

U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

WEATHER BUREAU

F. W. Reichelderfer, Chief

# STORM DATA

JULY 1962

Volume 4 No. 7



ASHEVILLE: 1962

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1962

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>									
Marion, Perry County	5	1:45	2	?	0	0	4	C	Wind, Hail, Rain Thunderstorm struck airport about 3 miles south of Marion demolishing hangar and five small aircraft. Trees were blown down and farm buildings damaged by hail and high winds. Wind caused about 90% of damage, hail 10%.
Madison and Marshall Counties	5	Afternoon			0	0	4	C	Thunderstorms High winds, lightning and heavy rains caused scattered damage over the counties. In Bunksville a large warehouse under construction was blown down. Lightning knocked out power lines and some local flooding occurred due to heavy rain. Damage by wind 80% of total; lightning 10% of total; rain 10% of total.
Greene County	12	2:55p							Funnel Cloud Pilot reported funnel aloft 45 miles south-southwest of Tuscaloosa.
Whitley, Clarke County	16	5:00p			0	2			Lightning Lightning struck house injuring 2 persons inside.
Walker County	17	Afternoon			0	0	5	C	Thunderstorms Thunderstorm caused scattered damage over the county. At Towley a school house was destroyed by fire which was caused by lightning. In Jasper wind broke windows and blew down trees and power lines. Lightning caused 95% of total damage and wind 5%.
Bibb County	17	3:00p			0	1	3		Thunderstorm Scattered damage due to wind over southern portion of county. In Centerville the roofs of a school building and several houses were damaged. At Brent lightning injured one person.
Fort Payne, Dekalb County	21	2:30p	short narrow		0	0	4		Wind High winds occurring with a thunderstorm demolished a hangar and two small buildings at Isbell Airport. Four aircraft were damaged.
Mobile, Mobile County	28	12:30p			0	0	4		Lightning Lightning set fire to a large upholstery shop.
<b>ALASKA</b>									
None reported									
<b>ARIZONA</b>									
Prescott	26	10:30 a.			0	0	2	0	Tornado Funnel cloud touched ground briefly at the western edge of the city. Hail to 1 inch in diameter and heavy rain followed the funnel. One house unroofed, otherwise minor damage.
Mesa	27	9:45 p.	1	1800	0	11	5	0	Windstorm Strong winds associated with a thunderstorm unroofed several apartments at a Mesa motel. Eleven guests were injured and several parked automobiles were damaged by falling debris.
<b>ARKANSAS</b>									
Near Ebony, Crittenden County	18	Afternoon			1	0	0	0	Lightning One man killed by lightning while working in field.
Near Earle, Crittenden County	16	5:00 p.			1	0	0	0	Lightning One man killed when lightning struck farm building.
Hoxie, Lawrence County	23	8:50 p.	1/8	100	0	1	3	0	Wind, rain Windstorm heavily damaged service station. One person injured by flying glass from window.
Lake Conway area, Faulkner County	23	5:16 p.	1 1/2	1 1/2	0	3	3	0	Wind, rain Windstorm blew over two trailer houses injuring three occupants.
<b>CALIFORNIA</b>									
Northern and Central California	11-12				0	0	4	0	Lightning Lightning storms over and near the mountains set more than 150 forest and brush fires and damaged at least 1 home. Snow fell at higher elevations, and some summer camps were closed for periods of up to one week.
<b>COLORADO</b>									
Baca, Frowers, Adams, Weld Counties	4	Late aftn. & evening			0	0	4	5	Hail & heavy rain Hail, some as large as baseballs, damaged buildings and automobiles in the Clay Creek vicinity 13 miles south of Lamar and in an area SW of Springfield. Heavy rain north of Lamar flooded fields, and damaged ditches and roads. Hail and rain accompanied by high wind, damaged beets and other crops in Prospect Valley south of Keenesburg, in Weld and Adams Counties. Buildings were damaged at the Greeley Airport.
<b>COLORADO (Cont'd)</b>									
Weld County	7	Afternoon		*5	0	0		4	Hail Hail near Ault and Eaton damaged 6,000 acres of beets, which will set them back about 2 weeks.
Arapahoe County	8	12:58PM			0	0			Funnel cloud A funnel cloud was sighted 15 miles ESE of Denver.
Adams, Arapahoe and Elbert Counties	8	Afternoon			0	0	3	4	Hail, rain & wind Hail and rain with a strong wind caused flooding in the Kiowa and Prospect Valley areas. There was some property damage by wind. Hail hit again in Prospect Valley doing damage to row crops and fast maturing wheat. Hail damage 40%, rain 30%, wind 30%.
Pueblo County	8	Afternoon			0	0		4	Hail & heavy rain Hail and rain with 60MPH wind at Rye damaged crops and gardens. Total fall in 30 minutes 1.35 in. and 3.35 in. in 24 hours.
Phillips and Logan Counties	9	Evening			0	0		4	Hail and rain Heavy rain accompanied by scattered hail, damaged ready to harvest grain in the Crook, Dailey and Fleming areas. Crop loss estimated at about 50%.
Pueblo County	11	12:30PM			0	0	*4	C	Rain, wind and lightning Heavy rain, with scattered hail and high wind caused damage to roads, railroad tracks and buildings in the area near and north of Pueblo. Lightning damaged power lines and struck and killed valuable livestock. A barn was blown down by the wind. There was damage to crops in the adjacent areas. Hailstones 1 to 1 1/2 inches in diameter fell in some areas.
Logan County	12	Afternoon			0	0			Funnel clouds At least 4 funnel clouds were sighted, 10 to 15 miles MNW of Sterling. One or more touched ground briefly with little or no damage.
Denver Area	12	4:00PM			1	0			Lightning Lightning struck and killed a man while he was assisting a co-worker with his car.
Northeast Colorado	13	Afternoon			0	0	4	5	Hail, wind & rain Hail, driven by high winds severely damaged crops in scattered areas from the mountains eastward to the border. The hardest hit were areas near Windsor, Bugh, Fort Morgan, Snyder, Fleming, Haxtum and Sterling. At Windsor, farmers said it was the worst storm in 15 years. Over 10,000 acres of beets were damaged in the Fort Morgan area. At Fleming, Sterling and Haxtum, high wind overturned buildings, uprooted trees and damaged power lines. Heavy rain caused flooding of basements and roads. Large hail, some as large as eggs hit an area northwest of Burlington, the storm moving north and east to the state border. Hailstones of baseball size were reported near Holyoke.
Crowley County	16	Evening			0	0	3		Lightning Lightning struck a house, causing a fire that destroyed it and the contents.
Eastern Colorado	16	All day			0	1	3	5	Hail & lightning A series of thunderstorms, some with hail, hit scattered areas. In the Fort Collins area, in the evening, 3/4 inch hail inflicted some damage to crops and a lightning bolt struck a woman leaving her unconscious for awhile. At about 8 to 8:30PM, hail damaged crops in central Weld County. During the day, hail again hit the area in Adams County around Henderson & Brighton doing damage to corn, grain, beets and row crops, damage estimated 1/4 million dollars. Southwestern Logan County in the Marine area, suffered hail losses to their beet and grain crops. A severe hailstorm, 15 miles NE of Springfield completely destroyed some crops in an irrigated section and up to 7 inches of precipitation was reported.
Douglas County	16	12:07PM			0	0			Funnel clouds A pilot reported a funnel cloud 10 to 12 miles east of Castle Rock. An observer sighted 2 funnel clouds in the same area. No report of damage.
El Paso County	16	2:11PM			0	0			Funnel cloud A pilot reported a funnel cloud 23 miles east of Colorado Springs.
Washington County	16	2:40PM			0	0			Funnel cloud A funnel cloud aloft was observed 8 miles NW of Akron. It dissipated at 2:47PM.
Logan and El Paso Counties	16	2:30PM			0	0	3	4	Wind, hail & rain Golfball sized hail and heavy rain battered an area from Atwood to Crook, causing damage to sugar beets and other crops. Wind destroyed a farm building on a farm near Atwood. One inch hail dented aircraft wings 3 miles SE of Colorado Springs.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1962

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM		
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS			
<b>COLORADO (Cont'd)</b>										<b>FLORIDA (Cont'd)</b>											
Yuma County	17	7:00-8:00PM			0	2	4	4	Heavy rain	Pensacola Escambia Co.	4	12:30 p.							Waterspouts (2)		
									Flash floods caused property and road damage in an area near Wray and Vernon. A man and his 13 year old son were washed down a stream in their pickup, when a bridge approach was washed out. They suffered cuts and bruises. Two state highways were closed due to high water and washouts. Rainfall was estimated to be 6 to 8 inches.	West Palm Beach Palm Beach Co.	4	Afternoon			0	2				Lightning	
El Paso and Crowley Counties	18	8:30PM			0	0	2		Tornado and lightning	Pompano Beach Broward Co.	8	Afternoon			0	2			Lightning		
									A pilot reported a tornado on ground 60 miles SSE of Denver. Lightning killed 3 head of cattle on a ranch near Ordway.										Lightning injured two golfers		
Lincoln County	20	Afternoon			0	0			Funnel cloud	Pt. Lauderdale Broward Co.	8	Afternoon			1	1			Lightning		
									A funnel cloud passed over Arriba. Although it was reported to have touched ground, there was no damage.										Lightning struck two persons on the beach		
Huerfano County	23	Night			0	0	*4	C	Heavy rain	Orlando Orange Co.	10	6:00 p.			1	0			Lightning		
									Up to 6 inches of rain fell in an area northeast of Walsenburg. Creeks were flooded and bridges were under water.										Lightning struck drag-line operator		
Morgan and Larimer Counties	27	Afternoon & night			0	0	3	4	Hail	Orlando Orange Co.	10	Afternoon			1	0	3		Wind		
									Hail hit an area again between Fort Morgan and Brush, damaging 6,400 acres of beets as well as other crops. Hail and heavy rain during the night from 10:00PM to 10:30PM damaged property and gardens at Loveland.										Wind toppled tree into moving automobile, killing one passenger		
El Paso County	28	Afternoon			0	0		4	Hail	Miami Beach Dade Co.	10	11:15 a.			1	0			Lightning		
									Hail hit ready to cut wheat fields, in northern El Paso County, crop damage 75% to 100%.										Lightning killed one swimmer in surf		
Washington County	28	5:20PM			0	0			Tornado	Winter Haven Polk Co.	11	6:00 p.			0	2			Lightning		
									A tornado was observed 3 miles south of Akron, moving northeast. No damage reported.										Lightning injured two boys who took refuge in boat under metal canopy on edge of Lake Oke.		
Elbert County	29	11:48AM			0	0			Tornado	Thonotosassa Hillsborough Co.	12	After-			1	4			Lightning		
									A pilot reported a tornado 10 miles west of Limon. It touched ground for 2 minutes.										Lightning		
Logan, Phillips and Pueblo Counties	30	Late afternoon			0	0	*4	C	Heavy rain	Pompano Beach Broward Co.	13	Noon			0	2	0		Lightning		
									Heavy rain in scattered areas of eastern Colorado, caused flood damage. At Sterling, 2 inches of rain fell in 2 hours, flooding streets and basements. Heavy rains also fell eastward through Phillips County to the state border. At Pueblo, heavy rain caused traffic accidents and flooding.												Lightning injured two persons working on an irrigation system in front yard.
Northern Colorado	31				0	0			Hail aloft	Lake Wales Polk Co.	18	Afternoon			1	4			Lightning		
									A pilot reported 3/4 inch hail aloft at 12,000 feet between Fraser and Denver.										Lightning		
Larimer County	31				1	3			Lightning	Pt. Pierce St. Lucie Co.	20	3:30 p.	short narrow	0	0	4			Tornado		
									Lightning struck and killed a man and injured 3 others at Horse-tooth Reservoir west of Fort Collins. They were standing on a boat dock at the lake.										Tornado moved southwestward.		
CONNECTICUT										West Palm Beach Palm Beach Co.	24	9:51 a.							Waterspout		
Hartford, New Haven and Middlesex Counties	12	PM (EDT)			0	1	4	0	Lightning	<b>GEORGIA</b>											
									Unusually severe electrical storms sweeping eastward felled many trees, set numerous fires, and knocked out power in some sections. A Madison youth was knocked unconscious by a lightning strike.	Cedartown, Polk County	5-6				0	0	4	0	Rain		
Fairfield, Hartford, New Haven and Middlesex Counties	21	3:00 - 6:00 p. (EDT)			0	0	5	5	Thunderstorms										Extremely heavy rain, centered in the Cedartown area, caused the flooding of several homes and businesses. The Polk General Hospital had six feet of water in its basement and sustained most of damage. The storm total at Cedartown was almost eight inches of rain with more than six inches falling in a 24-hour period.		
									A line of unusually severe thunderstorms moved rapidly across the State. The wind felled hundreds of trees and knocked out power in many sections. Heavy rains caused considerable erosion in Danbury. A dozen boats were capsized at Old Saybrook, Branford and Guilford. Winds estimated at 75-85mph hit Wallingford where hail destroyed about 40 acres of fruit in one orchard.	LaGrange, Troup County	7	6:15 p.			0	0	4	0	Rain, wind and lightning		
DELAWARE																			A severe thunderstorm, with wind gusts to 50 miles per hour and 1.50 inches of rain in 15 minutes caused scattered damage throughout LaGrange. The roof of a laundry collapsed under the weight of water and large plate glass windows were blown from businesses resulting in further damage by water. Lightning struck several homes with varying amounts of damage.		
New Castle	21	3:00 PM	0.2	100	0	0	4	2	Possible Tornado	Chatham County Southwest of Savannah	12	4-4:30 p.	2	30	0	0	4	3	Tornado, rain		
									A heavy warehouse roof was lifted half a block damaging trees, houses, and 7 cars. There was no damage nearby. No one reported seeing a funnel cloud.										Storm, thought to be a tornado caused heavy damage along a narrow path just outside of Savannah. Barns were unroofed and trees uprooted. Considerable damage to rare trees at the USDA Plant Introduction Station south of Savannah where 2.49 inches of rain fell in one hour and fifteen minutes.		
Harrington	21	9:30 PM			0	4+	5	2	Thunderstorm, wind	Statewide	17	p.m.			0	0	4	4	Wind, hail, rain and lightning		
									Winds with gusts estimated at less than 60 mph blew down tents, ferris wheels, etc. at the Delaware State Fair.										Severe thunderstorms with damaging winds, hail and heavy rain hit many parts of the State. Roofs were damaged, trees uprooted and electrical service disrupted at several places, while hail caused damage to tobacco and other crops in the south central section. Counties hardest hit included Hagerman, Bibb, Houston, Washington, Johnson, Laurens, Ben Hill, Worth and Colquitt.		
FLORIDA										Savannah, Chatham County	22	3:30 p.			0	0	4	0	Wind and rain		
Pettis Springs Madison Co.	4	Late AM			1	4			Wind										A violent thunderstorm caused widespread, but mostly minor, damage in Savannah as wind gusts reached 75 miles per hour. Power and telephone lines were downed by falling trees and roofs were damaged. A similar, but less severe, storm hit the area on the previous day causing minor damage.		
Pensacola Bay Escambia Co.	4	Noon			1	0			Lightning	Northwest and central areas	24	p.m.			0	1	4	3	Wind, hail and rain		
Milton-Gulf Breeze Santa Rosa Co.	4	12:10 p.	5	25	0	0	4		Tornado										Several businesses in downtown Rome suffered roof damage from winds and subsequent water damage. Trees were uprooted and electrical service disrupted in many parts of the City. A woman was injured when pinned under a shed blown over at Lake Spivey south of Atlanta. Farm buildings, equipment and other property were damaged by wind in Rutte, Washington and Laurens Counties.		

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS						
HAWAII			None reported							INDIANA														
IDAHO Fremont County	26	Afternoon	15	7 miles	0	0	5		Hail	Lake and Porter Counties	20	3-4 p.	?	?	0	0	4	0	Tornado, wind					
									Hailstones up to 1 inch in diameter pelted fields in St. Anthony, Drummond and Lamont area inflicting heavy loss to grains.											Severe thunderstorms spawned at least one tornado and damaging winds in northern Lake and Porter Counties. Important property losses occurred at Griffith where a church roof was blown off and a garage was smashed. At Ross a house was demolished and at Crocker the roof of a lumber yard was blown away. A funnel cloud was seen in the north from Valparaiso about the same time.				
McCall	27	12:30 a.			0	0	4		Wind	Bristol, Elkhart County	20	5:10 p.	1.5	?	0	0	2	0	Tornado					
									Gusty winds out of the northeast reached speeds of about 75 m.p.h., smashed boat docks and swamped large number of boats on Payette Lake. Waves estimated 3 ft. high. Log boats were broken and logs floated free "all over the lake". Many trees were toppled; two smashed through roofs of houses. Storm lasted 1 1/2 hours.															
Portneuf Reservoir	30	2:34 p.			0	0			Tornado	Ossian, Wells County	20	7:10 p.			0	0	0	0	Funnel cloud					
									Pilot observed funnel cloud for 15 minutes. Funnel extended to surface, drawing dust and water aloft. No damage reported. Funnel moved northeast.	LaPorte, LaPorte County	22	5:30 p.			0	0	0	0	Funnel cloud					
Blackfoot (near)	31	4:00 p.			1	0			Lightning	IOWA Laurens	1	12:30 p.					4	5	Heavy rain					
									Sixteen year old youth killed by lightning while working in potato field 10 miles west of Blackfoot.											Unofficial rainfall amounts estimated to 5" in 4 hours and 7 1/2" in 24 hours.				
ILLINOIS 25W Rockford	1	1:50p							Funnel Cloud	Lake Okoboji, Dickinson County	4	1:00 a.					6	4	Heavy rain					
									Pilot reported funnel cloud 25W Rockford											6.17" rainfall in about 4 hours at Milford. Unofficial amounts to 10" at Lake Okoboji. Damages estimated \$2,000,000.				
Champaign and Vermillion Counties	2	3:30p	7	20-50	0	0	4	4	Tornado, hail, wind heavy rain	Kossuth County through Franklin County	7	7:00 p.					5	5	Windstorm					
									Evidence of tornado damage along southwest to northeast line from just south of Royal to just east of Hope with greatest damage in village of Hope. Several houses, a church, a house trailer and farm buildings were damaged. Tornado was not in continuous contact with ground but touched or approached ground at several points along line. Damage by hail and wind to crops and buildings was along 15 mile line from St. Joseph to Colison. Some soybean fields were completely stripped of leaves with corn down and leaves shredded. Total rain measurements of from 5 to 8 inches in same area during afternoon and following night.														About 40% damage by hail. 10% damage from rain. Particularly damaging at Hampton, Belmont, Whitmore and West Bend.	
DeWitt	3	5:40p							Funnel Cloud	Spirit Lake, Dickinson County	7	7:15 p.									Tornado and Waterspouts			
									Funnel cloud reported by former Airforce Weather Officer 2 miles west of Mapella. Watched for 5 to 10 minutes and observed to move south to southeast. No thunderstorm, wind, lightning or precipitation with funnel.												2 waterspouts over Spirit Lake.			
Quincy	4	10:54p							Funnel Cloud	Spirit Lake, Dickinson County	7	7:30 p.			28	6	4				Windstorm			
									Pilot of DC-3 sighted cone shaped funnel cloud over Quincy Airport, top 3500 feet. Hit edge at 2600 feet with extreme turbulence and 2000 feet per minute updrafts.												Along one mile on West Okoboji docks and boats wrecked. Winds estimated 70 mph. Waves 6-8 ft. high. Property losses about \$2,000,000, Spirit Lake, Lake Okoboji and immediate area.			
Aurora and Kane County	11	12:20p			0	0	4	?	Hail, wind and lightning	Geneva	7	9:30 p.									Funnel			
									Hail as large as 1" in diameter damaged crops and greenhouses, lightning knocked out transformers and set a house on fire, falling limbs damaged power lines and buildings in Aurora and nearby Kane County.	Brighton	7	11:00 p.					4					Lightning		
Bureau and LaSalle Counties	11	1p			0	0	4	?	Hail, wind and heavy rain	Essex	7	11:30 p.					4	5			Hail			
									Falling trees and limbs damaged buildings and parked car, streets and roads were flooded and hail damaged crops on more than 100 farms.	Fayette and Clayton Counties	12	12:10 a.					5	5				Thunderstorm		
Lincoln	13	2:45p							Funnel Cloud												About 50% damage by hail, 10% by lightning, 40% by wind.			
									State Police report funnel cloud 2N Lincoln	Independence	12	2:30 a.					4	4				Windstorm		
Lawrence County	13	6-11p			0	0	5	0	Lightning	Le Mars	12	5:00 a.									40% loss due to hail.			
									Damage estimated at \$80,000 to one building and contents in Lawrenceville as well as lesser damage to several homes in county.	Marshalltown	13-14						4	5				Heavy rains		
Frankfort	15	7p							Hail												6.58 inches rain at Marshalltown on 13th.			
									Golf ball size hail reported.	Iowa City	13-14											8.03 inches rainfall on 13-14th at Iowa City. Flooding from Ralston Creek and Iowa River. Losses exceeding \$100,000 in Iowa City, \$58,000 at SUI Art Building and Theater.		
Logan and DeWitt Counties	22	8-11p			0	5	4	5	Hail, wind, heavy rain	Bettendorf	14	4:18 a.					5					\$500,000 loss.		
									Hail damaged crops and greenhouses, wind and falling trees damaged buildings and power lines. Heavy rains attributed as cause of accidents injuring five persons.	Fort Madison	19	5:30 p.					1						Lightning	
Chicago and vicinity	22	4:20p			1	3	3	0	Funnel cloud, hail lightning	E of Storm Lake	19	11:00 p.					1					Lightning		
									Funnel cloud watched for 6 minutes starting at 4:24p by observers at Chicago Midway Airport. Heavy rain and hail measuring 2" in diameter fell about 4:55p. Hail of lesser size fell at intervals during half hour period. 1 killed, 3 injured by lightning	Correctionville	21	7:30 p.							4	5				Hail
Northern Illinois	22	aftn and eve							Hail, squall line	Sioux City	21	8:00 p.										1" to 3" diameter hail.		
									A squall line moved across northern Illinois during the afternoon and evening. Crop loss due to hail was reported in at least 50 Illinois counties with nearly all counties in northern half of state suffering some damage.	Council Bluffs	21	9:30 p.							6	5				Hail
										Mills, Page and Fremont Counties	21	10:30 p.										Losses estimated \$1,000,000. Large hail reported.		
										Nora Springs	22	3:00 p.					2					Mostly wind damage Percival-Waubonsie State Park. Hail and wind at Malvern. Some hail Stanton and Bethesda. About 35% damage hail, 65% due to wind.		
										Adams County	22	7:30 p.	3	400			4	5				Hail		

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<b>IOWA (Cont'd)</b>										
North Central and Northeast Iowa	22	10:30 p.						6	6	Thunderstorm
			In Dubuque \$500,000 loss and total losses in Dubuque area \$1 1/2-\$2 million. Mostly hail losses occurring in afternoon. Some other localities reporting losses were Forest City, Buffalo Center, Garner, Sheffield, Postville, Decorah, Farmersburg, Monona, Gerald, Garnaville, Swea City, Bancroft, Ledyard, Lakota, Titonka, Grundy Center, Thompson, Thornton, Earlville, Martelle, Lake Mills, Strawberry Point, Guttenberg, Cascade & Belmond.							
<b>KANSAS</b>										
Sherman County	2	6:00 p.								Hail
			Hailstones up to golf ball size caused damage near Colorado line.							
Gray County	2	8:20 p.								Funnel cloud
			Funnel cloud observed by Highway Patrol near Cimarron.							
Kearny County	4	3:40 p.								Tornado
			A funnel touched ground briefly 15 miles east of Syracuse. Path of travel was west to east.							
Chase County	6	4:30 p.								Tornado
			A funnel cloud descended, touched ground, then disappeared all within 30 seconds about 10 miles southeast of Matfield Green.							
Finney County	8				1	1				Electrical
			One man was killed and another injured when struck by lightning near Garden City.							
Stanton County	10	Late afternoon								Hail and wind
			High wind broke trees and limbs. Hailstones ranging in size from marbles to eggs caused considerable damage to crops, roofs, and automobiles.							
Marshall County	11	About 8:30 a.					3			Electrical
			Lightning struck and killed 25 head of cattle at a farm 7 1/2 miles west-southwest of Marysville.							
Shawnee, Jefferson, Douglas and Johnson Counties	11	10:00 a.-10:30 a.					5			Tornado, electrical, and severe winds
			A squall developed over northeastern Shawnee County and moved southeastward across Johnson County. Rather violent winds broke trees, disrupted power and communication lines, damaged roofs. A funnel dipped to earth southeast of Leocypion at 10:20 a., destroyed a barn, and dipped again a few miles further southeast but with only minor damage. Numerous lightning-caused outages of electricity were reported. Five men in Lawrence suffered minor injuries from lightning.							
Labette County	12	6:30 p.								Severe wind and hail
			Severe wind and some hail were reported from near Altamont.							
Jackson and Shawnee Counties	12	8:15 p.-8:45 p.					1			Funnel cloud and lightning
			During a thunderstorm, a funnel cloud was sighted about 12 miles north of Topeka but receded back into the clouds by 8:23 p. Eight properties were damaged by lightning in Topeka about 8:30 p. A woman was burned when lightning jumped from a TV set as she was passing. Her stocking was burned to shreds.							
Thomas County	14	6:00 p.-6:30 p.								Funnel cloud, hail, wind
			During a thunderstorm, some marble-sized hail and severe wind caused much tree and roof damage in and near Colby. A funnel cloud was sighted a few miles northeast of Colby. A 300-foot radio tower was snapped off. Winds were estimated at 60 to 80 mph.							
Ford, Pawnee, and Barton Counties	14	8:00 p.-9:30 p.								Tornado and severe winds
			Considerable damage was done over these counties by winds of 65-75 mph force. Trees, power lines, roofs, etc., were generally affected. A small tornado near Wright at 8:00 p. covered a mile-long path 300 feet wide from northeast to southwest, damage was done to several mobile homes. Much wind damage occurred at and near Great Bend and Larned.							
Saline and Dickinson Counties	14	11:00 p.-12:00 p.								Violent wind and electrical
			Winds estimated at near 70 mph caused much damage to trees, roofs, and communication lines in the Saline-Abilene area. Lightning struck in several places causing power failures.							
<b>KANSAS (Cont'd)</b>										
Brown County	15	Early morning								Electrical
			A farm house was completely burned when struck by lightning 4 miles south of Hiawatha.							
Ford and Pawnee Counties	16	9:00 p.-9:30 p.								Severe winds and hail
			A severe wind from the north, preceding a heavy rain, broke tree limbs, transmission poles and lines, windows and roofs. Hail piled up in small drifts at Dodge City.							
Sheridan and Graham Counties	19	4:30 p.-5:15 p.	12	*3			4	4		Hail and severe winds
			Hailstones of marble size damaged crops extensively over northwest-southeast path from east central Sheridan County into west central Graham County. High winds also broke trees, unroofed some buildings and destroyed metal granaries.							
Cheyenne County	20	7:40 p.								Funnel cloud
			Pilot reported a funnel almost touching ground in southwest part of the county.							
Morris County	21	Afternoon	2	*1						Hail
			Hail stripped corn and bruised the ears, soybeans and sorghums were also damaged in a small area near White City.							
Marion County	22	4:00 p.-5:00 p.	5	*3						Hail
			Hailstones up to 1 inch in diameter shredded corn and damaged other crops and roofs in the Lost Springs-Lincolnton area.							
Rawlins County	28	5:30 p.								Tornado, wind and hail
			A funnel cloud dipped to earth 12 miles east of Atwood and left a path of broken trees and communication lines for several miles. Wind and hail near Dade and Herndon caused crop damage reaching 100% in a few cases.							
Cheyenne County	28	Evening								Funnel cloud
			A funnel was sighted west of St. Francis.							
<b>KENTUCKY</b>										
Hickman	8	PM								Tornado
			Winds said to be associated with a small tornado ripped off a section of the Fulton County High School roof and knocked over a chimney and several utility poles.							
Kenton and Boone Counties	15	AM			1		6*	C		Heavy Rain
			Rainfall, in excess of three inches, associated with numerous thunderstorms around the Covington area produced flash flooding over tributaries of the Linking River. Four-hundred persons were evacuated from their homes. Damage most extensive at Sanfordtown, two miles south of Covington where a house was washed from its foundation causing one fatality.							
Jessamine County	15	PM					3			Lightning
			Lightning struck dairy barn southwest of the Lexington area killing 16 cows.							
Mason County	22	PM					4	4		Wind; Hail
			Wind and hail associated with scattered thunderstorms damaged 40 acres of tobacco, demolished a barn, and tore the roof from one residence.							
Christian County	30	PM					1			Lightning
			Lightning associated with brief thunderstorms struck a wire fence on which a laborer was climbing near Hopkinsville.							
<b>LOUISIANA</b>										
Calcasieu Parish, 7 E Lake Charles	1	11:05 a.-11:10 a.								Small funnel aloft
			Moved northwest.							
Calcasieu Parish, 5 N Lake Charles	2	2:02 p.-2:04 p.								Funnel cloud aloft
			Dissipated							
Plaquemines Parish, 1 SW Burrwood	8	5:33 a.-5:41 a.								Waterspout
			Moved toward northeast.							
Jefferson Parish, SW of Alvin Callender Field	20	1:39 p.								Funnel cloud

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1962

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>LOUISIANA (Cont'd)</b>									
Jefferson Parish, 10 ENE Grand Isle	27	8:15 a.							Funnel cloud
Baton Rouge, E. Baton Rouge Parish	27	3:15 p.-3:20 p.	2-1/2	*1-1/4	0	0	4	0	Wind
Moved from northwest toward southeast.									
<b>MAINE</b>									
Sebago Lake and Raymond	9	11:55a.	6	50	0	0	3	0	Waterspout and Tornado
Tornado apparently originated as a waterspout on Sebago Lake and followed a northeasterly course across Raymond and Panther Pond and into East Raymond for about 1.5 miles. Storm was a waterspout again over Panther Pond. It uprooted trees, shifted a boathouse two feet off its foundation and caused other damage along its 6 mile path.									
Southwest coastal counties	9	Midday			0	0	4	0	Electrical
Rolling chain of heavy thunderstorms damaged spotted sections of this area. Lightning knocked down a church steeple at Alna. A rare Paul Revere bell was cracked in the fall. Other lightning strikes and strong winds, locally, did widespread but mostly minor damage.									
Wallops	9	Afternoon			0	3	3	0	Electrical
Two women and a child were injured when a lightning bolt struck a house. The house was so badly damaged as to be rendered uninhabitable, and all tenants were compelled to vacate.									
Central and western sections	12	Afternoon			0	2	4	0	Electrical
A number of lightning-started fires accounted for most of the damage. Storms were locally severe. In Rumford, lightning melted a plastic tray held by a young girl. She and another girl were made deaf for about 5 minutes. Hail was reported in the Greenville area.									
Southwestern sections	13	Afternoon			0	3	4	0	Electrical.
Thunderstorms had a high frequency of lightning flashes which struck numerous homes and buildings and started a number of fires. Electric power and communication lines were put out of order in some sections and 3 persons were injured by lightning.									
Northern Aroostook County	18	Afternoon			0	0	4	4	Electrical, rain, hail
Torrential rain covered an area about 10 miles wide and 35 miles long extending from southeast of Ft. Kent southeastward to Stockholm and New Sweden. Damaging hail, up to 3/4 inch diameter, covered about 250 acres between Stockholm and New Sweden. Storm washed out highways and roads. Heavy damage was done to a Boston & Albany railroad section at Axel Siding. Several fields of potatoes in the Stockholm-New Sweden area were badly damaged by hail and rain and a great amount of soil erosion was evident in the fields. Lightning made a number of strikes in the Ft. Kent area and set at least 2 fires. Flooding of streets and cellars added to the total damage in Stockholm where storm was described as one of the worst in town's history.									
<b>MARYLAND</b>									
Much of State	21	P.M.			0	0	5	4	Cold front with thunderstorms
Trees and crops were damaged by hail near Westminster and Cumberland. Lightning-set fires destroyed 10 barns (6 in Frederick Co.) and 4 churches (a new one at Harundale and 113 year old Emory Church in Bel Air) and did lesser damage to several other buildings.									
Northern Baltimore and adjacent areas	23	7:30-9:30P.M.			2	11+	5	3	Severe thunderstorm
Maximum wind recorded was about 70 mph. Hundreds of trees and utility lines were downed. About 10,000 homes were without electricity and 6,000 telephones out for periods of a few minutes to 20 hours. Total precipitation was not excessive, but, in the area of heaviest rainfall, amounts of nearly 1" in 5 minutes and 1.5" in 10 minutes were recorded. Flash flooding resulted in one death when an automobile was swept into a stream trapping its driver. Another woman was killed and 11 people injured when 2 fire trucks, responding to an alarm resulting from a lightning strike, collided and one plunged into a store killing an occupant. In Towson, hail reportedly covered the ground to a depth where it could be shoveled from walks.									
Georgetown to Central Eastern Shore	23	P.M.			0	5+	4	4	Cold front with thunderstorms
Hail damaged corn, fruit, etc. in Western Maryland. Wind blew down trees and utility lines and broke windows in a number of places. Lightning struck a number of buildings and killed 4 steers near Oakland. Five people were injured when wind blew over a trailer at Sudlersville.									
<b>MASSACHUSETTS</b>									
West Boylston	2	11 a.	Short	Small	0	0	2	0	Dust Devil
Dust devil smashed glass and twisted metal frames of a greenhouse.									
Statewide	9	Midday			0	0	5	0	Rain
Torrential rains of brief duration flooded cellars and underpasses in many parts of the state. Some washouts of roads and driveways occurred. Attendant thunderstorms and, locally, strong winds did minor damage. Few communities reported power and phone outages.									
<b>MASSACHUSETTS (Cont'd)</b>									
Northeast, Cape Cod, Springfield areas	12	Late afternoon			0	2	5	4	Electrical, Rain, Hail
Thunderstorms occurred in all parts of the state but apparently hit these areas hardest. Lightning started fires and other lightning strikes, crop-damaging hail, and torrential, flood-producing downpours were experienced in many communities. Traffic was frequently stalled and power and phone outages were widely reported. In Springfield, lightning made at least a dozen strikes. Hail stones were frequently of both-ball size. Street and cellar flooding was exceptionally heavy. Trees downed by wind or ripped by lightning took down wires causing widespread power and phone outages.									
Eastern sections	13	Afternoon			0	1	4	3	Electrical, hail
Severe thunderstorms struck communities in this part of the state. Many lightning strikes resulted in a number of fires. More than a dozen communities in northeastern Mass. reported heavy showers of hail which damaged some crops and broke windows.									
Pittsfield to Dalton	21	3:20 p.			0	0	4	0	Wind
A "flash wind storm" ripped through the area leaving uprooted trees, smashed store windows and downed wires and television antennas. In one section of Dalton about 100 mature hardwood trees were uprooted. In Pittsfield a car was crushed by a falling tree. Several communities lost their electric power for nearly an hour.									
Northern Worcester County	21	Late afternoon			0	1	4	0	Electrical
Severe thunderstorms from Athol to Ashburnham knocked out electric power in several communities. Lightning injured a boy in Ashburnham.									
Salem to Marblehead	21	6 p.	3.5	Narrow	0	3	4	0	Tornado, waterspout
Lower part of funnel was visible as "curling smoke" which made frequent contact with the surface. Storm path was almost due east. A woman and two children were hurled to the ground and injured by the wind. The storm tore off a large section of the roof of a 3-story building, ripped off a 3d story back porch, lifted a partly built front porch from its foundation and carried it 150 yards, and moved a garage about 6 inches from its foundation. Power and phone lines were knocked out and streets were clogged with fallen trees. Damage of a more minor nature occurred at many places along the storm's path. Storm became a waterspout crossing Salem Harbor.									
Essex and Middlesex Counties	21	Early evening			0	0	5	3	Electrical, wind, rain, hail
A series of thunderstorms attended by scattered occurrences of torrential rains and violent wind squalls caused heavy damage through Essex County and adjacent portions of Middlesex County. Areas of heaviest damage included Plum Island, Newbury, Groveland, Byfield, Rowley, Middleton, Danvers, Ipswich, Beverly, Salem and Marblehead. In the latter two titles the storm developed a tornado described above. Several of the windsqualls approached the intensity of tornadoes. These included the ones that struck Middleton, Byfield and the Plum Island-Newbury section. The nature of the damages in each of these communities indicated the violence of the storm. Small structures were lifted and smashed, trees were uprooted or broken, power and phone lines were downed in many places, and debris was widely scattered. A tent colony in Plum Island suffered heavy damage as 6 of 25 tents were ripped and torn. Lightning strikes were numerous throughout the storm area and a number of fires were started. Torrential rains in some places flooded streets and cellars and washed out sections of roads and driveways. Trees crops were washed out in some instances and flattened in others. Scattered occurrences of hail left their marks on leafy crops.									
<b>MICHIGAN</b>									
South Central and southeastern Lower Michigan	8	11:00a. 2:00p.			1	1	4		Thunderstorms with high winds and lightning.
Man killed by lightning bolt on golf course at Grand Blanc near Flint. Teen age girl was injured when struck by lightning while inside a cabin near Gladwin. She was treated at nearby hospital. Lightning induced fires, destroyed 2 homes and damaged several other buildings throughout the area. High winds felled numerous trees with damage to cars and buildings.									
Iron River	8	afternoon					4		High winds.
High winds felled numerous trees which blocked sections of highways in the area. Felled trees, cut power lines with heavy repair damage reported by the phone company. Phone service disrupted to hundreds of homes in the vicinity.									
South Central and south eastern Lower Michigan	11	4:00 p. 8:00 p.					2	4	Thunderstorms with heavy rains, high winds and lightning.
Heavy rains in excess of 2 inches flooded the Kalamazoo area with damage to streets, roads, buildings and basements. Several other cities reported amounts in excess of 2 inches also. High winds and lightning severed power lines disrupting service to hundreds of homes. High winds felled numerous trees which blocked roads and streets. Damage to cars and buildings due									

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1962

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			
MICHIGAN (Cont'd)											
Warren	11	7:50 p.							Funnel aloft. Motorists sighted funnel aloft at 14 Mile Road and		
Southern Lower Michigan	20	2:00 p., 8:00 p.			3	2	5	C	Thunderstorms with high winds, hail and lightning. Three persons were killed and two other persons were seriously injured while riding in a car near Britton which was picked up by high winds and hurled 100 feet against a tree. Four large modern farm barns were demolished by high winds in Calhoun County. Lightning and high winds severed power lines cutting service to hundreds of homes in the area. Numerous trees blown down by high winds blocked sections of state highways and streets in cities within the area. Falling trees damaged homes, buildings and cars. Several house trailers were blown over and damaged. Calhoun, Lenawee and Hillsdale counties reported the heaviest wind damage. Corn crops suffered hail damage.		
Western Upper Michigan	24	3:00 p., 7:00 p.						4	C	Thunderstorms with lightning, high winds and hail. High winds tore and ripped shingles off roofs of many homes and buildings. Numerous TV antennas were blown down and damaged. Wind felled trees, damaged several buildings and homes. Lightning and high winds cut power lines which disrupted service to many homes and buildings in the area. Hail damaged some crops in the area.	
MINNESOTA											
Dilworth, Clay County	6	7 a.	1	1000				4		Wind downed service lines and unroofed part of a railroad roundhouse.	
Ada (near), Norman County	6	8 p.								Funnel aloft observed moving from northeast to southwest not touching ground.	
Perley NE, Norman County	6	9:15 p.								Two funnel clouds, touching ground briefly but with only minor damage, observed moving from west to east.	
Big Stone, Stevens, Todd, Yellow Medicine, Redwood, Renville, Cottonwood, Sibley, Blue Earth, Martin and Faribault Counties	7	3 p. to 8 p.						4	6	Wind, hail. Strong winds accompanied by hail up to 2 1/2 inches in diameter damaged buildings, uprooted trees, and stripped crops in several townships in the designated counties. Greatest dollar damage was sustained at Morris and vicinity, Stevens County, around 3 p.m. A 80 ft FM radio tower at Morris was also blown over.	
Otter Tail Lake, Otter Tail County	7	3:15 p.								Funnel cloud aloft sighted near Otter Tail Lake.	
Piers, Morrison County	7	Afternoon						2		Electrical. One man struck by lightning while watching ball game. Another man, rural Piers, suffered leg injuries as tree struck by lightning fell on him.	
Milaca, Mille Lacs County	7	5:15 p.						4		Wind. Strong winds uprooted trees, damaged buildings, blew down one barn and wrecked TV antennas in Milaca and surrounding area.	
Mahtomedi, Washington County	7	6:30 p.								Funnel aloft. Funnel cloud accompanied by roaring sound observed moving from west to east. Only minor damage caused by strong surface winds.	
Inver Grove, Dakota County	7	6:45 p.								Funnel cloud aloft observed, moving southeast, not touching ground.	
Marshall and Pennington Counties	7	7:30 p.						5	5	Wind, hail, funnel clouds aloft. Severe wind and hail storm began in northwestern Marshall County and moved southeast into eastern Pennington County following a line from Stephen to Rosewood, Marshall County to Thief River Falls, Pennington County. Hail stones up to 2 1/2 inches in diameter damaged some crops in a strip 1/2 to 1 1/2 miles wide. Greatest wind damage was in the Thief River Falls area with gust to 70 mph at local airport. Barns and outbuildings were damaged, trees uprooted and utility lines downed. One airplane was damaged extensively. Funnel clouds were sighted by several observers near Thief River Falls but none touched ground. Storm moved from NW to SE.	
Redwood Falls (near), Renville County	16	3 p.								Funnel clouds aloft. Funnel clouds reported 21 miles east of Redwood Falls at 3 p. and again 30W at 4:25 p.	
MINNESOTA (Cont'd)											
St. Cloud (near), Stearns County	16	5:30 p.								Four funnel clouds reported by pilots and ground observers in the St. Cloud area.	
Rochester, Olmsted County	17	4:30 p.								Funnel cloud aloft. Pilot reports funnel cloud 20 miles east of Rochester.	
Northern Big Stone County	17	6 p.								Hail. Hail up to 1 1/2 inches in diameter damaged crops in several townships in an area 50 miles long by 2 to 3 miles wide. Storm moved eastward.	
West Central Minnesota, Lac qui Parle, Redwood and Yellow Medicine Counties	19	6 a.								Hail, wind and rain. Hail damage reported in the listed counties with hail lodging crops. Unofficial wind speed at Montevideo radio station (Chippewa County) reported at 71 mph at 6:20 a. with 2.50 inches of rain falling in a 2 hour period.	
South Central Minnesota, Blue Earth, Martin and Faribault Counties	19	3 p.							5	Hail. Crop damage reported in several townships in the counties. Greatest damage in Martin County into southwest Faribault County. Heavy hail also near Garden City and Anboy, Blue Earth county.	
Marshall County	21	11:30 a.						4	5	Hail. Hailstones up to three inches in diameter damaged crops and buildings in a strip 1 1/2 miles wide from near Argyle to Radium.	
Bemidji, Beltrami County	21	2:15 p.								Hail reported up to 3/4 inch in diameter.	
Mahnomen, Morrison, Norman, Otter Tail, Pennington, Polk, and Red Lake Counties	21	7 p.							5	Hail. Hail, up to 2 inches in diameter, damaged crops in the designated counties. Over \$200,000 damage reported by Mahnomen county agent over triangle bounded by Bejon to Beaulieu to southwest corner of County.	
St. Cloud, Stearns County	21	7:20 p.						3	4	Hail. Hail 3/4 inch in diameter fell over parts of St. Cloud. Marble-size hail also reported near Milaca, Mille Lacs County.	
St. Paul, Ramsey County	21	9 p.							4	Heavy rain, hail. Heavy rain, 0.99 inch in less than an hour, caused street washouts. Hail, one inch in diameter, fell over parts of the Como Park district. One-quarter inch hail also observed at Weather Bureau Airport Station, International Airport.	
Becker, Meeker, Stearns, Wright, Hennepin, Ramsey, Washington, Dakota, Cottonwood, Martin and Wabasha Counties	22	1:30 p. to 7 p.							5	6	Hail, funnel cloud aloft. Scattered severe thunderstorms throughout central and southern Minnesota were accompanied by heavy hail. One inch hail moved from Cottonwood County into Martin County around 1:30 p. One and one-half inch hailassel area, Meeker County, did estimated \$125,000 damage at 2:30 p. Storm moved eastward into southern Wright County with more damage near Delano. The Mound-Maple Plain-Excelsior area, Hennepin County, was hard hit around 3:45 p. Insurance adjusters reported over 200 cars suffered severe hail damage as hail stones 3 inches in diameter were felt. Over 150 homes suffered structural and paint damage as did numerous boats. Light hail fell Roseville and North St. Paul (4 p.), Ramsey County. From 3 to 4 p. 3 inch hail fell over most of the southern third of Washington County. The Washington County Emergency Committee estimated dollar damage to crops near \$675,000. Minor damage was reported Farmington area, Dakota County. From Theiman to Conception, Wabasha County, two farmers had 100 per cent crop loss with several other 10 to 50 per cent loss (4:30 p.). A funnel cloud aloft was sighted at 4:30 p. near Ogema, Becker County. The cloud moved southeast. Light hail fell prior to sighting the funnel cloud.
Swift County	23	6:30 p.	4	*1					4	Hail. Hail stones up to 3/4 inch in diameter fell over parts of Shible and Hegbert townships. Storm moved from NW to SE. Light hail also reported at 6p. Delaware township in Grant County.	
International Falls, Koochiching County	24	11:15 a.	5	800				4	3	Hail. Hail with stones 1/2 to 1 inch in diameter hit residential International Falls and Sportsman's dock 9 miles east. Winds were recorded by the Weather Bureau at 63 mph. Many boats, gardens and homes damaged by the hail. Hail completely covered ground. Storm moved from west to east.	
Alexandria, Douglas County	24	3 p.								Hail, wind. Hail 3/4 inch in diameter reported 2 miles north of Alexandria. Municipal airport recorded wind gusts to 65 mph. Damage unknown.	
Edina, Hennepin County	24	5:30 p.			1	0				Wind, rain. Severe thunderstorm with gusty surface winds to 56 mph blew down electric wire electrocuting a man standing in his yard. Numerous trees and other power outages reported throughout Minneapolis-St. Paul and their suburban areas. Hail was also reported at and to the east of Anoka, Anoka County.	
Piers area, Morrison County	29	4:30 p.	2	*2				2	5	Hail. Hail stones up to the size of baseballs destroyed field crops over several farm sites. Many acres were a total loss. Lesser amounts of hail were reported in other parts of the County.	
MISSISSIPPI										None reported	

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JULY 1962

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
MISSOURI										MISSOURI (Cont'd)										
Hannibal Ralls County	2-3	night						3		Thunderstorm	St. Joseph Buchanan County	20	early morning					4		Thunderstorm
			4.18 inches of rain during the late evening of the second and early morning of the third, with flooding of streets. Some lightning damage to light transformers and an electric motor at the city pumping station.																	A church was hit by lightning and burned to the ground. Damage to trees and power lines.
Cameron DeKalb County	4	afternoon						4	4	Thunderstorm	Buchanan, Andrew, Clinton and Nodaway Counties	21	early morning					5		Thunderstorm
			Several farm buildings damaged by wind. Several fields of corn and soybeans heavily damaged by wind. Over 1.00 inch of rain fell in less than thirty minutes.																	A huge, historic, elm tree, five feet in diameter, seven and a half miles south of Maryville was blown down. This tree was planted in 1841. Wind damage to homes, trees, power and telephone lines reported over these counties.
Cabool Texas County	5	5:00 pm						4		Thunderstorm	Savannah Andrew County	21	early morning	5	100			4		Tornado
			Bowling alley roof heavily damaged.																	One tornado path started west of Savannah, near highway 275, continuing toward the southeast, crossing SK Highway, continuing to near the Riverview Country Club east of Savannah, lifting soon after that. Damage to roofs of homes, farm buildings and trees.
Carthage Jasper County	5	7:00 pm						4		Tornado	Clinton County	22	early morning					4	4	Thunderstorms
			A farmer six miles east of Carthage saw the funnel form, and saw it touch the ground twice. There was a loud roaring sound, and the air was full of debris. Only minor damage was done in the rural area east of Carthage. Two homes in Carthage were damaged by lightning.																	Hail damage to corn in northern part of county. Damage from wind and heavy rain to homes and farm buildings in the county.
St. Joseph Buchanan County	5	4:20 pm								Funnel Aloft	Golden City Barton County	24	2:50 pm							Funnel Aloft
			Observed by Weather Bureau station personnel southeast of Rosecrans Memorial Airport.																	Funnel Aloft
Fortescue Holt County	5	1:10 pm								Funnel Aloft	Princeton Mercer County	28	11:00 pm					4		Thunderstorm
																				Thunderstorms began at 11:00 pm. Strong winds blew down trees and damaged power and telephone lines. Power out for six hours in some locations. Several observers report seeing funnel clouds.
Cape Girardeau Cape Girardeau County	6	2:2:30 pm						3		Thunderstorm	Fredericktown Madison County	29	mid-afternoon					3		Thunderstorm
			Several homes and business buildings hit by lightning. A man was killed after the storm when he tried to pick up a high voltage power line that had been blown down.																	Hail, gusty winds, 3.49 inches of rain. Tree limb damage to power lines.
Trenton-Brookfield- Macon Area Linn, Macon and Grundy Counties	8	1:1:15 am						4		Thunderstorm	MONTANA									
			Severe thunderstorms moved from Trenton to Macon, damaging homes, farm buildings and trees in its path.								North Central Montana	1	Afternoon	200	*100	0	0	4	5	Wind, hail, thunderstorms
Table Rock Dam (125)	12	5:54 pm								Funnel Aloft										A number of storms were reported from main chain of the Rockies eastward to Lewistown, Fergus County, and Glasgow, Valley County. Gusty winds blew a roof off the Army-Gymnasium at Northern Montana College at Havre. Wind damage was about \$33,000 to property. An unverified funnel cloud was reported near Moccasins, Fergus County.
			Reported by military aircraft.																	
Pierce City Lawrence County	12	6:7:00 pm						4		Thunderstorm	Havre, Hill County	1	3:15 pm	4	500	0	0	2	0	Tornado
			Much thunder, lightning and strong winds. 52 cattle dead when hit by lightning.																	A small tornado was observed in the southwest portion of the city of Havre. It picked up water to a height of about 20 feet two or three times while crossing a lake.
Duenweg Jasper County	12	4:00 pm								Funnel Aloft	Southeastern Montana	2	Afternoon	150	*60	0	0	4	5	Thunderstorms and hail
			Picture by Joplin Globe Newspaper published in July 13, 1962 issue of that paper.																	A number of sections in the area eastward to the Dakota Border from Hysham, Treasure County, and Hardin, Big Horn County, were hit by hail afternoon and evening. Most crop damage was reported near Hysham and in southern Fallon County. Considerable property damage was reported at the Miles City radar base. Hailstones up to 1 1/2 inches in diameter were reported at Garryowen near Hardin.
Gordonville Cape Girardeau County	13	mid-afternoon						4		Tornado	Ronan, Lake County	5	5:30 pm	3	*1	0	0	0	0	Hail
			The tornado followed an erratic path, lifting a sidewalk, and depositing it 200 feet away on one farm. Roofs of farm buildings and limbs of trees were carried away. On one farm, an area of tall grass 50 by 200 feet was "crushed" when the funnel touched the ground.																	Average size of hailstones 3/4 inch, largest stones 1-1/4 inches.
Farmington St. Francois County	13	2:53 pm								Funnel Aloft	Eastern Montana	5	Evening	100	*40	0	0	3	5	Thunderstorms, high wind, hail
			Reported north-northeast of Farmington																	Thunderstorms, high wind, and hail occurred throughout an area from Cohagen, Garfield County, to Terry, Prairie County, Glendive, Dawson County, and Circle, McCone County. Total crop damage from wind and hail was around \$150,000. Near Circle, wind damage to property was about \$1,000 to crops \$10,000.
Sedalia (7 Sw) Pettis County	14	11:55 pm								Funnel Aloft	Eastern half Judith Basin County	5	Evening	25	*1	0	0	0	4	Hail
																				Severe storms were reported in several places from Roundup, Musselshell County, eastward to the Dakota Border. The most damaging storm was at Baker, Fallon County, where hail severely damaged buildings, autos, and other property. Crop damage near and around Baker was about a million dollars. High winds did considerable damage in Miles City. Hailstones up to two inches in diameter were reported at Ingomar and Baker.
Clinton (16N) Henry County	15	0:55 am								Funnel Aloft	Eastern Montana	6	Evening	200	*40	0	0	5	6	Thunderstorms, high wind, hail
			Reported by State Highway Patrol.																	
Hardin Ray County	15	1:00 am						4		Tornado										
			A roof lifted off a barn northeast of Hardin. One witness reported hearing a noise "like a large waterfall." A tree limb was blown down, digging a furrow four inches deep and fourteen feet long. Evidence of circular motion from the appearance of damaged corn. Leaves completely stripped from several trees. In one farm house the curtains were drawn so tightly to the window screen that a resident tore one trying to close the window.																	
Northeast Missouri	15	1:2:00 pm						4		Thunderstorm	Foreyth (40 miles north) Rosebud Co.	7	?	20	?	0	0	3	4	Hail
			Heavy rains, wind and lightning damage reported in Chillicothe, Pattonsburg, and Richmond areas. From 2-5 inches of rain reported in some areas.																	
Claycomo Clay County	20	4:00 am						3		Thunderstorm										
			Hail 1/2 - 3/4 inches in diameter.																	

See reference notes at end of table.



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1962

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>MONTANA (Cont'd)</b>									
Chouteau, Blaine & Phillips Counties	10	Afternoon	?	?	0	0	4	5	Thunderstorms, hail
	Several thunderstorms with hail were reported in the three counties. Most severe crop damage occurred in the Fort Benton, Montague and Geraldine area, Chouteau County, and Malta, Phillips County. Hail stones up to 1-1/2 inches were reported around Malta.								
Harlowton, Wheatland County	12	2:00 pm	?	?	0	0	4	0	Heavy rain
	A "cloud-burst" caused heavy flooding in lower portion of Harlowton. Several residences suffered flood damage.								
Billings, Yellowstone County	13	3:50 pm							2 funnel clouds
	One funnel cloud was 7 miles south of Billings and was observed for about 5 minutes. The second one was observed 15 miles northeast by a Western Air Lines pilot.								
Martinsdale 15 NW, Meagher County	12	Noon	?	?	0	0	2	2	Thunder and hail storm
	Hail stones were up to 1 inch diameter. Hail stones collected up to a depth of 5 inches at Checkersbar Inn 2 miles east. Funnel of rain gage was clogged with hail. There were four different storms which lasted 15-20 minutes with lulls of about 5 minutes between.								
Northern Blaine Co.	16	Late Afternoon	60	?	0	0	5	5	Hail
	Hail stones were up to the size of golf balls.								
Yellowstone, McCone, Dawson, Richland Counties	16	Afternoon	?	?	0	0	4	5	Thunderstorms, heavy rain, hail
	Numerous thunderstorms with hail were reported throughout these counties. Damage from hail was severe in few areas. Heavy rain west and south of Circle, McCone County, caused severe flooding and washing of fields and roads. Heavy rains were again reported north of Circle the 18th.								
Northern Blaine Co.	17	Afternoon 70- & evening 100	* 5-12	0	0	4	5	5	Thunderstorms, high wind, hail
	Hail stones were up to 3 inches in diameter. High winds uprooted trees. Unofficial measurements indicated 3 inches of rain in some sectors. Wild game such as antelope, rabbits, geese, ducks and other birds were killed, probably by large hail.								
Terry (27 miles SE), Prairie County	18	5:00 pm	?	?	0	0	0	0	Tornado
	A funnel cloud was observed which touched the ground and destroyed some fences. The wires appeared as if they had been drug by a car which had driven through the fence.								
Northern Hill County	19	Evening	30	* 1	0	0	0	4	Hail
Wyola, Big Horn Co.	25	4:00 pm	3	* 1	0	0	2	0	Hail
	Hail stones were reported to 4 inches in diameter.								
Sunburst (North end northeast) Toole Co.	28	4:30 pm	12	* 12	0	0	0	4	Hail
Jackson, Beaverhead County	14	2:45 pm	?	?	0	0	0	0	Tornado
	The funnel cloud moved from the northwest to the southeast over the Hairpin Ranch in the south portion of the Big Hole Valley. The funnel was in sight for about 30 minutes. A fence and some grass were damaged where the funnel touched the ground.								
Fairview (4 miles NE) Richland County	22	5:30 pm	?	?	0	0	3	0	Tornado
	The tornado destroyed 3 granaries in a farmyard, but did not damage other nearby farm buildings. A cottonwood tree 3/4 mile away from the buildings was twisted off 15 feet above the ground.								
Wolf Point Roosevelt County	30	Afternoon	50	?	0	0	2	4	Heavy rain and hail
	The storm covered an area from Wolf Point (Roosevelt County) to Vida (McCone County) and Richey (Dawson County). There was considerable flooding from heavy rains and some hail damage. A farmer near Vida reported heaviest runoff in the area in 46 years. Hail stones were up to 3/4 inch in diameter.								
<b>NEBRASKA</b>									
Lexington	4	2:00 a.	spot	spot	0	0	5	0	Lightning
	Implement supply firm burned.								
Near Alliance	5	3:00 p.- 5:00 p.	10	* 5	0	0	0	4	Hail
	Small grains damage up to 50%. Stones mostly 1/2 inch diameter with a few ranging up to 2-1/2 inches.								
Holdrege to Punk	5	3:15 p.- 4:15 p.	?	* 2	0	0	4	4	Hail
	Wind driven small hail damaged siding and broke windows in Holdrege.								
Extreme southeast Nebraska	5	1:10 p.	?	?	0	0	0	0	Funnel clouds
	Two funnels observed; did not touch ground.								
<b>NEBRASKA (Cont'd)</b>									
Central Custer County	7	5:30 p.- 5:45 p.	20	?	0	0	0	4	Hail
	Hail 1 inch in diameter, moved toward the east.								
Box Butte and Sheridan Counties	9	evening	?	?	0	0	0	4	Hail
	Scattered areas of hail damage to wheat, oats, beans and beans.								
Northwestern Nebraska	10	night	?	?	0	0	4	4	Hail
	Scattered areas of hail in Scottsbluff, Box Butte, Dawes and Sheridan Counties. Stones up to 1 inch diameter damaged small grains.								
Northeastern Nebraska	10	night			0	0	4	4	Hail, wind, lightning
	Scattered areas from Kays Paha County to Madison and Boone Counties. Buildings unroofed by high winds, trees and crops down. Buildings and hay stacks struck by lightning. Hail in strips 1/2 mile to 2 miles wide and up to 15 miles in length. Largest stones, 3 inches diameter, were reported near Bassett.								
Southern Kimball County	11	3:00 p.- 4:00 p.	10	* 2	0	0	0	5	Hail
	Ground covered by 3/4 inch to 1-1/2 inch hail stones. Wheat destroyed.								
Alda	11	6:00 a.	spot	spot	1	0	0	0	Lightning.
	Lightning struck woman while she was closing door to trailer house								
Eastern Kimball County	12	3:00 p.- 4:00 p.	6	* 1	0	0	0	5	Hail
	3/4 inch to 1 inch stones covered the ground to 2 inch depth.								
Near Arcadia	12	7:00 a.	?	?	0	0	3	4	Hail, damaging wind
	Several areas of hail with crop loss up to 100%. Large dairy barn blown down.								
Kimball County	13	2:00 p.- 3:00 p.	35	* 1-3	0	0	0	5	Hail
	Strips up to 3 miles wide and 8 miles long in a path from southwestern corner of county east-northeastward to near Potter. Crops complete loss in areas of heavier falls. Ground covered by 1/2 inch to 1-1/2 inch stones.								
Box Butte County	13	6:00 p.- 6:40 p.	5	* 1 1/2	0	0	0	4	Hail
	Ground 80% covered by 1/2 inch to 1-1/2 inch stones.								
Red Willow County	16	6:00 p.	10	narrow	0	0	4	4	Hail
	From Indianola to 5 miles east of Bartley. Small stones driven by high winds did severe damage to crops, roofs and windows.								
Central Nebraska	16	4:00 p.	?	?	0	0	4	4	Hail
	Several areas in Thomas and Blaine Counties including the vicinities of Seneca, Purdm, Dunning and Brewster. Stones varied from 1/2 inch up to 2-1/2 inches in various storm centers. Buildings and crops were severely damaged, cattle were battered and bruised.								
Central Nebraska	16	6:00 p.- 7:00 p.			0	0	0	0	Funnel clouds
	Funnel clouds, not touching the ground were sighted near Willow Island and north of Elm Creek.								
Near Sidney	17	7:20 p.			0	0	0	0	Funnel cloud
	Pilot reported funnel cloud twenty miles south of Sidney.								
Northwestern Nebraska	19	6:00 p.- 7:00 p.	25	* 4-6	0	0	5	5	Hail, damaging winds
	Hail accompanied by strong winds with gusts over 100 miles per hour. Area extended from northwest of Heringford to southeast of Alliance. Stones were 1/4 inch to 1/2 inch diameter at most places but some up to 1-3/4 inches fell in Alliance. Crop loss was 100% in the storm centers. Wind contributed to the damage, unroofing buildings, and leveling trees and power lines. Several buildings were demolished, including a 26' x 80' barn.								
South-central to northeastern Nebraska	19	6:00 p.- 11:30 p.	180	* 90	0	0	4	5	Hail, lightning, funnel clouds
	A series of hail storms, mostly between 6:00 p. and 8:00 p. except from 9:30 p. to 11:30 p. in east-central Nebraska, broke out in scattered areas of Phelps, Valley, Greeley, Antelope, Pierce, Polk, Platte, Dodge, Saunders and some neighboring counties. Duration of fall was generally 30 to 45 minutes. Individual hail strips were mostly narrow and 2 to 8 miles long, but ranged up to 3 miles wide and 17 miles long in Valley County								

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
NEBRASKA (Cont'd)									where the greatest damage (\$300,000 to crops) occurred. Property damage was rather light, probably due to smaller stones and the lack of sustained high winds. Hail stones were mostly 1/4 inch to 5/8 inch in diameter but some 2-1/2 inch stones fell in Phelps County. Lightning damage was greatest in Howard County where a number of buildings were struck and some cattle killed. Funnel clouds were observed at 8:46 p. and 8:58 p. in northern Hall County.
Eastern Nebraska	21	5:00 p.-11:00 p.			0	0	6	4	Hail, lightning
									A series of hail storms broke out during the evening and night across eastern Nebraska. Widely scattered areas of hail were reported from southeastern Holt County to Dakota and Otoe Counties. No time pattern was in evidence. Strong winds accompanied the hail from Douglas to Otoe Counties (nearly \$2.5 million property damage resulted in densely populated areas). Elsewhere the hail fell without much wind, thus reducing the amount of damage. Stones were generally about an inch in diameter but at many places some very large hail stones were mixed with the smaller ones. Stones 3 inches or more in diameter were reported near Columbus, Ewing, Clearwater, Carroll and Stoles with the largest being 4-1/2 inches diameter near Ewing.
Folk to Duncan	21	8:00 p.-9:00 p.	12	* 1/2	0	0	5	5	Tornado, funnel clouds
									Tornado touched down 2 or 3 times from north of Folk to Duncan; most damage at Duncan. Two additional funnels in Folk and Platte Counties.
Fremont	22	2:00 a.-3:00 a.	7	* 2	0	0	0	4	Hail
									Hailstones up to 1-1/2 inches diameter from 1 mile west (1/2 mile wide) to 6 miles east (2 miles wide).
Scottsbluff County	26	3:00 p.			0	0	0	4	Hail
									Hailstones up to 1-3/4 inches diameter were scattered through Fanning, Funston and Winter Creek townships.
York, Polk and Platte Counties	27	6:30 p.-7:00 p.	12	* 1	0	0	4	4	Hail and lightning
									Wind driven hail York to Polk. Lightning fire near Duncan.
Panhandle	31	noon to 1:30 p.			0	0	3	4	Hail, lightning, funnel clouds
									Near Crawford scattered hail shortly after noon accumulated as deep as 10 inches. Runoff from accompanying rain washed up to 8 feet of hail in some ditches. Hail also in scattered areas of Banner County. Two electrical transformers at lodgepole were struck by lightning. Funnel sighted near May Springs, Rushville and Hemingford between 1:00 p. and 1:30 p.
NEVADA									
2 1/2 miles south of Beowawe, Eureka Co.	17	2 P.M.	1/2	50-70	0	0	4	0	Tornado
									Mail carrier observed funnel from distance of about three miles. Owner of farm was on tractor at time tornado struck. Tornado removed three inches of top soil along patch. Moved in WSW-ENE direction. Demolished Cessna 170 aircraft and damaged quonset building and cabana on side of trailer house.
NEW HAMPSHIRE									
Charlestown	9	10 a.	3	Narrow	0	0	3	0	Tornado
									Tornado, which had originated in Springfield, Vt., crossed the Connecticut River into Charlestown where it cut a swath about 3 miles long, extending in a northeasterly direction. Many trees were twisted off or uprooted. About 100 homes in North Charlestown were without power for part of the day.
Newport	9	9:10 a.	1	Narrow	0	0	4	0	Tornado
									Tornado moved northeastward through the central part of the town. Telephone communication was cut off and electric power was blacked out. Trees were snapped off or uprooted and wires were broken in many sections. One house was blown off its foundation and another badly damaged. Several other houses were damaged by falling trees.
Southern sections	9	Midday			0	0	4	0	Electrical, rain
									General thunderstorm activity throughout the state was severe and damaging in southern sections. Heavy showers in these areas caused additional damage by local flooding of streets and cellars. Most of the damage resulted from downed trees and limbs taking wires along with them. In a number of cases, buildings were damaged by falling trees. Lightning flashes were unusually frequent.
Southeastern counties	13	Morning			0	0	4	3	Electrical, hail
									Statewide occurrence of thunderstorms caused appreciable damage in southeastern sections where lightning strikes and power failures were frequent. A heavy hailstorm peppered Rochester with stones described as more than an inch in diameter.
NEW JERSEY									
Statewide	21	Afternoon & evening			0	0	4	C	Hailstorms, high winds, possible tornado.
									With the passage of a cold front across the State, thunderstorms, with high winds and some hail caused some damage all the way from the New York State line to Delaware Bay. An unconfirmed tornado was reported at Broadway, in Southern Warren County. Some damage to tomato and corn crops, particularly in Salem County, was caused by hail.
NEW JERSEY (Cont'd)									
Statewide	23	Afternoon & evening			0	0	5	C	High winds, heavy rain, hail.
									Thunderstorms, torrential rains, strong gusty winds, and some hail were reported throughout the State when a cold front passed through from northwest to southeast. Long branch reported wind 58 mph from the Northwest, with gusts to 66 mph. Sand Hill, seven miles southwest of New Brunswick, reported 4.19 inches of rain, with some hail stones. High winds were also reported from Trenton, Burlington, and Cape May. Considerable flooding of storm sewers and highway underpasses occurred. Three Liberty ships broke away from their moorings in northeast Philadelphia at the height of the storm, and were driven down the Delaware River several miles, until they were beached off the New Jersey shore in Cinnaminson Township, Burlington County.
NEW MEXICO									
Las Chaves, Valencia Counties	8	2:35 p.							Funnel aloft
									Three small funnel clouds aloft about three miles southwest of ranch which is 1 mile north of Las Chaves. 2.35 inches of rain fell between 4:35 p. and 4:00 p. with some hail, at the ranch.
Chaves County	11	Afternoon					3		Tornado
									Tornado, 20 miles southwest of Roswell, tore out 30 power line poles.
Northern Eddy County	15	1:00 p.					5		Rain, hail
									Approximately 1 1/2 inches of rain with buckshot hail fell. Storm moved toward south and west forming semicircle around Artesia. Damage to sorghums, soybeans, cotton, fruit trees, and hay.
Portales, Roosevelt County	23	2:30 p.			2	0	0	0	Lightning, wind, rain, hail
									Lightning stunned two men and disrupted power. Winds to 50 mph. damaged large sign, roofs, cars and equipment, and camper units. 2.22 inches of rain fell (1 1/2 inches in 40 minutes), with light hail. Damage to sweet potatoes, cotton, and black-eyed peas. Storms occurred about 2:30 p., 4:30 p., and 9:00 p.
Hobbs, Lea County	26	10:13 a.							Funnel aloft
									Funnel cloud aloft observed 5 miles northwest of Hobbs.
Hobbs, Lea County	27	4:57 p.							Tornado
									Tornado observed 1 mile north of Hobbs, moved north.
Alamogordo, Otero County	30	Daytime							Hail
									Hail to 3/4 inch in diameter with strong winds.
NEW YORK									
Scattered areas of Eastern New York	9	Throughout the day			1		5		Heavy rain, wind, lightning
									Heavy rain with local runoff flooding in Troy and other areas. At Stamford a severe thunderstorm with high winds blew down an extensive barn under construction. Lightning killed a boy at Saratoga Lake.
Principally Northern New York	13	early morning hours					5	C	Thunderstorms, rain, wind, hail
									Severe thunderstorms with heavy rain, damaging winds, lightning strikes and hail. Widespread power and telephone failures. Extensive hail damage to crops in the Black River-Great Bend-Felts Mills area. At Peru (south of Battsburgh) a huge apple barn was destroyed by lightning-caused fire (\$20,000 damage) other strikes with less damage. Many trees downed with resulting power loss. Extensive flooding in the Capp Run area where National Guard was camped.
Scattered areas	21	Late afternoon					5	C	Severe thunderstorms, wind, hail
									Severe thunderstorms with damaging winds, crop hail damage and lightning-caused fires. Barn blown down in Chenango County. Severe hail in Richfield Springs area one mile wide and 30 miles long through crop lands. Trees downed with loss of power in many sections.
New York City - Long Island area	22	afternoon			1	2			Severe thunderstorms
									Lightning struck and killed a 13-year boy and injured 2 playmates in Beekmantown State Park, Long Island.
Scattered areas	23	afternoon			1	0	0		Severe thunderstorms, wind
									Lightning caused fires in Rochester, damaging wind occurred in Stamford; also fires caused by lightning in Watertown, Claverack and on Long Island. There was hail in Chautauque County with crop loss. Watertown boy injured by nearby lightning strike.
Niagara Frontier and St. Lawrence Valley	25-26	early a.m. and during day					5	0	Thunderstorms, wind, hail
									Severe thunderstorms with hail and damaging winds; power and communication failures. Quite severe at Ogdensburg with wind and lightning damage in the area. Most severe in the Niagara area where winds of 75 mph or more occurred and heavy large hail did severe damage over an extensive area. Crop loss was heavy due to wind blow-down and hail. Heavy flooding rain in Watertown with 3.43 inches during storms.

See reference notes at end of table.

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<b>NEW YORK (Cont'd)</b> Scattered areas	30-31	late afternoon & evening			1	3	5	C	Thunderstorms, wind, hail	
	Copake (Columbia County) boy killed by lightning and 3 others injured. Heavy hail in Grafton area (northeast of Troy). Brockport reported a lightning-caused fire. Bernal had runoff flooding due to heavy rain; also occurred at Plattsburgh. Severe storms with damaging winds, hail and lightning strikes occurred at Ogdensburg and in areas of Genesee County. Very severe hail in Dutchess County with fruit crop loss in excess of \$100,000.									
<b>NORTH CAROLINA</b>										
Person, Wayne Counties	1	4-6 pm						3	4	Hail, Wind
	Wind damaged tobacco barn, other outbuildings; hail and wind damaged crops, mainly tobacco in fields.									
Beaufort, Carteret, Craven, Duplin, Hyde, Jones, Lenoir, Martin, Onslow, Pamlico, Pitt, Sampson, Tyrrell, Washington, Wayne Counties	3-4	Night						5	7	Rain, Wind
	Rains of two to eight inches, following previous wet weather, further damaged the highly vulnerable tobacco crop just before harvest time. Sodden soils deprive the plant roots of oxygen, causing wilting and death. Losses as high as 90 percent were reported from this cause, while other areas were blown flat by high winds while the soil was softened by rain.									
Brunswick County	4	5-6 am			0	3	4	0		Wind
	Local windstorm overturned two house trailers and blew roofs off two homes in Long Beach - Southport area. Three persons in one of the trailers required hospital treatment.									
Jones, Montgomery, Moore Counties	9	afn						0	4	Hail, Wind
	Tobacco crop damaged in several areas.									
Durham, Granville, Iredell, Scotland, Stanly, Vance Counties	12	afn						4	4	Electrical, wind, hail, rain
	Widespread thunderstorms caused scattered damage in several areas. Some minor fires were set by lightning, which also struck and damaged two masonry buildings. Trees and power lines were blown down, and crops damaged by rain and hail.									
Caswell, Craven, Edgecombe, Franklin, Guilford, Halifax, Nash, Pitt, Rockingham, Wake Counties	15	afn						4	5	Electrical, Hail, wind
	Four tobacco barns burned by lightning-set fires; scattered damage to buildings, trees and power lines by wind; crops damaged by hail and wind.									
Anson, Beaufort, Bladen, Chatham, Cumberland, Edgecombe, Forayth, Franklin, Hoke, Lee, Lenoir, Lincoln, Montgomery, Moore, Richmond, Robeson, Surry, Union, Wake Counties	16	Midday & afn						5	6	Electrical, Hail, wind
	School, warehouse, and other buildings destroyed by lightning-set fires. Hail damaged crops, mainly tobacco, over several large areas. Scattered wind damage to trees, power and telephone lines, and roofs.									
Surry County	18	2:30 pm						0	5	Hail
	Tobacco and corn crop damaged over 25 sq. mi. area.									
Alamance, Cumberland, Rockingham, Wake Counties	21	2-4 pm						4	4	Wind, Hail
	Thunderstorms moving southeastward across the State caused several cases of locally damaging wind and hail. WBAS, Raleigh, recorded wind gusts to 90 miles per hour. Several house trailers turned over, one completely demolished. Roofs damaged. Tobacco crop hit by hail.									
Beaufort, Cleveland, Duplin, Gaston, Harnett, Lincoln, Macklenburg, Union, Wake, Wayne Counties	23	afn						6	6	Wind, Hail
	Violent thunderstorms scattered over a large part of the State caused varied damage. Wind blew down trees, demolished buildings, mainly in the area within fifty miles of Charlotte. WBAS, Charlotte, reported gusts to 90 miles per hour. Hail damaged crops in several counties.									
Bladen, Columbus Counties	24	Night						0	4	Hail
	Scattered damage to tobacco crop in several areas.									
Cumberland County	25	5-6 pm						4	0	Electrical
	Two buildings burned by lightning-set fires.									
Martin, Onslow, Wilson Counties	31	2-4 pm						4	0	Electrical
	Several tobacco barns and harvested crop destroyed by lightning-set fires.									
<b>NORTH DAKOTA</b>										
Stark county	2	6-8 P.M.	70	*1-5	0	0	3	5		Hail, Wind, Lightning
	An intermittent band of hail from north of Belfield to south of Hebron with varying amounts of loss. Dickinson reported 85 mph wind. Hail size of "beer cans" reported 10 miles west of Dickinson.									
Slope, Hettinger counties	2	eve	30	*1-5	0	0	2	4		Hailstorm
<b>NORTH DAKOTA (Cont'd)</b>										
Marcer county	3	8:30 P.M.	7	*2	0	0	1	4		Hailstorm
Bottineau area	5	afternoon	6	*2	0	0	4	4		Hail and wind
	Most property damage in Bottineau. Crop losses mostly west of town.									
Rolette county	5	afternoon	5	1000	0	0	1	4		Hailstorm
	Crop losses mostly west and south of Belcourt.									
Linton area	5	11 P.M.			0	0	4	3		Heavy rain, hail
	Torrential rains caused severe flooding of basements and damage to buildings in Linton. Red Cross reported 3 homes with major damage, 8 with minor damage, and 2 other buildings with minor damage. Some hail caused little crop damage.									
Barnes, LaMoire and Ransom counties.	5	night			0	0	4	4		Heavy rain, wind and lightning
	Heavy rains flooded numerous basements, washed out a bridge in Kathryn, and further damaged already water logged crops. Several barns blown down, others damaged. Cow killed by lightning. Some hail in Ransom county.									
Southern Wells County	6	early A.M.	10	*1-3	0	0	2	4		Hailstorm
Hettinger, Grant county	6	11 P.M.	60	*5-15	0	0	4	5		Hail and wind
	Hail as large as golf balls. Intermittent path from west of Regent south of Hott into central Grant county south of New Leipzig, Leith and Brisbane.									
Eastern McKenzie county near Mandaree	5	late afn	?	?	0	0	3	4		Hail and wind
	Hail as large as golf balls.									
Ashley area	6	6:30 P.M.	?	?	0	0	4	4		Tornado and hail
	At least 2 tornadoes and 2 funnel clouds were observed within a few miles about 15 to 20 miles ESE of Ashley. One, apparently the largest, was watched for better than an hour. It described a loop in Mr. Raymond Kappes pasture taking about 45 minutes to complete. It struck a herd of cattle killing 68 out of a total of 76. A half mile of fence was torn up. Some wire wrapped around a couple animals as shown in pictures. 48 animals were dumped into a lake. Some water sucked out of the lake lowering its level. As Mr. Kappes and his family drove away from it his young son looked back and remarked that the tornado "has big rocks whirling around in it". It moved in from the northwest then described a slow loop and departed towards the southwest. Some hail size of baseballs reported in some areas. Some newspaper accounts placed the farm in S. Dak. but it is believed the most reliable location is in southeast corner of McIntosh county.									
Pembina county	9	afternoon	50	*1-5	0	0	4	5		Hail, funnel clouds
	Intermittent hail up to golf ball size from near Walhalla to north of Drayton then into Minnesota. Considerable property damage in Cavalier. Heaviest hail southeast of Cavalier. Funnel clouds seen north of Drayton.									
Grand Forks county	9	night	several	*3	0	0	5	5		Hail and wind
	Damage generally south of Thompson. Several barns and out buildings blown down or damaged, trees uprooted, a mile and a half of NEA poles bent over a highway.									
Towner, Ramsey, Nelson Grand Forks counties	9	night	120	*1-6	0	0	4	5		Hail and wind
	Storm path generally southeastward across southern part of Towner county through central Ramsey county, northern Nelson county and into Grand Forks county. Intermittent damage. Hail larger than Golf ball size.									
Southeastern Burleigh county	15	5:20 P.M.			0	0	0	0		Funnel clouds
	Sighted south and east of Sterling. Also viewed by Weather Bureau personnel at Bismarck.									
Southwest of Grand Forks	15	5:20 PM			0	0	0	0		Funnel clouds
	4 funnels sighted by pilot 15 miles southwest of Grand Forks.									
Eastern McLean county	15	9:20 PM			0	0	0	0		Funnel clouds
	Pilot observed 3 funnel clouds 5 miles west southwest of Turtle Lake.									
Medina	18	late afn	?	?	0	0	3			Small tornado
	A garage and chicken coop with 125 chickens was destroyed and some trees uprooted in Medina.									
LaMoire	18	7:20 PM	?	?	0	0	2	0		small tornado
	Residents watching this tornado got into cars and drove away from it.									
Grand Forks	18	6 P.M.			0	0	1	2		Funnel cloud, hail
	Funnel cloud reported 7 miles northwest of Grand Forks. Some hail up to 1 1/2 inch diameter in Grand Forks.									
Lisbon area	18	8 P.M.			0	0	0	0		Funnel cloud
	Sighted by state police just northwest of Lisbon.									

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<b>OHIO</b>									
Putnam County	18	Afternoon	5	*3	0	0	3	5	Hailstorm
	Heavy hail occurred in connection with a violent thunderstorm in central Putnam County. Most seriously hit was a wide swath between Kalida and Ottawa where corn, soybeans, tomatoes, and other crops were stripped of leaves. Less severe damage also occurred between Ottoville and Cloverdale in western part of the county. Some hailstones up to 1 inch in diameter were seen.								
Cleveland	20	10 PM			0	1	4	0	Thunderstorm
	A heavy squall-line thunderstorm crossed the greater Cleveland area causing damage to trees, utility lines, and some roofs on the near west-side. Hardest hit were a 2-story garage and warehouse at 3482 Ridge Road which was almost demolished. Also a cement block wall of the nearby Petrus Machinery Company building was blown down. There were unconfirmed reports of tornadic action, and a few damage reports suggest that this might be true. Heavy thunderstorms were also reported from Toledo, Lorain, Lima, and Van Wert during passage of the same squall line.								
New Carlisle	20	11:50 AM	Short	Narrow	0	0	3	0	Tornado
	A small-scale tornado struck in New Carlisle causing roof damage to one home. Minor damage to several other homes was reported. An eye-witness definitely reported seeing the funnel cloud dip from a black cloud mass.								
Akron	21	1 PM					?	?	Large Hail
	Large-size hailstones, measuring up to 1 1/2" diameter were reported from the vicinity of the Goodyear factory in Akron. No damage reports have been received.								
Medina	22	7 PM							Funnel Aloft
	A characteristic hook image was observed on radar scope at Cleveland indicating a funnel about 4 miles northwest of Medina. Since no reports of damage have been received, it is assumed that this was a funnel aloft.								
<b>OKLAHOMA</b>									
Tulsa, Tulsa County	8	1:45 p.- 3:45 p.			0	0	4	0	Electrical
	Thunderstorm across city produced extensive lightning damage to roofs of homes on northeast side, and downed lines. Several distribution transformers were knocked out and one sub-station exploded causing \$10,000 damage. Extensive electrical outages restored by evening.								
Hennessey, Kingfisher County	9	3:55 p.- 4:40 p.	Short	Narrow	0	0	4	0	Tornado and wind
	Small tornado dipped down to ground one-half mile south of town and demolished one trailer home. The tornado moved northeast, rained for a short distance and struck down again momentarily and destroyed a metal truck line barn. High winds accompanied 1.13 inches of rain during storm with light wires and tree limbs broken, while two other new trailer houses on a sales lot were blown together and damaged. Damage by tornado 75% of total, and wind 25%.								
Hydro Area, Elaine-Caddo Counties	9	9:00 p.- 9:45 p.			0	0	?	?	Rain and wind
	Unofficial three and a half to four inch rain centered over Hydro caused some local flooding and washed out several culverts. High winds downed large limbs, uprooted several trees and knocked out numerous utility lines.								
Northeast Quarter of State	10	early morning			0	0	?	?	Rain
	Scattered thunderstorms across area produced heavy downpours of three to five and a half inches. Over three inches fell at Burbank and Oilton, with four inches at Bristow within a few hours causing local flooding and closure of two highways. Up to 5.50 inches fell in the Jay area from 6:00 a. to 7:45 a. closing several roads when culverts were washed out. Several homes and stores reported up to eight inches of water over floors.								
Tulsa Area, Tulsa County	11	4:10 p.			0	0	0	0	Funnel aloft
	Small funnel aloft observed five miles east of Tulsa Municipal Airport. Funnel suspended for several minutes from cloud base at four to five thousand feet before it pulled back into cloud.								
Sentinel Area, Kiowa-Washita Counties	11	4:30 p.- 5:30 p.	2 1/2	*2 1/2	0	0	3	4	Funnel aloft, hail wind, and rain
	Severe storm hit five miles southwest of Sentinel moving northeast. Heavy rains with unofficial amounts of two and a half to four inches over area were accompanied by 1/2 to 3/4 inch hail covering ground in places destroyed 105 acres of cotton and 60 acres of feed crop on five farms. High, straight winds estimated at over 75 miles per hour uprooted one barn and destroyed two windmills. One funnel aloft was observed by two different persons at 5:00 p. during height of storm. One family watched as their car was lifted several inches off the driveway momentarily, but no funnel was observed on ground; just a roaring sound was heard. Hail damage to crops only with wind damage to property.								
<b>OKLAHOMA (Cont'd)</b>									
East-Central Jackson County	14	5:15 p.- 6:00 p.			0	0	3	?	Tornado and hail
	Heavy hail up to 3/4 inch size destroyed an undetermined amount of cotton in area from Altus Airport east to Headrick through Porter, High, and Humphreys. A small tornado descended at Headrick about 5:30 p., demolished two garages, and disrupted phone and electric service. One garage was lifted from over car and dropped upside down without touching car. Hail at Headrick flattened gardens, followed by unofficial 1.30 inch rain in 30 minutes.								
Skedes, Pawnee County	15	4:57 a.			0	0	4	0	Electrical
	A five-room home and contents were destroyed by fire following a lightning strike.								
Sulphur, Murray County	15	3:45 p.- 6:00 p.	3	*2	0	0	3	0	Rain, hail, and wind
	A locally heavy thunderstorm dumped 3.48 inches of rain and was accompanied by strong gusty wind which blew a car off the highway near city. Hail stones larger than 3/4 inch size pounded chrome from a car and left it badly dented.								
Lamont 3N, Grant County	15	3:56 p.- 4:40 p.			0	0	0	0	Funnel aloft
	Funnel aloft appeared low in sky three miles north of city and was followed by City Marshall for about 45 minutes as it moved three miles west toward Medford and Jefferson. Funnel never touched ground, but came close enough to draw up considerable dirt and was mistakenly reported by a pilot to have been on the ground at 3:56 p.								
North of Sayre,	15	9:05 p.	?	?	0	0	0	0	Hail
	Hail up to 3/4 inch size reported to Oklahoma City Weather Bureau Airport Station. No damage reported.								
Love County	16	4:00 a.			0	0	0	0	Funnel aloft
	Pilot reported funnel aloft 45 miles southwest of Ardmore Municipal Airport in extreme southwest part of Love County. No damage reported.								
Oklahoma City, Oklahoma County	18	3:58 p.- 4:01 p.	Short	Narrow	0	0	0	0	Tornado
	Tower operators at Will Rogers Municipal Airport watched a small tornado on open ground 2.2 miles to the north-northeast in the southwest part of the city. Considerable dust was picked up in its very slim funnel before it raised back into the 3,000 feet cloud base. No damage reported.								
Duke Area, Jackson County	20	4:00 p.- 5:00 p.	4	*3	0	0	0	0	Tornado, funnel aloft, wind, and rain
	A small tornado touched ground just south of Duke destroying a barn. A second funnel was observed aloft during storm which locally provided an unofficial 3.50 inches of rain during the 80 minute period. High winds destroyed two barns, two chicken houses, several outbuildings, and broke a picture window on adjoining farms, while numerous trees in Duke were split and lost limbs. Damage from tornado 35% of total with 65% from wind.								
Pontotoc-Murray Counties	20	4:45 p.- 6:45 p.	1	100	0	0	4	0	Tornado, wind, and rain
	A small tornado dropped to the ground for a minute in the Homer community four miles east of Ada demolishing a new electric service shop building. Tornado moved southwest damaging roof of shop owners' home next door and uprooting a tree in yard before lifting back into clouds. High, straight winds in Homer area uprooted several trees, uprooted one hay barn, broke windows in two buildings, destroyed one out-building, and downed two power poles causing a four hour outage. Damaging straight winds resulted as squall line moved southwest across Pontotoc County into the Hickory area of northeastern Murray County. Hickory hard hit as nearly every place suffered some damage; four barns and one chicken house were destroyed. Heavy unofficial rain of 4.75 inches reported falling in about 30 minutes. Damage from tornado 30% of total, with 70% from wind.								
Wilburton, Latimer County	24	5:00 a.			0	0	4	0	Electrical
	Lightning struck and completely burned a home and its contents to the ground.								
Stigler 2N, Haskell County	24	morning			0	0	4	0	Electrical
	Lightning set fire which destroyed a building housing a service station, tavern, and restaurant.								
Vici, Dewey County	24	5:00 p.			0	0	0	0	Funnel aloft
	Several residents witnessed a funnel aloft just east of city. No damage reported.								

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1962

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>									
Checotah Area, McIntosh County	25	6:45 p.			0	0	0	0	Funnel aloft
	Funnel aloft reported by Tulsa Weather Bureau Airport Station as sighted 20 miles south-southeast of Muskogee. No other details available.								
Duncan, Stephens County	28	12:20 p.- 12:40 p.	1	50	0	1	5	0	Tornado, electrical, rain, and wind
	Tornado first touched down on US 81 on south side of city lifting a car up and setting it down on the other side of the highway. The funnel bounced on to the east next destroying a 16-lane bowling alley when the north wall blew out and collapsed the roof. Twenty-five other homes and buildings along the spotty path received some damage including one unoccupied house that was picked up from its foundation and smashed into the street. A wind gauge in the north part of the city registered its maximum reading of 75 miles per hour during storm. A motel's "derriek" television antenna was twisted around a small house and a semi-truck and trailer was overturned. Many windows were blown out on south side of city and downed trees caused extensive power and telephone outages. One lady was injured when blown down and out by flying glass. Accompanying lightning struck many homes across city causing seven house fires. Additional water damage by one and a half to two inch rains. Damage from tornado 80% of \$290,000 total; electrical 4%, rain 8%, and wind 8%.								
Northern Bryan County	29	morning	20	*10	0	0	?	?	Rain
	Heavy rainstorm swept area with largest amount at Caddo where an unofficial 4.81 inch rain fell in about one and a half hours causing local flooding of streets and some minor damage. Considerable crop and road damage across the area.								
Muldrow, Sequoyah County	31	afternoon			0	0	4	0	Electrical
	Lightning destroyed a home and all its contents by fire.								
Cinarron and Texas Counties	31	4:30 p.- 7:30 p.	55	*20	0	0	?	?	Rain
	Heavy showers first hit Boise City from the west dumping 3.40 inches of rain from 4:30 p. to 6:30 p. and worked on eastward, causing closure of U. S. 64 between Boise City and the Texas County line. While Guyton only received 1.46 inches of rain, more than one inch of the total came pouring down in the first 10 minutes of the period from 7:00 p. to 7:30 p. Numerous basements were flooded and newly sodded lawns washed out. Streets throughout Guyton flooded as storm sewers failed to handle the sudden runoff. Water reached over high downtown curbs to leave highwater marks along the bases of Main Street business offices.								
OREGON	No report received by printing deadline.								
<b>PENNSYLVANIA</b>									
Butler and York counties	21	Night					4		Thunderstorm
	Lightning fired several barns in the respective areas.								
Southern counties	23	3-11 P.M.					5	6	Thunderstorms
	Thunderstorms, accompanied by hail from Westmoreland through Lancaster counties and high winds remaining southern counties, moved eastward Monday afternoon and evening. Parts of Westmoreland, Franklin, Adams, and Lancaster Counties were pelted by hail up to 2 inches in diameter, which accumulated to a depth of as much as 4 inches in a few places. Property damage to automobiles, houses, greenhouses, and crops exceeded \$100,000. In Westmoreland County. Loss of fruit and vegetables in the Franklin-Adams County area due to hail, has been estimated in excess of one million dollars as some orchards not only had fruit injury but many apples, peaches and cherries were stripped from the trees. Some tobacco and corn in Lancaster County was completely ruined by the hail. Wind in excess of 60 miles per hour in southeastern counties unroofed several homes and downed many trees and utility lines.								
Eastern Erie County	23						3	5	Thunderstorm
	One to two-inch hail accompanying storm resulted in \$100,000. damage to crops, mainly fruit and tomatoes. A greenhouse also suffered extensive glass breakage.								
<b>FUERTO RICO</b>									
	None reported								
<b>RHODE ISLAND</b>									
Statewide	9	2:00 p.- 4:00 p. (EDT)			0	0	4	0	Thunderstorms
	Unusually heavy thunderstorm rain of up to 2 1/2 inches within a short period caused flash floodings and many washouts especially in Woonsocket and Westerly.								
<b>SOUTH CAROLINA</b>									
Columbia, 15 miles SSE	11	6:42 p.			0	0	0	0	Funnel cloud
	Funnel cloud observed by pilot.								
Winnsboro (near) Fairfield County	12	Afternoon			1	2	0	0	Electrical
Charleston, 20 miles SSE (Offshore)	20	7:05 a.			0	0	0	0	Waterspout
<b>SOUTH CAROLINA (cont'd)</b>									
Portions of Orangeburg, Clarendon and Williamsburg Counties	24	4:00 - 5:00 p.			0	0	3	4	Wind and hail
	A squall line of some severity moving from NW to SE was accompanied by hail of over 3/4" in diameter several places, as well as by at least 2 small tornadoes (see below).								
Vance, 2 miles W. Orangeburg County	24	4:00 - 4:30 p.	1	100	0	0	3	0	Tornado
	Funnel seen by one individual. Characteristic noise heard by several.								
Manning, 10 miles E Clarendon County	24	4:00 - 4:30	1	100	0	0	3	0	Tornado
	Funnel appeared misty, dipped down and disappeared. Hit trees, tree tops were broken and whirled in air.								
Northeastern Darlington County	24	7:00 - 9:00 p.	20	1600	0	0	5	5	Wind and hail
	Severe crop as well as property damage occurred in the communities of Dovesville, Society Hill, Antioch, Kellytown and Levensworth. While most hail was less than 3/4" in diameter, some was observed at Dovesville as large as "golf balls". Very heavy damage resulted to tobacco.								
Shaw Air Field, Sumter County	25	Early afternoon	1/2	very narrow	0	0	0	0	Tornado
	Funnel observed for about 5 minutes moving in a northeasterly direction.								
<b>SOUTH DAKOTA</b>									
Parkston	1	6:00- 7:30 a.			0	?	?	?	Flash flood
	Five inches of rain in less than 90 minutes caused Pony Creek, which weaves through the town, to rise about 2 feet above banks.								
West of Delmont	1	p.m.							Funnel Aloft
Near Aberdeen	1	4:42 p.							Funnel Aloft
Camp Crook	2	7:30- 8:30 p.	18	*2	0	0	4	4	Hail
	Hail covered 3/4 of ground with average size 1 inch and largest 2 1/2 inches.								
6 miles north of Hartford	4	about 2:30 a.	?	?	0	0	3	?	Tornado
	Barr demolished. Several smaller buildings and numerous trees damaged.								
Near Milesville	5	8-9:00 a.	15	*3-6	0	0	4	5	Hail
	Hail entirely covered ground with greatest depth 3 inches. Average diameter of stones 1 1/2 inches with largest 3 inches. Size of area about 60 sq. miles.								
25 NW Leola	6	about 6-6:30 p.	1/2- 1	*1/2	0	0	4	1	Tornado
	Tornado funnel aloft most of time but touched down briefly in pasture and killed 68 head of cattle. Moved from NW to SE.								
Near Volga	6	late p.m.	?	?	0	?	?	4	Hail
	About 12 square miles with 20 to 30% crop loss								
Near Ellingson	6-7	11:00 p.- 1:00 a.	20	*1	0	0	?	?	Hail
	Hail size averaged 1 inch with largest 1 1/2 inches.								
4 NNW Iroquis	7	4:15 - 4:30 p.		10-20	0	0	3	0	Tornado
	Long rope like funnel cloud observed by author from distance of about 8 miles to NW. It moved from NW to SE and touched ground briefly 3 times. One farm lost barn roof, at another farm hog shed and garage destroyed along with few trees uprooted. Antique car in garage not damaged.								
Just West of Vienna	7	4:20 - 4:35 p.	3	100- 150	0	0	4	3	Tornado
	Tornado moved from NW to SE destroying buildings on two farms and some crops.								
Near Yankton	7	6:53 p.							Funnel aloft
12W Ellingson	9	4:00 p.	?	?	0	0	?	?	Tornado
	Tornado moved from NE to SW and touched down in unpopulated area.								
Near Carter	10	5:00 p.	11	*6	0	0	?	?	Hail
50R Huron	10	5:45 p.							Funnel Aloft
Near Tulare	11	10:00 a.	?	?	0	0	?	?	Hail
	Hail caused extensive damage over a relatively small area.								
Rapid City	13	Night	?	?	0	1	5	?	Flash flood
	An estimated 1500 people were driven from their homes. Greatest damage occurred at a mobile home corporation where loss was estimated a \$150,000.								
Wanblee	15	4:00 - 5:00 a.	12	*3-4	0	0		5	Hail
	Hail completely covered ground with greatest depth 4 inches. Average size of stones 1/2 inch with largest 2 inches. Hail extended from Wanblee to about 12 miles east.								
10 SW Garrison	15	12:20 p.							Funnel Aloft

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1962

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					KILLED	INURED	PROPERTY	CROPS		
<b>SOUTH DAKOTA (Cont'd)</b>										
Buffalo-Ladner-Bullock Area	16	p.m.	?	?	0	0	?	?	Hail, locally heavy rain	
Hermosa-Rapid City Area	16	p.m.	?	?	0	0	?	?	Hail	
Rapid City	16	7:05 p.							Funnel Aloft	
Aberdeen and vicinity	19	2:30 - 3:00 a.	?	?	2	?	?	?	Wind, rain	
Buffalo	19	3:30 p.							Funnel Aloft	
Wanblee-Norris area	19	7:15 p.	about 25	*5	0	?	?	?	Hail	
Alcester area	19	Evening	4-5	*1 1/2	0	?	?	?	Hail, rain	
Near Tyndall	29	3:30 - 3:45 p.	3	*1 1/3	0	?	3	4	Hail, rain, wind	
55 NE Huron	31	5:15 p.							2 funnel clouds	
<b>TENNESSEE</b>										
Chattanooga, Hamilton County	2	Afternoon							1 Lightning	
East Tennessee	3-4	Night					5	°C	Rain, lightning and wind	
Memphis, Shelby County	6	6:30-8:30 p.			1		4		Lightning and rain	
East Tennessee	8	Night			1	4	6	°C	Wind, rain, hail and lightning	
Hacon County	23	3:15 p.				3	5		Hail and wind	
McHinn and Meigs County	23	Afternoon					4		Wind and lightning	
Cleveland, Bradley County	25	11:00 a.					2		Lightning	
<b>TEXAS</b>										
Near Orange Grove Jim Wells County	1		?	?	0	0	?	?	Tornado	
Shamrock Wheeler County	5	5:55 p.							Funnel aloft	
Near Springlake Lamb County	10	2:40 p.				1	1	0	0	Lightning
9 W Big Spring Howard County	10	night	?	?	0	0	?	?	0	Tornado
Near Crans Crane County	10	night	?	?	0	0	?	?	0	Tornado
Borger Hutchinson County	11	afternoon	?	?	0	0	5	0	0	Wind
Tahoka Lynn County	11	Night	?	?	0	0	?	?	?	Tornado, wind, hail
Wilson Lynn County	11	night	?	?	0	0	?	?	?	Tornado, rain, hail
Loraine Mitchell County	14	3:15 p-3:20 p	1/2	100	0	0	4	3	0	Wind, funnel aloft
Haskell Haskell County	14	4:00 p-4:30 p	5	*3 1/2	0	0	3	4	0	Wind, hail
Winters Rannels County	14	6:00 p	?	?	0	0	?	?	0	Wind
Abilene Taylor County	14	afternoon and evening	?	?	0	5	?	?	?	Tornado, wind
1 S White Flat Motley County	15	1:51 p	?	?	0	0	?	?	0	Wind
10 NE San Angelo Tom Green County	15	5:15 p	?	?	0	0	4	?	?	Wind
14 S Pampa Gray County	15	8:30 p-9:00 p	?	?	1	1	3	0	0	Winds
Spearman Hansford County	16	morning			0	1	?	?	0	Lightning
Ralls area Crosby County	17	afternoon	?	?	0	0	?	?	?	Hail
Rockley County	17	6:30 p-7:00 p	4	*3/4	0	0	0	5	0	Hail
Quail Collingsworth County	20	3:15 p			1	0	0	0	0	Lightning

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1962

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (Cont'd)									
Childress Childress County	20	4:30 p			0	2	?	0	Lightning
Lightning struck pickup truck near Childress. Two occupants suffered minor injuries.									
Turkey Hall County	22	4:30 p	?	?	0	1	?	?	Lightning
Lightning struck a home in Turkey, injuring a housewife. Cotton suffered minor damage from hail north of Turkey.									
Dumas Moore County	23	afternoon			0	1	0	0	Lightning
Lightning struck a tractor near Dumas, injuring the nearby operator.									
Lubbock Lubbock County	23	9:27 p			0	1	?	0	Lightning
Lightning struck the Lubbock power plant twice, causing an estimated \$50,000 damage. One person suffered minor injuries when lightning struck nearby. Trees in the city were badly battered by 70 mph winds and pea-size hail.									
Springlake Lamb County	24	2:30 a			0	0	?	0	Lightning
Lightning struck and burned a home, pickup truck and tractor, 2 miles southeast of Springlake.									
10 NE Lockney Floyd County	24	12:40 p	?	?	0	0	?	?	Tornado
Department of Public Safety reported a tornado on ground 10 miles northeast of Lockney at 12:40 CST, moving northeast.									
3 E Muleshoe Bailey County	24	afternoon							Funnel cloud
2 S Midland Midland County	24	10:10 p	?	?	0	0	?	0	Tornado
Tornado touched ground briefly 2 1/2 miles southwest of Midland. A feed grinder was destroyed and a rodeo arena damaged.									
15 SW Plainview Hale County	25	12:50 p	1 1/2	*1	0	0	0	?	Funnel aloft, hail
A funnel aloft accompanied by hail was observed 15 miles southwest of Plainview. Hail damage to cotton in this area was 25 to 50 percent.									
SE Brownfield Terry County	25	3:28 p	?	?	0	0	?	?	Tornado
Bank at Brownfield reported tornado southeast of Brownfield.									
Childress Childress County	25	afternoon			0	0	5	0	Lightning
Lightning set afire a supermarket in Childress, causing damages in excess of \$50,000.									
Dallas, Tarrant and Kaufman Counties	25-26	evening	?	?	0	0	5	0	Heavy rain, lightning
Severe thunderstorms with heavy rain and lightning occurred in the Dallas area on the evening of the 25th and morning of the 26th. Lightning touched off scattered fires across the city. Heavy rains caused street flooding and numerous minor traffic accidents.									
Wichita Falls Wichita County	26	morning			0	1	?	?	Heavy rain
Heavy rains of 5 inches in some sections of Wichita Falls, caused street flooding and traffic accidents. One person was injured when washed under a railroad bridge.									
Patricia Community Dawson County	26	10:00 a							Funnel aloft
Funnel aloft sighted in the Midway area.									
Lake Sabine Jefferson County	26	11:00 a							Waterspout
Near Welch Dawson County	26	afternoon	?	?	0	0	0	0	Tornado
Tornado in open country, 10 miles northwest of Welch, caused no reported damages.									
15 ENE Haskell Haskell County	26	5:00 p- 5:20 p							2 Funnels aloft
Weatherford Parker County	26	evening	?	?	0	0	?	0	Tornado
Tornado destroyed a dairy barn and uprooted trees on a farm 3 miles south of Weatherford.									
Mineral Wells Palo Pinto County	27	morning			0	0	?	?	Heavy rain
Heavy rains resulted in flash flooding of Mineral Wells. City streets were damaged in the amount of \$30,000 and rural roads were reported in the worst shape in 40 or 50 years.									
N Wheeler Wheeler County	28	10:48 a							Funnel aloft
Olton area Lamb County	28	4:30 p- 5:15 p	9	*2-3	0	0	0	5	Hail, rain
Thunderstorms with wind, rain and golfball size hail completely destroyed 2500 acres of cotton in the vicinity of Olton. Other crops suffered heavy damage.									
Cottle County	28	afternoon	?	?	0	0	0	?	Hail
Hail damaged or destroyed approximately 1000 acres of cotton in Cottle County.									
Pleasant Valley Garza County	28	6:00 p	?	?	0	0	0	5	Hail
Hail caused cotton damages of 80 percent to total loss on 1200 acres in the Pleasant Valley area.									
Borger Hutchinson County	28	afternoon & evening	?	?	0	0	?	0	Heavy rain, wind
Thunderstorms with heavy rain and high winds severely damaged homes, streets and roads in the Borger area. Flash flooding swept an automobile off the road, and flooded basements in the business section.									
TEXAS (Cont'd)									
Slaton area Lubbock County	28	evening	0	0	0	0	0	?	Hail
Hail caused heavy damage to 400 acres of cotton, 12 miles south of Slaton.									
5 N Wheeler Wheeler County	29	10:48 a							Funnel aloft
UTAH Grouse Creek Valley, Box Elder County	9	2:30 P.M.							Tornado
Location about 15 miles south of town of Grouse Creek. A long, black funnel traveled slowly across Grouse Creek Valley from southwest to northeast. Funnel remained in contact with ground for about 15 minutes and extended up to about 2000 feet. Observer reports it really tore up ground under it, but it did not travel across an inhabited area.									
Maeser Area, Uintah County	12	4:30 P.M.			0	0	2	3	Hailstorm
Hail one inch in diameter did damage to crops, trees and shrubs. Melting produced local flooding damaging a few basements and canals.									
Salt Lake City, Salt Lake County	13	2 A.M. and 12 P.M.			0	2	4	3	Thunderstorms
Early morning, intense thunderstorm did considerable damage to local power distribution system and slight damage to several homes. Very heavy shower in vicinity of airport, moving from southwest to northeast broke all-time precipitation intensity records for city for periods up to two hours. Produced some flooding, but damage was not extensive.									
VERMONT									
Southeastern Windsor County	9	9 a. to 10 a.			0	0	4	0	Tornadoes
At least 2 tornadoes were spawned by the same eastward moving cell in this part of the state. The first one touched down at a number of wooded areas along its 16 mile course from Chester to Wethersfield. Storm moved from the southwest to the northeast with average forward speed of about 25 mph. Time of first touch down was around 9 A.M. The second tornado made contact with the surface at Springfield shortly after 9 A.M. Its path was also northeastward and about 5 miles long to the Connecticut River where it crossed and continued into New Hampshire for an additional 3 miles. This tornado made frequent contact with the surface in its path and caused extensive damage to buildings in Springfield, Goulds Mills, and in several other villages. Trees were twisted off or uprooted and several communities lost power and phone services.									
Central sections	9	Morning			0	2	3	0	Electrical, rain
Widespread severe thunderstorms and heavy local showers caused damage in several areas. A woman was injured by lightning and a farmer was burned by a bolt that struck and killed a bull standing nearby. Lightning also struck a number of buildings and several washouts were reported in road construction jobs.									
Addison County	9	12:30 p.			0	0	0	0	Funnel cloud
Observed by a pilot about 6 miles northeast of Vergennes. Height of funnel cloud estimated at 1,000 feet or more above the ground.									
Northern portion	12-13	Night			0	0	5	3	Electrical, rain, hail
Major damage resulted from lightning-started fires. A total of seven barns were demolished by fire and a number of cows and other livestock were lost. Many other buildings were struck and damaged. A "freak" rain and hail storm pelted the Groton State Forest area. Up to 6 inches of rain reportedly fell in about an hour and hailstones raked the area for about 15 minutes. Streams and brooks in the area spilled over and roads and cellars became flooded. Hail occurred in many other places with stones "about the size of hazel-nuts."									
Chittenden, Washington and Lamoille Counties	31				0	0	4	0	Rain
Occasional heavy rains during the day flooded streets and cellars and washed out back roads and 3 bridges. The storm damaged more than a mile of road in Stowe. A road in Moscow was impassable under 3 feet of water. Several small streams overflowed their banks. One man suffered a heart attack and died when his vehicle stalled in a flash flood.									
U.S. VIRGIN ISLANDS									
None reported									
VIRGINIA									
Stafford County, north of Fredericksburg	18	2-4 p.m.			0	0	?	4	Lightning
Lightning struck a barn and destroyed 3000 to 4000 bales of clover hay. Lightning also did minor damage to a home in that area.									
Stanardsville, Greens County	21	9 p.m.			0	0	4	?	Lightning
Lightning struck and destroyed a two-story frame house and all contents. Other reports during that evening of some hail and wind damage in the mountain regions of Western Virginia.									
Lebanon, Russell County	24	Morning			0	0	4	?	Lightning
Home extensively damaged by lightning; five other homes reported minor damage.									

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1962

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>VIRGINIA (Cont'd)</b>									
Culpeper County, near Rapidan	24	Afternoon & evening			0	0	4	?	Thunderstorms
Golf ball sized hail and high winds with 150 trees downed reported at Rapidan in Culpeper County at 9 P.M. Minor damage from high winds, hail and lightning in the adjacent counties.									
<b>WASHINGTON</b>									
Spokane County	6	Afternoon			0	0	0	4	Hail
Small grains and other crops in the Liberty Lake area east of Spokane were damaged by hail.									
Spokane County	26	1522 PST							Funnel cloud
Funnel cloud observed approximately 2 miles west of the Airport at Spokane. The funnel extended below the cloud for about 3 minutes but did not reach the ground.									
Douglas County	27	Evening					4	4	Thunderstorm
Heavy precipitation and hail associated with thunderstorm activity resulted in severe erosion and some damage to crops in an area covering several square miles in northwestern Douglas County.									
<b>WEST VIRGINIA</b>									
Huntington, Cabell County	5	5 p.			0	0	4		Thundershower
Principal damage was the destruction of ten small bridges.									
Huntington vicinity, 15 miles SE, Cabell County	14	10:30 p.			0	0	4	C	Thunderstorm
Wind damaged trees with one falling onto an auto, farm buildings and local flooding									
Dunlow, Wayne County	22	Evening					?	?	Wind and hail
Limbs blown off trees and one inch diameter hail.									
Parsons, Tucker County	28	Evening					?	?	Hail
Hail damaged crops and broke tree limbs.									
Huntington, Cabell County southwestward across the State	28	3:00 p.	50	1 to 4 miles	0	0	4	5	Thunderstorm with wind and hail
The storm path began in Ohio ending 50 miles SE of Huntington. Hail in Huntington covered the ground with larger pieces mostly disk shaped 1/2 to 2 1/2 inches and one 5 inches in diameter and from 1 to less than 2 inches thick. Damage to windows, autos and aluminum siding. Numerous thunderstorms moved southwestward with 2 1/2 inch hail at Madison, Boone County; the largest hail remembered at Logan; wind damage to crops and antennas at Bluefield, Mercer County. At Beckley, Raleigh County wind and hail to 5 inches in diameter and hail in Lincoln County did damage reported as follows:									
Beekley, Raleigh County							5	C	
Lincoln County		Tobacco crop damage					?	5	
Canaan Valley, Tucker County	23						?	?	Hail 1 inch in diameter
Severe damage to crops									
Southwestern portion	30	5 to 4 p.		1	0	4			Thunderstorm
One fatality in Williamson from lightning. Heavy rains with an unofficial five inches at Pocataloo, Kanawha County washed out two small bridges.									
<b>WISCONSIN</b>									
Colfax 3 1/2 S	6	Late afternoon		1					Lightning
Oshkosh 30 SW	11	2:58 p.m.							Funnel
Kenosha	11	3:00 p.m.				3	4		Hail
1" hail in Kenosha vicinity. Storm lasted 15 minutes.									
Vernon County	11	Afternoon					4		Hail, wind, rain
Greatest damage along a line from Soldiers Grove through Liberty Pole to Bristol.									
Eau Claire 6 S	17	about 3:45 p.m.							Funnel
Eau Claire 10 SW	17	about 3:45 p.m.							Funnel
Eau Claire 20 NW	17	about 3:45 p.m.							Funnel
Rural Commonwealth	20	Evening		1					Lightning
Mercer	20	Afternoon				2			Lightning
Marquette County	20	6:30 p.m.					4		Hail, wind, rain
Greatest damage about 2 miles north of Montello. Storm moved from northwest to southeast.									
Marquette County	22	11:00 p.m.					4		Hail, wind, rain
Greatest damage in vicinities of Lawrence and Harrisville.									
West Allis	22	12:48 p.m.		25		4			Tornado
Touched down briefly unroofing warehouse.									
La Crosse 30 SE	22	6:40 p.m.							Funnel
Polk, St. Croix, Pierce Counties	22	Afternoon					5		Hail, wind, rain
Hail up to 1 1/2" in diameter.									
Southern Counties	22	Afternoon					5		Hail, wind, rain
<b>WISCONSIN (Cont'd)</b>									
Hail up to 1" in diameter. Hard hit were southwestern counties and Clinton area. Tornado reported at Cassville but has not been confirmed.									
Green Bay	24	7:40 p.m.							Funnels
Two funnels reported northeast of Green Bay.									
Butternut	24	4:00 p.m.							Hail
Near Merrill	24	5:00 p.m.					4		Tornado
Destroyed barn and other buildings in town of Corning. Touched down momentarily.									
<b>WYOMING</b>									
Cheyenne 15 NW	2	3:36 p.							Funnel aloft
Funnel cloud estimated 500 to 1000 feet long, did not touch ground.									
Cheyenne	2	3:08 p.							Funnel aloft
Funnel cloud sighted for less than 2 minutes southeast of Cheyenne, did not touch ground.									
Platte County	5-6	Afternoon			0	0	4	C	Heavy rains and hail
Heavy rains and several inches of hail both afternoons caused severe crop damage and flooding of homes and out-buildings in the Wheatland area.									
Banner	5	Evening			0	0	0	4	Heavy rains and hail
Heavy rains and several inches of hail caused flash flooding and hail damage to crops in the Banner vicinity.									
Big Horn	9	Night			0	0	0	4	Heavy rain & hail
Heavy rains and several inches of hail caused flash flooding and hail damage to crops in the Big Horn vicinity.									
Basin 10 W	9	Afternoon			?	?	0	3	0
A small tornado severely damaged outbuildings and trees on the Gould farm, 10 miles west of Basin.									
Greybull	12	7:00 p.			0	2	3	0	Lightning
Two persons were injured when lightning struck the St. Jermain home.									
Arvada	12-	Afternoon			0	0	4	C	Heavy rains
Heavy rains on both afternoons caused flash flooding with damage to crops, reservoirs and roads in the Arvada vicinity.									
Northern Big Horn Basin	13	1:30 p.- 3:00 p.			0	0	5	6	Funnel aloft, heavy rains, high winds and hail
Severe thunderstorms with one funnel aloft and heavy rains of 4 to 6 inches with 6 to 9 inches of hail and high gusty winds caused widespread damage and flash flooding in the Cowley, Byron, Penrose and Lovell areas.									
Southern Big Horn Basin	13	1:00 p.- 2:00 p.			0	0	4	C	Heavy rains, hail and wind
Severe thunderstorms with high gusty winds and hail caused much damage in the Thermopole vicinity									
Kaycee	13	Afternoon			0	0	4	C	Heavy rains
Heavy rains west of Kaycee caused flash flooding along the Middle Fork Powder River through Kaycee and vicinity.									
Guernsey	13	Afternoon			0	1	1	0	Lightning
Lightning struck the jeep a national guardsman was sitting in at Camp Guernsey.									
Midvale Irrigation District	13				0	0	4	C	Heavy rains and hail
Heavy rains and hail caused severe damage to farmsteads and crops in the irrigation district.									
Big Horn Mountains	13	Afternoon			0	1	0	0	Lightning
A bolt of lightning contributed to the injury of a woman horseback riding in the northern Big Horn mountains.									
Pine Bluffs	13-	Afternoon			0	0	4	C	Heavy rains and hail
Heavy rains and hail did considerable damage to farmsteads and crops in the Pine Bluffs vicinity.									
Keeline 4 WSW	17	Late p.			?	?	0	0	4
Severe thunderstorms with hail and a small tornado caused damage.									
Cheyenne	18	2:06 p.			0	0	0	0	Hail
One-half to 3/4 inch hail reported in Cheyenne.									
Big Horn Mountains	19	Early morning			0	7	0	0	Lightning
Lightning struck a tree and injured seven people in the Big Horn mountains west of Buffalo.									
Casper 3 N	27	2:05 p.			?	?	0	0	0
Small tornado spotted 3 miles north of Casper, also 3 funnel clouds aloft.									

See reference notes at end of table.



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<b>WYOMING (Cont'd)</b>									
Manderson	29	5:30 p.			0	0	0	4	Hail
	Several inches of hail caused severe crop damage in the Manderson vicinity.								
Emblem	31	3:00 p.			0	0	0	4	Hail
	Several inches of hail caused severe crop damage in the Emblem vicinity.								
Casper	31	1:00 p.			0	0	6	0	Hail
	Several inches of hail covered the southern half of Casper causing considerable damage to homes and cars.								

\* Miles instead of yards.

° Includes crop damage.

C Crop damage.

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

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

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

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