

U.S. DEPARTMENT OF COMMERCE
C. R. SMITH, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

STORM DATA

JULY 1968
Volume 10 No. 7



ASHEVILLE: 1968

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Alabama									
Colbert County	18	12:05P					5		Funnel cloud observed by two aircraft 5 miles east of Muscle Shoals.
Lauderdale County	18	1:00P					13		Funnel cloud reported by State Trooper 13 miles northeast of Muscle Shoals.
Vernon, Lamar County	28	2:00P					4	0	Wind Scattered damage from high winds as severe thunderstorm moved across area. A mobile home demolished, hospital damaged, trees uprooted, antennas and awnings damaged.
Cherokee County	29	2:00P			0	1	4	0	Electrical, wind Severe thunderstorm hit in Leesburg area and moved eastward about 12 miles to Centre. Lightning set trailer on fire and injured occupant. Several boats at marina destroyed by wind, planes overturned at Centre airport, screen at drive-in theater demolished. 75% of damage due to wind and 25% to lightning.
Alaska									
Mankomen Lake (Lat. 62° 59' Long 141° 29')	17				0	0	0	0	Water Spouts Under extreme instability conditions accompanied by heavy clouds and severe winds five water spouts formed and whirled back and forth across the lake. The wind then died down and heavy rain fell for 30 minutes. Moderate rain fell for another two and one half hours. Total rainfall was .75".
Arizona									
Mesa (5 mis. E)	4	5:30 p.	50		0	2	4	0	Tornado Small tornado destroyed a house, injuring two occupants. Two other homes and a barn suffered considerable damage. Storm moving toward southwest when first sighted, turning toward northwest and following short skipping path before dissipating about 5 minutes after being sighted.
Mesa	4	6:00 p.			0	0	4	0	Lightning Lightning set fire to a building, completely destroying house and two attached apartments.
Glifton	18	Evening			1	0	0	0	Lightning A 15-year-old youth was killed by a lightning strike during a thunderstorm.
Phoenix	20	8:00 p.			0	3	4	0	Windstorm Strong winds accompanying thunderstorm activity affected much of Phoenix area. A number of large trees were downed and widespread damage was done to roofs throughout the area. Three teenagers were injured when a ticket booth overturned at Camelback High School. Storm accompanied by locally heavy rain.
Phoenix	20	8:30 p.	50		0	0	4	0	Tornado Small tornado damaged several homes in eastern part of city. Funnel moved toward the southwest, accompanied by loud roaring sound, but apparently remained on ground for only a few blocks.
Tuba City (10 mis. W)	20	12:50 p.			0	0	0	0	Tornado Funnel cloud touched ground in open desert, away from habitation. Cloud sighted by pilot.
Tucson	22	2:00 p.			0	0	4	0	Windstorm Strong winds associated with thunderstorm leveled hangar at Freeway Airport causing extensive damage to two aircraft and an automobile.
Scottsdale	27	5:30 p.	1/2	500	0	0	4	0	Windstorm Strong winds preceding thunderstorm unroofed several buildings in city and toppled several large trees. Storm accompanied by hail 1/2 inch in diameter.
Horse Thief Basin	29	11:00 a.			0	0	2	0	Hail Hail the size of walnuts smashed car windows.
Keamy	30	Afternoon			0	6	4	0	Windstorm Strong winds overturned several large trailers in a trailer park, hospitalizing 6 persons. Heavy rain followed the windstorm.
Arkansas									
Palestine - St. Francis County	8	2:00 p.			1				Lightning Man killed by lightning in field, 5 miles north of Palestine.
California									None reported
Colorado									
Akron, Washington County	2	2:10pm					0	0	Funnel cloud Public reports of touch down were unconfirmed; no known damage.
Colorado (continued)									
Elbert County	2	3:09pm					30	0	0 Reported by pilot 30 miles SE of Denver. May have touched ground.
Victor, Teller County	3	1:45pm		10-20	0	0	3	0	Tornado A small tornado caused minor damage to roofs and buildings in Victor, 20 miles WSW of Colorado Springs.
Arapahoe County	5	4:50pm							Funnel cloud Reported in vicinity of Buckley Field, southeast of Denver.
Baca County	11	3:00pm			0	0	3	0	Tornado Tornado moving northwesterly damaged property on a farm 3 miles east of Campo. Reported by police and Civil Defense representative. A possible funnel was reported in the Colorado Springs area earlier.
Denver area	19	2:30pm							Funnel cloud Funnel observed from airport weather station over Westminster, northwest of Denver.
El Paso County	22	2:00pm						0	0 Hail Hail stones 3/4" in diameter reported in the Colorado Springs area.
Morgan County	26	1:07pm							Funnel cloud Pilot reported funnel 20 miles W of Akron. May have touched ground.
Logan County	28	6:00pm			0	0	3	4	Hail, wind Hail driven by high winds damaged crops and property in the Proctor-Iliff area, northeast of Sterling.
Alamosa County	30	4:10pm							Funnel cloud Funnel was reported in the Alamosa vicinity.
Connecticut									
Northwest, north-central	19	4:30 - 7:30 p			1	1	4	0	Lightning Intense lightning directly responsible for numerous power failures throughout the area, although locally heavy winds also contributed. A 31 year old gelfer was struck and killed in Brookfield and, in the same town, another man was hit outside his home but escaped serious injury.
Delaware									See data at end of table
Florida									
Mayport, Duval County	1	10:08a							Funnel aloft
Holder, Citrus County	2	3:00p	3/4	400	0	0	3	0	Tornado Small tornado damaged three houses and uprooted trees on State Road 491 about 3 miles south of Holder. Total damage estimated at \$500.
Riverview, Hillsborough County	3	7:06p							Funnel aloft
St. Petersburg	3	7:10p							Funnel aloft
Santa Rosa and Escambia Counties	3	9:00p							Waterspouts (3) Three waterspouts reported by public along coast from Navarre to Old Gulf Beach.
Tampa	4	10:32a							Funnel aloft
Jacksonville	4	12:34p							Funnels aloft Several funnels aloft were reported by the public, forming and then dissipating. Movement is not known.
Dunnellon, Marion County	4	1:15p			0	1	0	0	Lightning A man was knocked unconscious and suffered burns when struck by lightning while standing between a tree and the main lodge at Rainbow Springs.
Tampa	5	6:35p							Funnel aloft
Ocean Reef Harbor, Bada County	6	6:25a							Funnel aloft
Tampa	6	6:35p							Funnel aloft
Wauchula, Hardee County	7	3:00p	short narrow		0	0	1	0	Tornado Funnel cloud touched down briefly causing only minor damage.
Tallahassee	7	3:34p							Funnel aloft
Hillsboro Inlet, Palm Beach County	8	5:25a							Waterspout
Tampa	9	11:55a							Funnel aloft

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM		
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS			
Florida (continued)										Florida (continued)											
Melbourne, Brevard County	9	2:30p	short	narrow	0	1	4	0	Tornado	Lake Harbor, Palm Beach County	24	2:40p							Funnel aloft		
			Small tornado moved from west to east across the Crane Creek section of Melbourne and across the Indian River to Melbourne Beach. The tornado was observed at least once to come down out of the clouds and lift again. Total damage estimated at \$7,000. A Melbourne radio station reported winds of 50 mph during the storm.																		
St. Petersburg	9	6:30p			1	0	0	0	Lightning	Marathon, Monroe County	25	9:05a							Waterspout		
			A man was struck and killed while fishing on the Florida Presbyterian College campus.																		
Miami	11	1:00p			1	0	0	0	Lightning	Englewood, Sarasota County	25	3:53p							Waterspouts (2)		
			Man struck by lightning while walking to the store.																		
Jensen Beach, Martin County	11	3:00p							Waterspout	Key West	26	1:45 to 2:45p							Funnels aloft (3)		
Port Salerno, Palm Beach County	11	3:10p	short	narrow	0	0	1	0	Waterspout	Miami	28	7:55a							Funnel aloft		
			Waterspout moved across Sandspit Park and hit a fish camp on the mainland. Three 16 foot boats were thrown from land into the water 20 feet away.																		
Clearwater, Pinellas County	14	3:10p	1	narrow	0	0	3	0	Tornado	Tampa Bay Area	28	12:20-1:35p			0	0	0	0	Hail		
			Tornado touched down on Pierce Street and moved westward. It reached Clearwater Bay near the Civic Auditorium and was observed to dissipate before reaching the toll bridge across Clearwater Pass. One building had a sheet metal roof peeled back and all windows blown outward.																		
Indian Rocks Beach, Pinellas County	14	3:15p	1	20	0	0	4	0	Waterspout										Hailstones one-inch in diameter observed aloft over both Tampa and St. Petersburg.		
			Waterspout moving across the boat basin was observed to change course abruptly at least twice. It destroyed a carport and unroofed a house, which was made uninhabitable by the estimated three-inch rainfall which followed.																		
Clearwater	14	3:30p	2	narrow	0	0	4	0	Waterspout	Key West	28	12:30p							Waterspout		
			Waterspout formed in upper part of Clearwater Bay north of Island Estates. It hit the seawall on the north end of Midway Island, passed over Skiff Point and moved westward over water toward Clearwater Beach. After crossing just south of Papaya Street, it moved a short distance into the Gulf of Mexico and turned southward parallel to the beach and dissipated. Heaviest damage occurred at Clearwater Beach, where two business establishments were unroofed and many windows were blown out.																		
Bradenton, Manatee County	15	afternoon			0	1	2	0	Lightning	Haines City, Polk County	29	4:57p			0	0	0	0	Hail		
			A man suffered burns, cuts, and damaged ear drums when struck by lightning while horseback riding. The horse was killed instantly.																		
Tampa	15	4:30p							Funnel aloft										Hailstones 3/4 inch in diameter observed.		
St. Petersburg	16	4:20p			0	0	0	0	Hail	Marathon, Monroe County (20 miles N)	29	8:30a							Waterspout		
			Hail 3/4 inch in diameter fell on south portion of town.																		
West Palm Beach (25 miles NW)	17	2:10p							Funnels aloft (2)	Key West	29	10:50a							Waterspout		
Pahokee, Palm Beach County	17	afternoon			0	0	0	0	Hail	Orlando	30	3:45p							Funnel aloft		
			Egg-size hail reported.																		
Plant City, Hillsborough County	18	11:30a							Funnel aloft	North Port Charlotte, Charlotte County	30	6:30p	1/4	25	2	0	4	0	Tornado		
Tampa	18	12:34p							Funnel aloft										A tornado accompanied by heavy rain and one-inch diameter hail was observed moving through a trailer park near the crossing of U.S. Highway 41 and the Myakka River. Two persons in one of the trailers were killed and the trailer was crumpled and fragmented as if it had exploded. One other trailer was damaged.		
Tampa	18	1:16p							Funnel aloft	West Palm Beach	31	1:21p							Funnel aloft		
West Palm Beach	18	6:23p							Waterspout	Miami	31	2:14p							Funnel aloft		
Lake Harnsey, Seminole and Volusia Counties	19	1:42p							Funnels aloft (3)	Hollywood, Broward County	31	3:06p							Funnel aloft		
			Tornado touched ground briefly 8 miles northeast of Fort Myers.																		
Fort Myers	19	5:10p	short	narrow	0	0	0	0	Tornado	Short River Ranger Station, Everglades National Park	31	3:10p							Funnel aloft		
Ocala, Marion County	19	5:30p			1	0	0	0	Lightning	Georgia											
			A 16-year old boy was struck while working on a grain combine.																		
Key West	20	4:58p							Funnel aloft	Thomasville	3	5:00 p			0	0	5	0	Wind, rain and hail		
Key West	21	11:34a							Waterspout										Several downtown business buildings were damaged and numerous trees were uprooted. Several trees fell on utility lines and at least one hit a moving automobile. Part of the roof of a department store was blown off resulting in heavy water damage to merchandise.		
Key West	21	7:25p							Funnel aloft	Augusta	9	pm			1	0	6	0	Rain		
Fruitville, Sarasota County	22	1:30p							Funnel aloft										Heavy rains caused flash flooding in parts of city. A 12 year old boy lost his life after being swept into a storm sewer. Water accumulation caused the roof of a department store to collapse, resulting in heavy damage to merchandise within the store.		
Gaskin, Walton County	22	?			1	0	0	0	Lightning	Atlanta	11	pm			0	0	4	0	Wind, rain and hail		
			A 13-year old boy was struck and killed while rabbit hunting near a wire fence.																		
										Haralson County near Bremen	14	2:30 p			0	1	3	0	Lightning		
																			A 14 year old girl was hospitalized for burns after lightning hit a residence. Several other people were shaken up but not hurt.		
										Athens	18	pm			1	2	0	0	Lightning		
																			One man was killed by lightning while working on a construction project near Athens. Two other workmen were slightly injured.		
										Atlanta	18	Night			0	2	4	0	Windstorm		
																			Thunderstorm winds uprooted numerous trees and caused other damage in several sections of the city. Two people were out by broken glass when a plate glass window was blown out at a supermarket. Electrical service was interrupted in many areas of the city.		
										Savannah Beach	20	1:30 p	Short Narrow		0	0	3	0	Tornado		
																			A small tornado was reported in the Savannah Beach area.		
										Carroll County	20 & 21	pm			0	0	4	0	Wind and lightning		
																			Severe thunderstorm caused considerable damage in different sections of the county on consecutive days. Roofs were damaged, trees uprooted and power lines blown down. A storage warehouse was destroyed by fire after being struck by lightning and a residence was damaged by lightning.		

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
Georgia (continued)											
Perry, 5 miles southeast	28	6:30 p	Short	Narrow	0	0	3	0	Tornado		Tornado
Reported by State Highway Patrol. Damage confined to uprooted trees and cattle blown about.											
Atlanta Area	29	pm			0	0	5	0	Wind, rain and lightning		Wind, rain and lightning
Heavy rain, wind and lightning hit parts of the city. About 30 homes in Northwest Atlanta had flooded basements and many streets were flooded. Electrical service was interrupted in several areas. Lightning killed 22 registered dairy cows at Morrow, just south of Atlanta, in Clayton County.											
Gainesville	29	4:00 p			0	0	4	0	Wind and rain		Wind and rain
Severe thunderstorm brought wind gusts of 30 to 40 miles per hour and heavy rains to Gainesville and the surrounding area. An inch and a half of rain fell in 30 minutes, flooding streets. The roof was blown from a dairy plant and other damage was reported. Electrical service was interrupted in several areas.											
Pelham	30	3:00 p			0	0	4	0	Wind, rain and hail		Wind, rain and hail
Streets were flooded, trees uprooted and roofs damaged in the Pelham area. The roof was blown from a service station and windows were blown out of several other downtown buildings.											
Valdosta Airport	30	pm			0	0	5	0	Windstorm		Windstorm
Winds from a severe thunderstorm hit the Valdosta Airport with gusts up to 80 miles per hour. Nine privately owned airplanes were demolished and 11 others were damaged. Several military aircraft also suffered some damage. Windows were blown out of several automobiles and a few homes in the area suffered minor damage.											
Albany	31	pm			0	0	5	0	Lightning		Lightning
Lightning knocked out the entire electrical system of a large cotton mill. 500 employees were laid off until repairs could be made.											
Hawaii											
Kealakua, Hawaii Island	17	2:17p.			0	0	3	0	Lightning, rain		Lightning, rain
Lightning, which struck house in Kealakua during heavy thunder-showers, knocked out transformer and telephone and smashed water pipes, causing extensive water damage. Rainfall of over 1-1/2 inches in an hour resulted in local flash flooding, but did little damage.											
Idaho											
Burley-Rupert area, Minidoka County	9	Early p.m.	5				4	4	Hail		Hail
Hailstones up to 3/4" diameter damaged sugar beets, corn and grain. Potential yield reduced 15% to 50%, according to estimates.											
Entire State	19	Afternoon					5	4	Wind		Wind
20 Evening											
High winds accompanying a fast-moving cold front, swept across state from northwest to southeast; did scattered damage to buildings and trees. On Lake Coeur d'Alene several small boats were sunk, but no casualties were reported. Greatest structural damage apparently occurred at Blackfoot where wind gusts were estimated to 90 m.p.h. Two airplanes were destroyed at Blackfoot airport. Other reports of wind were: more than 55 m.p.h. at Hayden Lake, gusts to 56 m.p.h. at Lewiston airport, 50 m.p.h. at Boise Air Terminal and 48 m.p.h. at Pocatello airport.											
Idaho Falls, Bonneville County	29				1	3	2		Wind - Lightning		Wind - Lightning
High winds accompanied thunderstorms that did considerable damage to building roofs, signs, utility poles and trees. Little precipitation. Lightning struck and badly damaged a chimney of a residence on Monticello Drive, burned a hole through a ceiling, tore off shingles and left a 16-year old girl in shock.											
Illinois											
Sangamon County	7	12:50p			2	1			Lightning		Lightning
Two persons were killed and another injured when lightning struck a tree in a picnic grove at Lake Springfield.											
Warren & Knox Cos.	17	6:30p	4	125	0	0	2	3	Tornado		Tornado
Tornado touched in Warren Co. and traveled due east 4 miles to eastern edge of Galesburg Airport. Considerable damage to corn along path 100 to 150 yards wide. WBAS, PIA.											
West Central	17	evening					4	C	Heavy rain		Heavy rain
Three to five inches of rain caused local flooding in scattered areas. Heaviest amounts apparently in Pike and Passwell Cos. Considerable damage in Peekin, some basement walls collapsed and others were flooded, streets were damaged or covered with mud.											
East Central	22	4p - 6p			0	0	3	C	Hail, lightning, wind, funnels		Hail, lightning, wind, funnels
Widely scattered thunderstorms were occasionally severe. Hail damaged sweet corn and tomatoes southeast of Hoopston. Rainfall varied from none to more than an inch with minor damage by lightning. A few funnel cloud sightings were reported.											
South	26	3:30p - 5:30p							Funnel clouds		Funnel clouds
Funnel cloud sightings were reported by several 85 E STL before 3:50p with another 75 SSE STL about 5:30p.											
Indiana											
Wanatah (LaPorte County)	8	E.S.T. Between 3:00 - 4:00 p.	9	*9	0	0	3	4	Hail, rain		Hail, rain
East of Wanatah a 30-minute hail storm covered a 9-square mile area with stones up to 1" in diameter. Severe crop damage resulted from hail and flooding. In Wanatah, 2 1/2 inches of rain fell in one hour.											
Piercetown and Warsaw (Kosciusko County)	8	P.M.			1	2	0	0	Lightning		Lightning
A man was killed when struck by lightning as he rode farm machinery near Piercetown. Two girls were burned and stunned at Warsaw when a tree was struck by lightning.											
Elkhart County	8	P.M.	?	?	0	0	4	0	Wind, Lightning		Wind, Lightning
Minor damage to utility lines and trees was reported at Bristol, Dunlap and Goshen, and about 5:15 p. lightning caused a fire which burned a \$12,000 barn at Middlebury.											
Marion, 7 1/2 miles north (Grant County)	14	6:30 p.							Funnel aloft		Funnel aloft
Public reported sighting of a funnel cloud moving northeast.											
Randolph and Wayne Counties	15	P.M.	?	?	0	0	3	3	Rain, wind, lightning		Rain, wind, lightning
Rain of 2 1/2 inches during afternoon thunderstorm caused flooding of roads, streets and fields. Wind and falling trees damaged some roads. Some minor fires started by lightning.											
Roll (Blackford County)	22	Near noon							Funnel aloft		Funnel aloft
Resident reported funnel cloud moving northeast.											
Decatur County	22	After 8:00 p.	?	?	0	0	3	3	Wind, lightning		Wind, lightning
Strong wind damaged roofs, trees and utility lines in Greensburg and some cattle were killed by lightning in county.											
Lafayette area (Tippecanoe County)	23	P.M.							Funnel aloft		Funnel aloft
Michigantown (Clinton County)	23	P.M.							Funnel aloft		Funnel aloft
Kokomo, near (Howard County)	23	3:50 p.							Funnel aloft		Funnel aloft
Sheriff reported funnel cloud moving northeast two miles south and twelve miles west of Kokomo.											
Fort Wayne, near (Allen County)	25	5:10 p.							Funnels aloft		Funnels aloft
Public and control tower personnel reported several funnels about five miles south of Baer Field.											
Newton County	25	About 5:35 p.							Funnels aloft		Funnels aloft
Sheriff verified reports of several funnel clouds between Brook and Goodland.											
Vincennes, south (Knox County)	26	7:00 p.							Funnel aloft		Funnel aloft
Public reported sighting of funnel moving east between Vincennes and Decker.											
Decker, northeast (Knox County)	31	6:10-7:20 p.			0	0	3	0	Funnel, lightning		Funnel, lightning
Oil tank fire one mile northeast of Decker was started by lightning. Funnel cloud was reported moving east between Decker and Monroe City.											
Iowa											
Humeston, Wayne County	4	3:00 p							Hailstorm		Hailstorm
Hail piled 12 inches deep.											
St. Marys, Warren County	6	After-noon	10	7500			4	5	Hailstorm		Hailstorm
Kossuth County	6	2:30 p					4	5	Hailstorm		Hailstorm
Scattered damage across western half county.											
S. Franklin and N. Hardin Counties	6	3:00 p					4	5	Hailstorm		Hailstorm
Hail to 2 1/2 inch diameter. Damage at Popejoy, Lee Center, Buckeye and Ellis.											
Calmar, Winne-shiek County	8	2:00 p							Funnel cloud		Funnel cloud
Des Moines, Polk County	8	10:00 p					4		Hailstorm		Hailstorm
Des Moines	8	10:10 p					4		Windstorm		Windstorm
Winds to 73 mph. Several aircraft damaged at airport, also heavy rain downtown.											
Warren County	8	10:30 p					4	5	Hailstorm		Hailstorm
Damage Evansdale, Milo and Liberty Center area.											
Humboldt	12	4:47 p					4	5	Hailstorm		Hailstorm
280 acres damaged, also 10% wind damage.											
Clarion, Wright County to Fayette and Buchanan Counties	16-17		120		4	7	6		Heavy rains		Heavy rains
Loss estimates (preliminary) \$14.5 million. Width of zone about 30 miles.											

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Iowa (continued)									
10NW Mason City	17	2:00 p							Funnel clouds (2)
		Sighted east of Forest City.							
Lime Springs, Howard County	17	3:40 p							Funnel clouds (3)
2S Anamosa	17	3:50 p							Funnel cloud
Vinton	22	1:00 a			4	4			Windstorm
Belle Plaine	22	1:30 a					4		Lightning
		Two homes struck, one burned out. lightning losses in area.							Several other minor
Olds, Henry County	23	1:30 p					4	4	Windstorm
		72 X 180' barn demolished plus other buildings.							
Spencer, Clay County	23	4:45 p							Funnel cloud
S Washington County	23	8:30 p					4	4	Windstorm
		Also hail (20%) and lightning (15%) damage.							
Henry, Lee & Des Moines Counties	24	1:00 p							Funnel clouds (3)
		Sighted near New London, Ft. Madison, Burlington, moving NE.							
Hinton, Plymouth County	29	8:00 p					4		Windstorm
Shenandoah	30	11:00 p					4	4	Windstorm
Kansas									
Southeast portion	1	11:00 a.-5:00 p.	?	?	1	0	5	4	Hail, wind, lightning, rain
		Hail damage occurred in a strip 9 mi. by 6 1/2 mi. in Cowley County and included the town of Atlanta. Largest stones were 1 1/2"-1 3/4", or larger. Wind damage was reported in Cowley, Chautauqua, and Montgomery Counties. Lightning killed a man in a boat near Riverton and caused property damage in Cowley, Chautauqua, Montgomery, and Labette Counties. Flash flooding at Independence put water in about 15-20 homes.							
Ford, Kiowa Counties	4	morning			0	0	4	0	Rain, lightning
		Heavy rains at Dodge City and Greensburg caused flooding of some streets and basements. Lightning damage to a power station occurred about 7:30 a.m. at Dodge City.							
Sherman County	5	11:03 a.							Funnel aloft
		Funnel aloft observed about 10 mi. NE Goodland Airport and lasted for about 5 minutes.							
Western two-thirds	8-9	eve of 8th, night of 8-9			0	0	5	4	Wind, rain, hail, lightning
		Wind damage occurred in Rooks, Ellis, and Saline Counties. Hail up to 2" diameter fell in the Barnard area but caused minor damage only. Hail damaged crops in Rooks and northern Grant counties. Lightning damage was reported in Republic, Saline, Ellis, Logan, Scott, Haskell, and Ford counties. Heavy rain damaged crops, washed out fences and eroded fields in Rooks County.							
Riley County	9	about 11:15 a.	?	?	0	0	5	0	Wind, hail
		Strong thunderstorm winds unroofed two apartment buildings and caused other damage in the Manhattan area. Hail 3/4" in diameter caused damage to some property, also in Manhattan.							
Pratt County	9	3:30 p.	?	?	0	0	0	4	Hail, wind
		Hail, driven by high winds, damaged maize and corn crops in the Pratt area. Largest stones were 1 1/2"-1 3/4" diameter.							
Hodgeman County	9	about 9:30 p.	?	?	0	0	4	0	Wind
		Two farms NE of Jetmore were damaged.							
Haskell, Gray Counties	11-12	night of 11-12	?	?	0	0	4	5	Hail, rain
		Hail and heavy rain caused considerable damage to crops over portions of the two counties. Hail was mostly small, but stones up to 3/4" diameter, or larger, fell.							
Barton County	12	afternoon 1/2	1200	0	5	4	4		Wind, lightning
		Strong winds about 4:00 p.m. damaged several mobile homes in the southwest part of Great Bend and caused scattered other damage over the city. Lightning southeast of Great Bend caused losses of \$7,000. All of the injuries were due to winds.							
Logan County	12	11:15 p.			0	0	4	0	Lightning
		Lightning caused scattered damage in Oakley.							
Cloud County	13	4:35 p.			0	0	0	3	Hail
		Hail up to 1 1/2" diameter occurred 13 mi. ESE of Concordia.							
Kansas (continued)									
Northeast Kansas	16	before 7:00 a.			0	0	4	4	Rain, lightning
		Torrential rains over portions of Nemaha, Brown and Shawnee Counties produced flash flooding along some small streams and erosion in cultivated fields. Over 7" of rain occurred locally in Nemaha County. Lightning damage was reported locally in Shawnee and Johnson Counties.							
Portions of eastern Kansas	16-17	night of 16-17			0	0	4	0	Wind, lightning
		Wind damage occurred at Clay Center about 1:15 a. Lightning damage was reported locally in Republic, Dickinson, Geary and Butler Counties.							
Comanche County	17	6:15 p.			0	0	0	0	2 tornadoes
		One tornado was observed about 8 mi. E of Coldwater; it moved eastward for 1/2 mi. and had a path width of 300 yards. A second tornado touched down briefly 10 mi. ESE of Coldwater.							
Comanche County	17	about 6:15 p.	?	?	0	0	3	0	Hail
		Hail up to 1" diameter occurred in the vicinity of Coldwater.							
South Central, south-east portions	17-18	night of 17-18	?	?	0	0	4	0	Lightning, wind
		Wind damage was reported in Wilson County. Lightning damage occurred locally in Harper, Butler, Wilson, Kingman, Labette, and Crawford Counties.							
Sedgwick County	18	about 2:30 p.	4	4	0	0	3	4	Hail
		Field crops in the vicinity of Bentley were severely damaged.							
Scott, Finney Counties	18	evening	?	?	0	0	3	4	Hail
		Damaging hail fell over portions of the two counties. Heaviest damage occurred between Scott City and Shallow Water where stones up to 1 3/4" diameter fell.							
Graham County	21	5:00 p.	?	?	0	0	4	0	Wind
		Strong winds inflicted locally heavy damage along the eastern edge of Hill City. Highest winds at the airport were about 74 m.p.h.							
Hodgeman County	22	4:04 p.	1/2	100	0	0	3	0	Tornado
		Tornado, moving S, occurred 8 1/2 mi. N of Jetmore.							
Smith County	22	about 6:00-7:00 p.	?	?	0	0	5	4	Wind, hail, rain
		Heaviest damage occurred north of Lebanon, and between Downs and Lebanon. Heavy rains damaged crops, eroded fields, and caused flooding of some basements. Numerous farm buildings were damaged or demolished by strong winds and hail damaged milo, hay and feed crops.							
Hodgeman County	22	afternoon			1	0	0	0	Lightning
		Lightning caused the death of a man riding a tractor 7 mi. NNE of Jetmore.							
Pawnee County	22	afternoon	?	?	0	0	3	4	Hail, rain
		Hail up to about 3/4" diameter flattered corn and maize fields near Burdett. Some basements were flooded in that town.							
Ellis County	23	about 5:00 p.			0	0	4	0	Lightning
		A tank battery SE of Ellis was set on fire by a lightning strike.							
Riley County	23	7:15 p.							Funnel aloft
		Funnel aloft observed a few miles NW of Manhattan.							
NE Kansas	23-24	night of 23-24	?	?	0	13	5	0	Wind, lightning
		Heaviest wind damage occurred from 8 mi. W of Topeka to the NW portion of Topeka at about 5:00 p.m. Estimated damages in that area were \$300,000. Wind damage also was reported 3 1/2 mi. W of Lyndon and east of Holton. Lightning damage occurred at Topeka, 10 mi. SE of Blue Rapids, and SW of Osage City. All injuries due to wind.							
NE Kansas	23-26				0	0	5	5	Rain
		Torrential local rains up to 8 1/2", or more, during the night of July 23-24 produced flash flooding over portions of eastern Kansas. Worst flooding was at Louisville where Rock Creek overflowed, causing evacuation of about three-fourths of the town. Scattered heavy rains July 24-26 over eastern and south central Kansas produced local floods along							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
Kansas (continued)										
NE Kansas									several streams in those areas. Hardest hit area July 23-26 was a band 50 to 75 miles wide from Madison to Topeka to Westmoreland where storm rainfall totals up to 10 inches, or more, were recorded.	
Dickinson County	26	4:00 a.			0	0	4	0	Lightning	
Rawlins County	26	afternoon	7	?	0	0	0	4	Hail Two barns plus contents were destroyed near Hope.	
Ford County	27	3:40 p.	short	narrow	0	0	0	0	Tornado Hail damaged crops north and east of McDonald.	
Anderson County	30	6:00 a.			1	0	0	0	Lightning Tornado touched down briefly in an open field about 5 mi. south of Dodge City.	
Osborne County	30	afternoon	8	?	0	0	4	0	Wind A youth on top of a hay truck was killed 1 1/2 mi. S. of Kincaid.	
Northeast, east central portions	30-31				0	0	4	4	Rain Numerous farm buildings were damaged and miscellaneous other damage occurred from Woodston to Alton.	
									Locally heavy rains caused flash flooding in some areas. Some of the localities reporting flooding were: Ottawa, Powhattan, and Leavenworth.	
									SPECIAL HAIL SUMMARY	
									Hail Loss Clearing House reports indicate hail was especially severe on these dates in the following counties:	
	11	Gray, Haskell								
Kentucky										
Nelson County	2	Afternoon			0	0	4	?	Lightning, wind In a brief storm that hit sections of the county, a house and a tobacco barn were burned, the fires apparently set by lightning strikes. There was some minor wind damage.	
Washington County	2	12:30 p.	10	1*	0	0	4	4	Hail, wind, rain Damage variable 10 to 80% to 100 acres of crops, tobacco, corn and garden, due to hail and wind. Direction of movement of the storm was from west-southwest to east-north-east. Hailstones varied in size from cherry to golfball. There was damage to buildings by wind and hail, and some trees were uprooted. Most of the damage was in an area stretching from Science Hall north of Springfield and eastward to the Thompsonville and Mackville communities.	
Boyle County	2	1:45 p.			0	1	0	0	Lightning A 13-year-old girl was injured by a lightning strike (not seriously)	
Bourbon County	2				0	0	4	0	Lightning Two barns burned, the fires apparently set by lightning strikes.	
Central	2	11:30 a.			0	0	4	7	Wind, hail, rain High winds caused damage chiefly in the eastern portion of Grayson County, and the southern portions of Hardin and Larue Counties. In the Big Clifty section of Grayson County some trees and utility lines were downed and several small buildings and trailers were upset. In Hardin County at least 3 barns were downed, roofs were stripped from several houses and barns, a house trailer was blown into Nolin River and a number of trees and utility lines were downed, 100 trees on one farm alone. There was hail damage to tobacco and wind damage to corn. In Larue County at least one barn was blown down by wind and several were damaged. There was hail damage to tobacco and wind damage to corn. There were heavy downpours in some sections of these counties.	
Scott County	8	1:30 p.			0	0	4	0	Lightning A fire apparently set by a lightning strike destroyed a large new barn containing 5,000 bales of hay and tobacco sticks. The barn was located about 5 miles from Georgetown on Delaplain Road and 1-75.	
Hopkins County	8	10:00 a.			0	0	?	?	Rain, wind, lightning Unofficial measurements of 6 inches and 8 1/2 inches of rain in a 2-hour period in southern section of the county in the Nortonville-Daniel Boone area. Corn standing knee-high in the field was completely inundated in places. A great deal of topsoil was washed away. The water was over a highway in a number of places. There was wind damage to roofs of several barns and houses and a number of trees. There were some power outages.	
Adair County	8	Noon			0	0	4	0	Lightning The General Store and Post Office at Keltner were destroyed by fire apparently set by lightning.	
Kentucky (continued)										
Mercer County	9	1:00 p.						3	4	Hail, wind, lightning These were hail damage to crops in the southern and eastern portions of the county, wind damage to crops at scattered locations, minor damage due to lightning. Area over which the hail fell was about 25 square miles, hail stones about 1/2 inch in diameter.
Union County	10				0	1				Lightning Lightning hit a transformer near a home in Morganfield. A "ball of fire" rolled across the floor of the house, knocking a man backward. The man had been hit by lightning in 1959 while out in the yard at his home, then in Sturgis.
Jessamine County	10	7:00 p.						0	4	Hail Hail destroyed 5 acres of burley tobacco.
Shelby County	10	5:00 p.						4	0	Lightning Fire set by lightning destroyed a large barn, 7,000 bales of hay and tools and equipment.
Fayette, Jessamine Counties	10	6:00 p.			0	0	0	0	5	Hail, wind High winds and hail (thumb-size) heavily damaged tobacco and corn crops on several farms in the South Elkhorn Creek Area - 75 to 100 acres of tobacco and an equal amount of corn acreage. Rain was very heavy and hail came down in sheets, lasting about 15 minutes at one location. Several trees were downed.
Fleming County	12	2:45 p.			0	1				Lightning A seven year old boy suffered first degree burns when struck by lightning while in a barn near Bowling.
Menifee County	12	3:00 p.						0	3	Lightning Three persons were injured, none seriously, when knocked to the ground by lightning while walking along a gravel road in misting rain 30 feet from a barn.
Henry County	12	1:30 p.	3	1*				5	5	Hail, wind There was considerable hail damage to tobacco and corn crops in an area of 3 square miles. Hailstones 1/2-inch to 3/4 inch in diameter accumulated to a depth of 1 inch on the ground. Barns were damaged and one house was shifted on its foundation.
Bath County	12	4:45 p.	1	1500					4	Hail, rain Hailstones from 3/4 inch to 1 inch in diameter damaged field crops in the vicinity of the Slate Valley community. There was an unofficial report of 2 1/2 inches of rain in 25 minutes.
Bourbon County	14	5:30 p.						5	0	Lightning Four yearlings, valued at \$800,000, were killed by lightning in an open field.
Union County	15	5:30 p.						0	2	Lightning Two persons suffered mild shocks during a brief electrical storm over Morganfield.
Shelby County	15	Afternoon						4	?	Electrical, hail A large utility barn containing 7,000 bales of hay, farm implements, and tools was destroyed by fire apparently set by lightning. Lightning hit a number of TV antennas and damaged sets. There was hail damage at scattered locations.
Scott County	15	1:30 p.						4	0	Lightning Fire apparently set by lightning destroyed a barn, more than 5,000 bales of hay and hundreds of tobacco sticks.
Warren County	17	12:30 p.								Hail Hailstones 1/2 to 3/4-inch in diameter in the vicinity of Bowling Green.
Warren County	17	12:15 p.								Funnel clouds aloft. Several funnel clouds reported near Bowling Green.
Henderson County	18	6:25 p.								Funnel clouds aloft Kentucky State Police reported several funnel clouds, one almost reaching ground.
Magoffin County	18	11:30 p.			0	0	5	5	5	Flash flood A downpour (reported unofficially as about 3 inches) caused flash flooding of Oakley Creek covering an area of about 20 square miles in the vicinity of Royalton. Water reached a depth of 6 feet in some homes and some bridges were washed out. Tobacco, corn, and vegetable crops were a major loss.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Kentucky (continued)									
Grayson County	21	2:30 p.			0	1	4		Lightning
									Fires apparently set by lightning destroyed a church and a barn. A woman was stunned by lightning which destroyed a television set in her home.
Perry County	22	4:30 p.			3	0	4	0	Wind, rain
									High winds associated with a thunderstorm blew a house off its foundation onto 3 children, killing them. The house and 4 other houses were badly damaged.
Jefferson County	22	1:31 p.							Hail, wind
									Golfball size hail and high winds reported in vicinity of Eastwood.
Pike County	22	P.M.					4		Wind
									Two temporary, wooden classroom buildings at Virgie High School were destroyed by wind, and an office building suffered about \$7,000 damage.
Shelby County	22	Afternoon			1	0			Lightning
									A man on a wagon in a hay field was killed by lightning.
Lewis County	22	2:30 p.			0	1			Lightning
									An eight-year-old boy was struck by lightning outside his home near Vanceburg.
Garrard County	22	1:30 a.					4		Lightning
									A fire apparently set by lightning destroyed a home and damaged an adjoining store at Buckeye.
Bath County	22	Afternoon					4	?	Lightning, hail, wind, rain
									Fire apparently set by lightning destroyed a barn, 6,000 bales of hay and farm machinery. Scattered tobacco and other crops were damaged by heavy rain, hail and wind. An unofficial report indicated as much as 5 inches of rain in an hour and a half at one location.
Carlisle County	22	Night					4		Lightning
									A fire apparently set by lightning destroyed a home and contents near Berkley.
Barren County	27	6:25 p.							Funnel clouds aloft
									Several funnel clouds reported near Glasgow.
Grayson County	27	Evening			0	1			Lightning
									A man received a burn on his back.
Ohio County	27	4:15 p.			0	2	2	0	Lightning
									Lightning struck a residence in Beaver Dam. Two persons under the carport were injured slightly. A television set and several other items were damaged or destroyed.
Louisiana									
Calcasieu Parish	2	6:23 pm			0	0	4		Wind
									Wind gusts with thundershower up to 60 m.p.h., flipped over four small airplanes at the Lake Charles Municipal Airport. Several windows and doors blown out in terminal building and flying glass caused interior damage.
Lafayette Parish	3	5:30-5:45 pm			0	0	3	0	Lightning
									Residence and powerline damaged by lightning-induced fire.
St. Charles Parish	3	6:18 pm							Funnel cloud
									Pilot reported funnel cloud over southwestern Lake Pontchartrain not touching water.
St. Mary Parish	10	1:50 pm			1	1			Lightning
									A 13-year-old boy was killed instantly at Morgan City when lightning struck tree where he had sought shelter from a thunderstorm. A companion was hospitalized with burns.
East Carroll Parish	11	1:35 pm			0	0	4	0	Wind, rain, hail
									Telephone and light poles were blown down, trees felled, one airport hangar demolished and another damaged at Lake Providence. Large pecan tree fell across residence, crushing carport and master bedroom wing.
Acadia Parish	11	am			0	0	4	0	Lightning
									Home and furnishings severely damaged by fire after lightning struck near Crowley.
Orleans Parish	12	10-11 am							Waterspouts
									Several waterspouts sighted over Lakes Pontchartrain and Borgne. Winds gusted to near 60 m.p.h. at Lakefront Airport during thundershower at 10:30 a.m.
Louisiana (continued)									
Ascension Parish	14	3:55 pm			0	0	5	0	Lightning
									St. John Catholic Church at Prairieville burned to ground after being struck by lightning. Solid cypress building, built at the turn of the century, recently had been refurbished inside and air-conditioned.
Calcasieu Parish	16	9:55 am							Funnel cloud
									Pilot reported near Lake Charles.
Cameron Parish	17	9:45 am							Funnel clouds
									Two funnels sighted over swamplands just east of Sabine Pass.
Livingston Parish	18	2:25 pm							Funnel cloud
									Reported by Sheriff's deputies near Watson.
Vernon Parish	18	pm			0	50	0	0	Lightning
									Fifty Army recruits received treatment for minor burns and lacerations after lightning struck ground near where they were training at Fort Polk.
St. Bernard Parish	19	10:12 am							Funnel cloud
									Pilot reported funnel 8 miles north-northeast of Callender Naval Air Station.
Calcasieu Parish	20	11:17 am-1:30 pm							Funnel clouds
									Funnel cloud sighted visually and by radar 13 miles east-southeast of WBAS, Lake Charles at 11:17 a.m. Public reports of funnel clouds 8 miles south of station at 11:30 a.m. and 7 miles southeast between 1:15 and 1:30 p.m. Latter funnel touched down briefly and uprooted a few trees.
Plaquemines Parish	22	1:43 pm							Waterspout
									Public reported waterspout west of Brasas.
Orleans Parish	23	10:30 am							Funnel cloud
									Pilot reported funnel cloud 10 miles east-northeast of Lakefront Airport, New Orleans.
Plaquemines Parish	23	12:15 pm							Waterspout
									Pilot reported waterspout near Pointe a La Roche.
Livingston Parish	23	3:30 pm							Funnel cloud
									Sighted between Walker and Livingston.
Orleans Parish	30	6:30 pm							Waterspouts
									Three waterspouts reported over Lake Borgne.
Maine									
Dark Harbor	1	4:00 p.m.	0.1	10	0	0	3	0	Tornado
									Moved eastward from shore, lifting a 26-ft. square garage 50 ft. straight up before it flew apart.
Gardiner	1	4:15 p.m.	3	narrow	0	0	4	2	Tornado
									Intermittent, heavy damage in path from Marston Rd. to Capen Rd. Two barns were demolished, several homes damaged, and many trees downed. Many utility lines downed. Southeasterly movement.
Waterville	1	P.M.			0	2	3	0	Wind
									Two injured when barn roofing timbers collapsed.
State	1	P.M.			1	1	4	2	Lightning, wind, hail
									Widely scattered heavy thunderspouts caused local damage, including one death from power line felled by wind in Richmond. In Waterville, a steeple was damaged by lightning. At Embden Pond trees were uprooted, possibly by a tornado. Lightning killed 11 cows at Weeks Mills. At Poland a man survived after a lightning bolt knocked him down. Hail in some areas, with local reports up to 3/4th inch size near Brunswick.
Interior sections	9	Late P.M.			0	0	4	0	Lightning, wind
									Scattered thunderspouts caused local damage to trees and utility lines.
Presque Isle	18	1-2 p.m.			0	0	2	0	Lightning
									The same home was struck twice, about an hour apart, with minor damage.
State	19	P.M.			0	0	4	0	Lightning, wind
									Thunderspouts caused scattered local damage. At Anson, a home was burned down by lightning. Wind felled trees and caused utility outages in some communities. Hail fell in some areas.
Dexter	28	Midday			0	0	4	0	Lightning
									A barn and other farm buildings burned after lightning struck.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Maryland		See data at end of table							
Massachusetts Northeastern portion	1	7 p.m. to midnight			0	0	5	0	Lightning, wind
		Scattered heavy thunderstorms caused local damage in many areas. In some areas lightning was almost continuous and spectacularly brilliant with prolonged strokes to ground, sometimes with several visible at the same time. Many homes, trees, and utilities hit. Winds were very strong in some areas. At Beverly a tented art show was extensively damaged. Trees and utility lines were felled. Hail fell in some areas but no damage was noted.							
Salisbury Beach	1	8 p.m.	100	100	0	100	5	0	Tornado
		Storm tore through camping area of Salisbury Beach State Park. About 60 trailers or other campers damaged varying from minor to complete demolition. One trailer lifted into the air and spun several times, with the occupants surviving. Most injuries were minor, but a few were serious. A swath was also cut through large pine trees in Salisbury, some uprooted and some broken at various heights up to about 40 ft. above the ground. Two homes were partially unroofed on nearby Plum Island. Direction of storm as it cut through the camp was to the south-southeast.							
Eastern portion	10	4-8 p.m.			0	0	4	0	Lightning, wind, rain
		Several communities hit by torrential rainfall rates. Flooded underpasses and low spots in streets delayed evening rush hour traffic. Hardest hit was Framingham and vicinity and the north-shore areas from Swampscott to Rockport, where scores of cellars were flooded. Lightning damage mostly minor. Some limbs downed by wind; two cars crushed.							
State	17	P.M.			0	0	4	0	Lightning, wind, rain
		Thunderstorms caused scattered damage. Trees and utilities affected by lightning and wind. Several homes damaged by lightning and a barn burned in the Great Barrington area. Heavy rain flooded streets in Fitchburg and some other localities. More than two inches of rain fell in Northbridge.							
Southbridge	17	5:30 p.m.	0.3	15	0	0	3	3	Tornado, Lightning, rain
		Trees uprooted or sheared in a very well defined narrow path. Small buildings and lumber pile nearby untouched. Path continued into corn field and woods. Funnel seen. Local damages were reported in nearby communities from lightning strikes and from washing and flooding rains. In Bellingham, four persons were rescued from a nearly submerged car caught in a low spot.							
Great Barrington	19	P.M.			0	0	4	0	Lightning
		Lightning killed 8 cows grouped near a pine tree which was shattered by the bolt.							
East Longmeadow	19	4:15 p.m.	0.1	25	0	0	2	0	Tornado
		A small tornado cut a serpentine path in a generally northeast direction, uprooting and shearing off a number of trees in the Somers Rd. section.							
Michigan Shepherd to Marion Springs, Isabella, Gratiot and Saginaw Counties	5	2:30-4PM	30	1/2-1 mile	0	0	0	6	Hail-Heavy Rain
		Hail and heavy rain flattened or heavily damaged crops along a line from Shepherd southeastward into Saginaw County. Hail, ranging up to 1/2 inch in diameter shredded corn, flattened beans and grain crops. The hail, in 15 minutes, caused a complete crop loss along a narrow central core with estimated losses set between 1 and 2 million dollars.							
Edmore to N of Pleasant Valley, Montcalm, Isabella, Midland Counties	5	4:30-6 PM	35	1-2 miles	0	0	0	6	Hail-Heavy Rain
		Hail, ranging from the size of nickels to bigger than quarters and shaped like disks, moved ENE from just north of Edmore into Midland County N of Pleasant Valley crossing the path of the earlier storm near Shepherd. Hail depth in this area was reported to reach 21 inches after the second storm. Crops along the storm core were a complete loss with estimates on losses exceeding 2 million dollars.							
North Branch to Lakeport, Lapeer and St. Clair Counties	5	4:30-6 PM	50	Avg. 2 mi.	0	0	?	6	Hail-Heavy Rain
		Hail, ranging in size from small marbles to larger than golfballs, moved southeastward through Lapeer County to the Port Huron area with a complete loss of crops suffered in a two mile wide band from Yale to Avoca. Depths of hail were reported in drifts of over 24 inches. Spotty hail damage was also reported in the Caro, Tuscola County area and north of Stockbridge in southeastern Ingham County. Many homes suffered damage to their north							
Michigan (continued)									
		and west sides from the hail. Total crop damage estimated in excess of \$2.5 million.							
Southfield, Oakland County	5	6:45 PM			0	5	2	0	Wind
		High winds toppled a tent where over 100 persons had sought shelter from a blinding rainstorm. Five were injured, treated at the hospital and released. Apparently most of those injured were struck by a large central pole when it fell.							
Ferndale, Wayne County	9	3 PM			0	1	3	0	Lightning
		Scattered thunderstorms caused several minor fires and power failures in Detroit area. An eighteen year old youth was injured, not critically, when struck by lightning in Ferndale.							
Southeastern Michigan	9	2-9 PM			0	0	5	0	Thunderstorms
		Power failures, caused by lightning, were wide spread in southeastern Michigan. In Hillsdale County, 2 steers were killed by lightning. Near Port Huron, a barn was toppled by high winds while heavy rains flooded basements in over 1000 homes, some businesses were also flooded. Port Huron officials said this was the worst storm to hit that area in recent years. Total wind damage in the Inkster area was estimated at \$100,000.							
L'Anse -- Baraga, Baraga County	15	6:30 - 8:30 PM			0	0	6	0	Heavy Rain - Flooding
		Heavy rain, 3-4 inches, caused flash flooding and extensive damage to both L'Anse and Baraga. Streets in the two villages were particularly hard hit with at least one bridge washed out. At one time, flood waters were five feet deep in the business district of L'Anse, some cars were washed off roads and a section of railroad track was washed out, overturning two railroad cars loaded with logs. Total loss was estimated at \$1.5 million dollars.							
Northern - Western Michigan	21	PM-Night			0	0	4	0	Lightning - High Winds
		Scattered severe thunderstorms produced high winds and a variety of damage. At Kalamazoo, trees were toppled damaging several homes. A barn and contents, 5 miles southeast of Charlotte, was destroyed, loss \$4500. A 30-foot craft "Exodus" sunk in heavy surf in northern Lake Huron, all aboard were picked up and taken to Mackinac Island. The mast of 41-foot sloop, "Flame" snapped near Manitou Island due to high winds, a Coast Guard boat towed it to Charlevoix. At De Tour, lightning damaged a church steeple, loss \$2,500. Many small fires and power failures were reported throughout the area.							
Hillsdale, 6W, Hillsdale County	23	7:30 PM	6	75	0	0	4	0	Tornado
		A small funnel observed primarily to stay aloft, destroyed a barn and drove a 2 x 4 through a pony west of Hillsdale. High winds toppled trees earlier in the Benton Harbor-Dowagiac areas causing considerable damage. Time and direction of movement tend to indicate this was the same storm moving eastward across southern Michigan.							
Minnesota Sherburne 2N, Martin County	3	8:40p	Short Narrow		0	0	0	0	Tornado
		Tornado touched briefly no damage.							
Southwest Minnesota	3	Afternoon & Evening	130-2-10 miles		0	0	?	5	Hail
		Hail storms afternoon and evening moved to southeast damaging crops through Yellow Medicine, Lincoln, Lyons, Murray, then skipped to Watonwan and Martin Counties.							
Pipestone and Rock Counties	4	5:30p	20	3 miles	0	0	?	4	Hail, wind
		Thunderstorms with hail 1 1/4 inch and wind moved southeast through southern Pipestone and northeastern Rock Counties. Complete loss of crops on several farms. Some 6 inch hail reported with fields white with hail 4 inches deep.							
Southeastern and Central Minnesota	6	Afternoon			0	0	?	4	Hail
		Widespread thunderstorms with hail 3/4 inch in Benville, Redwood, Nicollet, Brown, Cottonwood, Martin and Le Sueur Counties. Caused crop damage.							

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Minnesota (continued)									
Martin, Faribault, Blue Earth and Waseca Counties	8	4:00p to 5:00p			0	0	0	5	Hail
									Thunderstorms with hail moving southeast through Martin, Faribault, Blue Earth and Waseca Counties caused crop damage.
Northwest Minnesota	11	Morning			0	0	?	5	Hail
									Two thunderstorms cells with hail moving southeast 10 to 20 miles in length caused crop damage in Kittson, Marshall, Pennington and Polk Counties.
Southwest and Central Minnesota	11	Evening			0	0	4	5	Hail, wind
									Thunderstorms, "150 mile line" with hail damaged crops through Rock, Murray, Cottonwood, Redwood, Renville, Sibley and Meeker Counties. Minor property damage reported from wind and hail. Hail damage reports show five major thunderstorm cells with hail 30 miles apart.
Marshall, Polk, Clay and Ottertail Counties	13	1:45p to 4:00p			0	0	4	5	Wind, hail
									Thunderstorms with wind and hail 1 inch damaged crops in Marshall, Polk, Clay and Ottertail Counties. Winds reported at 75 mph destroyed a barn 1N and caused major damage to a barn 7W Warren.
West and Central Minnesota	13	7:00p to 10:30p			0	0	5	5	Wind, hail
									Storm cell with wind moving ENE for 80 miles through Chippewa, Kandiyohi, Meeker and Wright Counties. Destroyed a barn 6NW Monticello, movie screen north Litchfield (gusts to 56 mph reported), damaged 6 mobile homes 1W Amandale and many minor damages reported. Hail causing crop damage was reported in Renville, Chippewa and Sibley Counties.
Anoka, Hennepin and Ramsey Counties	12-14				0	0	?	0	Rain, lightning
									Thunderstorms with heavy rains and lightning, 13, 14 and 15 caused some flooding and power outages from lightning. 4.65 inches rainfall recorded at Minneapolis Airport for the 3 day period.
North Central Minnesota	14-15	Evening to Early Morning	150 about 20 miles		0	0	5	?	Wind, rain
									Strong storm cell with winds, heavy rains, tornado (listed below) moved east-northeast across the north central part of state. Winds and rain caused most damage primarily on a line from Fergus Falls to Virginia. Heavy rains flooded basements and washed out roads along this line. Unofficial 7 inches fell at Pine River, Cass County.
Ottertail, Wadena and Cass Counties	14	Evening	80		0	0	4	?	Tornado
									Tornado moving east-northeast first touched down at Ottertail Village, Ottertail County damaging a store front, broke off 50 to 60 oak trees east Buchanan Lake, it was then sighted again as a funnel cloud 20 miles east-northeast, it touched down again 3SW Nimrod, at 9:40p and destroyed 2 farm storage buildings, machinery, milk pens and many trees, skidded along destroying a sheep barn western Cass County, then damaging a garage, several cabins, automobile and many trees at Lake Wabedo and finally destroying a silo and many trees south of Hamer. The path of the tornado was generally in a sparsely populated area.
Pelican Rapids 6N, Ottertail County	14	7:00p	Short Narrow		0	0	0	0	Tornado
									Tornado touched down briefly no damage.
Northwest Minnesota	13-15				0	0	5	0	Heavy rain
									Thunderstorms with heavy intense rain caused basement flooding and major damage to some streets in Duluth and other vicinities to the northwest. Duluth received 2 inches rainfall in 2 hours.
Tamarac River, Marshall County	16-25				0	0	?	5	Heavy rain, flooding
									Heavy rain for 9 days at source of Tamarac River caused heavy flooding of fields along the Tamarac River from 6W of Strandquist to the Red River. Reported to have destroyed 1/3 of the potato crop in this area. Unofficial 6 inch rainfall at Strandquist.
Sauk Center 3S, Stearns County	17	12:47p	Short Narrow		0	0	0	0	Tornado
									Tornado touched down briefly in open field.
West Central Minnesota	20				0	0	0	4	Hail
									Widespread thunderstorms with hail damaged crops in Becker, Ottertail, Grant, Stevens, Douglas and Pope Counties.
South Central Minnesota	23	Early Morning			0	0	?	5	Hail, rain
									Early morning thunderstorms with hail 1 1/4 inch and heavy rains caused crop damage through Martin, Blue Earth, Faribault, Waseca, Rice and Dakota Counties. Heavy rains flooded most basements at Mapleton and Minnesota Lake, 250 flooded at Wells. Flooding
Minnesota (continued)									
Marshall and Polk Counties	26	Afternoon			0	0	?	4	Hail
									caused major damage to several rural roads. Rainfall 6.55 inches Wells, unofficial 3 inches at Minnesota Lake.
Southwest Minnesota	26	Evening			0	0	5	?	Heavy rain
									Thunderstorms with hail caused crop damage in west Marshall and northwest Polk Counties.
Fulda 2NE, Murray County	26	7:30p	About 2	Narrow	0	0	3	?	Tornado
									Small tornado touched down destroying 2 barns and a hog house and damaging several outbuildings.
Southwest and South Central Minnesota	30	Evening			0	0	?	5	Hail, heavy rain
									Thunderstorms with tornado (listed below), hail and heavy rains caused crop damage through Rock, Murray and Nobles Counties. Flooding damaged basements and streets in New Ulm and Sleepy Eye area. Record monthly rainfall for New Ulm 12.58, previous 12.15 inches June 1925.
Hardwick 5N, Rock County	30	6:00p	Short	Narrow	0	0	3	?	Tornado
									Tornado touched briefly destroying hog house and feed shed damaging corn crib and machine shed. Two funnel clouds were sighted prior, they moved upward into a main cloud.
MINNESOTA FUNNEL CLOUDS REPORTED DURING JULY									
Pope County	13	9:54p							Gilcrest Lake
Kandiyohi County	13	9:55p							Raymond south
Pipestone County	13	10:00p							Pipestone 10E
Pipestone County	13	10:58p							Jasper
Stearns County	14	6:30p							Alexandria west, 2 funnels sighted
Todd County	14	7:25p							Browerville
Douglas County	14	7:30p							Miltona
Becker County	14	8:00p							France 1N
Wadena County	14	9:14p							Wadena 1ANE
Becker County	14	9:37p							Audubon 2NE 2 funnels sighted
Redwood County	16	9:00p							Walnut Grove
Sibley County	17	1:00p							Gaylord 3SW
Douglas County	20	10:10p							Alexandria 3SW
Douglas County	20	11:11p							Alexandria 10SE
Swift County	26	9:19p							Benson 10S
Morrison County	26	10:05p							Brainerd 18S moved to 17SE
Mississippi									
Forrest County	1	4:52 PM to 5:30 PM			0	17	0	0	Lightning
									Thunderstorm with heavy rain and unusual sharp and rapid ("close together") lightning moved from E toward W. Seventeen National Guardsmen were injured by lightning in Camp Shelby bivouac area. A pine tree, 4 1/2 of main post, was struck by lightning at 4:57 PM CST. Some nearby men in chow lines or sitting around PX tent were injured; 11 were knocked off their feet, 5 of them were hospitalized. A man dishing out food was knocked unconscious and bled at ears; another knocked off metal chair received second degree burns and split britches.
Bolivar County	1	About 6:00 PM			0	2	?	0	Wind
									Wind overturned house trailer 4-1/2 K Benoit in Longshot Community. Man and woman occupants hospitalized, had fractured ribs, cuts, and bruises. Trailer reported demolished.
Washington County	2	About 3:00 PM			0	1	?	0	Wind
									Radar at 2:45 PM CST reported "the heaviest thunderstorm is in the vicinity of Greenville." About 3 PM CST, 3 N Greenville, at trailer court on U. S. Highway 1, wind flipped house trailer onto its back with wheels upright; woman occupant thrown under kitchen sink and later received emergency room treatment. Neighbor, to the south, watched storm come out of the north, the trailer go up in air and then come back down; she said the injured woman "...crawled out of the trailer...she came over to my trailer...I could hardly hold the door open for the wind and rain." Newspaper reported "In other sections of Greenville, high winds and rains took their toll on property. Felled limbs littered the streets in areas of the city and several billboards...went down..."
Hinds County	2	5:30 PM			0	0	?	0	Heavy Rain
									Thunderstorm produced heavy rain over parts of Jackson. Large area of city had flash flood of up to 2 to 4 ft. water several hours. Rain began about 5:30 PM in part of city, heaviest was over by 7 PM some light rain thereafter; 4.32" rain measured at Hawkins Field. Hardest hit were portions of W, NW, and S Jackson; motor traffic

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Mississippi (continued)									
Hinds County									stalled along and under number low underpasses. Along West Lynch Street and Lynch Creek resident reported water higher than during past 35 years.
Walthall County	8	4:15 PM			0	0	2	0	Wind, Hail Radar at 3:45 PM indicated scattered showers and thunderstorms south of line from Greenville to Quitman. Wind damage reported about 4:15 PM near Tylertown (lat. 31.1°N, long. 90.2°W), no funnel seen. Thunderstorm about 2 NNE Tylertown 4:15-4:30 PM; hail came first, almost covered ground over small area, averaged 1/2", largest 3/4"; rain then came with driving winds; clouds very dark, seemed very low with rolling motion. Winds knocked down 5 utility poles, interrupted power and telephone service in Union Community; downed poles, stopped traffic on Highway 27. Area of damage very small, some 200 yards wide; included some damage to dwellings, tree limbs in area seemed to be twisted off. No reports of damage from hail; fence posts rain gages ran over at 2".
Lowndes County	8-9				0	0	0	0	Heavy Rain Slow moving storm brought state record one-day rainfall to Columbus; 15.68" rain measured 6 AM the 9th. Columbus drainage system overtaxed, some scouring and undermining of streets, one or two culverts washed out. Water accumulated in city low spots and spread out over many areas; flash flooding in Columbus swamped numerous streets and filled some basements, peak period high water in streets about 2 AM the 9th. In Columbus area considerable damage from sliding or erosion of saturated soils, several retaining walls destroyed and over 500 -ft. of bank eroded into Tombigbee River which rose about 19 feet. County roads Columbus area had some small bridge and culvert flood damage. There was some damage to soybeans in low areas; nursery reported some damage to shrubs and stored fertilizer.
Harrison County	11	Shortly after noon			0	0	2	0	Wind Thunderstorm moved from NNE toward SSW. Man at junction U. S. Highways 49 and 90 reported: "The clouds...became real dark and started to form a small point NE of us, then within the next few moments hard winds and heavy rains fell, during the rain there were chunks of hail." To the south of U. S. 90, two light poles were downed at a Little League baseball area in the Joseph T. Jones Memorial Park, and roof small storage and concession building damaged. Downed poles damaged hurricane fence and power was briefly knocked out in ship harbor to E and W Piers, and several businesses along highway. Newspaper reported man "saw swirling winds pass overhead at the time."
Hinds County	14	5:06 PM			0	0	0	0	Winds Radar at 4:45 PM showed line of thunderstorms about 3 miles wide extending from Mendeshall, Simpson County to about 7 miles south of Jackson and moving slowly northward. During thunderstorm at 10 W Jackson Municipal Airport pea size hail occasionally fell at 5:06 PM for about 5 minutes. About the same time winds gusts to 58mph. At Hawkins Field (lat. 32.3°N, long. 90.2°W) Jackson. Radar at 5:15 PM indicated locally heavy showers and thunderstorms have been occurring at Jackson. No reports of damage received.
Rankin County	28	8:30 PM			0	0	1	0	Wind Radar at 7:45 PM reported scattered light rain and thunderstorms continued across West Central Mississippi. At 8:30 PM large thunderstorms were indicated in the Rankin County area. There was a public report from a resident that a storm with a roaring noise passed over Pearl, 7 E. Jackson; no injuries. Damage described as a tree blown down, a lawn mower blown into street, garbage cans blown about. Radar at 9:00 PM reported thundershowers continue through Central Mississippi with a tendency to decrease. There were no reports of a funnel sighting; no additional reports of a storm noise, or storm damage received.
Harrison County	29	5:30 PM							Funnel Cloud Aloft Radar at 4:45 PM showed thunderstorms covering over 50% of area within 40 miles of Gulf Coast. At 5:00 PM a thunderstorm and distant lightning was reported to the NW of Gulfport. At 5:12 PM wind gusts to 60 mph were reported at Gulfport (lat. 30.4°N, long. 89.1°W). At 5:30 PM Highway Patrol reported funnel cloud 6 N Biloxi and said it had not touched ground. At 5:45 PM radar indicated area of thunderstorms about 30 miles wide just north of Biloxi, the area contained heavy thunderstorms and was decreasing in size. No reports of a touchdown, or damage, or additional funnel clouds received.
Jackson County	29	7:00 PM			0	0	?	0	Wind Radar at 6:30 PM showed a line of heavy thunderstorms from Pascagoula northward about 30 miles; this line moving eastward about 15 MPH. At 7:00 PM NW winds of 45 mph were reported at Dauphin Island Bridge, Alabama. At 7:30 PM strong winds were reported at Pascagoula (lat. 30.4°N, long. 88.6°W) during past hour; house under construction was damaged. No injuries or other damage reports received.
Missouri									
Kennett, SSW, Dunklin County	1	Evening					4		Winds, Hail Thunderstorm winds with hail destroyed two barns, two garages and unroofed one house in the Octa Community 5 miles southwest of Kennett, Missouri.
Near Anniston, Mississippi County	1	4:30 P.M.					4		Wind, Hail, Rain A small area south and southeast of Anniston sustained considerable hail damage with unofficial reports of size ranging from marble to golf ball size and ground accumulations from 2 to 5 inches. Three inches of rain and damaging winds also reported.
Missouri (continued)									
Charleston, Mississippi County	7	11:30 P.M.					4		Hail, Wind, Lightning Three-fourths inch hail accompanied by strong winds which uprooted some trees and broke some windows in Charleston. A farm home in the Concord Community was destroyed by a lightning-caused fire.
Flat River-Esther area, St. Francois County	8	12:45-1:00 P.M.					3		Hail A hail storm with stones ranging up to "golf ball" size crossed the North Central portions of Flat River and eastward through Esther, Missouri area.
Grandview, Jackson County	9	3:46 P.M.							Hail 1-1/4 inch hail at Richards-Gebauer Air Force Base.
North Boone County	9	3:00-5:00 P.M.							Rain, Hail, Wind Heavy thunderstorm rains caused local flooding in a strip across northern Boone and northwest Audrain County. Unofficial reports included 5-1/2 inches north of Sturgeon and 2 to 4 inches just north of Centralia. Spot crop damage occurred due to the combined effects of rain, small hail and wind.
Licking area, Texas County	9	P. M.					4		Hail, Lightning Hail up to "walnut size" fell just west and south of Licking. One home was destroyed by a lightning-caused fire.
Southeast Ozark County	9	8:00 P.M.	1/4	50					Tornado A small tornado cut a short narrow path through a heavily wooded area 6 miles west-southwest of Elijah, Missouri, 2 miles south of U.S. Highway 160.
Lemons area, Putnam County	12	5:00-6:00 P.M.							Thunderstorm A thunderstorm produced heavy rain with unofficial reports up to 6-1/2 inches and damaging winds in the area northeast of Lemons in southern Putnam County. The wind damage was heaviest at a farm 2 miles east and one mile north of Lemons where two sheds were badly damaged and electric poles downed.
Kingdon City, Callaway County	14	2:50 P.M.							Funnel Aloft Numerous reports of a funnel cloud aloft were received from the Kingdon City area.
Central to East Central Missouri	17	4:00-8:00 P.M.					5		Thunderstorms Several thunderstorms causing widespread wind damage and locally heavy rains crossed central and east-central Missouri. The wind damage, mostly uprooted trees and downed power lines, was heaviest in Henry, Benton, Pettie and Morgan Counties in west central Missouri, in northern Boone County, northern Callaway and Audrain Counties, in central Missouri and in Pike and Lincoln Counties in eastern Missouri. Rains in excess of 4 inches occurred in northern Henry County and in excess of 5 inches in eastern Pike County. This same system produced the tornado and funnel cloud aloft reports listed below.
Callaway County (Near Hatton)	17	5:55 P.M.	1/2	50			3		Tornado A small tornado damaged one barn on a farm 3/4 mile east and 3/10 mile north of Hatton, Missouri in northern Callaway County.
St. Charles County (1/2 W of O'Fallon)	17	7:40 P.M.							Funnel Aloft Public reported to State Patrol.
Humansville, 6W Cedar County	17	8:15 P.M.							Funnel Aloft
Chillicothe, Livingston County	22	6:20 P.M.					6		Thunderstorm Six people were injured as thunderstorm winds collapsed a large display tent at an electrical cooperative meeting at the Municipal Airport.
Northern half of State	24	2:45-6:20 P.M.							Funnels Aloft Thunderstorm activity over the northern half of Missouri produced a rash of widely scattered reports of funnel clouds aloft. Specific times and locations were: 2:45 P.M. 23 miles ENE of St. Joseph, DeKalb County 4:25 P.M. 12 miles N of Kirksville, Adair County 5:05 P.M. 7 S and 2-1/2 E of Chillicothe, Livingston Co. Bfr. 6:20 P.M. 7 NW of Sedalia, Pettie County 6:20 P.M. Allenton vicinity in SW St. Louis County
Winfield (vicinity) SE Lincoln County	25	5:10 P.M.							Funnel Aloft
McBride (vicinity) Northeast Perry County	26	5:30 P.M.							Funnel Aloft Two pilots report funnel cloud not touching ground 6 miles south of Chester, Illinois.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Montana Virginia City Madison County	8	7:30 P	7	*1	0	0	4	0	Hail, High Wind Thunderstorm
									High wind preceded the thunderstorm. Heavy rain caused considerable damage to streets from flood water. Hail accumulated to six inches in places. Ice from hail stones could still be seen in gutters 24 hours later.
Westby (near) Sheridan County	11	6:40 P	20	*2	0	0	5	5	Hail, High Wind
									Property damage was from the high wind. A funnel cloud was observed during storm and appeared to touch ground; some farm buildings were destroyed.
Hilger, Fergus County		Late Afternoon	15	*3	0	0	4	5	Hail, Wind
									Hailstones were up to 1/2-inch diameter. About 40% damage to hay and wheat crops. Some fields a total loss. The Lewistown radar base observed 80 MPH winds.
Golden Valley County	15	8:30 P	15	*3	0	0	0	5	Hail
									The storm covered an area from Lavina to near Broadview, northern Yellowstone County. Hailstones were up to hen's egg size.
Southeastern Roosevelt and northern Richland counties	15-16	Near Midnight	90	*20	0	0	4	5	Hail, Wind, Heavy Rain
									The storm covered an area from northwest of Wolf Point (Roosevelt County) to north of Sidney (Richland County) and on into North Dakota. Hail damage was spotty. Damage to property was from high wind. Trees were blown over and fields of grain flattened. Hailstones up to 1/2 inch diameter were reported.
Central	17	Afternoon & Evening	100	*40	0	0	3	6	Hail, Rain
									The storm covered an area from southeast Chouteau to northeast Cascade, northern Judith Basin, and western Fergus counties. Many fields of grain in the area were totally destroyed. In the Hilger area (Fergus County), chickens and ducks were killed by hailstones. Reports indicated many hailstones were larger than golf balls, but they were mostly marble size. Near Montague, marble size hail was still on ground the following day. Apparently two different storms passed through the area, one around 2 P. M., the other near 5 P.
Western	19	Late Afternoon and Evening	300	*250	0	0	4	0	High Wind, Thunderstorms
									A line of thunderstorms spread into Montana west of the Continental Divide late afternoon and evening. Strong gusty winds were reported from Hamilton (Ravalli County) and Anaconda (Deer Lodge County) to the Canadian border. Wind gusts reached 58 miles per hour at Kalispell WBAS, and were estimated at 70 mph to the west of Kalispell. Near Hamilton a forest service lookout reported wind speeds of 50 to 60 mph, and instruments at the Anaconda reduction works registered 100 mph. Damage was confined mostly to blow-down of trees and outage of power and telephone systems. Power outage at Hamilton was the longest duration in many years. High winds and thunderstorms crossed over the divide into the western portion north-central, but damage there was not extensive.
South-Central	25	4 P	80	*4	0	0	0	6	Hail
									The storm moved southward from Judith Gap (Fergus County) to around Huntley (Yellowstone County). Damage was spotty, but many fields of grain were totally destroyed. Hailstones the size of hen's eggs fell in the Judith Gap area.
Brusett, Northwest Garfield County	28	6:30 P	20	*20	0	0	0	5	Hail
									Some grain fields received 95% damage. Average size of hailstones 1/2-inch.
Vananda-Forsyth area, Rosebud County	28	Evening	40	*1	0	0	3	5	Hail
									Some wheat fields were a total loss. Average size of hailstones about 1/2-inch. Hail drifts up to two inches a few places.
Anaconda (1 1/2 miles east), Deer Lodge County	28	Afternoon			1	1	0	0	Duststorm
									A man was killed and his wife injured during a wind-duststorm which reduced visibility to near zero.
Montana (continued)									
East of the Continental Divide	29-30	Late Evening & Night			0	0	?	?	Wind
									Strong winds accompanying a cold front sweeping south and eastward caused considerable property damage. Wind gusts in the northern portion were estimated at 60 to 70 mph, 30 to 50 mph other areas. A number of trees were blown over, some power outages occurred, and some damage reported to buildings. In the north-central portion, the wind shelled ripe wheat in a number of fields. The temperature fell to below freezing higher mountains the 31st.
Nebraska Holt County	3	3p - 5p	20	8*	0	0	3	5	Hail
									Intermittent hail over a two-hour period piled 3/4" stones to depths of 4 to 8 inches in center of strip. Storm path from 15 miles NW of Atkinson to near Emmet.
North Platte Area	3	5p	4	?	0	0	0	1	Hail
									1 1/2" stones covered ground to 6-inch depth at Agr. Experiment Station southwest of town, some hail fell in southwest portion of North Platte.
Hooker County	3	Evening	?	?	0	0	0	?	Hail
									Some 1 3/4" stones fell in Mullen vicinity, 1/2" stones fell in town.
Gunning Co. - Burt Co.	8	up	10	Narrow	0	0	0	0	Tornado
									Funnel cloud observed in West Point-Oakland area. Touched down briefly in open field 3 miles north-east of West Point.
Southern Nebraska	8	up - 8p	100	20*	0	0	4	5	Hail
									A series of hail storms extended from Clay Co. to Otos Co. Hail strips were from 1 to 3 miles wide and 5 to 12 miles long. Main damage in Clay Center, Edgar, Dorchester and Syracuse areas. Stones were mostly 1/2" to 3/4" size, but ranged up to 1 3/4" diameter. High winds increased damage at some sites.
Scotts Bluff Co.	9	Afternoon	10	4*	0	0	4	5	Hail, Damaging
									Two areas, one about six miles square centered at Winds Stegall, the other a strip about 4 miles wide and 10 miles long running east from Mitchell. Half inch stones with some up to an inch were driven by high winds.
Northern Clay Co.	10	5p - 5:30p	8	3*	0	0	0	4	Hail
									1/2" hail covered ground in Saroville-Sutton area. High winds accompanied the hail which damaged corn, milo and alfalfa. Wheat had been harvested.
Howard Co. - Boone	10	About 8	7	1*	0	0	0	4	Hail
									Small area near St. Paul and 1 by 7 mile strip near St. Edward. Storm moved northeastward. Half-inch hail accompanied by high winds.
Panhandle	16	2p-up			0	0	0	4	Hail
									Principal areas were near Whitney and Hemingford in northern Panhandle although some hail was reported in southern portion. Stones mostly 1/2" but some up to 1 3/4" in Whitney area. Hail strips were short and narrow, but damage to ripened wheat was heavy.
Northern Platte Co.	17	Evening	10	1*	0	0	0	5	Hail
									Ground covered to 2" depth. Stones 1" diameter with some up to 3".
Near Columbus	20	2a - 3a	5	3*	0	0	0	5	Hail
									Stones ranged up to 3" diameter. Complete crop destruction in center of strip.
Saryy Co.	21	3p	?	?	0	3	4	3	Damaging Winds
									Damaging winds lasting about 45 minutes blew down sheds, grain bins, trees, etc., and damaged roofs, porches, garages, plate glass windows, etc. Two persons injured when trailer house overturned, and another person cut by flying glass. Wind and 1/2" hail did some crop damage.
12 West of Sidney	24	6:30p	?	?	0	0	0	0	Tornado
Morrill and Cheyenne Counties	26	2:30p			0	0	0	0	2 Tornadoes
									Tornadoes touched down briefly in open fields; one, 4 miles SE of Bridgeport, the other just west of Dalton. No damage.
Panhandle	28	Evening	90	40*	0	0	4	5	Hail, Damaging Winds
									High winds and hail damaged crops and buildings in scattered local areas extending from Sidney to Alliance. Hail ranged up to 1 3/4" diameter and covered ground at some sites. Most of wheat had been harvested in southern Panhandle, but other crops were lost. Wind did tree damage, upset trailers, damaged sheds, etc.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED ¹ DAMAGE	CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS		
Nebraska (continued)										
Davies County	29	Mid-after-noon	5	1*	0	0	0	4		Hail
		Main strip of hail just east of Whitney, but other small areas near Chadron, Hemingford, Ray Springs, and Rushville received hail. Stones ranged from 1/4" to 1" in diameter.								
Rock Co. to Fillmore Co.	29	Afternoon & Evening	170	?	0	0	5	5		Hail, Damaging Winds
		A severe hail storm moved from the Ashton area at 6p through the Farwell, Demebrog, and St. Libby areas reaching Grand Island about 9:30p. Earlier in the afternoon hail fell in the Bassett area of Rock County and later at night hail fell in the Shickley area of Fillmore Co. These are in line with the main storm and the times indicate that they could have been part of the same storm. Individual hail strips were 1 to 2 miles wide and 5 to 8 miles long. Stones mostly in the 1" to 2" range, but some jagged pieces up to 3" were reported. Damage was extensive and crop loss often complete in centers of strip. Winds added to the damage by overturning house trailers, damaging small buildings, etc.								
Knox, Pierce, Wayne Counties	29	3:15p to 5:30p	15	4-7*	0	0	5	6		Hail, Damaging Winds
		Severe hail storm moved from near Lindy south-southeastward just west of Wausa to northeast of Pierce into the western edge of Wayne Co. Hail strip was nearly continuous. Stones at beginning were 1 to 1 1/2" in size (some to 3") and decreased in size to 3/4" to 1" at southern end. Accompanying winds blew down barns, grain bins, etc.								
Madison Co.	29	6:30p	15	1 1/2*	0	0	4	5		Hail, Winds
		Crops destroyed by hail and farm buildings down from high winds.								
Eastern Nebraska	29	Afternoon & Night	?	?	0	0	?	?		Winds, lightning, Hail
		Scattered thunderstorms across eastern Nebraska resulted in numerous reports of minor wind damage, lightning strikes, light hail, etc. Sites included but were not limited to Ericson, Columbus, Blair, Fremont, Arlington, Beemer, Carroll, Wayne, Omaha, and Nebraska City.								
Madison County	30	3:28p-3:52p			0	0	0	0		Funnel Clouds Tornado
		Several funnel clouds sighted in the Madison-Newman Grove-Norfolk areas. One was observed to touch down briefly to become a tornado before lifting and dissipating.								
Phelps and Harlan Counties	30	4:30p-5:30p	10	3*	0	0	0	4		Hail
		Atlanta-Nasoot area. 1/2" stones covered ground to depth of an inch.								
Folk County	30	5:05p - 5:45p	8	200	0	2	5	4		Tornado, Hail
		Damage path was about 8 miles long but funnel either lifted at times or nearly did so as damage intensity varied from light to total. Two farm sites and a power substation demolished. Tornado moved slowly east-southward from near Sredes-horn (NW of Strumburg) to 3 miles east of Strumburg where it lifted and continued to move on as a funnel cloud. Forward speed in center of path averaged about 7 MPH. Rope-type tornado from high cloud base visible for great distances. Some 1 1/2" hail stones were associated with storm, but were few and did little damage.								
York County	30	About 5:40p	3	Narrow	0	0	4	4		Tornado
		Moved east-southward damaging farmsites and crops.								
Eastern Nebraska	30	Evening			0	0	0	0		Funnel Clouds
		Following the tornadoes (listed above) near Strumburg and Waco, there were a number of reports of funnel clouds from counties east of Folk and York. One was sighted from the FAA control tower in Lincoln and estimated to be at least 15 miles to the northwest. It is uncertain whether these funnels were actually extending from the same clouds that produced the tornadoes and which had continued to drift eastward. No further damage occurred.								
Nevada			None reported							
New Hampshire										
Southeastern portion	1	Evening			0	0	4	2		Lightning, wind, hail
		Locally heavy thunderstorms mostly from about 7 to 9 p.m. moved southeasterly. Wind felled many trees and cut utility lines. Unusually frequent, or nearly continuous, lightning in some thunderstorm cells. Well developed roll cloud on leading edge of storm observed at Derry, just before extremely strong wind gusts and heavy rain hit. The storm cut two swaths each about 100 ft. wide, through pine woods in Kingston, possibly twin tornadoes. Hail in some areas, up to 1 inch size at North Salem.								
New Hampshire (continued)										
Deering	14	2 p.m.			0	0	0	2		Hail
		Hail up to 1 inch diameter.								
Temple	17	2:55 p.m.			0	0	4	0		Tornado, lightning
		Tornado lifted and damaged farm buildings. A 14x30 ft. silo was lifted and deposited onto a truck, only denting the truck cab. A barn in the same community burned after being hit by lightning. At the same time as this stroke, ball lightning was apparently seen in the living room of the farmhouse. Heavy rain in area, with 2 1/2 inches at Temple. At nearby Antrim, 2 inches fell within an hour.								
State	19	P.M.			1	0	4	4		Lightning, wind, hail
		Scattered thunderstorms caused local damage from both wind and lightning. At Bethlehem, wind broke a tree limb, which fell on and killed a man. Numerous utility failures. Hail damaged apple crops.								
Keene	19	3:45 p.m.	1	5	0	0	3	0		Tornado
		A very small tornado cut a path to the east-northeast, shearing off several trees and damaging one home in the Stanhope Ave. section before disappearing in a swamp.								
New Jersey			None reported							
New Mexico										
Torrance County	10				1	0	0	0		Lightning
		Youth and horses killed by lightning strike, 10 miles north of Enciso.								
East-central New Mexico	13	Night			0	0	?	?		High wind
		High winds Roswell-Portales area unroofed farm buildings, damaged fences and trees, and broke plate glass. Wind to 63 m.p.h., 6 miles south of Roswell. Half-inch hail damaged cotton near Bethel.								
Santa Fe	25	Afternoon			0	0	6	0		Heavy rain, flash flood
		Heavy rain with record one-day fall of 3.61 inches caused flash flood of Santa Fe River about 4:00 p.m. Damage to public facilities estimated at \$600,000, and to homes and businesses, \$500,000.								
Las Cruces	31-1	6:50 p.-2:15 a.			0	0	4	0		Heavy rain, lightning
		Local flooding caused by heavy thunderstorms with 1-1/2 inches of precipitation. 9/10ths-inch rain in one hour reported in east Las Cruces. Lightning strikes. Damage estimated at \$15,000 to public property and \$25,000 to homes.								
New York										
Central	1	p.m.			4	5				Electrical
		Severe thunderstorms concentrated damage from eastern Finger Lakes and south central tier counties to parts of Mohawk Valley. Lightning knocked boy unconscious on golf course and falling tree limbs injured 3 men, all in Syracuse area. Lightning-caused fire destroyed large dairy barn and contents at Dryden, Tompkins County; loss \$75,000. Bolts killed 19 dairy cattle near Greene, Chenango County and 14 more at Cedarville, Herkimer County, animals in each case muddled under trees in open field. Hail of 3/4-inch at Elmira but damage minor. Power failures and property damage from fallen tree limbs occurred in Elmira, Ithaca, Syracuse and eastern Mohawk Valley areas.								
Madison County	5	p.m.						5		Hail
		Hail caused heavy damage to an extensive acreage of onions, potatoes and muckland crops in the Canastota area.								
Auburn, Cayuga County	9	9:30 p.m.			88+	4				Wind
		In connection with thunderstorm activity gust of wind collapsed 300-foot circus tent during evening performance before 2000 spectators. Some 88 persons admitted to hospitals with varying injuries, many others treated at scene for injuries and shock. Heavy rain hampered rescue efforts. Tent and property loss estimated \$2,000.								
Central to North-east	9-10	p.m. to a.m.					4	4		Electrical, rain hail
		Severe thunderstorms affected narrow belt from eastern Finger Lakes to Lake George-Champain Valley areas in northeast. Lightning fires caused extensive damage to church at Elbridge and 2 homes, elsewhere in Onondaga County; barn destroyed at Marcy, Oneida County. Limited power failures and property damage from falling limbs widespread from Seneca County in west to Warren and Essex Counties in northeast. Heavy rains of 2.0 to 3.0 inches caused washouts of roads and flooded low lying areas. Hail caused moderately heavy damage to apple orchards in Clinton County. Hail also reported in Washington County. Cow killed and barn damaged by lightning at Boonville.								

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
New York (continued)									
Poughkeepsis, Dutchess County	12	afternoon					4		Rain, wind, lightning
									Localised cloudburst yielded 2.5 inches of rain in short time in northern and eastern suburbs of city. Flash flooding inundated portion of major highway to depth of 2 to 4 feet. High winds demolished excavation site barricade, smashed plate glass windows, awnings and light furniture and tossed large boat off display at marina. Scattered lightning strikes caused some power failures but mostly light damage.
Stockholm, St. Lawrence County	16	4 p.m.			1				Lightning
									Man struck and killed by lightning as he was opening a metal frame window in Town of Stockholm (near Potsdam).
State (except south-east)	17-18	p.m. to p.m.					5		Electrical
									Afternoon and evening thunderstorms associated with a stationary front caused locally severe damage at widely scattered points from Great Lakes Plain and Southern Tier to upper Hudson and Champlain Valleys. Seven cattle killed by lightning near Malone and barn destroyed by fire at Chateaugay, Franklin County; two barns destroyed at Phary, Clinton County with loss of hay and 2 pigs. Wind ripped and collapsed livestock tent at County Fair, Canandaigua but no injuries. Machine shed destroyed and home damaged by lightning-caused fires in Rochester area; 6 homes sustained light damage from bolts in Elmira area as lightning-caused power failures forced closure of two major industries. Seven cows killed by bolt at Pratterville, Greene County. Scattered property damage from falling limbs, power failures and some fires in Glens Falls, Schoenectady and Troy areas as hail reported at East Greenbush, all in upper Hudson Valley.
Hudson River Valley	19	early p.m.					5		Electrical, wind
									Breaking a five-day heat wave a cold front set off damaging thunderstorms in the Hudson Valley. Wind and lightning downed limbs, trees and utility lines over wide areas of Albany, Rensselaer and Washington Counties. More than a dozen homes and small buildings struck by lightning in Troy, Waterford, Watervliet, Oplonie and Cohoes, one was destroyed by fires, others light to moderate damage. Homes near Farmington, Westchester County and large barn with contents at Pine Plains, Dutchess County destroyed by lightning fires. Winds downed many trees and limbs in north sections of Schoenectady and demolished barn near Warwick, Orange County. Power failures and minor lightning fires reported in Putnam County.
Hohawk Valley	22	late p.m.					4		Electrical
									Lightning-caused fires destroyed lumber yard storage shed at Taberg and dairy barn at Remsen, both in Oneida County, with loss of lumber, hay and other contents. Lightning strikes caused scattered power and telephone failures in Rome area and also in several communities of Fulton County. Home heavily damaged by lightning fire in Saratoga County.
Chautauqua and Niagara Counties	24	early a.m.					4		Electrical, wind
									Early morning thunderstorms caused scattered damage in areas near Lake Erie. Dairy barn gutted by lightning fire at Lockport, Niagara County. Winds felled large tent at County Fairgrounds as tree blown over in cemetery damaged many tombstones at Dunkirk, Chautauqua County; widespread power failures in Dunkirk area.
Staten Island	24	afternoon					5		Rain, wind
									Very heavy cloudburst yielded near 2.0 inches of rain within 30 minutes between approximately 1:00 and 2:00 p.m. Total precipitation for storm 3.5 to 4.0 inches in Borough of Richmond with unofficial measurement of 4.55 inches. Amounts decreased to about 2.0 inches in Manhattan, Brooklyn and Queens. Extensive flooding of major highways, streets, basements and all low lying areas occurred. Many telephone cables knocked out. Gusting winds downed some utility lines and capsized several pleasure boats at marina.
North Carolina Yadkin County	2	2:00pm	short narrow	0	0	4	3		Small tornado
									Home and feed barn damaged by funnel described as looking like a tall column of black smoke. Rain before and during storm. Corn crop blown down, several trees broken off or uprooted.
Bladen, Columbus, Duplin, Durham, Edgecombe, Franklin, Gaston, Granville, Halifax, Hoke, Wake, Wilson Counties	3	2-6 pm					5	6	Hail, wind, electrical
									Hail damaged tobacco, corn and cotton crops ten different areas. Wind damaged several buildings. Lightning caused power and telephone failure.
Southeast Coast	3,4 & 5						0	0	Waterspouts
									At least seven funnels reported in three days by fishermen off coast Wilmington-Southport area.
North Carolina (continued)									
Bladen, Columbus and Dare Counties	4	Late aftn			1	1	0	4	Electrical, hail
									Two fishermen, brothers, struck by lightning on beach at Hatteras. One died in hospital as a result. Hail hit crops in Bladen and Columbus County again.
Duplin and Sampson Counties	10	Late aftn					0	4	Hail
									Tobacco damaged up to 50% two areas.
New Hanover County	11	6:50 am					0	0	Waterspout
									Funnel observed offshore from Wrightsville Beach.
Albemarle Sound	11	2:55 pm					0	0	Waterspout
									Funnel reported by pilot 20 mi. SSE of Elizabeth City
Craven County	12	2:00 am	short narrow	0	0	5	0		Small Tornado
									Mobile home demolished, several buildings badly damaged; trees and power lines knocked down. Loud roaring sound reported by several people in area. Only light winds at nearby airport.
Bladen and Robeson Counties	15	5:30 pm					0	4	Hail, wind
									Tobacco in fields damaged two areas.
Scotland County	16	8:30 pm					0	0	Hail
									Tobacco damaged in fields over a 2 sq. mi. area.
Durham, Harnett and Randolph Counties	17	Afternoon			1	0	4	5	Electrical, hail, wind
									Youth killed by lightning while working on farm in Harnett County. Hail and wind damaged crops several areas. Lightning struck and burned large home.
Alamance, Alleghany, Anson, Caswell, Catawba, Cumberland, Davidson, Granville, Iredell, Nash, Richmond, Robeson, Stokes, Wake and Wayne Counties	18	Aftn & evening			0	2	5	5	Hail, wind, electrical
									Two golfers struck by lightning and injured in Wake County. Ten hogs killed under tree in Davidson County. Numerous cases of buildings damaged by wind and lightning. Hail hit crops, mostly tobacco, in at least seven areas.
Albemarle, Alexander, Harnett, Iredell, Montgomery, Randolph Counties	19	Aftn & evening					4	4	Hail, wind, electrical, rain
									Several widely separated areas with trees blown down, roofs damaged by high winds. Lightning caused fires and disrupted telephone service. Hail and rain damaged crops.
Carteret, Granville and Wake Counties	26	4 - 8 pm					4	4	Hail, electrical
									Tobacco crop damaged by hail in Granville and Wake Counties. Several homes and business buildings hit by lightning in Carteret.
Wake County	27	8:40 pm			1	0	3	0	Electrical
									Nine year old boy killed by lightning while in bed at home in Raleigh. A younger child in same bed not injured.
Carteret, Columbus, and Onslow Counties	29	Aftn & night					4	0	Wind, rain, electrical
									Two homes burned in widely separated areas. Rain caused flash flooding. Wind broke tree limbs, caused minor structural damage.
North Dakota									
Walhalla	1	Early AM			0	0	4	0	Rain, wind
									14,000 9-week old turkeys smothered after piling up during a wind and rain storm.
Northwest & North Central North Dakota	7	Late afternoon & evening			0	0	5	5	Tornado, hail, wind
									Locally severe thunderstorms beginning in extreme northwestern North Dakota moved parallel to the Canadian border into North-Central North Dakota causing widespread crop and property damage over an extensive area, but principally in area north and east of Kenmare. Tornado caused widespread damage at Antler Park uprooting numerous trees and damaging buildings. Windstorm destroyed airplane hanger at Stanley. Mothball and larger size hail destroyed crops in Sherwood-Antler area while strong winds toppled many barns and granaries in some areas.
McKenzie & Mountrail Counties	16	2-4 AM	100 25 Mi	0	0	5	5		Hail, wind
									Storm starting at western edge of county swept eastward into Mountrail County. 80 mph winds ripped roof from house 10 miles south of Arnegard and 5 barns blown down in area south of Stanley. Many small buildings and steel grain bins in path of storm were damaged or destroyed. Utility lines damaged when poles broken off disrupting power and telephone service. 30-50% crop damage from hail in area from Montana border eastward to Arnegard area.
Adams, Walsh County	16	8:30 AM			0	0	0	0	Tornado
									Tornado touched ground briefly just east of Adams. Two funnel clouds were apparently produced by some cloud in Forest River area.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
North Dakota (continued)									
Harvey area	16	Morning			0	0			Funnel clouds
									Trail crew and others reported small funnels in low clouds near Harvey.
Renville & Bottineau Counties	16	Morning			0	0	4	?	Wind
									70 mph winds in thunderstorm moving along Canadian border destroyed 2 barns in Antler area. Many large trees downed in Westhope and Bottineau. In Metigoshe State Park 40-50 trees were blown down, boats swamped, docks damaged and tents blown down with damage to tents and a car.
North Central - Central North Dakota	19-20	9:30 PM - 3:30 AM	160	2-3 Mi	0	0	?	5	Hail
									Several strips of hail fell in area from north of Donnellybrook southward to near Carrington. Many areas 100% crop damage particularly in area of Carpio, Donnellybrook, Fessenden and Carrington. Hail size of oranges fell near Burlington about 9:30 PM and research plots at Carrington Irrigation station heavily damaged by hail.
Walsh County	22	Afternoon	10	4 Mi	0	0	0	4	Hail, funnel clouds
									Heavy hail damaged crops in area from Cashel east to the Red River. Several reports of sightings of funnel clouds.
Hettinger County	22	Evening	35		0	0	0	5	Hail
									Southeastward moving thunderstorm produced hail which cut a path from northwest of New England to Regent and then south of Mott producing areas of 100% crop damage.
Burleigh County	26	11:00 AM	25	2 1/2	0	0	0	5	Hail
									Hailstorm produced 100% crop damage and 1 1/2 inch hailstones in a curving strip from southeast of Baldwin to north of Menoken and McKenzie. Storm moved from NW to SE.
Emmons & Logan County	26	Late afternoon	40		0	0	?	5	Hail
									Southeastward moving storm left swath of damage several miles from near the Missouri River northwest of Hazelton, through the St. Michael area, northeast of Linton, then eastward into Logan County. 50 to 60 farms were hit with damage ranging from total loss to a few percent.
Ohio									
Eastern Third of State	1	4:00-8:00p			1	1	4		Electrical, wind, hail, and rain
									A farmer was killed and a boy injured by a bolt of lightning when a vicious thunderstorm swept through the north central section of Trumbull County. The storm was accompanied by heavy rain, wind, marble size hail and lightning which knocked out electric power to consumers in scattered areas. Youngstown was hit by wind gusts up to 70 mph. Numerous trees were downed and several homes had their utilities disrupted by the storm. Similar storms struck Coshocton and Caldwell. One inch hail was reported near Zanesville.
Clinton and Lawrence Counties	10	Evening			0	0	4		Electrical, wind
									A lightning set fire destroyed a new \$10,000 cabin at Cowan State Park (Clinton County). Several trees were downed by winds or lightning in Ironton. Heavy rains of up to 1.5 inches flooded many Ironton streets. Winds tore portions of a roof from a greenhouse and home. Power outages were common in the Ironton area.
Cincinnati Area, Hamilton County	11				0		1		Electrical
									A Cincinnati area man saved the life of a fellow golfer who was struck by lightning by giving the man mouth to mouth resuscitation.
Ripley, Brown County	12	4:00-5:00p			0	0	0	5	C Electrical
									Ripley's largest tobacco warehouse was totally destroyed by a lightning set fire. Damages have been set at \$250,000. Heat from the fire wilted the tobacco in a patch 200 yards south of the fire site.
Niles Area, Trumbull County	14	Afternoon			0	3	4		Electrical
									Three members of a family were injured when they were felled by a bolt of lightning. Three homes in Niles were also damaged by lightning set fires.
Jackson Area, Jackson County	15	11:21a							Funnel aloft
									A pilot reported seeing a funnel cloud about 5 miles northwest of Jackson. The funnel was not observed touching the ground.
Cincinnati and Cleveland Areas	15	Evening			0	5	5		Electrical, wind, and rain
									Four men were injured as lightning struck them after they took shelter from an electrical storm beneath a
Ohio (continued)									
									tree on a Cincinnati area golf course. A three alarm, lightning induced fire, was reported near the University of Cincinnati. Trees and wires were downed throughout the Cincinnati Metropolitan area. A Cleveland youth was hit by lightning as he walked through a park. More than 200 Cleveland homes were without power and several others were flooded when a severe electrical and rain storm struck the Cleveland area.
Scattered Areas	16	Afternoon			0	1	4		Rain and electrical
									A small airplane crashed in Seneca County when the pilot attempted to land in order to get out of a heavy rain-storm. One person was injured in the crash. Lightning caused extensive damage to 3 homes in the New Philadelphia area. Six hereford cows were struck and killed by a lightning bolt on a farm near Dover.
Northeast Areas	17	2:30-8:00a			1	0	5		Rain, flash flooding, and electrical
									Torrential rains of 3 to 6 inches battered most of Cuyahoga and portions of Geauga, Medina, Portage, and Summit Counties causing widespread flooding and utility outages. Many motorists were forced to abandon their vehicles due to flooding of streets and roads. Thousands of home owners had flooded basements. Flood damage in the Cleveland suburbs was heaviest in Garfield Heights, Cuyahoga Heights, Seven Hills, Shaker Heights, and Euclid. Hinkley (Medina County) received 6.10 inches of rain from the storm. In Medina County, a 17-year-old boy drowned when caught in the swollen waters of Rocky River. In Wickliffe (Lake County), fire department officials reported 5 calls involving lightning. Of the numerous lightning strikes, the most serious was at the Cuyahoga Heights Village Hall where a 40-foot chimney sustained damages of \$10,000.
Derby, Pickaway County	18	8:30p							Funnel aloft
									The Pickaway County Sheriff reported a funnel aloft over Derby. At 8:38p some minor wind damage occurred on Route 316 between Darbyville and South Bloomfield. No evidence of cyclonic motion was found.
Entire State	22	Afternoon			1	2	0	5	C Electrical, wind, and hail
									An Elyria man was struck by lightning and killed while loading baled hay on his Lorain County farm. A 12-year-old girl was injured when strong winds blew out a large glass pane at the Port Columbus airport. Strong winds moved through a 1 by 2 mile area in southeastern Clark County downing several trees and utility lines; damaging 6 homes, a nursery, and several farm buildings. An Elyria boy was struck by lightning while talking on the telephone and required hospital treatment. Winds of up to 60 mph blew off part of United Airlines' freight terminal roof in Cleveland. A severe electrical storm that hit the Jackson-Vinton County area did extensive damage in the Hamden area where a barn and its contents were completely destroyed and 2 homes damaged. Hail of up to 1 inch in diameter fell for about one-half hour in an area approximately 2 miles wide and 2 miles long just south of Delphos (Allen County). The hail caused extensive damage to farmers' crops and broke windows in several homes. A very destructive hailstorm struck the area between Wilmot and Beach City in Stark County. The storm left many fields of corn and standing grain ruined. Extensive damage was done to a tomato greenhouse which has 2 acres under glass. More than 10,000 panes of glass were broken. Several other communities reported downed trees and utility lines and minor lightning strikes.
Columbus Area, Franklin County	27	4:45p							Funnel aloft
									A funnel cloud which was not observed touching ground was sighted near the east edge of Reynoldsburg, a Columbus suburb.
Ottawa Area, Putnam County	27	4:55p							Funnel aloft
									A funnel cloud aloft was sighted about 3 mile east of Ottawa (15 miles west of Findlay) but was not observed touching the ground.
Hallsville, Ross County	27	Afternoon							Funnel aloft
									Circleville police received a report of a funnel cloud aloft near Hallsville along Route 180 in Ross County. The cloud was not observed touching ground.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Oklahoma Hughes, Pittsburg, and McIntosh Counties	1	2:45p.- 4:45p.	10	*25	0	0	7	1	Rain and wind
		A line of heavy thunderstorms moved southward across the counties with rains varying from 3.30 inches at Calvin to 3.43 inches at Hamra. Wind gusts up to 60 MPH were reported in the Indianola area about 3:50 p.m.							
Blackwell, Kay County	9	10:20a.	7	7	0	0	0	0	Wind
		Wind gusts were recorded up to 56 MPH at the west edge of the City. No damage was reported.							
Southern part, Kiowa County	14	5:00a.- 10:30a., 9:45p.	5	*5	0	0	4	0	Rain and electrical
		Hard rains of 4.40 inches at Mountain View and 3.42 inches at Snyder caused flooding along Otter Creek. Highway US62 was closed west of Snyder and flood water was from 6 inches to 2 feet deep in 20 homes at Mountain Park. Heaviest rain was indicated to the south of Mountain Park where unofficial reports ranged from 5.7 to 7.2 inches. One home was heavily damaged by fire about 9:45 p.m. when struck by lightning.							
Osage and Rogers Counties	27	5:00p.- 7:00p.			0	0	4	0	Electrical and wind
		Lightning struck a home in the 500 block of South Price in Hominy at about 5:45 p.m. with the resulting fire destroying the structure. High winds knocked out 50% of the electrical and telephone service at Hominy. Wind also downed a 1/2-mile stretch of electrical lines between Watova and Talala in Rogers County where traffic was backed up on US169 for several miles.							
Tulsa, Tulsa County	28	About 9:20a.			0	0	4	0	Electrical
		Lightning was believed to be the cause of the fire which nearly destroyed a two-story residence and its contents in the 12100 block of East 41st Street.							
Roosevelt, near, Kiowa County	28	6:00p.	1	200	0	0	0	1	Hail
		Hail averaging 1-inch size damaged 35 acres of cotton along a path 3 miles west and 1 mile south of Roosevelt.							
Washita County	28	9:15p.			0	0	4	0	Electrical
		Lightning struck a service station along SH52 about 3 miles east of the border in the western part of the county. The resulting fire consumed the station.							
Oregon Statewide mountain areas	5-7	Mostly PM			0	0	5	3	Lightning
		Afternoon thunderstorms, mostly in mountains though some crop areas hit, started scores of small forest and grassland fires. Eight of these were in excess of 200 acres and two were between 3,500 and 5,000 acres each. One home was completely destroyed by a lightning set fire and several homes and other buildings were damaged.							
Grande Ronde Valley in Union County	19	Afternoon			0	0	3	4	Wind
		High winds moved through Grande Ronde Valley just as swathing of grass seed crops had been completed. Winds badly scattered large acreages of grass. Much of it can not be recovered and even more will be greatly lowered in value by the mixing of different varieties. Several recently planted fields will need be replowed and replanted due to the scattering of other varieties of seed over them, thus lowering their quality when seed is harvested.							
Pacific Wake Island	6	5:18 p.- 5:20 p.			0	0	0	0	Funnel cloud
		Sighted (from FAA tower) moving westward at unknown speed about 8 miles northwest of station. Funnel extended about 100 feet below towering cumulus with dark base at 2000 feet, height of top unknown. Many cumulonimbus and cumulus clouds in vicinity but no showers observed. Surface wind at Wake Island east 9 miles an hour.							
Kwajalein	12	6:23 p.- 6:28 p.	?	?	0	0	0	0	Waterspout
		Waterspout descended from leading edge of rapidly developing towering cumulus 3 miles east of station. Top about 12,000 feet, base 1,400 feet, with light to moderate rain shower. Spout, which moved towards SW, produced light to moderate spray at sea surface, and disappeared when cumulus top reached 15,000 feet and heavy rain showers began. Surface wind at Kwajalein north 14 miles an hour.							
Pennsylvania North-Western Counties	1	6:00 P					3		Thunderstorms
		Trees and power lines downed by strong winds.							
Pennsylvania (continued)									
St. Marys	1	Evening					3		Thunderstorm
		Porch and part of roof damaged as uprooted tree fell on house. Also, metal awning blown off house.							
Lawrence County	1	4:00 P				1	4		Thunderstorm
		Woman injured by tin blown from roof. Also, lightning fired and extensively damaged a home.							
Venango County	1	5:00 P					2		Thunderstorm
		Home struck by lightning that damaged wiring and roof damaged as chimney blown off.							
Rimersburg	1	Night					3		Thunderstorm
		Fallen trees damaged four house roofs.							
St. Marys	6	Early Morning					3		Wind
		Wind knocked tree limb down which damaged roof and wiring of home.							
Newville	6	1:00 P					3		Wind
		Wind ripped off metal roofing of a church.							
Latrobe	11	Evening					3		Thunderstorm
		Lightning struck attic of home with damage confined to attic.							
Beaver Falls	11	Early Evening					2		Thunderstorm
		Lightning caused minor damage to home. Also, a chimney of another home damaged by lightning.							
Johnstown	12	6:00 P					2		Thunderstorm
		Power failure throughout area as well as phone service interrupted due to wind and lightning. Some basements flooded due to heavy rain.							
Spring Lake	13	5:15 P					2		Lightning
		Lightning fired barn but damage light.							
South Wilkes-Barre Area	13	5:25 P					4		Thunderstorm
		Wind blew limb on car causing \$100 damage. Also, a fallen tree and transformer demolished an auto. Strong winds also produced serious damage and broken windows in the area. One chimney was struck by lightning and local street flooding occurred due to heavy rain.							
Friendens	14	6:00 P					4		Lightning
		Lightning fired barn causing a \$10,000 loss.							
Stewartstown	14	3:00 P					4		Lightning
		Lightning fired a barn completely destroying it and its contents which included 4 hogs at a \$6,000 loss.							
Grove City	14	Early Afternoon					4		Lightning
		Lightning fired and destroyed a barn and some sheep with a resultant loss of \$30,000.							
Greenville	14	Early Afternoon					2		Lightning
		Lightning damaged electrical system of home.							
Selinsgrove	15	Noon					4		Lightning
		Lightning fired and completely destroyed a barn with 2 heifers and 1 bull killed in fire.							
Modena	15	6:30 P					4		Lightning
		Lightning fired house with considerable smoke and water damage. Another home struck by lightning with only smoke damage.							
Berwick	15	3:55 P					2		Lightning
		Lightning struck a home causing \$175 damage.							
Harman	16	3:30 P					3		Lightning
		Lightning struck attic of home and caused \$2,000 damage.							
Pottsville	17	Afternoon					5		Thunderstorm
		Swollen creek caused by downpour resulted in considerable water damage to local bank basement.							
Sunbury Area	17	Evening					3		Lightning
		Lightning fired barn with \$400 damage. Lightning also struck a home damaging electrical appliances.							

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
Pennsylvania (continued)										
Schuylkill County	17	Afternoon				1			Lightning	
		Girl slightly injured when struck by lightning.								
Corry	18	Afternoon					4		Lightning	
		Lightning fired a barn with a \$15,000 loss.								
Sections of Lehigh Valley	19	2:00 P					5		Thunderstorm	
		Roofs blown off four houses and many basements flooded by heavy rain. Several autos damaged by felled trees. Three Holstein cows killed by lightning with \$1350 loss and lightning also did extensive damage to power transformer. A home was also struck by lightning with \$100 damage. Pottsville industries suffered a significant loss due to power failures and flooding.								
Jonestown	19	2:30 P					4		Lightning	
		Lightning fired and destroyed a barn and four head of cattle with a \$40,000 loss.								
Burlington	19	2:00 P					2		Lightning	
		Lightning struck home damaging the attic and electrical appliances								
Lancaster County	19	3:00 P					3	2	Thunderstorm	
		Farm damaged by small "twister". Some corn fields flattened by severe rainstorm and lightning fired a barn roof.								
Lebanon	19	Afternoon					4		Lightning	
		\$25,000 loss when lightning fired barn.								
Shenandoah	19	Afternoon					3		Lightning	
		Lightning set fire to barn with roof and side charred and also struck a store causing considerable damage.								
Monroe County	19	Afternoon					4		Thunderstorm	
		High winds unroofed motel unit with several thousand dollars damage. Also, lawn furniture from resorts and private homes blown away. Lightning fired a summer home with \$2,500 damage.								
Lancaster	21	Evening					4		Lightning	
		Lightning fired and destroyed a barn.								
Upper Burrell	22	Evening					4		Lightning	
		Barn a total loss from fire when struck by lightning.								
Carlisle	22	9:00 P					3		Thunderstorm	
		Huge portion of tin barn roof peeled off and short circuit resulted as it landed on power lines. Two other barn roofs and six other roofs damaged by winds. Lightning fired house resulting in considerable damage to attic and laundry room.								
Ridgway	22	4:30 P				2	4		Thunderstorm	
		Strong winds split business establishment window and flying glass caused minor injuries to two persons. Strong winds also tore temporary roof off home and water damage was considerable. Many other homes suffered water damage from heavy rainfall. Power transformers hit and burned out by lightning.								
Beaver Falls	22	4:00 P				3	4		Thunderstorm	
		A 50 x 120 foot section of tin roof ripped off school with considerable water damage to interior. Power, telephone and TV cable lines downed by strong winds. One shed overturned and dugouts practically demolished at local field with three boys slightly injured. A car sustained \$150 damage when struck by tree limb and lightning damaged roof of home.								
Latrobe	23	Night					3		Wind	
		House trailer overturned.								
Manheim	23	Evening					5		Wind	
		Wind unroofed 7 houses and collapsed a wall on 5 autos with \$10,000 damage. Wind also caused \$1500 damage to two garage doors. Wind completely destroyed one plane, damaged several others, and caused damage to the hangar at the airport with \$10,000 to \$15,000 damage estimate. A local park sustained \$10,000 wind damage to trees and blew scaffolding through several school windows. A tree felled by the wind crushed the top of an auto.								
Ellwood City	24	Afternoon					3		Lightning	
		Expensive radio equipment burned out by lightning.								
New Castle	24	5:10 P					2		Lightning	
		Lightning hit transformer with \$50 damage and also struck the electrical system of home.								
Andalusia	24	10:38 P					3		Lightning	
		Lightning fired barn.								
Pennsylvania (continued)										
Clearfield	24	1:45 P					1	4	Lightning	
		Home fired by lightning and burned to ground. The only occupant was seriously injured in fire and the loss was set at \$8,000.								
Norristown	24	4:20 P						4	Lightning	
		Lightning struck kitchen area of home causing several thousand dollars damage. Two other homes were struck by lightning with only minor damage. A tree struck by lightning fell demolishing an auto. Lightning also extensively damaged a swim club house and many power lines.								
Norristown	24	7:40 P						3	Lightning	
		Lightning fired home in which dining room section was destroyed with other sections sustaining extensive smoke damage.								
Philadelphia	24	6:30 P					1	3	Thunderstorm	
		Man injured when struck by lightning. Basements and streets flooded due to heavy rainfall. Wind and lightning caused widespread power failures.								
Bucks County	24	Evening						3	Lightning	
		Lightning destroyed a barn.								
Tyronville	24	Morning						5	Tornado	
		The strong winds moved a house slightly on its foundation causing ceilings to buckle and windows to break - extensive damage. A large tree caused extensive damage when it fell against a home. The front porch of a nearby home was blown off. Apple orchard was flattened and the roof ripped off a barn. Some small out buildings were also destroyed.								
West Chester	24	10:10 P						4	Lightning	
		Fire caused by lightning damaged a house to the extent of \$10,000.								
Puerto Rico	15	1:00 p. - 4:00 p.				1	0	5	0	Heavy rains
Mayaguez		Intense rain showers concentrated in the higher plateau area above the city of Mayaguez caused the Yaguez river to flood with the highest stage and discharge in 35 years. The lower reaches of Rio Rosario a few miles south of Mayaguez also flooded. The body of one person was found presumably drowned in the flash floods in the Estero River, Guanajibo district. Approximately 23 businesses and 85 homes were flooded. Worst hit sections were the India Brewery, Insular Feed Factory and the Cooperative Supermarket where flood waters were measured over four feet high. By 5:00 PM the flood waters had subsided and the Yaguez was back in its normal course.								
Rhode Island									None reported	
South Carolina										
Anderson County	4	3:00 p.				0	0	4	0	Windstorm and lightning
		High winds damaged one home, a few trees and a marina on the eastern shore of Lake Hartwell about 7 miles west of Anderson. In the same general area, a large residence was destroyed by fire which was set by lightning.								
Georgetown County	6	6:30 a.				0	0	0	0	Waterspout
		A waterspout was sighted about ten miles offshore at Pawleys Island and was watched for 30 minutes by a group of early morning surfers.								
Horry County	12	12:00 n.				0	0	0	0	Funnel cloud
		A funnel cloud was sighted by a pilot a short distance west of the Myrtle Beach airport.								
Darlington and Dillon Counties	17	Afternoon Evening				0	0	4	0	Hailstorm and high winds
		High winds and hail did extensive damage to a mature tobacco crop in various parts of two counties. One field, which was ready to be harvested, was completely destroyed.								
Greenville and Laurens Counties	28	2:00 p.				0	0	4	0	Windstorm
		High winds felled several trees and large limbs, some of which fell on and damaged power lines, houses and automobiles. Damage was spotty but was spread over a large part of two counties.								

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
South Dakota 25 NE Chamberlain	3	About 5:00 p.							Funnel cloud aloft
Beadle, SW Kingsbury and NW Miner Counties	3	5:30-6:30 p.	14	*2	0	0	3	4	Hail
		Hail averaged 1 inch with largest up to 2 inches. Damage to crops was up to 100% in area. Some damage to roofs was reported. Storm moved from NW to SE. The main damage occurred in the Iroquois - Carthage area with some 1 inch hail reported at Huron.							
2 N Parker, Turner County	6	About 1:30 p.							Funnel cloud aloft
Sioux Falls vicinity Minnehaha County	11	About 3:45 p.							Hail
		Hail of about 1 inch fell in area but no reported damage.							
Near Milbank, Grant County	12	5:45 p.			0	0	0	0	Tornado
		Small funnel cloud touched down briefly causing only tree damage.							
10-20 SSE Aberdeen	13	2:34 p.							Funnel cloud aloft
Clark County	13, 14	5:30p-6:00p, 4:30a-5:00p	30	*2	0	0	4	5	Hail and wind
		Two storms moved across the central part of the county from SW to NE causing extensive damage to crops and some damage to buildings. Hail ranged from marble to hen egg size.							
6 N Flandreau	13	8:40 p.							Funnel cloud aloft
		Cloud moved from SW to NE.							
25 NW Pierre, Stanley County	16	2:38 p.							Funnel cloud aloft
35 SW Pierre, Jones County	16	3:00 p.							Funnel cloud aloft
28 NNW Aberdeen, McPherson County	16	3:36 p.			0	0	0	0	Tornado
		Apparently tornado touched in open country with no reported damage.							
Near Yankton, Yankton County	16	8:30 p.							Hail
		Hail of 1 3/4 inch apparently fell for brief period with no reported damage.							
7 SE Sioux Falls, Turner County	16	8:45 p.							Funnel cloud aloft
Central Harding and central Perkins Counties	17	4:00-6:00 p.	100	*2-4	0	0	4	5	Hail, wind, heavy rain
		Hail averaged 3/4" with largest to 1 1/2" covered ground up to 6 inches in some areas. The hail along with strong winds caused extensive damage to crops. Heavy rain of up to 6 inches was reported. The rain washed the hail into deep drifts. The storm moved from NW to SE. Cloud seeding for hail suppression was conducted during the storm in this area.							
Avon-Tyndall area Bon Homme County	17	10:00-10:30 p.	8	*1	0	0	4	4	Hail and wind
		Hail averaging 1/2 inch and wind caused about \$6,000 damage to crops and about \$9,000 damage to property. Storm moved from NW to SE.							
SE Meade and SW Haakon Counties	22	7:00-7:40 p.	20	*1-2			3	5	Hail and wind
		Hail averaged 3/4 inch with largest to 1 1/2 inch damaged crops and pastures. Hail path extended about 20 miles NE from about 3 miles NW of Wall. Storm moved from SW to NE.							
4 W Doland	23	3:00 a.			0	0	4	0	Lightning
		A fire caused by lightning destroyed a new \$10,000 home.							
Pierre	25	6:31 p.			0	0	0	0	Hail
		Hail mostly pea size with a few 2 inches fell briefly with no reported damage.							
Farmer - Spencer area E Hanson and W McCook Counties	25	8:00 p.	15	*4	0	0	4	5	Hail and wind
		Large hail and wind caused extensive damage to crops with some damage to buildings.							
Wilnot area, SE Roberts County	26	6:30-7:00 p.	8	*2	0	0	4	5	Hail, wind and heavy rain
		Marble size hail driven by strong winds caused considerable crop damage and some building damage in area.							
South Dakota (continued)									
Cresbard area, NE Faulk County	26	6:30-7:00 p.	10	2	0	0	4	5	Hail and wind
		Wind driven hail averaging 1/2 inch caused 100% damage to crops in 1/3 of area with lesser amount in remainder of area. Buildings were also damaged by the hail.							
Ashton-Frankfort area S Spink County	26	7:00-8:00 p.	8	*3	0	0	4	5	Hail and lightning
		Hail up to golf ball size caused considerable damage to crops. Fire caused by lightning destroyed 4 homes.							
Tyndall area	29	3:10-4:20 p.	15	*1 1/2	0	0	4	5	Hail
		Hail averaging 1 1/2 inch with largest to 3 inches caused an estimated damage of \$75,000 to crops and \$20,000 to buildings. Storm moved from NW to SE.							
Armour-Delmont area E Douglas County	30	2:00-2:30 p.	8	*1-2	0	0	4	5	Hail and heavy rain
		Hail up to hen egg size caused extensive damage to crops and some damage to buildings. The heavy rain washed out many fields and roads.							
Tennessee Memphis, Shelby County	1	1:30 a.			0	0	4	0	Lightning
		Lightning-set fire heavily damaged two-story brick house. Lightning apparently struck air-conditioner and travelled through the wiring in the walls. Losses to the house and contents estimated at \$50,000.							
Nashville, Davidson County	1	9:47 p.			0	0	5	0	Wind, rain, hail
		Thunderstorm winds to 55 mph heavily damaged twelve private airplanes at Nashville Metropolitan Airport. Some trees and many limbs were downed by wind and heavy rain in the area. The hail was small and not damaging. Property damage to airplanes was estimated at \$50,000.							
Chattanooga, Hamilton County	2	1:00 a.			0	0	4	0	Windstorm
		Strong gusty winds during a thunderstorm caused scattered damage from windows blown out, limbs broken, trees downed across streets and power lines knocked down.							
Cooke County	2	a.m.			0	0	4	0	Lightning
		Lightning-set fire burned two large barns and damaged a house near Newport.							
Coffee County	2	p.m.			0	0	4	0	Lightning, wind
		One house and a barn were damaged by lightning strikes. A second barn was blown down by strong winds.							
McMinnville, Warren County	15	4:30 p.	?	?	0	0	0	0	Hail
		Small hailstones. No damage reported.							
Dyersburg, Dyer County	15	5:30 p.			0	0	4	?	Wind, rain hail
		High winds overturned house trailer, disrupted power and telephone service. Hail damaged field corn near Dyersburg.							
Petros, Morgan County	15	p.m.			0	2	0	0	Lightning
		Two boys were injured when lightning struck their home.							
Elizabethton Carter County	16	p.m.			1	0	0	0	Lightning
		Victim was struck while carrying wood for cook stove.							
Lewisburg, Marshall County	16	p.m.			0	0	3	0	Wind, lightning
		Power lines and roofs damaged by wind and lightning. Severe thunderstorms, with strong winds, hit several other nearby communities.							
Shelbyville, Bedford County	16	3:00 p.			0	0	4	0	Wind, lightning
		Several buildings damaged by strong winds in the center of town. Hardest hit was the south side of the square, where several store windows were shattered and roofs damaged.							
Shelbyville, Bedford County	17	4:00 p.			0	0	4	0	Wind, rain, lightning
		Severe thunderstorms with strong winds to 55 mph damaged roofs, awnings, store windows and trees. Rainfall totaled 2.50 inches over the City, flooded streets and entered some buildings. Lightning damaged power and telephone lines.							
Statesville, Wilson County	19	3:00 p.	?	?	0	0	0	?	Hail
		Hailstones to 3/8 inch diameter damaged mainly flowers and some tobacco.							

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Tennessee (continued)									
Paris, Henry County	19	p.m.	?	?	0	0	0	0	Hail
									Small hailstones. No damage reported.
Crossville, Cumberland County	22	9:30 a.							Funnel cloud aloft
									Funnel cloud sighted 25 miles north-northeast of Crossville.
Knoxville, Knox County	22	7:00 p.			0	0	6	0	Lightning, wind-storm
									Fire, believed to have been caused by lightning, heavily damaged hardware and lumber company in west Knoxville. Storm disrupted power service to a number of places in the City.
Bristol, Sullivan County	22	6:00 p.			0	0	4	0	Wind, lightning
									At scattered locations, high wind blew down trees and utility lines and inflicted other damage. Lightning strikes damaged other utility properties.
Clarksville, Montgomery County	23	p.m.	?	?	0	0	0	0	Hail
									Small hailstones. No damage reported.
Dickson, Dickson County	27	5:25 p.							Funnel cloud aloft
									Sighted three miles south of Dickson by Highway Patrol.
Texas (continued)									
Burk Burnett Wichita Co.	1	1:10 a.	?	?	0	0	?	?	Hailstorm
									Hailstones one and three fourths inches in diameter were reported in the area of Burk Burnett. No damage was reported.
3E Corpus Christi Nueces Co.	2	5:50 a.							Funnel aloft
5N Levelland Hockley Co.	2	2:58 p-3:18							Two funnels aloft
									Two funnels aloft dissipated after about 20 minutes without touching ground.
Vicinity Reese AFB Hockley Co.	2	3:01 p							Funnel aloft
									Funnel cloud observed west of Reese AFB moving west-northwest.
20NW College Station Robertson Co.	2	5:25 p							Funnel aloft
23W Houston Fort Bend Co.	2	5:25 p							Funnel aloft
Houston Harris Co.	2	6:30 p							Funnel aloft
									Five miles southwest of downtown Houston.
5SE Corpus Christi Nueces Co.	4	12:55 p							Funnel aloft
El Paso El Paso Co.	4-7				0	0	5	0	Flooding
									Heavy rains totaling 4.34 inches from the third to the sixth resulted in extensive flooding of El Paso and the surrounding area from the fourth through the seventh. A total of 2.97 inches fell in the two-day period, from the fifth through the sixth. Total property damage was estimated at \$285,000. There was no loss of life on the United States side of the Rio Grande. In Juarez, the storms claimed four lives, one a victim of a lightning bolt. Property losses in Juarez were estimated at one million pesos (about \$80,000 U. S.). In El Paso the heavy rains caused extensive property damage, disrupted traffic, and sent numerous families fleeing from their homes. Hardest hit were residences in southeast El Paso and the Lower Valley section. Some families in Thomas Manor and Clardy Fox additions and areas along Overland Avenue and Alameda Avenue were evacuated. About 50 residences were severely damaged. Damage was especially severe in the Montview Court neighborhood of East El Paso. Water entered about 98 homes. Damage to residences was estimated at \$100,000. Homes of adobe construction collapsed. Damage to industrial and commercial property was estimated at \$15,000; public property, \$50,000; farm property, \$20,000; and all other, \$100,000.
S Valentine Presidio Co.	5	12:00 a			2	0	?	0	Flooding
									Two teen-agers, Janice Fay Cox, 16, and her brother, Billy Cox, 14, were drowned as they were swept away in a flash flood in a draw on a ranch road about five miles south of Valentine. Mrs. W. G. Cox was able to cling to a mesquite bush at the low-water crossing until rescued. The bodies of Janice Fay and Billy were found more than two miles down stream.
6SW Anarillo Randall Co.	7	3:15 p							Funnel aloft
N Hale Center Hale Co.	7	10:45 p	?	?	0	0	?	?	Hailstorm
									Hailstones one-half inch to one inch in diameter smashed window panes and damaged automobiles in an area north of Hale Center in Hale County.
Presidio Presidio Co.	7		?	?	0	0	5	5	Flooding
									The Rio Grande, swollen by heavy rains west of Presidio, overflowed its banks at Presidio causing \$200,000 damage to property, \$300,000 damage to crops, and \$5000 damage to livestock on the United States side of the river. Damage was thought to be heavier on the Mexico side. The river crested at more than 15 feet compared to its normal depth of about four feet. Crop damage was to cantaloupes. About two-thirds of the total crop had been harvested before the flood. Only 0.12 inches of rain fell at Presidio on the sixth, and 1.05 inches on the seventh.
Texas (continued)									
LN Holland Bell Co.	8	2:15 p-3:00 p	6	#2	0	0	3	4	Windstorm, hail
									Thunderstorm winds with gusts estimated at 75 miles-per-hour destroyed two barns near Holland. The high winds and three-quarter inch (diameter) hail caused an estimated \$10,000 damage to corn and maize in a 12 square mile area. The loss of the two barns was estimated at \$2000.
15E Victoria Victoria Co.	10	10:15 a							Funnel aloft
Near San Perlita Willacy Co.	10	11:12 a-11:20 a							Funnel aloft
8N Beeville Bee Co.	10	1:20 p							Funnel aloft
Galveston Bay Galveston Co.	11	7:17 a							Waterspout
Near Angleton Brazoria Co.	11	8:40 a							Funnel aloft
20W Dunas Hartley Co.	11	8:00 p							Funnel aloft
13NE Stratford Sherman Co.	11	10:30 p	**100	75	0	2	3	0	Windstorm
									Thunderstorm winds or possibly a tornado overturned a trailer house on the State Line Road northeast of Stratford. Two children in a family of seven were treated for cuts and bruises. Damage to the trailer house was estimated at \$4500.
Lake Sabine Jefferson Co.	12	8:30 a							Waterspout
16S George West Live Oak Co.	12	1:00 p							Funnel aloft
Lubbock Lubbock Co.	14	morning			0	0	5	0	Flooding
									A deluge of five inches or more of rain within three hours caused an estimated \$160,000 damage to residences, streets and parks in Lubbock. Some 80 homes, including 36 houses and 44 apartments sustained water damage. Park buildings were damaged severely and many trees were destroyed. Flood waters flowed four to five feet deep in some Lubbock streets. Many automobiles were damaged by flooding. Maxey and Clapp Parks sustained the heaviest flooding. Total weekend rainfall measured 5.28 inches at the KFIP transmitter at 82nd Street and Quaker; 4.74 inches on the Texas Tech campus and 0.95 at the U. S. Weather Bureau Airport Station.
Wellington and vicinity, Collingsworth Co.	14-15	11:30 p-2:30 a	14	*10	0	0	5	5	Flooding
									A deluge of 1.57 inches of rain, most of which fell within a three hour period severely damaged property in Wellington, and caused extensive damage to roads, crops and cropland in a 14-by-10 mile area surrounding the city. Damage to homes, furniture and automobiles in Wellington was estimated at \$200,000. Total property damage over the entire area was estimated at \$300,000. Twenty-seven houses were flooded in the northeast part of town. Twelve automobiles in this area suffered water damage. Much of the surrounding area had received heavy damage from torrential rains on May 31st. The additional rains on the 15th washed away crops, top soil, and damaged county bridges as well as roads. Crop damage was estimated at \$200,000. A 60-foot section of the dam on Atteberry Lake was washed out. A storm total of 1.57 inches was measured in Wellington; amounts may have exceeded this figure outside the city.
ZW Wheeler Wheeler Co.	15	?							Funnel aloft
Near Whitdeer Carson Co.	17	5:30 p-5:50 p	1/2	100	0	0	0	?	Tornado, two funnels aloft
									A tornado touched ground in a maize field near Whitdeer. The funnel remained stationary for about 15 minutes then moved northeastward at three to four miles-per-hour for about one-quarter of a mile, then turned northwestward and moved in this direction for about one-quarter of a mile before dissipating. Two other funnels in the area did not touch ground. There was no property damage. The tornado came out of the edge of the cloud; there was no wind or rain, and the sun was shining brightly. Preston Sargent, Carson County Deputy Sheriff followed the funnel at a distance of about 200 yards away.
Carson and Gray Counties	17	8:02 p	short narrow		0	0	0	0	Two tornadoes
									"bounced" along through open range land between White Deer and Pampa, and south of Pampa, but caused no damage. They were viewed by a number of witnesses.
6NW Shamrock Wheeler Co.	17	8:35 p-8:47 p	?	?	0	0	0	0	Tornado
									Tornado was on the ground about 12 minutes in open ranch country but did not cause any damage.
28NE Corpus Christi Nueces Co.	18	9:40 a-9:50 a							Funnel aloft
20N Houston Harris Co.	18	2:32 p							Funnel aloft

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS								KILLED	INJURED	PROPERTY	CROPS		
Texas (continued)											Virgin Islands										
Fort Hancock Hudspeth Co.	18	3:00 p- 4:30 p	10	*1	0	0	0	4		Hailstorm	None reported										
NASA - Webster area Harris Co.	19	9:34 a								3 funnels aloft	Virginia										
15 High Island Galveston Co.	19	4:07 p								Waterspout	Fairfax and Loudoun Counties										
3042W Lufkin Houston Co.	19	5:10 p								Funnels aloft	2 Late afternoon										
Near Orange Orange Co.	19	5:30 p	?	?	0	0	4	0		Windstorm	Hailstones up to 5 inches in diameter cracked windshields, dented cars, smashed through roofs, broke windows, damaged power lines, and other residential damage. An unknown amount of damage was also sustained by crops in the area. One of the baseball sized hailstones ripped through the cloth top of a convertible near Dranesville and cut the driver's scalp requiring 22 stitches to close the gash. A woman was treated for glass fragments in her eyes due to a broken windshield. Lightning apparently caused a \$70,000 damage fire to a 17 story apartment building.										
Nederland Jefferson Co.	23	4:00 a			0	1	0	0		Lightning	Highland, Rockbridge, Madison, Botetourt, Wise, Dickenson, Fluvanna, Greene, Montgomery and Albemarle										
Nederland Jefferson Co.	25	8:35 a								Funnel aloft	2 Late afternoon										
Near Tomball Harris Co.	25	12:00 p								Funnel aloft	Charlottesville had hailstones up to 2 inches in diameter which destroyed 15 greenhouses and damaged others. Over 500 cars had cracked windshields and dented bodies. Windows, storm windows and skylights were broken or damaged. Most of the damage occurred in the central part of the city with almost three inches of rain and with seven fires caused by lightning. Four to five thousand customers were without electric power up to 12 hours. Fluvanna County had a severe electric storm but without hail. All the other counties had thunderstorms with hail. Strong winds blew over house trailers near Blacksburg in Montgomery County. A 16 year old girl was injured when the wind rolled over the trailer in which she was babysitting three times.										
Near Bellville Austin Co.	25	3:15 p								Two funnels aloft	Portsmouth and Chesapeake										
George West Live Oak Co.	25	evening			1	0	?	0		Lightning	17 3 P.M.										
10S Brazoria Brazoria Co.	25	Russell C. Barbour, 69, was killed when struck by lightning while fishing on the San Bernard River about 10 miles south of Brazoria. A companion was not injured.			1	0	0	0		Lightning	High winds destroyed a house trailer, ripped off awnings from others and blew over trees.										
Houston Harris Co.	25	A residential fire started by lightning at Houston killed Mrs. Lillie Scott, 30, and a daughter, age one. A neighbor saved two children from the burning house.			2	0	?	0		Lightning	Washington										
Corpus Christi Nueces Co.	27	A fire caused by lightning resulted in an estimated \$2 million damage to the Corpus Christi public grain elevator. Lightning also struck the pick-up truck in which D. E. Hartman, 23, was sitting. The bolt completely burned the truck around. Hartman was thrown from the truck, which was demolished. He was not injured. Clyde Carlton, 69, a night watchman at the elevator suffered second and third degree burns over most of his body from the lightning bolt.			0	1	6	0		Lightning	No report received by printing headline										
Utah											West Virginia										
South Salt Lake	4	Late Evening			0	0	4	0		Wind	2 6:20 a.m.										
American Fork	20	7:00 p			0	0	3	3		Wind	Cooperative climate observer noted that a severe electrical storm disrupted telephone service in the community.										
Southern Salt Lake County	22				1	1	5	3		Heavy rain, hail and flooding	8 night										
Vermont											Weston, Lewis County										
State	19	P.M.			0	0	4	4		Lightning, wind, hail	17 7:20 a.m.										
											Parkersburg										
											22 4:30 p.m.										
											Wayne County										
											22 7 p.m.										
											Charleston										
											22 evening										
											White Sulphur Springs										
											22 night										
											Huntington										
											25 3:45 p.m.										
											Wisconsin										
											4 3-6 p										
											Taylor County										
											12 1:30 a										
											Chippewa County										
											14 1:30 a										

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1968

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED* DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
Wisconsin (continued)											
Taylor County	14	2:45 a			0	0	4	0			Lightning
Barn, including some cattle, equipment and hay, lost in fire set by lightning in town of Deer Creek.											
Taylor County	14	10:45 a			0	1	3	0			Lightning
Fire damages house, small child hurt.											
Polk County	15	am			0	0	3	0			Lightning
Ten milking cows killed by lightning on pasture near Bone Lake.											
Walworth	16				0	0	3	0			Lightning
Nine milking cows killed by lightning under trees south of Burlington.											
Waushara County	17	12:15 p			0	1	0	0			Lightning
A 14-year old Wautoma boy injured slightly by lightning while taking shelter from storm in resort on Silver Lake. Lightning hit tree and building and came out a light socket burning youth on right shoulder and arm.											
Southeastern Counties	17	pm			0	1	4	0			Wind, lightning
Severe thunderstorms caused widespread damage to trees and overhead wires. A 32-year old woman knocked unconscious by lightning at Janesville. One building lost to lightning fire near Oconomowoc.											
South and East Counties	21	pm			0	50	5	0			Wind
Severe thunderstorms crossed the south half of the state on an easterly track. Many trees were down in the Fox Valley. A large tent with 2500 people in it collapsed at Milwaukee at 1940 CST injuring 50 people slightly. Several barns were leveled by wind in the Green Bay area. A large whirlwind with the roar of a funnel but with no visible structure except whirling straw and leaves, tore a large tree out of the ground at Dodgeville at 1645 according to cooperative observer.											
Washington County	21	7 p	2	100	0	0	4	0			Tornado
A small tornado moving eastward destroyed several small buildings and damaged a larger home at Hwy. 144 and Arthur Road just north of Slinger. Owner was not home but neighbors saw funnel and flying debris which penetrated walls of house.											
Manitowoc County	21	7:45 p			0	0	0	0			Waterspout
Waterspout over Lake Michigan off Manitowoc moving southeast.											
Iron County	28	9 p			0	0	5	0			Wind
Strong northwest winds in a thunderstorm caused extensive damage in Hurley. Many windows broken as what was described as a "wall of water" blew through town. One large building project under construction lost 1300 feet of wall with damage estimated at \$40,000.											
Polk County	30	9 p	2	100	0	0	4	0			Tornado
Small tornado moving eastward did minor damage to several cottages along south shore of Deer Lake 5 miles east of St. Croix Falls. Many big trees broken off or uprooted and tossed around.											
Wyoming											
Wheatland 4 W	9	3:00 p.			0	0	0	4			Hail
Hail up to one inch diameter damaged crops on the Everette Nagel, Phil Jenkins, and Arnie Predit farms.											
Daniel 16 W	15	2:30 p.			1	0	2	0			Lightning
Rancher struck by lightning while riding a horse rounding up cattle. The horse was also killed.											
Casper	16	4:30 p.			0	0	4	0			Flash flood
Nearly 1 1/2 inches of rain in an hour caused flash flooding in the central portion of Casper with damage to houses, lawns, streets, cars, and utilities.											
Delaware State											
	2	Early evening			0	0	3	3			Hail
Hail, to golf ball size, was reported in scattered areas, especially from Wilmington to Hartly and Pickering Beach. Weather Bureau Airport Station reported 3/4 - inch size.											
Edwardsville	2	6:30p			0	0	4	0			Lightning
Lightning struck and destroyed a house near this community.											
Maryland											
Eastern portion	2	Early evening			0	0	5	4			Hail
Hail was reported in scattered areas, notably Sudlersville, Hughesville, Bay View, Laurel, and Beltsville. House roofs and aluminum siding were damaged; windows and sky lights broken; automobiles and moored airplanes damaged. Crop damage was also noted. This was one of the most severe hailstorms in the last twenty-five years. Property damage in the Sudlersville area alone was near \$100,000. Size ranged mostly up to golf ball, but in the Hughesville area, some orange-size hail was observed.											
Baltimore (City)	5	12 noon			0	0	3	0			Dust whirl
Several witnesses observed a dust whirl which formed at Fayette and Exeter Streets. The spinning wind wrecked a trailer and tossed the top of it 50 feet. A patrolman reported that the rear end of his station wagon was lifted off the ground and that the back window was sucked outward.											
Leonardtown	6	3:00p			0	0	4	3			Hail
Hail to golf ball size, struck this area. Damage was principally to roofs and windows; some crop damage was also noted. Total damage was estimated near \$25,000.											
Sheridan Point, Calvert County	6	3:30p			1	0	0	0			Lightning
Lightning struck and killed a man who was crabbing with three of his children in the shallow water of the Patuxent River, 10 feet offshore. The children were knocked down but quickly recovered.											
Eastern portion	6	Early evening			0	0	4	0			Lightning, flooding
Thunderstorms brought damage to scattered areas by lightning and minor flash flooding of streets and highways. Telephone service was interrupted in Bel Air and Havre de Grace area. A total of seven cows, valued at about \$150 each, were killed on 2 nearby farms near Leonardtown. Several homes were also damaged by lightning.											
Midlothian in Cumberland area	18	2:30p			0	0	3	0			Lightning
Lightning destroyed barn filled with hay. One man was knocked to the ground but was uninjured.											

- ° Includes crop damage.
- C Crop damage.
- * Miles instead of yards.
- ** Yards instead of miles.
- † 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.

SUBSCRIPTION PRICE: 15 cents per copy; yearly subscriptions \$1.50 domestic, \$2.00 foreign. Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to "Superintendent of Documents, Government Printing Office, Washington, D. C. 20402."

USCOMM-ESSA-Asheville, N. C. -8/30/68-1080