

U. S. DEPARTMENT OF COMMERCE
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WEATHER BUREAU
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STORM DATA

JANUARY 1960

Volume 2 No. 1



ASHEVILLE: 1960

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
ALABAMA Mobile, Brookley Field	29	Early Morning	--	--	0	0	3	0	Probable Waterspout
Apparently moved in from Bay area and dipped down briefly falling several large trees, and causing minor damage to buildings over an area of about four acres.									
ARIZONA Tucson	29	2:00 a.m.					4		Wind
A strong gust of wind destroyed a \$12,000 tent housing a show.									
ARKANSAS Faulkner County	14	12:15 PM to 12:25 PM	8	15	0	0	5	0	Tornado
A small tornado moved northeasterly across Faulkner County between Wooster and Greenbrier, touching ground at both Wooster and Greenbrier. Principal damage was at Greenbrier.									
CALIFORNIA San Francisco Bay Area	14				0	0	3	0	Thunderstorm
Lightning struck two aircraft in flight and two oil tankers moored in the Bay, but no injuries and only minor damage resulted. Several power transformers were burned, and damage was sustained by homes in the area.									
COLORADO Eastern Plains and Southwest	14-17				0	0	3	0	Snow
Snow on the 14th and again on the 17th was particularly heavy along the eastern border and southeastern plains, and in some southwestern areas. At Montrose 14 to 20 inches of heavy, wet snow was followed by additional 8 inches on the 17th, and caused collapse of the roof of a storage structure. In the east and southeast 7 to 15 inches of snow on the 14th and additional 6 to 10 inches on the 17th was accompanied by high winds and cold temperatures. Winds at Pueblo of near 60 MPH on the 14th caused near blizzard conditions, blocking streets, which were blocked again on the 17th by additional snow and high winds. Roads were closed over wide areas by 3 to 5 foot drifts. Many secondary roads remained blocked as daytime temperatures remained below freezing with night lows generally below zero through the 22nd or 23rd.									
CONNECTICUT Central and eastern sections	3	A.M. hrs	-	-	0	0	5	0	Wind and rain
Gale force winds broke windows and toppled trees on power lines, disrupting electric service in several localities. Heavy rain (generally over 1 inch in 12 hours) along with water from melting snow cover caused flooding of cellars and damage to roads in several towns, accounting for about 50% of aggregate damage.									
FLORIDA Fort Myers Lee County	7	12:36 PM	-	-	0	0	-	-	Funnel cloud
West Palm Beach Palm Beach County	13	Unknown	-	-	0	0	-	-	Waterspout
IDAHO Butte County	6	During day							Glaze
Ada, Canyon and Butte Counties	7	Day and evening			1				Glaze
Following collision on icy roads near Notus, one auto skidded 132 feet, throwing victim into ditch.									
Ada and Boise Counties	10	Evening							Glaze
Recorded by observers at Boise and Deer Point									
Boise & Vicinity	25	Afternoon							Glaze
Ada County	26	Morning							Glaze
Recorded by observers at Kuna and Boise									
IOWA Northwest Iowa	1-2						4		Heavy snow
Snow depths 6-11 inches NW third of Iowa. Glazing, sleet and snow pack made highways extremely hazardous with numerous accidents reported. High winds blocked highways and many schools were closed. Electric lines downed by ice and wind in Webster City area.									
South and east half of Iowa	11-12						4		Heavy rain
Three to four inches rain fell mostly within 24 hours the evening of Jan. 11 to the evening of Jan. 12, setting record rainfalls in many localities from southwestern Iowa, east central Iowa and southern counties in the northeast division. Flooding of streams occurred but generally without great damage. Cedar Rapids reported 1000 basements flooded.									
All Iowa, excepting northern counties	14-18						4		Heavy snow
The same area was struck by two heavy snowstorms with blowing and drifting snow, one the 14-15, the second on the 17-18 with almost the effect of one continuous storm. On the 14th rain beginning in the morning changed to sleet and snow by afternoon. Amounts of 4 to 8 inches fell with this storm. On the 17-18, 3 to 6 inches additional snow fell on impassible highways, hundreds of schools were closed - some for nearly a week. Highways were hazardous and numerous accidents occurred.									
Southeast half of Iowa	27-28						4		Heavy glazing
From the afternoon of the 27th to the early morning of the 28th heavy glazing occurred with highway travel extremely hazardous. Many Iowa schools were closed on the 28th due to the storm.									
KANSAS Western and north central portions	13-14	Late afternoon of 13th till 9pm of 14					1	5	Fog, freezing drizzle, glaze, heavy snow and high wind.
A severe storm beginning with fog turned to freezing drizzle as the cold increased and then to heavy snow over the western and northern parts of Kansas. In the area from Meas County northward to Smith, Jewell, Republic and Washington Counties and on into southern and eastern Nebraska, glaze coated wires up to 1/4 inches in diameter. Heavy snows of 6 to 10 inches fell in about 8 northwestern counties. Visibilities were reduced by fog and blowing snow and with the slick roads traffic was almost at a standstill. In the area of heaviest glazing many telephone and power lines were broken. Thirty two telephone exchanges were out of service and some 20 towns were isolated temporarily by loss of long distance lines. Rising winds following the heavy snow drifted roads badly and added to the breakage of the telephone and power lines. Many tree limbs were broken by the heavy icing. Shocks of feed were frozen to the ground making livestock feeding difficult. Many highway accidents resulted from the slick roads.									
Most of State	16-17	Near noon of 16th-DNA on 18					4	5	Heavy snow some glazing, strong winds.
Hardly had roads been opened and some telephone and power circuits restored after the storm of Jan 13-14 until a second storm brought snow to all the state. Another 5 to 8 inches of snow was spread over the western counties with 1 to 4 inches in the central and east. High winds accompanied this snow and drifted it badly. In northern Russell County drifts were reported 15 feet deep. All major highways were closed in the west for various lengths of time. Side roads were blocked for as much as a week. The high winds again damaged many telephone lines in north central Kansas. Numerous automobile and truck accidents were reported. Some rural schools had no sessions for more than a week.									
Chase County	20	afternoon					3	3	Snow and ice.
A mother and 2 young daughters were killed when their car collided with 2 trucks on an icy road 6 miles east of Cottonwood Falls.									
Jefferson County	26	evening					7		Fog
Seven girls suffered minor injuries when the driver of the car missed a turn in the road south of Farry. Heavy fog caused reduced visibility.									
Geary County	26	evening			1	12			Fog
A truck-school bus collision in a heavy fog 8 miles northwest of Alta Vista caused the death of 1 man and injury to 12 school children.									
LOUISIANA Jefferson, near Allendale	5	8:29 am	-	-	0	0	0	0	Funnel cloud
Caddo parish, Shreveport	14	11:20 am	3	15-20	0	0	4	0	Tornado
Tornado touched ground in southwest part of city about two and one-half miles east of the airport where highest wind 42 mph. Tornado moved toward northeast but apparently did not touch ground over entire 3 mile path. No buildings demolished but many suffered varying degrees of damage.									

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
MAINE Northeast	16								Snow	NEW HAMPSHIRE South and Central	18-19								Snow	
									Snow											Snow
									Snow											Snow
South and East	19								Snow	South and Central	27-28								Snow	
									Snow											Snow
Entire State	28-29								Snow	NEW MEXICO Southeastern Curry County	13	6:00 p.				4			Wind	
									Snow											Wind
MASSACHUSETTS Coastal and Southeast	3				0	2	6	0	Wind, rain	NEW YORK Eastern end of Long Island	3	a.m. hours				3			Gale winds, heavy rain	
									Wind, rain										Gale winds, heavy rain	
West and Central	13				0	0	0	0	Snow	Western New York and counties east of Lake Ontario	4-6				1	3			Wind and snow	
									Snow											Wind and snow
West and Central	15							0	Ice (glaze)	Western New York and counties adjacent to Great Lakes	8-9				9	3			Wind and snow	
									Ice (glaze)											Wind and snow
Eastern portion	16				0	4	4	0	Wind	Statewide	12-13	late p.m. well into 13th			2	50	5		Snow, sleet and freezing rain	
									Wind											Snow, sleet and freezing rain
Northern portions and Berkshires	18-19								Snow, ice	Extreme southeastern counties and New York City and scattered areas of upstate New York	10-11	night & early morning			1	56	4		Freezing rain, sleet and snow	
									Snow, ice											Freezing rain, sleet and snow
South and Southeast	18-19								Glaze, sleet	Statewide	15-16				6	38	5		Freezing rain, sleet and snow	
									Glaze, sleet											Freezing rain, sleet and snow
Northwest and North Central portions	28								Snow, ice	Cattaraugus County and surrounding area to lesser extent	18-22				3				Heavy snow, high winds	
									Snow, ice											Heavy snow, high winds
MISSOURI Maryville	12	2:05 p.-2:20 p.	6	50	0	0	4		Tornado	East-central counties	28				2	1	4		Heavy snow	
									Tornado											Heavy snow
NEBRASKA East and south-central portions of State	14	All day	Widespread		1	0	5	0	Ice storm and blizzard	East-central counties	28				2	1	4		Heavy snow	
									Ice storm and blizzard											Heavy snow
East and southern portions of State	17	All day and evening	Widespread		8	0	4	0	Blizzard	Statewide	15-16				6	38	5		Freezing rain, sleet and snow	
									Blizzard											Freezing rain, sleet and snow

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (MILES)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
North Dakota	1 Thru 4						4	0	Cold Wave Blizzard
OKLAHOMA Central Half of State	14	5-8:00 a.			0	0	4	0	Wind, rain Squall line of severe thunderstorms accompanied by strong winds of up to 75 miles per hour caused widespread property damage from north to south border through the central half of the State. Buildings were unroofed and damaged; TV antennas, trees and utilities blown down, and windows blown out. Twenty homes were damaged in Blanchard. Over \$10,000 damage resulted to two buildings, five planes and eight autos at Will Rogers Field in Oklahoma County.
Oklahoma City, Oklahoma County	14	5:05 a.	1	200	0	0	4	0	Funnel aloft, wind, rain Police followed funnel aloft for 3/4 miles as it traveled northeastward across the western edge of Oklahoma City business district. Strong straight winds on the ground caused considerable damage to buildings, trees and utilities along the path. Heavy rain accompanied the wind. Most of the damage resulted from the wind but some rain damage to supplies was noted.
Fitzhugh, Pontotoc County	14	6:00 a.	1	1	0	0	3	0	Tornado Tornado destroyed or damaged buildings on 5 farmsteads 2 miles southeast of Fitzhugh.
MoLoud, Pottawatomie County	14	7:30 a.							Funnel aloft Small dark funnel sighted 2 miles northwest of MoLoud moving rapidly northeastward.
Most of State	14	Mid-day			0	3	4	0	Wind A deep low pressure center caused strong winds of up to 75 miles per hour across the State. Widespread light damage resulted. Plate glass windows were blown out in Lawton, Poteau, Oklahoma City and Yukon. Three persons received injuries - man was severely cut by flying glass in Yukon; child was cut and bruised by a falling tree in Oklahoma City, and a woman received head injury when blown to the pavement in Tulsa.
OREGON Most of State except extreme southwest	8-9	Most of both days			1	Sev-eral	4	2	Snow and Wind Moderate falls very wet snow created very hazardous highway conditions most of State except extreme southwest. Numerous traffic accidents resulted in which one man killed, several persons injured. Many schools closed for part of day.
Western and Central Oregon	11-12	Most of both days			0	4	4	1	Snow and Ice Light to moderate snows accompanied in some areas by freezing rain produced dangerous highway conditions. A considerable number automobile accidents, but no known fatalities. Accidents blocked arterial highways creating serious traffic jams in some cases.
All of State except extreme southwest	18-20	All 3 days			5	Many	5	1	Snow and Wind Snow began on 18th, continued in most areas on 19th and in a few on 20th resulted in heaviest fall in ten years at many valley stations. Paralyzed business in Portland for 2 days, caused very large number of traffic accidents. Whole communities isolated as snow drifts were piled up to 8-10 feet high near western end of Columbia Gorge. Schools closed 1-4 days over large part of State. Milk piled up at dairies as pickup trucks unable to get through snow drifts. Four persons died of heart attack while shoveling snow; one killed in sledding accident; large number injured in automobile accidents, and from falls on slick walks or streets. Power and telephone service interrupted over widespread areas. Highway and utilities service crews worked around the clock to keep arterial highway open, restore power and telephone service. Snow extremely welcome both as protective blanket and for such needed moisture content in both Oregon's Columbia Basin grain belt and in State's irrigated areas.
Extreme northwest Oregon	22-23	Late PM Early AM	20-30	*5-10	0	0	5	1	Wind Locally strong winds, particularly near western end of Columbia Gorge, combined with fairly heavy ice, snow load to demolish large grandstand in Portland and caused damage few roofs.
Coastal Area	29-30	Most of day on 29th early morning of 30th			0	0	5	1	Wind and Rain Winds unofficially measured up to 100 mph struck Oregon coast and extended considerable distance inland, particularly at higher elevations. Several buildings damaged along coast. Trees felled across lines caused numerous power, telephone and TV service interruptions. Shipping across Columbia bar halted for nearly 24-hours by high waves. Some flooding but resulting damage negligible in coastal streams.
RHODE ISLAND State-wide	3	A.M. hours			0	0	5	0	Wind and rain Southerly gales, with peak gust of 63 m.p.h. at Providence, caused minor flooding and damage to shore installations, and downed utility lines in several communities; trees and signs knocked down, windows blown in. About one-inch rainfall between 7 A.M. and noon caused road washouts and street and cellar flooding, but estimated 75% total losses due to wind.
SOUTH CAROLINA Orangeburg, 10 miles north, Orangeburg County	30	Afternoon			0	0	4	0	Wind Buildings damaged.
SOUTH DAKOTA Entire state	31-2	Evening - 31st - early P.M. 2nd							1 Snow, wind Storm began late on New Year's Eve as low pressure center moved from Colorado northeastward to Great Lakes. Snowfall ranged from 10 to 15 inches in southeast to 5 to 10 inches northeast and central and 1 to 4 inches western third of state. Sioux Falls had heaviest 24 hour snowfall for January since 1897. Accompanying winds of 20 to 30 mph on 1st and 2nd badly drifted highways central and eastern sections and greatly inconvenienced holiday weekend travel by auto and bus. Airlines temporarily halted by drifted runways. Scattered power and telephone failures due to wire breakage from wind and ice.
Howard, Miner County	3	Early AM.							1 Low temperatures Elderly man died of exposure in -20° temperatures as car stuck in snow from New Year's weekend storm.
TENNESSEE Most of State	5-6				0	0	3	0	Heavy snow Heavy snowfall occurred over all of Tennessee except the extreme southeast corner. Snowfall equalled or exceeded 5 inches at practically all locations and ranged up to 15.9 inches at Waynesboro. Greatest amounts were in a 30-60 mile-wide band extending from Savannah northeastward to the northern Cumberland Plateau and thence eastward to Bristol and along the States western border. Over much of the State this was the greatest snowfall in 8-12 years. Traffic was snarled, minor traffic accidents were numerous, schools and some business houses and factories were closed and power and phone service was curtailed. At Arrisboro, Rutherford County, part of a store roof collapsed under the weight of the snow resulting in an estimated \$4000 damage.
TEXAS 3 NE Snyder, Scurry Co.	14	1:30 am	2	100-150	0	0	3	0	Tornado Small tornado demolished barn, uprooted trees and tore down power line poles. Accompanying high winds, light rain.
Wichita Falls, Wichita Co.	14	4:15-4:30 am			0	0	4	0	Wind Hangar and test equipment at airport damaged, est. \$10,000; one airplane damaged est. \$1,000. Building in Sun Valley residential area damaged, est. \$1,000. Wind moved E.
Ferrin AFB, Grayson Co.	14	6:35 am	*25	25	0	3	5	0	Tornado Moved E, heavily damaged 2 helicopters, 1 light airplane and a trailer with 3 men inside whose injuries were minor. Wind gage 100 yards from damage area registered strongest gust at 41 knots.
Cumby, Hopkins Co.	14	7:45 am	short narrow		0	1	3	0	Tornado Moved NE, damaged 2 homes, few outbuildings, TV antennas and trees. Accompanying heavy rain.
Fort Arthur, Jefferson Co.	28	9:40 pm	2	30	0	0	3	0	Tornado Moved E, struck at edge of city. Damage spotty, mainly to TV antennas, roof shingles; few small sheds overturned, few signs down. Thunder and precipitation moderate to heavy for several minutes.

See reference notes at end of table.

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JANUARY 1960

DELAYED DATA

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					KILLED	INJURED	PROPERTY	CROPS	
UTAH Entire State	15					3			Snow
	Slick roads as a result of a snow storm contributed to a total of 118 traffic accidents. Three persons were injured near Salt Lake City in a 3-car collision on U. S. Highway 91.								
Salt Lake County	25	Evening			2	6			Snow, fog
	Slick roads and poor visibility in snow and fog contributed to a number of automobile accidents in which two people were killed and five injured.								
VERMONT South and Central	18-19								Snow, ice
	Storm left 5 to 10 inches of snow that became packed with icy surfaces on some roads and highways. Driving conditions were hazardous and many accidents, mostly minor, reported. Flowing, scraping and sanding of roads brought gradual improvement.								
South and Central	28								Snow
	Storm left 5 to 10 inches of drifting snow. Drifts slowed removal and sanding operations. Travel and transportation slowed.								
WASHINGTON Clark & Skamania Counties	8				0	0	4	0	Snow
	Trees weighted down by heavy wet snow along the Columbia River caused numerous power and telephone outages.								
Clark, Skamania & Cowlitz Counties	18-19				0	0	4	0	Freezing rain, snow & high wind
	Strong easterly wind, below freezing temperatures, snow and freezing rain westward from Columbia River gorge to Willapa Hills. Highways were blocked by drifting snow in some localities and freezing rain caused very hazardous driving conditions. Schools and some business establishments were closed for one or two days in several localities along the Columbia River.								
West of Cascades	28-29				2	0	5	0	Rain and wind
	Several days of precipitation followed by 2-4 inches of rain in 24 hours on the 29th over the Olympic Peninsula and along the western slope of the Cascades caused most rivers to rise near or slightly above flood stage. High wind and waves damaged bulkheads and roads along the Pacific beaches. A combination of runoff from heavy precipitation, high tides and strong southwesterly wind caused the water to back up at the mouth of the Willapa River and flood the business district of Raymond to a depth of 1 to 2 feet on the 29th. One barn was destroyed in Whatcom County by high wind and minor damage occurred in other localities. The heavy precipitation was followed by numerous landslides which covered highways, railroads and damaged other property in several localities. Two persons drowned when a fishing boat sank off the Grays Harbor bar on the 28th.								
WISCONSIN Southern Counties	11-12						5		Rain, flooding.
	Heavy rains falling on frozen ground resulted in the flooding of numerous streams and rivers. Most severely flooded were the areas along the Pecatonica, Kickapoo, Sugar, White, and Rock Rivers. Damage limited mostly to flooded basements and roads.								

- * 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 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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DELAYED DATA AND CORRECTIONS WHICH APPEAR BELOW WERE INADVERTENTLY OMITTED FROM THE DECEMBER 1959 ISSUE										
KANSAS Meade County	June 21	afternoon							Hail	
	Heavy hail over a rather small area centered about 10 miles north and 3 west of Plains caused considerable crop damage.									
Marshall County	21	evening					3		Electrical	
	Lightning struck and killed 11 head of shorthorn cattle 3 miles south of Irving.									
Miami County	22	noon					2		Heavy rain	
	Two cars collided in Osawatomie when vision was obscured by heavy rain.									
Wess County	27	evening					2		Electrical	
	Appliances and wiring were damaged at a home in Wess City by lightning.									
Additional Data Russell, Osborne and Mitchell Counties	27	6:10p-8pm					1		Electrical(6)	
	Hail stones were as large as hen eggs north of Sylvan Grove. Lightning killed 2 cows on separate farms in Mitchell county. A man was knocked down and injured slightly by a bolt of lightning near Hunter.									
Clark County	28	evening							Electrical	
	Near Ellinwood lightning struck an R.E.A. power line splintering a pole into tooth picks and damaging a T.V. set together with a rug and making a hole in the wall of the house.									
Gray County	28	4:30p-6pm							Electrical (6)	
	A number of minor damages to electrical appliances resulted from various lightning strikes in and near Cimarron.									
McPherson County	28	5:30p-8p							Heavy rains, hail and wind.	
	A deluge of 5 inches or more of rain in 2 1/2 hours in northwestern McPherson County, between Margarette and U. S. Highway # 50 flooded basements and halted traffic on the U. S. Highway No. 81. Small hail driven by high winds caused some local crop damage.									
Seward County	28	near 7:45p							Wind	
	High wind over turned two house trailers from their foundations near Liberal.									
Southern Dickinson and Western Morris Counties	29	6p-11p							Heavy rains	
	Heavy rains of 3 to 5 inches in 3 hours caused local flooding in Harrington. About 20 families were evacuated from their home. Water entered some business places.									
Pawnee County	29	4:00p-8:30p							Hail, heavy rain, and Electrical (3)	
	A thunderstorm of severe proportions resulted in some hail damage to crops, flooding and washing of fields from heavy rains, and lightning damaged appliances and wiring at 3 places over the County besides causing interruption of electric service to a number of localities.									
Osborne County	30	10:30a					1		Electrical	
	A man was struck and killed by lightning while working in his garden west of Alton.									
Neosho County	30	8pm							Electrical	
	A big bolt of lightning struck a print shop in Thayer, several motors, switches and the telephone had been damaged.									
MONTANA Scooby (3 miles northeast)	June 20	7:00 - 7:10 p.m.	?	100	0	0	3	3	Tornado and Hail	
	Tornado wrecked barn. Damage to field crops was from hail.									
PENNSYLVANIA Eastern half of State	June 30	Afternoon and Evening					1	3	5	Thunderstorms
	The thunderstorms that moved across the area were accompanied by strong winds, lightning and some small hail. Property damage was due to lightning fired buildings and high winds that lifted roofs, uprooted trees, etc. Lightning struck and killed one man near Lebanon and injured 3 others. Numerous power failures were also attributed to the lightning strikes. Although hail fell in the State College and Lock Haven areas with some window panes being broken, no crop damage was reported.									
FLORIDA Bertie Lake County	July 29	Afternoon	-	-	1	1	-	-	Lightning	

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KANSAS Sedgewick County	July 3	8 am				1				Electrical A man and the horse he was riding were both killed by lightning near Colwich.
Osage County	4	evening								Hail Crops in the area of both Carbondale and Scranton were damaged by hail. Losses ranged from partial to complete.
Woodson County	4	4 am								Severe wind. A vicious gust of wind caused damage at a farm near Yates Center. Trees were broken and blown over. Shingles were torn from the house and the barn was largely demolished.
Edwards County	5	evening								Electrical Lightning struck 2 houses on a farm near Lewis, east of Kinley. One house was damaged more than the other.
Rush County	5	5 pm								Hail and high winds Storm damage was reported in various localities over the county. At Timken, some stones were the size of golf balls. Roofs were damaged, trees stripped bare, crops and gardens beaten badly. Windows were broken by the wind driven hail. Storm lasted about 25 minutes.
Wichita County	7	5p-10p								Electrical (6), hail and severe winds. Scattered farm buildings and some crops were damaged by hail and high winds. Lightning damaged T.V. installations at 2 places and started 4 or more grass fires in pastures.
Coffey County	8	evening								Electrical (2) Two lightning strikes in Gridley damaged trees at different localities.
Rush County	10	afternoon								Hail Feed crops were badly damaged near McCracken by golf ball sized hail which remained on the ground several hours. Minor damage was done to roofs and sides of buildings.
Edwards County	10	afternoon								High winds. Many trees were broken and some of the older barns were demolished by severe winds. Feed crops were blown down near Offerle.
Republic County	10	evening								Hail Almost all buildings in Courtland showed the effects of hail. Flat roofs were damaged considerably.
Meade County	10	late afternoon								Hail and wind Hail ruined several thousand acres of fine maize near Meade. Some fields were stripped of leaves with only the bare stalks standing. Trees and one hay barn were damaged by the severe wind.
Clark and Comanche Counties.	10	afternoon								Electrical (3) Two separate grass pasture fires were started by lightning in western Comanche and eastern Clark Counties. About 35 acres of grass were burned in one place with flames 15 to 20 feet high. A third lightning flash killed a horse in another pasture.
Morton and Stevens Counties	11	5p-10pm	40							Hail and wind, rain A severe thunderstorm with hail and strong winds from 10 miles north of Holla eastward across Stevens County about 6 miles north of Hugoton with hail and severe winds, destroyed many acres of crops and damaged numerous buildings in the early part of the storm. Hail was of walnut size and banks of hail remained the next morning. The storm advanced toward the northeast. About 6pm the wind shifted to the north and heavy rain and wind caused much washing of fields.
Clark County	12	afternoon								Electrical (2) Two separate lightning strikes in eastern Clark County destroyed 1000 bales of hay at one farm and 2 large stacks of feed at another.
Cheyenne County	13	7 pm								Electrical and wind Power lines, T.V. antennas, and trees were broken and bent by strong winds near Bird City. Some lightning damage was also reported.
Gove County	13	night								Electrical A lightning bolt killed 5 head of steers 6 miles south and 2 west of Grinnell.
Dickinson County	13	night				3				Electrical Lightning struck and destroyed a barn with contents of hay about 10 miles north of Abilene.
Elk County	13	night								Electrical A hay barn and 2 tons of hay were burned after being struck by lightning near Howard.
Douglas County	14	early morning								Electrical At Baldwin lightning followed the three guy wires to the roof and where each touched the roof large holes were made by the lightning, one as large around as a washtub. The T.V. set was also badly damaged. Shingles from this roof were blown a block distant by the lightning.
KANSAS (Cont'd.)										
Montgomery County	14	11 am					3			Electrical Lightning struck a 12,000 volt transformer line in the Missouri Pacific freight yard, with a \$1,000 fire loss and the disruption of service for some time.
Chautauqua County	15	morning								Electrical Over the western part of the county numerous severe lightning strikes damaged electric service lines extensively. Several transformers were burned out, numerous insulators broken, three poles were damaged beyond use and service was interrupted for several hours.
Kiowa County	16	afternoon								Hail Numerous roofs in the town of Hawland in eastern part of County were damaged.
Kingman County	18	10:30 pm								Strong wind A strong northwest wind tore much of the insulation and roofing from a bowling alley in Kingman. Large limbs were torn from trees in the eastern part of town.
Butler County	21	4 am								Electrical Lightning struck a large barn southeast of Douglas. Barn and contents of hay, grain, tools and farm machinery were a total loss by fire.
McPherson and Marion Counties	23	late afternoon								Wind and hail Quite gusty and strong winds caused damage to trees, T. V. aerials and some store windows over parts of these two counties. West of Hillsboro hail damaged corn but not seriously.
Gray County	24	morning				2	4			Electrical Lightning struck a machine shop 1 mile south of Cimarron, sheep and contents were destroyed by the resulting fire. Two men were burned rather seriously.
Osborne County	27	afternoon								Wind A large cattle shed was blown down near Portis and pieces were scattered over the field. A dense cloud of dust accompanied the wind.
Sheridan County	29	4:40p-6:30p								Hail Pea sized hail caused crop damage north and east of Roxie.
Shawnee County	30	7 am								Electrical Lightning struck a tree next to a house on the east side of Topeka. A man was almost knocked out of the house by the bolt but was not injured.
Saline County	31	afternoon								Electrical Lightning with the appearance of a large ball, struck a house in Salina damaging several electrical devices.
Osage County	31	afternoon								Electrical A bolt of lightning striking a tree near a house followed the wiring into the house doing some damage to the house.
Franklin County	31	5 pm								Electrical A barn filled with 1,000 bales of hay, 2,600 bushel of grain and farm machinery was a total loss from fire after being struck by lightning.
Atchison County	31	afternoon				1				Wind In Atchison, a large sign whose anchors had been weakened by previous high winds fell during an afternoon thunderstorm, falling rocks, bricks and other debris struck a woman pedestrian causing severe injuries. Trees were broken and some other minor damage was reported over town.
Johnson County	31	afternoon				1				Wind and rain Wind blew down many tree limbs and caused other minor damage over Johnson county. A truck skidded on a wet pavement and hit another car injuring the woman driver.
CONNECTICUT East River (New Haven Co.)	August 29	7:00 a.	1/8	20	0	0	1	0		Tornado
										Funnel observed spinning across an open stretch into lumber shed, emptying out a pile of pine logs and scattering them into the open. Rainfall occurred at excessive rate during this interval.
KANSAS Cowley County	August 18	3:30p-3:35p	1 1/2	50			3			Tornado
										A small but vicious tornado struck a farm plant 8 miles southwest of Winfield. A grain bin was carried 200 feet and wrapped around a tree. Windows glass was sucked out of the frames and dropped unbroken on a near by plowed field. Other buildings and trees near by were undamaged. The storm travelled northeast.
Lagaa County	22	5:00a					3			Electrical Lightning struck near a leaking gasoline supply tank several miles south of Oakley. The resulting fire burned a barn and contents and several near by sheds and equipment.

See reference notes with current data.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

DELAYED DATA

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
KANSAS (Cont'd.)	August								
McPherson County	22	afternoon							Severe wind damaged buildings on several farms.
Clark County	27								Electrical Lightning started a prairie grass fire near Minneola. Approximately 100 acres were burned.
Menasha County	28	10:00pm							Wind A wind squall did some damage over southern part of the county, blowing down T.V. antennas, breaking trees and branches across telephone and power lines and flattening a lot of corn. Some evidences of a tornado as trees etc. were bent and broken toward the northeast and others near by toward the southwest. Some reported a considerable roar.
Republic County	28	10:30p			1	1			Electrical Lightning struck near Scandia. A woman who had just gone to bed after pinning up her hair was stunned and her hair singed by the charge coming in through the house wiring and jumping from the bed lamp to the baby pins in her hair, lighting her up like a Christmas tree.
Jackson County	28	11:00p							Wind A gust of wind blew down trees which in turn broke or interrupted telephone and electric services for near an hour over most of Holton and surrounding area.
Saline County	29	1:00a							Electrical Fire set by a bolt of lightning destroyed a new barn and contents 1 mile south of Gypsum.
Riley County	29	early am							Electrical A school house and a large barn full of hay near Wakefield were destroyed by fires resulting from lightning. Several T. V. sets were damaged.
Russell County	29	evening							Electrical A number of electrical appliances at farm homes near Paradise were damaged by lightning. Also 4 head of livestock were killed in a pasture.
Russell County	29	10:00p							Hail and wind A hail storm just east of Wilson damaged crops severely. Grain sorghums were 100% thrashed in the fields. Stones were of marble to Walnut size and were driven by high winds. At one farm home 4 1/2 miles east of Wilson 999 dead birds were picked up next morning.
McPherson County	30								Wind, hail and Electrical (4) A thunderstorm over much of the eastern half of the county resulted in damage from wind driven hail and several lightning strikes. Hail damage was most prominent near Galva where feed crops were badly damaged and some windows were broken. The ground in some localities was white with the hail. Lightning caused slight damage to electrical appliances in McPherson. Near Galva lightning started a fire that destroyed a chicken house, coal shed and about 900 hens. Also an oil tank was set afire near by about the same time by lightning.
Russell County	30	4am					4		Electrical Lightning struck an oil tank battery 10 miles southeast of Russell. A wooden tank was destroyed and 5 metal storage tanks were badly damaged from the heat.
Rutler County	30	3am							Wind Wind gusts near 55 mph tore limbs from trees, bent T.V. antennas, and caused a number of interruptions in electrical service in and near Eldorado.
Montgomery County	30	early am					3		Electrical Near Coffeyville lightning set fire to a large hay barn filled with 200 tons of hay. Barn and hay were all burned.
Coffee County	30	early am							Electrical Seven steers were struck by lightning and killed in a pasture in the southern part of the county.
Neosho County	30	early am							Wind and Electrical A sharp thunderstorm with wind and lightning damaged power lines and broke limbs from many trees. A minor fire resulted from lightning at one house near Chanute.
Bourbon and Crawford Counties	30	5am to 6am					2		Wind, electrical (2), and funnel cloud. In this thunderstorm lightning set fire to 2 houses with only minor damage to each near Fort Scott. Trees and limbs were broken by the wind. The Highway Patrol reported a funnel cloud over Weir.
Cherokee County	30	6:30a			1	3			Electrical Three horses and 2 cows were killed when lightning struck near Girard. One person suffered from shock for several hours.
Marion County	30	early am					1	2	Electrical (4) Lightning struck twice early in the morning near Burns. The mattresses on a bed at one place was set afire and the person occupying the bed suffered a sore arm for several days. A motor box south of Florence was also damaged.

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
KANSAS (Cont'd.)	August								
Kingman County	30	7am						3	Electrical Lightning struck a large stack of 3,500 bales of hay, 5 miles south east of Kingman, all of which was burned.
Clay and Dickinson Counties	30	evening							Hail and wind High winds caused some damage to trees and power lines over these 2 counties. In east central Dickinson County large hail stones driven by the wind stripped leaves and ears from corn and shattered heads of grain sorghum. Windows were reported sucked out by the wind.
Brown, Atchison, Leavenworth Counties	30-31	11pm-4am							Electrical (5) and wind. A severe thunderstorm brought some wind damage to Atchison where trees were blown down. In Hiawatha electrical appliances were damaged at 12:25 am when lightning struck a house. A house and contents in Atchison suffered heavy damage by a bolt of lightning at 4 am. Two other houses had minor damage from other lightning bolts. West of Basehor a hay barn and 800 bales of hay and some machinery were lost in a fire resulting from lightning about 2am.
Lyon, Osage, Franklin, Wyandotte Counties	31	early morning						4	Electrical (4) During a thunderstorm over this area, a house near Americus was badly damaged by a bolt of lightning at 3:40a. In Osage City quite a number of light bulbs were burned out and appliances at 3 homes were damaged when lightning hit near by. A transformer in Baldwin was hit by lightning and electric service was off for several hours. In Ottawa lightning damaged the transformer and lines to the hospital and surrounding areas. Numerous telephone lines were out for several hours. A house east of Benner Springs was struck by lightning and suffered \$12,500 damage, to house and furnishings. A house next door was damaged some by the fire.
MAINE	August								
Stetson (Penobscot Co.)	17	5 p.	1.5	5	0	0	3	0	Tornado Storm sounded like jet airplanes. Damage at three points along path. Observers saw garage demolished and roof and debris lifted and spun around like leaves in a dust devil. Pieces were found up to a half mile away. In other two areas damage was only to trees. Storm moved eastward. Unusual feature was no visible funnel at ground other than rotating debris. This storm was associated with a thunderstorm and was not a fair weather dust devil. Hail fell in nearby areas.
OKLAHOMA	August								
Antlers, 4 1/2 miles east, Pushmataha County	27	1:20 a.	Short	100			3		Tornado Home damaged and outbuildings, trees and fences destroyed at a farmstead near Antlers. Loud roar was heard. Storm moved northward.
SOUTH DAKOTA	Aug. Late		un-		0	0	4		Tornado, electrical, hail
Haskell county	31	afternoon	known						Delayed report of tornado in northwest section of county. Out buildings at rural school destroyed, also large tool shed, livestock feeder, well curbing and other farm buildings demolished or damaged. A couple trying to escape path in car had rear window pulled out by suction. Two to three inches of hail on ground in general area and prairie fire started by lightning prior to tornado. Another unconfirmed tornado reported 45 miles northeast of Philip at 1735 C.S.T.
ILLINOIS									
Park Ridge	Sep. 21	2:47 pm	2	40	0	0	4		Tornado Probable tornado moved toward the northeast through the south side of Park Ridge. Many trees were downed but structural damage was light.
Pinckneyville	Sep. 26	7 pm	1/4	130	0	0	3		Tornado Tornado touched down briefly 3 miles south of town and damaged a coal mine building. Movement was reported toward the north.
MONMANY	September								
Missoula (Weather Bureau Airport Station)	30	10:30 - 10:40 A	?	?	0	0	0	0	Funnel Cloud The funnel cloud was observed over the Missoula Airport.

See reference notes with current data.

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