage was most severe. One house was destroyed and 2 badly damaged; 5 barns, several outbuildings, a concrete block garage and some farm machinery were destroyed. A trailer truck was lifted 750 feet in the air and deposited in a field 150 yards distant. One woman was slightly injured by flying glass. Leaving the Palhan area the storm moved NE across Roberts Cove where a barn, 2 sheds and many trees were destroyed and thence to near Altamont. Tornado funnel observed.									
Franklin (near) Williamson County	26	Late Afternoon				2	0		Hail and Wind
Hail the size of ice cubes preceded a windstorm which unroofed a barn, moved a chicken house and downed fences. A few windows were broken and a peach orchard was ruined.									
Athens, McMinn County	26	Night				3			Rain
Creeks overflowing after a heavy rain flooded several homes and business houses. Five families were evacuated. An unofficial rain gage measured 5 inches of rain in a few hours.									

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					KILLED	INJURED	PROPERTY	CROPS	
TEXAS									
Near Dawson, Navarro Co.	4	before 5 pm			0	0	0	0	Funnel
		Pilot report.							
Edom, Van Zandt Co.	4				0	0	0	0	Funnel
		Traveled north, did not touch ground.							
Jacksonville, Cherokee Co.	4	5:50 pm			0	0	0	0	Funnels
		Two sighted, did not touch ground.							
Potter & Wheeler Cos.	4				0	0	0	0	Glaze ice
		Some thin ice on highways, no damage reported.							
Fort Worth, Tarrant Co.	4	8:30 pm			0	1	3		Wind
		About 500 square feet of country club roof blown off by NW wind during heavy thunderstorm. Plate glass windows broken, one person injured by flying glass. Roof of store blown into street. Gusts to 66 mph officially measured. With squall line passage.							
Arlington, Tarrant Co.	4	8:30-9:10 pm			0	0	4		Wind
		Damage to 10 privately owned planes, power lines and poles down, roof of large hangar removed, partially blocked street traffic. Two walls of building under construction blown down, 2 trailer houses blown over. Wind direction SW to NE during squall line approach.							
Sherman, Grayson Co., & Van Alstyne & Weston, Collin Co.	4	night			0	0	4		Wind
		Winds to 75 mph, heavy rain and hail damaged roofs, plate glass windows, TV towers, power poles, outbuildings.							
Livingston, Polk Co.	5	2 am	short narrow		0	0	1		Tornado
		Damage confined mostly to trees and power lines.							
Leonard-Pike-Delta-Hickory Creek sectors, Fannin Co.	5	night							Wind
		Hard straight wind broke windows, damaged roofs, destroyed house and garage, several outbuildings.							
Lake Whitney, Hill & Bosque Cos.	8	1 pm			2	0			Wind
		Strong winds whipped high waves on lake, overturned boat, two men drowned.							
8 NE Jefferson, Marion Co.	8	6:42 pm							Funnel
		During heavy shower swept down haphazardly. Did not touch ground. Moving E.							
Wilmer, Dallas Co.	10	late aftn			0	0	3		Wind, Hail
		Hailstones size of golfballs, strong wind with gusts to 42 mph damaged roofs, windows, outbuildings. One barn destroyed.							
Fort Worth, Tarrant Co. (and area)	10	5:30-6:30 pm			16	6			Wind
		Strong W to E winds demolished newly constructed wing of orphanage; railway & roundhouse yards badly damaged; other business firms reported considerable damage; many homes unroofed or otherwise damaged, power poles snapped off, windows broken, trees uprooted, etc. Hail heavy but small, caused little or no damage. Rainfall to 2-1/2", occurred mostly in 30-minute period. Six of the injured were hospitalized.							
Arlington, Tarrant Co.	10	5:30-6:30 pm			0	0	4		Hail
		Hard rain, hail continued practically full time that rain was falling. Ground entirely covered to depth of 1-1/2". Wind W to E. Hail damage confined to house roofs, some cars. Stones diameter up to 2 inches.							
Greenville, Hunt Co., & Mineral Heights	10	7:30 pm & 9:30 pm			1	0	4	0	Wind
		Drive-in theater and outbuildings damaged by two separate windstorms. Hail light at Greenville, heavy Mineral Heights area. Man driving car during heavy rain crashed, was killed.							
Kemp, Kaufman Co.	10	7:45 pm			0	0	0	0	Funnel
		Moving from N to S, did not touch ground.							
Kemp and area, Kaufman Co.	10	7:45-8:15 pm	6	46	0	0	4	C	Hail
		One-inch diameter, covered ground to depth of 3 or 4 inches.							
Wheeler Co. near Shamrock & 30 E Pampa Hwy. between Hemietta & Petrolia Montague Co. near Forestburg & Nocona Eastland Co.	11	from morning to midnight	10	NS-5	1			3	Windstorm
		Fanned by strong winds with gusts to 70 mph, prairie fires raged in several northern counties. That in Montague Co. was fiercest and most difficult to get under control. Est. 1500 acres burned over in Wheeler Co. Property damage limited largely to charred oaks in grasslands and damaged timber plots. Some farm houses slightly damaged, barns and other outbuildings destroyed, some loss of livestock. Winds predominately NW.							
TEXAS (Cont'd)									
2 W Shamrock, Wheeler Co.	14	4 pm	1/2		32	3			Duststorm
		Visibility reduced to zero, between 17 and 20 vehicles in collisions as cars piled up along the highway.							
San Antonio, Bexar Co.	16	7:55-8:30 am							Snow
		Surface temperature 50 degrees, freezing level at least 6,000 ft. above the surface; during the 35-minute period flakes of snow were observed and recorded as a trace at WBAS, corroborated by a number of experienced observers.							
Fannin Co., Trenton, Whitewright, Ector	20	12:30-1 pm			0	0	4		Tornado
		Wind 40 to 50 mph with gusts to 80 mph. Two funnels moving together struck W of Trenton, moved slowly NE to pass E of Whitewright and W of Ector, mostly through timber and open fields. Five homes, 4 barns and outbuildings damaged. One house moved 91 feet. Funnels rose & descended. Rolling clouds & high winds, a few flashes of lightning.							
Statewide	20	from 2:30 pm to early eve	700	4600	1	8	6		Wind
		Strong winds swept across north, central and east Texas from the Great Plains as far as the coastal plains, and reached the Lower Rio Grande Valley. Blizzard conditions in the Panhandle, visibility zero around 4:30 pm at many points because of blowing snow which was blown for a number of vehicle accidents. Sustained winds of 40-50 mph, gusts to 80 mph. Snow depth between 1 and 10". Farther south high winds caused dust and sand to blow, resulting in vehicular accidents. Considerable wind damage to roofs, plate glass, trees and TV antennas, small outbuildings. Some heavy rain, lightning; hail reported 3/4 to 1" in Upshur, Cherokee, Angelina & Harrison Cos., but soft, causing little or no damage. Dust up to 12,000 feet at Midland.							
Shelby Co., 2-1/2 S Tenaha & 5 E Tenaha, Paxton Community	20	4:50 pm	5	41/2	0	0			Tornado
		Damage to timber, approximately 20 roofs & porches, TV antennas blown down, six chicken houses destroyed. Occurred with squall line. Lifted and came down again. Traveled about 1,000 yards on surface before lifting into clouds.							
Near Garrison, Nacogdoches Co.	20	4:55 pm			0	0	0	0	Funnel
		Moving NE, did not touch ground.							
18 SE Hemphill, Sabine Co.	20	9 pm	150-200		0	2			Tornado
		One house & 2 barns destroyed in Fairdale Community, one house blown off blocks, one house unroofed, considerable amount of timber destroyed. Traveled W to E, into Louisiana. Injuries minor.							
5 S Tulla, Swisher Co.	25	2:25 pm			0	0	0	0	Tornado
		Touched ground, went back into clouds, no damage reported.							
Denison, Grayson Co.	25				0	1	4		Wind, Hail
		Roof and window damage from hail varying from 1-1/4" to 6" but only small amount. Wind blew down brick wall of warehouse, blew down several barns and outbuildings. Ten homes damaged, wind pressure so great that the rear windows of 3 cars were shattered. Wind damage est. \$30,000; hail damage \$200.							
4 N Gainesville, Cooke Co, Walnut Bend, Ribbett & Callisburg	31	abt 7:30 pm	11		0	17	6		Tornado
		Moving NE, damaged gasoline plant where 3 injured; knocked down 20 oil derricks & 12 oil storage tanks, a refinery, 2 electric plants; damaged homes & farm buildings, downed power and phone lines. Damage estimated in millions.							
Sherman-Denison, Grayson Co.	31	8 pm			0	0	0	0	Funnel
		Near Parrin APB, did not touch ground until after crossing into Oklahoma.							
Yaugham and Bynum, Hill Co.	31	9 pm	20	1320	6	31	4		Tornado
		Picked up car, tossed it 100 yards. Moved north, squall line crossed Oklahoma into Kansas and Missouri. Strong winds caused scattered damage throughout the area. Major damage was reported within the triangle formed by Hillboro, West and Hubbard; Yaugham was almost completely destroyed. At Lake Whitney several homes & a tourist court were badly damaged. Tornado touched ground on shore & swept across area about 1/2 mile wide toward Aquilla where a building was destroyed.							
Oakwood, Leon Co.	31		4	100	0	1	4		Wind
		At least 12 homes badly damaged, roofs blown off, windows smashed. During brilliant electrical storm.							
Dallas, Dallas Co.	31	11 pm			0	0	4		Wind
		Winds to 61 mph, freak 75 mph downdraft descended on Addison Airport, damaged one airplane beyond repair, damaged five others and metal hangar. Over the city wind damage minor.							

See reference notes at end of table.



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1959

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
UTAH Salt Lake and Utah Counties	8	Afternoon			2	0	4	0	Wind
									High winds blow down a sign causing damage estimated at \$14,250. Two men drowned in Utah Lake when waves 6 to 8 feet high capsized their boat.
Salt Lake City area, Salt Lake County	9	Evening			0	0	3		Wind
									Strong winds blew down 2 radio towers, broke several plate glass windows, and caused other minor damage.
Western Utah	13	Afternoon			0	1	3		Wind
									Trees blown down, plate glass windows broken, transformers and power lines knocked out, and considerable blowing dust produced.
VERMONT Chittenden and Lamoille Counties	8	Early PM	10	2 mi.			4		Wind
									Path of severe wind damage from Underhill Center to Cambridge. Barns unroofed, windows broken, and chimneys and TV aerials damaged. Rain and sleet accompanied the windstorm.
Entire state	12-15				1	5	4		Snow, wind
									Heavy blizzard conditions as 7 to 20 inches of snow fell mostly on the 12th but continued as blowing snow on the 13th. Air and vehicular traffic halted or hampered. Many schools closed. Deaths and injuries due to auto accidents in blinding snow.
VIRGINIA Roanoke	23	Afternoon			0	0			Wind
									Strong winds reached hurricane force between 3 and 4 p.m., in the Roanoke area. A gust of 78 m.p.h., was recorded at 3.38 p.m., at WBAS, Roanoke. Large trees were uprooted and other minor damage was reported.
WISCONSIN S & E 3/4 of State	5-6				6	15	4		Snowstorm with high winds and scattered thunderstorms
									Heaviest snowfalls in the area bounded by Grant, Trempealeau, Sheboygan, Marathon, and Langlade Counties. At Le Crosse 16 inches snow in 2 1/2 hours—a record. Snow depths more than 30 inches in central Wisconsin.
S & E Half of State	14-16				1	2	4		Snowstorm with sleet, glass, rain, and thunder
									Heavy, wet snow drifting to 10 or 12 feet deep blocked highways, stalled five passenger trains with 600 aboard, and caused a few buildings to collapse.

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
ILLINOIS Extreme northwest	4-5								Heavy snow
									Snow during the night and early morning was heavy northwest of a line extending approximately from Rockford to Moline. Snow was heaviest in northwest with 17 inches at Galena. Strong winds.
Modoc	14	9:40 PM	5	120	0	1	4	0	Tornado
									Tornado reported as moving eastward. Heavy damage to three residences plus other damage.
Stonechurch	14	10:15 PM	7		0	0	4	0	Tornado
									Tornado moved northeastward damaging several buildings in Stonechurch and farmsteads to the southwest. Probably the same tornado or tornado complex that hit Modoc earlier.
Dexter	15	12:40 AM	2		0	2	4	0	Tornadoes
									Tornado moving northeastward caused heavy damage to one farmstead. A storm, probably another tornado, struck the west side of Stearnson a few minutes later.
Smithton	15	2:30 AM			0		3	0	Wind
									House trailer wrecked. A "roaring sound" reported but other evidence of a tornado lacking.
Extreme northwest	14-15								Heavy snow
									Snow during the night and early morning accumulated 5 to 9 inches from Rockford and Morrison westward. Strong drifting winds.
Gurnee	26	10:00 - 10:15 AM	4		0	0	3	0	Wind
									Northeasterly winds were strong throughout northeast Illinois and were measured at 62 to 80 mph in the Mankewan area. Wind squalls damaged two houses at Gurnee and then caused minor damage at a farmstead four miles to the southwest. Some evidence of a tornado at the latter location was inconclusive. There was additional scattered wind damage in the general area.
Versailles	26	1:00 PM	4	200	0	0	4	0	Tornado
									From a point one mile northeast of Versailles the tornado moved northeastward causing moderate damage to two farmsteads and light damage to at least one other.

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- \* 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 \$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.

States and territories not listed in these tables reported no storms or unusual weather phenomena during the month.

Note: This publication replaces that portion of the "Climatological Data National Summary" contained in the table "Storm Data and Unusual Weather Phenomena". It 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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