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# Storm Data

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1970

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>Alabama</b>									
Baldwin, Butler, Coffee, Conecuh, Covington, Greeshaw, Escambia, Geneva, Mobile Counties	1-4				0	0	6	6	Rain
Very heavy rain averaging more than 12" and locally as much as 17" caused extensive damage to crops, farmland and public roads. Local areas had 4" to more than 8" in less than 24 hours which caused some flooding of streets in some towns.									
Daphne, Baldwin County	2	7 a.m.	short	narrow	0	0	4	0	Tornado
Tornado dipped down just east of town and blew house trailer 150 feet and demolished it. Tornado lifted and moved northwesterly. Debris from trailer was seen a half mile away.									
Mobile County	3	10:20a.m.			0	0			Waterspout
Reported over mouth of Mobile Bay by Coastguard.									
Limestone, Madison, Marshall Counties	20	1:00 p.m.			0	0	4	5	Hail
Hailstones up to 2" in diameter damaged crops in area 4 miles wide by 10 miles long in southern part of Limestone and Madison Counties near Belle Mina. Damage to crops in northern Marshall County near Union Grove Community.									
Cleburne, Calhoun Counties	20	afternoon			0	0	5	4	Hail, wind, electrical
Hail as large as baseballs fell over small area 3 miles north of Anniston. Golfball size hail reported near Heflin. Scattered damage from wind in northern Cleburne County. Lightning set house on fire in Heflin and caused near total loss. All crop damage due to hail. Property damage 50% wind, 25% hail and 25% electrical.									
Massey Community, Morgan County	21	afternoon			0	0	0	5	Hail
Large hail severely damaged cotton and corn crops over area of about a square mile.									
Good Hope, Beach Grove Communities, Cullman County	21	6:10 p.m.	3	?	0	0	5	3	Tornado
Several witnesses reported funnel appeared to remain 15 - 20 feet above ground. Approximately 20 farm buildings destroyed or damaged including 5 houses. Tornado formed in a cluster of thunderstorms moving south.									
Gulf Shores, Baldwin County	23	6:04 a.m.							Waterspout
Waterspout sighted by State Trooper 1 mile off shore moving to the northwest.									
<b>Alaska</b>									
				None reported					
<b>Arizona</b>									
				None reported					
<b>Arkansas</b>									
Poinsett and Mississippi Counties	4	4:00 p.	12-15	2-5 (miles)			4		Hail
A strong driving hail storm swept from Marked Tree to about 2 miles west of Keiser. Lepanto and West Ridge felt the storm. There was considerable damage to cotton.									
Washington and Benton Counties	11	8:45 p.	44	200	1	44	6	3	Tornado
This was the Arkansas portion of a tornado touching down in the Stilwell, Oklahoma vicinity. Damage-wise, the hardest hit area was Springdale in Washington County where slightly over \$1 million dollars damage was done in a residential, shopping and apartment complex in a few minutes (9:52-9:55 P.M.) time. The very distinct path here was 3-1/4 miles in length and about 200 yards in width. 130 homes, apartments and businesses were extensively damaged. Much of Elmdale Shopping Center and Elmdale Manor were leveled. The funnel scoured the ground from about 2 miles west of the city limits and largely retreated back up into the clouds as it crossed Highway 71 about a mile south of the Benton-Washington County line.									
The first noticeable wind damage associated with this major tornado was in the vicinity of the intersections of Highways 59 and 62 in western Washington County near the Oklahoma border. Northeast from this location in the Rhea, Lincoln, Wheeler and Harmon vicinities, 12 poultry houses valued at \$200,000 and chickens at \$100,000 were lost. In addition, Rhea suffered damage to a community house and the Rhea Methodist Church which was moved from its foundation. To the northeast of Springdale, 5 henhouses were damaged on the Leslie Farm on Highway 264 and minor damage was done to the Hickory Creek and Rocky Branch boardwalks 10 and 15 miles northeast of Springdale on Beaver Lake.									
Southeast Clay, extreme east Greene and north half Mississippi Counties	14	5:00 p.					4		Wind, rain and hail
Two storms, approximately 6 hours apart battered this section. 6 to almost 10 inches of rain fell late afternoon followed by another 4 to 5 inch downpour. Heavy rain and hail shattered at least 10,000 acres of wheat and destroyed cotton, soy beans and milo. Described as "worst storm in 50 years". Wind damage done to trees and roofs in Minnons, Clay County.									
Elytheville - Mississippi County	14	Afternoon							Funnels aloft.
One to three funnels sighted in Elytheville vicinity but doing no damage.									
North-central counties	19	Evening							Hail
<b>Arkansas (continued)</b>									
Stone & Independence Counties	19	5:30 p.							Funnels aloft.
For a 2 hour period beginning 5:00 P.M. a 4-county area including Baxter, Stone, Izard and Independence Counties was battered by unstable weather including large hail and funnel clouds (aloft). Details below:									
		7:00 p.							
At least two funnels aloft were sighted, one at Mountain View and another in the Batesville vicinity.									
Calico Rock - Izard County	19	5:30 p.	30	3 mi.			4	3	Hail
A 3-mile wide hail storm (an extension of the hail reported in southeast Baxter County) swept from the Calico Rock vicinity southeastward to the southeast section of the county. Hail stones ranging from 1 to 3 inches in diameter were reported with some described as "cigar-box" size. Damage was done to roofs, windows and automobiles in Calico Rock as well as various crops in central sections of the county.									
Old Joe Community - Baxter County	19	5:00 p.							Hail
Hail up to large baseball size fell in the Norfolk vicinity southeastward to the Izard County line.									
Jonesboro - Craighead County	20	4:20 a.							Windstorm
A squall line passage early morning produced scattered damage throughout the city. There were two major areas of damage. Winds gusted in a very rough southwest to northeast path through the campus of Arkansas State University. A 135 foot light tower at the football stadium was blown over and landed on the roof of the press-box. A three-story panel of windows was "exploded" out of the south side of the Beng Student Center and several trees were damaged on the campus. The largest of the tree damage was to residential section about 1/2 to 3 blocks just to the west of downtown Jonesboro. Here there was a faint path discernible possibly 2 to 3 miles in length. The Jonesboro FAA Flight Service Station reported winds gusting to 80 mph at 4:32 A.M.									
Russellville - Pope County	20	11:00 p.					1		Lightning
17-year old boy knocked unconscious and hospitalized by lightning stroke at drive-in movie.									
Russellville - Pope County	24	10:00 p.					3		Funnel aloft
Funnel cloud reported by police 5 to 6 miles north of Russellville. Windstorm and turbulent conditions moved eastward through the southern portions of Pope and Conway Counties. Considerable damage done to Centennial Exposition at Bailey Field, Russellville and wind damage to trees and power lines in Morrilton.									
<b>California</b>									
Victorville 20 WNW	4	2:30 pm			0	0	4	0	Local wind storm
Local windstorm in vicinity of cumulonimbus moved from northeast to southwest across El Mirage Glider Port damaging buildings and gliders. Wind speeds estimated at 80 to 100 mph.									
<b>Colorado</b>									
Mesa County	7	6:30PM					1		Lightning
A woman was killed by lightning while walking along the Colorado River near Clifton.									
Pueblo	10	Night					1		Lightning
A woman suffered shock and leg burns when struck by lightning while taking clothes off a line.									
Mesa and Garfield Counties	10	Afternoon					4	3	Hail, Rain, Lightning
Hailstones from marble size to one inch in diameter fell northeast of Grand Junction, causing extensive damage to fruit trees in one orchard. Hail also fell in the Grand Valley area. Heavy rain caused local flooding in Rifle and small rock and mud slides in the Glenwood Springs area. Lightning caused extensive fire damage to a house in Fruita.									
Weld County	10	4:00PM							Funnel Cloud
A pilot reported a funnel 11 miles south of Wiggins.									
Prowers County	11	PM	5	1/2			0	4	Hail
Hail damaged crops in the Wiley area, just northwest of Lamar, and in a strip from Wiley west to Wilson Junction									
Sedgwick County	18	PM	20	45			3	5	Hail
Hail up to golf ball size, and in some areas baseball size, destroyed wheat and damaged other crops in an area from Julesburg southeast. Hailstones 2 3/4 inch diameter were reported 5 miles south of Julesburg at 4:11PM.									
Kiowa County	19	12:20AM					0	0	Tornado
A tornado was observed touching ground for a short distance between Eads and Lamar.									
El Paso County	29	2:45PM							Funnel Cloud
Reported by pilot, 20 miles east of Colorado Springs.									

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS						
Colorado (continued)										Florida (continued)														
Elbert County	29	3:10PM							Funnel Cloud	Elliott Key (25 mis. SE Miami)	14	10:16a							Funnels aloft (2)					
									Reported 25 miles southwest of Limon, and observed on radar. Report of touching ground unconfirmed.	Fernandina Beach Nassau County	14	12:28p							Waterspout					
Connecticut										Key West														
Southwestern coast	3	Eve			0	1	4	0	Lightning	Ft. Lauderdale (3 mis. NE)	15	6:22a							Funnel aloft					
									Intense electrical activity caused lengthy power outages in Stamford, Darien, Milford, West Haven, Orange and East Haven. A woman on a fishing pier was struck by lightning and seriously burned, especially about the face.	Juno Beach (12 mis. N West Palm Beach)	15	4:10p							Waterspout					
Delaware										Jupiter (18 mis. N West Palm Beach)														
Northeast New Castle County	5	5:30 p.							Hail	Tampa (15 mis. W)	15	5:30p							Funnel aloft					
									Hail, to 1 1/2 inches in size, was reported by a weather observer; no damage was indicated.										Touched sea wall area briefly causing small damage. Did not come ashore. Light damage reported in Largo from high winds.					
State										Key West (3 mis. S)														
	18	Evening			0	0	4	0	Wind	Key West (4 mis. NW)	16	11:02a							Funnel aloft					
									Thunderstorm winds downed trees, interrupted telephone and power service and damaged automobiles and buildings, mostly by falling trees and signs.	Key West (7 mis. NNW)	16	11:06a							Funnels aloft (4)					
Southeast Sussex County										Key West (10 mis. W)														
	21-22	Late evening-early morning			0	0	4	0	Wind, hail	Clearwater Beach (15 mis. W Tampa)	16	7:40p							Funnel aloft					
									Thunderstorms with strong gusty winds downed trees, collapsed one large barn and destroyed at least one small building. Hail was also reported but size or damage was not indicated.										Waterspouts (2)					
Florida										Key West (4 mis. NW)														
Escambia and Santa Rosa Counties	1				0	0	6	6	Heavy rain and flooding	Key West (vicinity)	17	12:11p							Funnel aloft					
									Very heavy rains beginning May 29th and lasting through June 5th caused the worst flooding since 1926 to low lying areas of Santa Rosa and Escambia counties. Rainfall amounts totaled 14.5 inches at Pensacola airport and 22.4 inches at Milton. As far east as De Funiak 8.08 inches were recorded. Flooding caused evacuation of portions of Annie's Basin. The Blackwater River reached 11 feet above flood stage and the Yellow River crested at 15 1/2 feet. Damage estimates range from 2.4 million dollars with \$855,000 damage to farm lands and crops in the Santa Rosa county alone. Other large losses include \$205,900 to private homes in Santa Rosa County and \$250,000 to the Escambia University Hospital. No deaths or serious injuries were reported.	Key West (3 mis. NW)	17	1:22p										Funnels aloft (2)		
Sarasota (39 mis. S Tampa)										Marathon (5 mis. N) Monroe County														
Shalimar Okaloosa County	2	9:49a			0	0	4	0	Lightning	Ft. Myers (3 mis. W) Lee County	18	2:05p							Waterspout					
									Home totally destroyed by fire caused by lightning during storm.	Ft. Myers	18	3:05p							Waterspout					
Pensacola (9 mis. SW)										Orlando (15 mis. SW)														
Bushnell (46 mis. NNE Tampa) Sumter County	2	11:27a							Funnel aloft	Key West (4 mis. ENE)	19	8:18a							Funnel aloft					
	4	3:30p							Tornado	West Palm Beach (2 mis. SE)	19	10:00a							Funnel aloft					
Key West (2 mis. W)										Cape Sable Monroe County														
	6	6:35a							Funnel aloft	Tallahassee Leon County	20	2:40p							Hail					
Sarasota (5 mis. SW)										Hail reported 3/4 inch in downtown area.														
	6	11:10-11:29a							Funnel aloft and waterspout	Key West (10 mis. NNW)	20	5:49p							Funnel aloft					
Tampa (15 mis. WNW)										Key West (10 mis. NW)														
	6	7:02p							Waterspout	Big Pine Key (10 mis. E)	21	7:40a							Waterspout					
Tampa (20 mis. SW)										West Palm Beach (10 mis. E)														
	7	1:55p							Waterspout	Orlando (20 mis. NW)	22	5:34p							Funnel aloft					
Orlando (vicinity)										Bithlo Orange County														
	7	3:15p			1	0	0	0	Lightning	Hail reported 2 3/4 inches in diameter.	Myakka River St. Pk. Sarasota County	24	10:35a						Funnel aloft					
									Fisherman killed while using aluminum boat on Lake Chase in Windermere.	Marathon (20 mis. NE)	25	10:36a							Waterspout					
Jacksonville Duval County										Hallendale Broward County														
	7	4:30p			0	2	0	0	Lightning	Daytona Beach vicinity Volusia County	25	4:15p				0	1	4	0	Lightning, hail and flooding				
									Two men injured while attempting to repair auto in front of home.	One workman slightly injured and a 1 1/2 story building under construction damaged. Flash storm included flooding in Golden Isles area with estimated \$67,000 damage in area of building.	Orlando (13 mis. NE)	25	6:00p							0	0	3	0	Tornado
Jupiter and Tequesta Palm Beach County										Holmes Beach Manatee County														
	7	10:20p							Damaging wind	Three homes damaged slightly. One occupant injured.														
									Radio tower blown down at Jupiter. Also other minor damage to homes and utilities.															
Cocoa South Brevard County																								
	7	night							Hail															
									Hail reported up to 1 1/2 inch in diameter. Electric power interrupted.															
Deerfield Broward County																								
	11	night			0	1	0	0	Lightning															
									Man injured when struck during severe electrical storm.															
Vero Beach (15 mis. E)																								
	11	3:29p							Waterspout															
Lake Okechobee Okechobee County																								
	12	4:24p							Tornado															
Key West (vicinity)																								
	13	7:50a							Waterspout															
Big Pine Key (20 mis. NE Key West)																								
	13	10:33a							Waterspouts (2)															

See reference notes at end of table.



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					KILLED	INJURED	PROPERTY	CROPS	
<b>Illinois (continued)</b>									
									and probable funnels 25 ENE UIN at 6:20p., and 1 S Jacksonville at 7:50p.
Cairo	13	0:10a			0	0	0	0	Hail
									Golfball size or larger hail in north Cairo with hail of unknown size covering ground about 7 blocks south.
Kane and Grundy Cos.	14	morning			?	?			Hail
									1" hail reported at Aurora at 8:15a. and numerous reports of hail to 1" and heavy rain in southwest Grundy Co. about 7:20a.
Northern Illinois	14	afn			?	?			Funnel clouds, heavy rain, hail
									Funnel clouds reported 20S PIA at 12:43p.; 34 WSW JOT and 31 WSW JOT about 1:30p.; and 25 SSW Kankakee at 3p. Some wind damage, heavy rain, and some hail in Iroquois and surrounding adjacent counties.
Madison County	14	5:35p	1 1/2	5	0	0	0	0	Tornado
									Houses in Mitchell received minor structural damage. A truck camper near one house was blown 100 yards to the north, reportedly after being tossed 300 feet into the air. Chain was broken which tied dog to porch post and dog's body found 1 mile to NNE with eyeballs missing. Wheel in field to north twisted in circular path. Witnesses reported seeing two funnels, one small one stayed aloft. At about the same time a pickup truck-camper on Interstate 270 was blown over with only minor injuries to 7 occupants. A larger truck just ahead was blown into ditch. WFO, STL.
DuPage County	15	9a							Hail
									1" hail 20 SW ORD.
Morgan County	15								Funnel clouds
									Funnel clouds reported 4 NE Jacksonville at 2:14p.; and 25W SPI at 2:55p.
Will County	16	2:05p							Funnel cloud
									Funnel cloud reported at Peotone moving NE. Heavy rain and high wind reported same area at 2:20p.
McLean County	16	5p	4	300	0	0	4	0	Tornado
									Path from 2 1/2 miles SW Lexington to 1 mile NE of town. CD warned town 8 minutes before strike. Greatest damage to 3 block wide area in town. WBO, PIA.
McLean County	16	5:40p	3	200	0	0	2	0	Tornado
									Tornado touched about 3 miles NNE Colfax and moved very slowly with minor damage to farm buildings and major damage to trees. WBO, PIA.
Ford County	16	6p-6:30p	2	?	0	0	4	0	Tornado
									Several funnels sighted north of Gibson City as residents watched. One touched ground for several minutes and another may have. Farm outbuildings and trees heavily damaged on 4 farms with houses damaged by broken limbs and debris.
Marshall	16	10:03p	2	100	0	0	3	0	Tornado
									Tornado touched just WNW of intersection of Illinois Routes 17 and 116A and moved southeast and then east. Minor building damage and large trees uprooted. WBO, PIA.
Champaign County	16	9p							Funnel cloud
									Reported 11 NE Rantoul by Chanute AFB.
Northeast Illinois	17								Funnel clouds
									Funnel clouds were reported 23 WNW JOT at 1:35p.; 30 NW JOT at 2p.; and 60 SW JOT at 10:25p.
Central Illinois	20	4-4:30p							Funnel clouds
									Funnel clouds reported 43 NE STL, 29 SW SPI and 16 NW VLA.
Central Illinois	20	afn			1	0	3	0	Lightning, heavy rain
									One man killed near Chillicothe and 16 head of Hereford cattle killed near Washburn by lightning during thunderstorms which dropped as much as 3 inches of rain and caused rise in rivers already at or near flood stage.
Southern Illinois	20	evening			0	1	3	?	Hail, wind, funnel clouds
									Funnel clouds were sighted along a path to SSE starting at Gorham in Jackson Co. at 6:40p.; 6 1/2 miles south of Jonesboro at 7:30p.; 4 1/2 miles WNW of Dongola at 7:40p. and into Kentucky about 8 p. Movement was about 40 mph. Some light structural and tree damage from wind along route. One boy cut by glass from broken window. Hail of about 3/4" damaged some 700 acres of crops, mostly corn in Pulaski Co. WBO, Cairo.
Indiana	5	E.S.T. Late p.m.			1	0	3	3	Flash flood
English, near (Orange County)									Flash flooding of creek caused woman to drown.
<b>Indiana (continued)</b>									
Markle, 2 mi. E. (Wells County)	13	5:20p.							Funnel
									Funnel reported moving eastward at 10 miles per hour.
Huntington, near Berne (Adams County)	14				0	0	?	?	Rain, hail, wind
									About 2-3p. Crops damaged by hail, strong wind and flash flooding. Rain of 1.22 inches fell in one hour.
Jasper (Dubois County)	14	Between 8-9p.							Funnel
Petersburg (Pike County)	14	Late p.m.	1	400	0	0	3	0	Tornado
									Trees downed or tops twisted out in northwest Petersburg.
Crown Point and Schererville (Lake County)	16	7:50p.							Funnel
Moroco (Newton County)	16	10:20p.							Funnel
Argos (Marshall County)	17	p.m.							Funnel
North Judson, 3.5 mi. N. (Starke County)	17	3:45p.							Funnel
South Bend, near McKinnley & Grape Road	17	4:35p.							Funnel
Goshen, north (Elkhart County)	17	?							Funnel
Petersburg, near (Pike County)	20	9:05p.							Funnel
									Public reported funnel along State Road 61, traveling southeast about 45 miles per hour.
Montezuma (Parke County)	24	E.S.T. 5-6p.	1/2	1/2	0	0	4	3	Wind, rain
									Damage to homes, cars, trees, flagpoles and antennae. Rain in excess of two inches resulted in flooding.
Jay County	24	About 7:30p.	?	?	0	0	3	0	Wind, funnel
									Barn was blown down north of Ridgeville. Funnel sighted at Redkey.
Randolph County, central and north	24	About 7:30p.	?	?	0	0	4	4	Hail, wind
									Corn and bean crops damaged by hail and rain of over an inch in less than one hour near Deerfield and Ridgeville. Wind damage reported in Winchester.
Green County, east	24	10:15p.							Funnel
Pulaski and Fulton Counties	26	About 11:20a.	13	Narrow	0	0	5	3	Tornado
									Tornado first touched down at Tippecanoe River State Park in north-eastern Pulaski County and then traveled eastward to 7 miles north-west of Rochester (in Fulton County), tearing up at least two farms resulting in an intermittent damage path over the ground. South of Monterey a farm wife described the tornado as "a black cloud with a pink glow on the outside." Sixty acres of field and woods were scourged and a barn was levelled. Eastward in Fulton County another farm wife rushed to the basement with her children as the tornado almost totally destroyed the roof of the home. A barn was damaged and a 30-tree apple orchard was levelled.
Iowa	10	10:15 p					4		Lightning
Aurelia, Cherokee County									
West Des Moines, Polk County	11	10:54 a				1			Lightning
Pleasant Hill, Polk County	11	12:05 p							Funnel
Hamilton, Marion County	11	3:30 p				2			Lightning
Shambaugh, Page County	11	10:30 p							Funnel
Wapello, Louisa County	12	5:30 p							Funnel
Danville, Des Moines County	12	6:10 p	1	50			3		Tornado
Wapello, Louisa County	12	6:30 p							Funnel
Central City, Linn County	14	a. m.					4		Heavy rains
									School flooded with heavy losses.
NE Black Hawk and NW Buchanan Cos.	14	9:00 a -Noon					5	4	Heavy rains
									Nearly 5 inches rain fell in 3 hours at Dunkerton and Dewar. Many homes flooded. Roads and bridges were damaged. 30% crop damage by hail.
Clarksville, Butler County	14	12:05 p					4		Lightning
									Loss about \$12,000.

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS	
Iowa (continued)										Kansas									
North English, Iowa County	14	1:30 p.	3 inches rain,				30%	4	4	Eastern portion	1-4				0	0	4	4	Hail
DeWitt, Clinton County	14	2:20 p.																	Funnel
Clinton, Clinton County	14	2:30 p.																	Funnels (2)
Linn County	15	3:30 a.						4											Lightning
Missouri Valley, Harrison County	15	10:30 p.						4		South central	9	late aftn-eve			0	0	4	5	Hail
Central Pottawattamie County	15	11:07 p.																	Funnel
Beebeetown, Harrison County	15	11:09 p.								Harper County	10	4:06 p.	short	100	0	0	2	0	Tornado
LeMars, Plymouth County	15	11:10 p.						4											Funnel
Emmetsburg, Palo Alto County	16	12:10 a.						4		Marshall, Clay, Washington Counties	10	evening			0	0	4	4	Two funnels aloft, hail, rain
Peterson, Clay County	16	12:15 a.						4											Funnel
Palo Alto County	16	12:30 a.	Wind damage at and near Curlew, Ayrshire and Emmetsburg.					4		South central	10-11	10:10; night of 10-11			0	0	4	4	Hail, rain, lightning, funnel aloft
Terrill, Dickinson County	16	1:00 a.	Also damaging winds near Milford and Graettinger.					4											Funnel
Logan, Harrison County	16	1:00 a.						4	4										Windstorm
3N Adel, Dallas County	16	1:00 a.						4											Windstorm
Swea City, Kossuth County	16	1:30 a.						4		Linn County	10-11	10-11			0	0	0	4	Hail
Sioux Rapids, Buena Vista County	16	1:30 a.						4											Windstorm
6W Indianola, Warren County	17	Morning						4		Western portion	11	11:00 a. to eve			0	0	4	5	Hail, wind, rain, lightning, 5 funnels aloft
Hastings, Mills County	17	8:30 a.						4	4										Hailstorm
Red Oak, Montgomery County	17	9:10 a.	2 inch diameter hail.					4											Hailstorm
Persia, Harrison County	17	9:10 a.																	Funnel
Persia, Harrison County	17	9:10 a.																	Hailstorm
Creston, Union County	17	10:00 a.	1 inch diameter hail.							Barton County	11	1:55 p.	3	?	0	0	0	0	Tornado
Holbrook, Iowa County	17	11:15 a.	1 150					4	3	Eastern portion	11	aftn-night			1	1	6	4	Wind, rain, hail, lightning, 7 funnels aloft
Williamsburg, Iowa County	17	11:30 a.																	Funnel
Willey, Carroll County	17	4:40 p.	1 3/4 inch diameter hail.																Hailstorm
Wilton Junction, Muscatine County	17	10:24 p.	1 1/2 inch diameter hail.																Hailstorm
S of Durant, Muscatine County	17	10:30 p.	3 inch diameter hail.																Hailstorm
Edgewood, Clayton County	18	3:00 p.				2		4											Windstorm
Audubon, Audubon County	20	9:05 a.								Ness County	11	7:00-7:30 p.	15	200	0	0	0	3	Tornado
W of Grundy Center, Grundy Co.	20	10:37 a.																	Funnel
Butler County	20	10:40 a.																	Funnel
Dows, Wright County	20	10:55 a.																	Funnel
Hartwick, Poweshiek County	20	3:18 p.						4		Ellis county	11	6:10-8:14 p.	short	?	0	0	0	0	Tornado
Ottumwa, Wapello County	24	8:00 a.						4											Heavy rains
Schaller, Sac County	25	7:30 p.	3 3520 75 mph. winds damaged farm buildings, uprooted trees, killed baby pigs - 4 farms haled out. 30% damage due to wind.					4	5	Jefferson county	12	12:28 p.			0	0	3	3	Hail
1S Mondamin, Harrison County	30	Late afternoon	Wind helped overturn pick-up camper, injuring two.			2		2		Sumner county	12	8:25-9:02 p.							2 funnels aloft

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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)									
Sumner county	12	8:18-9:10 p.	short	?	0	0	0	0	Tornado
									Tornado reported on ground intermittently from 5 mi. SSW of Wellington to 4 mi. south of Wellington.
Mess county	13	about 5:00 p.	1	?	0	0	0	0	Tornado
									Tornado, moving northward, touched down 7 miles southwest of Alexander.
Western portion	13-	aftn. of 13; night of 13-14			0	1	5	6	Hail, wind, lightning, rain, 2 funnels aloft
									Extensive wind and/or hail damage occurred over many of the counties from Meade, Clark, Edwards, and Stafford counties northward to the State line. Largest hail was 3 inches diameter locally in Edwards county about 5:30 p., 2 1/2 inches diameter in Rush county about 5:00 p., and 2 3/4 inches diameter in Decatur County in the evening. A man was injured by wind west of Kindley. Torrential rains, unofficially reported over 8 inches, caused flash flooding and crop damage in southern Ellis and northern Rush Counties. Lightning damage occurred locally in Hodgeman and Russell Counties. A funnel aloft was reported over Ness City at 6:00 p.m.; another occurred east of Wright at 6:55 p.m.
Pawnee county	13	about 6:15 p.	8	?	0	0	4	3	Tornado
									Tornado, moving NE, started about 4 mi. south of Burdett and traveled to 5 mi. northwest of Rozel. It hit at the latter location about 6:30 p.m.
Edwards county	13	about 9:00 p.	7	?	0	0	5	3	Tornado
									Tornado, moving NW, traveled from 3 mi. northwest of Kinsley to 10 miles north-northwest of Kinsley, causing extensive damage at 7 farms.
North Central portion	13-	night of 13-14			0	0	4	3	Wind
									Damage occurred locally in most counties of north central Kansas.
Stafford, Reno counties	14	6:30-9:00 a.	?	?	0	0	4	5	Hail, wind
									Hail up to 1 3/4 inch diameter, driven by strong winds, severely damaged crops in a strip from Stafford to Abbeville.
Cowley county	14	11:15-11:25 a.	?	?	0	0	3	3	Hail
									Hail up to about 1 1/2 inches diameter fell at Arkansas City.
Sheridan, Decatur counties	14	2:30- about 3:05 p.	17	1/2	0	5	6	5	Tornado
									An unusually large tornado for the area, moving northeast, was on the ground part of the time from 4 miles southeast of Selden to about 2 1/2 mi. east of Dresden to near Jennings. Five people were injured near Dresden. Two farmsteads were destroyed and eight others were severely damaged.
Northern and western portions	14-	aftn. of 14; night of 14-15			0	0	5	5	Wind, hail, lightning, 3 funnels aloft
									Hail damage was reported in Meade, Comanche, Gray, and Sheridan Counties. Lightning and wind damage occurred at scattered locations. Funnels aloft were reported as follows: near Wakeeney at 5:25 p.; 2 mi. east of Hill City at 5:10 p.; and just southeast of Phillipsburg at 6:02 p.
Linn county	15	about 2:00 a.			0	0	4	0	Lightning
									Lightning damage occurred near La Cysne.
Graham county	15	7:00 p.	1 1/2	200	0	0	4	2	Tornado
									Tornado, moving northeast, touched down briefly about 13 mi. NNW of Ellis.
North central, northeast portions	15-	eve of 15; 16 night of 15-16	?	?	0	0	4	5	Hail, wind, rain, lightning, 2 funnels aloft
									Damage was reported in Cloud County, Ellsworth County, and from Phillips County eastward to Marshall County. Largest hail was about 2 1/2 inches diameter at Burr Oak and just east of Phillipsburg. Funnels aloft were reported as follows: just southwest of Alton at 6:18 p.; and at Wakeeney at 6:20 p.
Central portion	15-16				0	0	4	4	Rain
Kansas (continued)									
									Locally heavy rains over a period of several days resulted in scattered lowland flooding along Pawnee River between Burdett and Larned. Major flooding occurred along the Smoky Hill River above Kanopolis Reservoir.
East central, south-east portions	17	6:30-7:00 a.			0	0	4	3	Hail, lightning
									Lightning damage occurred at Madison. Hail up to about 3/4 inch diameter occurred locally in Shawnee County.
Harvey county	18	about 9:30 a.			1	0	0	0	Lightning
									Man on a tractor killed 3 1/2 mi. NNE of Newton.
Southern and western portions	18-19	eve of 18; night of 18-19			0	0	5	7	Hail, wind, rain, funnel aloft, lightning
									About 20,000 acres of wheat were damaged in Kearny County and 36,000 acres of crops were damaged in Decatur County; hail accumulated to 7 inches deep 10 mi. south of Oberlin. Crop damage of \$1,000,000 occurred in Crawford County. Largest hail was about 2 inches diameter 4 mi. north of El Dorado at midnight. Hail up to 1 3/4 inches diameter occurred west of Haven, north of Wichita, and between Hutchinson and Wichita. Saucer-like stones 3 inches across fell 3 mi. southwest of Mount Hope. Flash flooding occurred locally in Decatur County. Lightning damage was reported in Ellis, McPherson, and Wilson Counties. A funnel aloft was observed between Marion and Florence at 10:06 p. Severe wind damage occurred in southeast Kansas and at scattered western locations.
Saline county	18-19	night of 18-19	?	?	0	0	3	0	Hail
									Hail up to about 1 inch diameter fell at Salina.
Northeast one-fourth	19	Day							3 funnels aloft
									Funnels aloft were reported as follows: near Emmett at 8:55 a.m.; near Waverly at 11:00 a.m.; and near Paola at 1:00 p.m.
Washington county	19	9:30-9:38 p.	?	?	0	0	0	0	Tornado
									Tornado observed about 12 miles north-northeast of Clifton.
Eastern one-third	20	aftn.-eve			0	0	4	3	Hail, wind, lightning, rain
									Hail up to 1 3/4 inches diameter fell at Overland Park at 1:00 p., at Lebo about 3:30 p., and at Pittsburg at 5:18 p. Scattered wind, lightning, and hail damage occurred in southeast Kansas. Some flooding was reported on rivers and streams over portions of east central and southeast Kansas.
Montgomery county	24	5:45 p.							Funnel aloft
									A funnel aloft was observed 10 mi. west of Coffeyville.
Wallace county	29	about 8:10 p. MST			0	0	4	0	Lightning
									Lightning damage occurred 16 miles southwest of Sharon Springs.
SPECIAL HAIL SUMMARY									
									Hail Loss Clearing House reports indicate hail was especially severe in the following counties on the dates indicated:
									9 Barber, Harper, Kingman
									10 Barber, Clay, Harper, Harvey, Reno, Washington
									11 Lane, Ness, Rush, Sheridan, Thomas, Trego, Sumner
									13 Edwards, Ellis, Ford, Gove, Hodgeman, Lane, Ness, Pawnee, Phillips, Rooks, Rush, Trego
									14 Barton, Ellis, Ford, Gove, Gray, Hodgeman, Mitchell, Ottawa, Reno, Rush, Russell, Sheridan, Stafford, Sherman, Trego
									15 Gove, Jewell, Norton, Osborne, Phillips, Republic, Rooks, Smith, Trego, Washington
									16 Republic
									18 Decatur, Dickinson, Graham, Harvey, McPherson, Marion, Rawlins, Reno, Saline, Sheridan
									19 Barton, Butler, Crawford, Finney, Harvey, Kearney, McPherson, Neosho, Ottawa, Reno, Rice, Saline, Sedgwick
									20 Jewell, Ottawa, Saline

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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	
<b>Kentucky</b>									
Hardin County	3	4:21 p.							Funnel cloud aloft
		State police stated that two persons about 7 miles east of Elizabethton on U. S. 62 reported that a twister touched down twice in a field. There was no damage, or further reports.							
North Central	3				0	0	0	0	Heavy rains
		Downpours were associated with heavy rains in the north central area. 48-hour amounts on the 3rd-4th totaling 2 to 4 inches, with locally heavier amounts. At Bernheim Forest in Bullitt County 7.04 inches fell in the 12-hour period 3 p.m. of the 3rd to 3 a.m. of the 4th; 8.20 inches in a period of less than 24 hours beginning at 6 a.m. on the 3rd and ending at 3 a.m. on the 4th. Small streams rose to near flood stage in some areas; the Salt River at Taylorsville in Spencer County rose to 19.4 feet (flood stage 20 feet) on the 4th at 10 a.m. EDT. No damage of consequence was reported.							
Daviess County	4	7:00 p.							Funnel cloud aloft
		State police received a report of a funnel cloud about 13 miles south of Owensboro on U.S. 23. No damage and no further sightings were reported.							
Fleming County	5	P.M.			?	?			Hail, rain
		A hailstorm struck southern Fleming County in the vicinity of Sunset late in the afternoon, damaging tobacco beds, and the aluminum siding of one residence. An unofficial report stated that about 3 inches of rain fell in about 30 minutes, causing flash flood conditions.							
Hardin County	5	2:25 p.							Funnel cloud aloft
		A funnel cloud was sighted by State police in the vicinity of Radcliff, moving northeastward. There were no further reports, or reports of damage.							
Carroll County	5	8:45 p.							Funnel cloud aloft
		A funnel cloud was reported to have been sighted in the vicinity of Ghent moving southward. There were no further reports, or reports of damage.							
Logan County	5	Noon	5	3*	0	0	4	5	Hail, wind, rain
		In the vicinity of Auburn a 15-minute hailstorm of 3/4"-diameter hail accompanied by high wind and heavy rain resulted in extensive damage to a number of gardens and crops along a southwest-to-east strip 1/2-mile wide and two miles long. Damage was reported to some roofs and other property in the area. Hail accumulated to a depth of 4 inches in some sections.							
Laurel and Whitley Counties	5	2:00 p.			0	0	?	?	Hail
		A hailstorm accompanied by heavy rain leveled gardens and tobacco beds "for miles" around, according to a news report. In addition it was reported that thousands of dollars damage was done to roofs of houses and barns. The hail swath started in the Interstate 75 area west of Corbin in Whitley County and continued in a two-mile line toward Keavy and Bald Rock in Laurel County. Hailstones varied from marble-size in the Barton Mill area got larger as the storm reached the Laurel River bridge on Highway 312 to Keavy; were as large as small hen eggs at Keavy. Drifts of hail reached as high as 12 inches in lower areas and 9 inches at one location on level ground, some of the hail remaining on the ground as late as noon of the following day. Several "old timers" in the area stated that it was the worst hail storm in at least 50 years in the area.							
Central, Blue Grass	10				0	1	?	?	Lightning, hail, wind
		About 9 a.m., lightning damaged a tobacco barn in Nelson county. At noon, a boy was injured by a lightning strike in the Piney Woods section north of Albany in Clinton county. About 5 p.m. lightning strikes in two adjacent counties, Garrard and Madison, damaged contents of a building, and destroyed a barn and equipment and materials housed by it. About 8:30 p.m. hail and wind damaged tobacco, corn and garden crops in Bath county from Poiksville on through the Wyoming and Okla sections; several trees were downed by wind; hail damaged mobile homes and roofs of houses near Salt Lick, Bath county.							
Hancock County	13	6:45 a.			0	0	3	0	Tornado
		The storm struck a house on the Happy Hollow Road 4 miles south of Havesville. Apparently it damaged the house at the top of a hill, and then moved on without striking anything else. The windows were reported to have popped out; part of the roof was removed, as were shingles, plywood siding, shingles and other items. A storm window was found 1/2-mile away, unbroken. Debris from the house was seen flying through the air at two points, 1/2-mile and 3/4-mile away. Some of the lighter weight furnishings such as drapes, towels and pictures were scattered over a radius of two miles. The storm was accompanied by heavy rain.							
Extreme west	13	A.M.			0	0	?	?	Flooding, wind
		Heavy rains between 3 and 7 a.m., totaling unofficially 4 1/2 inches or more in several locations, resulted in local flash flooding which was reported as damaging thousands of acres of crops in Graves, Hickman and Fulton counties (There was especially heavy damage to a 195-acre corn crop in Graves County.) There was flood-							
<b>Kentucky (continued)</b>									
		ing of several streets of Fulton, Fulton County, A shed was un-							
Ballard County	20	8:50 p.							Funnel cloud aloft
		in Carlisle County.							
Jefferson County	25	5:40 p.			0	0	0	0	Heavy rain
		A funnel cloud was reported in the vicinity of Barlow.							
Madison County	26	P.M.			0	0	4	0	Wind
		In a 40-minute period, 3 1/2 miles northeast of Standiford Field, Louisville, 3.10 inches of rain fell along with a brief period of 1/2-inch hail.							
		A screen at a drive-in theater was heavily damaged by wind, and two barns were unroofed. A number of trees were downed.							
Louisiana									
East Baton Rouge Parish	1	1:35 a.	200		0	0	4	0	Tornado
		Storm moved southwest to northeast. Location about two miles south of Zachary. Residence unroofed and several sheds damaged.							
Franklin Parish	1	4:40-4:45 p.							Funnel Cloud
		State police reported a funnel aloft moving northeastward in the Crowville area.							
Iberia Parish	2	2:45 a.			0	1	3	0	Lightning
		Young boy slightly injured by falling sheet rock as lightning knocked gaping hole in New Iberia residence.							
Cameron Parish	4	2:55-3:15 a.			0	0	3	0	Hail, wind
		Golf ball size hail damaged roofs, broke windows, winds blew some tree limbs down at Gibbstown. Hail also reported at Sweet Lake and Grand Lake.							
Offshore	21	Morning							Waterspouts (5)
		Two waterspouts sighted from oil rig (28.6°N., 90.3°W.), one at 7:45 a., other at 9:30 a. Another over Lake Racourci, Lafourche Parish (29.5°N., 90.5°W.) sighted at 10:30 a.							
Offshore	22	About 7:30 a.							Funnel Clouds
		Pilot reported sighting several funnel clouds aloft just south and east of Sabine Pass.							
Offshore	22	12:48-12:59p.							Waterspout
		Coast Guard group, Grand Isle reported moving west about nine miles offshore.							
Plaquemine Parish	24	9:02 a							Funnel Cloud
		Pilot reported funnel pendant three miles southwest of MAS, New Orleans (A. Callender Field)							
Plaquemine Parish	24	1:50 p.							Waterspout
		Pilot reported over Barataria Bay, eight miles northeast of Grand Isle.							
Calcasieu Parish	25	5:20 p.			0	0	?	?	Hail
		Public report marble to golf ball sized hail sections of Lake Charles.							
Calcasieu Parish	27	11:45 a.							Funnel Cloud
		Reported 15 miles east of VBO, Lake Charles.							
De Soto Parish	27	4:20 p.	Short Narrow		0	0	4	?	Tornado
		Small tornado reported by state police 1/2 mile south of Stonewall. Roofs on four houses damaged and third of large broiler house destroyed. Heavy rain and some small hail accompanied storm.							
Maine									
Central and southern	11	P.M.			1	4	5	0	Lightning, wind
		Scattered thunderstorms throughout area. Accompanying winds were especially severe in the general Waterville-Winslow area. New farm building damaged at Clinton. Many trees and limbs felled with damage to utilities, buildings, and vehicles. Lightning killed one and injured three at Hampden and injured another at Augusta. A man in Washington County was struck without injury. Considerable lightning damage to utilities and buildings. A barn at Farmington was a total loss.							
Maryland									
Hillsboro, Caroline County	5	11:00 p.			2	3	4	0	Lightning
		A mother and her two-year old son were burned to death after lightning struck their two-story frame house. Her husband and two other sons were treated for minor burns and shock. Strong winds caused the fire to spread rapidly through the dwelling.							
Central Eastern Shore	5-6	Late evening-early morning			0	0	5*	C	Heavy rain, lightning, hail
		Thunderstorms brought heavy rain, especially to parts of Dorchester and Kent Counties. A number of fires attributed to lightning.							

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS		
Maryland (continued)										
										Hail fell in several areas; damage was not indicated. The Cambridge Cooperative Weather Bureau station reported a rainfall of 4.06 inches on the 5th, a record one-day June total. Flash flooding was also reported. In Kent County, rains caused an estimated \$50,000 damage to roads; the county roads engineer reported that this was the most damaging storm to roads in the last forty years.
La Plata	6	2:15 p.			0	1	4	0	Wind, hail	
										Thunderstorm winds uprooted at least 100 trees, damaging automobiles and houses, overturned trailer and broke window panes. Although hail was mostly small, 1/4-inch in size, it piled up in spots 2 to 4 inches in depth; some of it was reported still on the ground after five hours. The occupant of an office trailer received minor injuries when it was overturned; also many office machines were destroyed or badly damaged.
Friendsville(near)	9	4:00 p.			0	0	3	0	Lightning	
										Fire destroyed a one-story house after being struck earlier by lightning. Fireman had brought the fire under control but later the fire again broke out and destroyed the house.
Northeast portion, including Baltimore (City)	12	Late afternoon-early evening			0	0	4	0	Wind, hail	
										Thunderstorm winds caused widespread power and telephone service failures in the metropolitan area; more than 16,000 customers were affected. Winds also uprooted many trees. Hail, to the size of 1 1/4 inches, and estimated gusts to 60 knots were reported 25 miles north of Baltimore.
Northern portion from Washington County eastward	18	Late afternoon-early evening			0	0	5	0	Wind, lightning, hail	
										Violent thunderstorms brought damage to scattered areas. At Hurlock, a brand-new steel building collapsed under high winds; roofs were ripped off several buildings; and several vehicles, including at least one trailer, were overturned. Lightning destroyed at least two buildings and damaged others. Many trees were uprooted or broken off, including a large number in a 1/2-mile path near Maryland Line. Large hail, up to baseball and softball size, was reported in Harford and Baltimore Counties; damage was confined mostly to automobiles and buildings.
Phoenix-Jacksonville-Cockeysville area	18	5:30 p.			0	0	4*	0	Hail	
										Large hailstones, to softball size, were the largest in the memory of the older residents. Some were embedded 2 to 4 inches into the ground. Damage was mainly confined to automobiles and buildings although some light crop damage was noted.
Denton	21	12:00-12:30 p.							Heavy rain	
										Approximately three inches of rain was reported by the Weather Bureau Cooperative Observer as falling in 30 minutes. Some minor flash flooding along the streams in the area was reported.
Seyern River	21	11:30 a.			1	0	0	0	Wind	
										A 47-year old man died of an apparent heart attack after his small sailboat capsized during a thunderstorm. His wife and three children were rescued.
Crisfield	21	12:30 p.			0	0	5	0	Wind	
										A vicious windstorm inflicted damage in a path extending several miles to the north of this community. A large masonry warehouse, just completed last year, was demolished; trees were uprooted; and a large, empty chickenhouse and two large trailers were demolished.
Parsonsborg(near)	25	3:30 p.			0	0	4	0	Lightning	
										Fire, apparently set by lightning, destroyed a large barn, including equipment, hay, straw and feed.
Massachusetts										
Eastern	3	Evening			0	2	4	0	Lightning, wind, rain	
										Lightning struck a farmhouse in Southboro, knocking down two occupants, but without serious injury. Scattered lightning damage to buildings and utility lines. Minor damage from locally strong wind and flooding rain.
Southeastern	6	Early AM			0	0	4	0	Lightning	
										Scattered strikes damaged buildings, including several homes. In Falmouth a bed was struck and set afire, with no injury to occupant.
Northwestern	18	6:30-7:30 PM			0	0	5	0	Thundersquall, tornado	
										A severe thundersquall crossed the New York state line zigzagging eastward through Williams-town, North Adams, Florida, Rowe, and to about Heath, for a path of about 25 miles. Most severe destruction was limited generally to a width of 1 to 1/2 mile. Trees and utilities suffered the brunt, with many trees and limbs falling on and crushing cars, buildings. Many roofs, signs, poles, etc., damaged. Many narrowly escaped injury from flying or falling objects. A tornado funnel was reported for a short time in Williams-
Massachusetts (continued)										
State	18	Evening			0	0	4	0	Lightning	
										town. It seemed to be not well developed, with manifestation near the ground consisting mostly of debris circling in the vortex. Some hail accompanied the storm, mostly less than 1/2 inch in diameter. Heavy rain for a while.
Michigan	10	6:15 PM			0	0	2	0	Hail - Lightning	
Marquette, Marquette County										Scattered lightning damage. The most unusual was the rupture of an above-ground swimming pool in Beverly, resulting in a cascade of water rushing into and flooding a cellar.
Perry, Shiawassee County	11	Late PM			0	0	0	0	Hail	
										Ping pong ball size hail fell in Perry. No reports of damage due to hail.
Southeast Lower Michigan	11	6 PM-Midnight			0	0	5	0	Lightning	
										Series of thunderstorms moved eastward. Lightning damaged 4 homes, one extensively; 6 barns, 4 completely destroyed and 1 lumber company. Lumber company losses were estimated at \$30,000; 2 barns, \$16,500; no estimated loss available on remaining buildings.
Detroit, 22 NW Livingston County	12	16:35 PM			0	0	2	0	Funnel aloft.	
										Report based on radar from Detroit. No damage reported. About 6 PM, a trailer at Howlerville was damaged by wind, no injuries reported.
South Bend, Indiana 11 ENE, Cass County	14	4:43 PM			0	0	0	0	Hail	
										The one-inch hail reported at Edwardsburg caused no damage.
Ionia, 5 S Ionia County	14	Late PM			0	0	3	0	Hail - Lightning	
										Golf ball size hail fell in one mile square area, only minor damage reported. Lightning killed 13 cows under a tree near Big Rapids, loss estimated at \$1,000. Mostly minor damage reported throughout southern Michigan due to wind, lightning, and hail. Ping pong ball size hail was reported near Perry in Shiawassee County.
Flint, 25 SW Livingston County	16	21:04 PM			0	0	0	0	Funnels aloft.	
										Three funnels aloft confirmed, no damage reported.
Southern Lower Michigan	17	2-6 PM			0	4	5	0	Thunderstorms - Lightning	
										Thunderstorms, gusty winds and lightning caused variable amounts of damage throughout southern Michigan. At Monroe, lightning injured a woman working in her kitchen; at Port Huron, 3 persons were injured when wind blew out a large plate glass store window. 3 railroad cars started moving by the wind were derailed five blocks away, a shop and antique car at Coldwater were lost in lightning-set fire. Wind damaged a roof at Sturgis and 2 camper trailers. Localized flooding reported. Five cows were killed by lightning near Cass City.
Kalamazoo, 25 SSW St. Joseph County	17	16-16:25PM			0	0	0	0	Funnels aloft.	
										Funnel aloft, observed by sheriff at Jones, moved eastward and was sighted again near Bronson but did not touch down.
West Upper Peninsula	17	PM			0	0	0	0	Hail	
										Hail, one inch in diameter at Big Bay and 3/4 inch in diameter at Stephenson, caused no known damage.
Muskegon, 10 S Ottawa County	17	11-11:30PM			0	0	5	0	Lightning	
										Lightning-set fire destroyed Spring Lake supermarket. Loss set at \$100,000.
Southern Lower Michigan	18	12:30-5AM			0	0	5	0	Lightning	
										Severe lightning storm moved across state; 4 barns destroyed by fire; 1 garage, 2 homes were damaged. Large losses include: \$30,000 near Port Hope where two barns, 25 head of cattle, feed and supplies were destroyed; \$38,000 at Grant where large barn destroyed. In East Lansing, an alarm clock was disintegrated by the lightning.
Dearborn, Wayne County	24	1-4 PM			1	1	3	0	Lightning - Wind	
										Lightning stroke killed one golfer returning to clubhouse, his wife, accompanying him, was uninjured. At Gross Pointe Park, a woman was injured by a falling tree limb. Many trees were toppled, damaging power lines and cars in the Detroit area.
Minnesota Cook, St. Louis and Koochiching Counties	2-4				0	0	5	0	Local Flooding	
										Heavy previous rains with the addition of 7.57 inches locally at Cook the 2nd to the 4th pushed the Littlefork River out of its banks. On the morning of the 4th high water through the low lying areas in and around Cook caused flooding of most business places and more than 200 people were moved from their homes. Most all roads in and out of area were blocked and many were washed out. Ely also reported some basement flooding.

See reference notes at end of table.

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JUNE 1970

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					KILLED	INJURED	PROPERTY	CROPS	
Minnesota (continued)									
Clay County	7				0	0	0	4	Hail
Southern Half of State	10-11	Evening & Early Morning			0	0	4	5	Hail and Wind
St. Paul Ramsey County	10	2:05pm			1	2	0	0	Severe Thunderstorm
Louisburg, Lac Qui Parle County	12	6:35pm			0	0	3	0	Winds
Goodhue & Winona Counties	13	3:30pm - 5:00pm			0	0	4	4	Hail, Winds
Lake Benton & NW Lincoln County	15	10:15pm	6	narrow	0	0	5	3	Tornado
Southwest and South Central	15-16	Afternoon to early morning			0	0	5	6	Severe Hail With Winds & Tornadoes
Milaca 2W Mile Lac County	16	1:30am	2		0	0	4	0	Strong Winds

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)									
Ada Norman County	16	about 4:00am	2.99	inches	0	0	3	?	Heavy Rain
Dodge, Freeborn, Mower, Olmsted, Wabasha and Winona Counties	17	3:00-5:00pm			0	0	3	5	Hail and Winds
Lengby 3SE, Minn. Polk and Mahanomen Counties	25	5:05-5:25pm	10	20	0	0	4	0	Tornado
Gibbon 4N, Sibley County	25	7:30pm	short narrow	0	0	0	0	0	Tornado
Line From Ada to Albert Lea	25	Afternoon & Evening	280	10 mi	0	0	5	5	Hail Storms
Northwest	April - June				0	0	0	7	Continuous Rains
Mississippi Pike County	1	About 5:30 a.m. - 5:45 a.m.	3	100	0	0	?	0	Tornado

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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)									
Northwest Mississippi	1	4:45 p.-7:15 p.			0	0	?	0	Heavy Rain
									Radar indicated areas of showers and thundershowers: At 4:45 p.m. CST a scattered area of thundershowers newly developed from 20 SW Memphis to 5 N Sardis, to 5 NE Charleston, to Coahoma to 20 SW Memphis. At 5:45 p.m. CST the area was broken, some storms with locally heavy rainfall up to 1 inch per hour and extended from W. Tennessee and E. Arkansas into northern Mississippi to Drew, Sunflower County; the area was 45 miles wide with movement towards NE 20-25 m.p.h. At 6:45 p.m. CST the area was scattered some locally heavy storms with rainfall amounts around 1 inch per hour extending from near Rosedale, Bolivar County, NE into Tennessee; the area was 35 miles wide. At 7:45 p.m. CST the area was scattered with a line of activity across W. Tennessee SW to 20 SW Clarksdale; this line was 30 miles wide with little movement indicated in Mississippi.
Hinds County	4	9:30 a.			1	0	0	0	Lightning
									Lightning struck and killed 46 year old man as he ran across Hinds County Welfare Department parking lot at Jackson.
Coahoma County	4	Afternoon	?	?	0	0	0	?	Hail, Funnel Cloud Aloft
									Newspaper noted, "Hail destroyed about 250 acres of young cotton just outside Clarksdale. . . . Hail fell along U. S. 61 inside the city limits and damaged cotton on the nearby plantations. . . ." (three). "Some hail fell near Lyon, but that was the only other area in the county to get hail. . . . At . . . extreme west Clarksdale," two men "spotted a dark cloud which they thought was a tornado. It was high in the sky, however, and never touched ground."
Washington County	4	About 2:00 p.			0	0	?	0	Tornado
									Public saw storm "from about 2 to 3 miles distance, just a long funnel from clouds to the ground. . . didn't see it over 30 seconds when it went behind clouds and out of our view;" location appeared to be 4 SE Greenville airport (lat. 33.4° N, long. 91.1° W) touching down into wooded area. No mention in local newspaper.
Northeast Mississippi	4	p.m.			0	0	?	?	Hail, Wind
									Associated Press reported, "Golf ball size hail and high winds were observed at the Four Corners community near Carthage (Leake County) and at Ashland (Benton County), Macon (Noxbee County), Columbus (Lowndes County) and Corinth (Alcorn County)." ALCORN COUNTY: Newspaper noted, "Sections of the county were hit by a deluge of rain yesterday (4th) afternoon late in a thunderstorm accompanied by heavy hail. No serious damage to crops and gardens has been reported." LOWNDES COUNTY: At 5:15 p.m. radar showed a hook echo over Mayhew. OTHER COUNTIES: See below.
Leake County	4	2:00 p.-3:00 p.	10	*2	0	0	0	4	Hail
									LEAKE COUNTY: Storm moved from SW toward NE but movement irregular. Hail in NE part of county along a path 2 miles wide and 10 miles long; ground covered 1-2 inches; hail averaged 3/4", largest up to golf ball size. County Agent estimated crop damage \$20,000. Woman reported marble to golf ball size hail 3:00 p.m. Remus Community 15 NE Carthage (lat. 32.9° N, long. 89.° W).
Neshoba County	4	3:00 p.-3:20 p.	?	?	0	0	?	?	Hail
									NESHOPA COUNTY: Storm moved from SW towards NE. Hail in NW part of County 3 p.m. to 3:20 p.m. CST, covered ground up to depth of 6 inches; hailstones averaged 1/4 inch, largest 1/2 inch.
Oktibbeha County and nearby	4	3:18 p.-4:00 p.							Funnel Cloud Aloft
									Pilot reported 15 S Starkville in vicinity Bluff Lake, (lat. 33.2° N, long. 88.8° W) at 3:18 p.m., a funnel cloud moving towards NE about 30 m.p.h.; radar indicated top at 30,000 ft. At 4:00 p.m. pilots in Starkville and Bluff Lake vicinity reported no evidence of funnel clouds, tops of the thunderstorms 36,000 ft. No reports received of damages indicative of a touchdown.
Winston County	4	3:30 p.-4:50 p.	10	*3/4	0	0	4	4	Hail, Funnel Cloud Aloft, Wind
									WINSTON COUNTY: Storm moved from W to E. Hail fell from the SW border of the county to the W of Louisville, in a strip about 3/4 mile wide and 10 miles long; it covered the ground up to a depth of 4 inches, average diameter hailstones 1 inch and ranged up to 1 3/4 inches. ASCS manager estimated crop damage \$20,000. Woman who after the storm visited a farm on the border of the county said, "The hail was actually kneedeep in drifts. On the level places in the yard it was almost a foot deep." She said that on the morning following, the hail at her home was at side top depth. In the Liberty Community about 10 SW Louisville (lat. 33.0° N, long. 89.2° W) the crops suffered severe damages, almost every garden in the community was badly hurt or destroyed; damages were estimated \$2,500; hail the size of golf balls severely damaged corn and ruined bean vines, tomatoes and punch butter beans; a man wrote, "This was a tornado but it never did dip clear to the ground. It stayed around 25 to 30 feet high." There was wind damage to small buildings. At 6 W Louisville the Highway Patrol reported at 4:15 p.m. marble size hail, high winds, very heavy rain occurring and for the past hour hail causing considerable damage. No damage was reported in Louisville but to the S on Highway 15, tree and roof damage was

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)									
Noxbee County	4	3:30 p.	10	*1/2 - *2	0	0	?	4	Hail
									NOXEBEE COUNTY: About 3:30 p.m. hail fell in NW corner of county, to W, NW and N of Brooksville along a path 1/2 to 2 miles wide and about 10 miles long. The young cotton was stripped. Hail covered ground, depth 3 to 6 inches; hailstones averaged 1/2 inch and ranged up to 1 inch. County Agent estimated \$10,000-\$20,000 damages. A truck driver reported it hailed so hard, he could barely see enough to keep his vehicle going.
Jackson County	4	6:45 p.-7:30 p.							Funnel Cloud Aloft
									Funnel cloud sighted at 6:45 p.m. just N of Pascagoula (lat. 30.4° N, long. 88.6° W) moving towards E. At about 15 N mouth Pascagoula River (lat. 30.4° N, long. 88.6° W) between 7 and 7:30 p.m., a funnel cloud was reported; there were no reports of damage or injuries then. Neither Pascagoula Civil Defense nor officials of shipyard received later reports of "significant damage."
Yalobusha County	11	9:00 p.-9:30 p.	3	1800	0	0	0	4	Hail
									Storm moved from W towards E. County Agent reported hail fell along path 1800 yards wide and 3 miles long in areas near Oakland, E of Interstate 55, S of Miss. #330 in vicinity 10th Section. The farmers affected reported hail fell over approximately 175 acres; there was 100 acres of cotton destroyed, some corn damaged; the estimated damage was \$15,000. Hail partially covered ground, size was not reported.
Tunica to Marshall Counties	13	p.m.			0	0	?	?	Thunderstorms
									Newspaper noted, "Some hail, gusty winds and local flooding were reported in parts of . . . DeSoto, Tate, Tunica and Marshall Counties in Mississippi;" damage from the storm was reported as "slight."
Yalobusha County	13	4:00 p.-5:00 p.			0	0	0	?	Hail
									Highway Patrol at 4:45 p.m. reported golf ball size hail just W of Water Valley (lat. 31.2° N, long. 89.6° W). County Sheriff reported small hailstorm on west side of county moved from N to S, began 4:00 p.m., ended 5:00 p.m. There was a spotted small hailfall in the Oakland area but damage reported insignificant.
Panola County	13	Before 4:20 p.			0	0	?	0	Funnel Cloud Aloft, Wind
									Pilot sighted funnel cloud before 4:20 p.m. within 3 miles of Como (lat. 34.5° N, long. 89.9° W). No reports of damage indicative of tornado touchdown. Batesville newspaper noted, "A storm . . . struck the Good Hope Community Saturday afternoon. The storm destroyed a tractor shed. . . a large pecan tree was uprooted . . . a picture window blown out, and a porch destroyed. . . ."
Panola to Grenada Counties	13	4:00 p.-6:00 p.			0	2	4	4	Hail, Wind
									The storm moved into Tallahatchie County from Panola crossing the Yocona River several miles W of Highway 51. It then moved in an almost N to S direction to at least as far S as Highway 8 (W of Holcomb). The area of greatest hail damage was almost exactly parallel to the valley wall extending from a couple of miles NW of Charleston, approximately 10 miles S to the Levertet community. The hail damage was spotted with an entire crop destroyed on several farms W of Charleston, then skipping 3 or 4 miles S to another area of severe damage. Wind damage was in about the same area as the hail but tended to be not as spotted as the hail; it swept down the edge of the valley destroying 3 trailer homes in the Paducah Wells area, 2 NW Charleston, damaging roofs and NW equipment in a path 3 or 4 miles wide as far S as Highway 8. TALLAHATCHIE COUNTY: Newspaper noted, "In the Levertet community (8 S Charleston), considerable damage was done to some vehicles and homes." The County Agent published, "The area hardest hit began just north of Paducah Wells and traveled south-southwest for some 5 miles. The path of the storm was in the vicinity of 1/2 to 3/4 mile wide." He reported hail covered the ground up to a depth of 1 inch, the average diameter of the hailstones was 1/2 inch and the largest 2 1/2 inches. The storm lasted from 5 p.m. to 5:30 p.m. and the hail occurred at 5 p.m. He estimated crop damage as \$35,000 from hail and \$5,000 from rain, with property damage \$15,000 from wind. He reported that the wind casualties were 2 injured. GRENADE COUNTY: At 5 W Oxberry, on Highway 8, hail fell at 5 p.m. in an area 1 mile by 1/2 mile and covered about 3/4 of the ground; average diameter of hailstones was 2 inches, the largest was 3 inches. Man noted, "There was heavy wind over head but did not touch down. . . . Damage was one windshield in truck - crops were not hurt much, some hail was flat about 3 or 1/2 inches across," he estimated hail damage to property at \$125,000.
Harrison County	15	1:30 p.			0	0	3	0	Wind, Heavy Rain
									About 12 NW Biloxi (lat. 30.4° N, long. 89.1° W) two pine trees, twisted off high up, fell on top of a new family camp nearing completion. Almost a total loss was reported with damages estimated to \$2,000. Newspaper reported showers fell in "Biloxi" for several hours and left streets flooded and impassible in many areas."

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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)									
Alocoo County	18	Before 5:44 p.			0	0	7	0	Wind
		Severe thunderstorm passed over Corinth (lat. 34.9° N, long. 88.5° W); some trees blown down and very heavy rains. Police reported 2 trees down Highway 72 W of Corinth; 2 trees across Highway 45 just N of Corinth blocked road.							
Lafayette County	20	3:30 p.	short narrow		0	0	7	0	Tornado
		Highway Patrol reported tornado touchdown Highway 6, 5 E Oxford (lat. 34.4° N, long. 89.6° W); uprooted trees and a fence. Newspaper noted, "Severe thunderstorms and hail were also reported in the area, . . ." Some local flash flooding and minor wind damage in county.							
Carroll County	21	3:00 p.- 3:45 p.			0	0	7	0	Wind, Thunderstorms
		Public reported severe thunderstorm 3 p.m. in Carrollton; Highway Patrol reported marble size hail, very heavy rain, traffic stalled. At 3:30 p.m. Highway Patrol reported several trees uprooted and over highway west of Carrollton (lat. 33.3° N, long. 89.9° W). At 3:45 p.m. radar indicated a large very heavy thunderstorm from W of Winona, over Carrollton to over Greenwood moving to E at 10 m.p.h.							
Holmes County	21	4:30 p.			0	0	7	7	Wind, Heavy Rain, Hail
		Newspaper noted, "Tchula and the Delta area of Holmes County bore the brunt of a driving rain and windstorm, accompanied by hail the size of marbles, around 5:30 p.m. (4:30 p.m. CST). . . . In Tchula four to four and one-half inches of rain fell in less than an hour late Sunday afternoon (21st) and hail the size of marbles damaged cotton and soybean crops. Five or more giant oak trees were uprooted breaking power and phone lines. Uprooted trees blocked both Highways 12 and 49-E. . . . In Tchula. . ." a home "was lifted off its foundation and a number of business firms received some damage to awnings. . . . A number of plantations reported damage to crops. . . ." About 1 1/2 NW Tchula, hail began about 5:00 p.m. and hailstones with average diameter of 1/2 inch and largest 1 inch partially covered ground of an area 3 miles square along a path approximately 3 miles long and 0.8 mile wide. The Highway Patrol reported marble size hail at 5:05 p.m. just S of Tchula on Highway 49.							
Leflore County	21	Around 5:20 p.			0	0	7	7	Wind, Hail
		Under headline "Weekend weather does minor damage" newspaper noted ". . . rain accompanied a thunderstorm which struck Leflore County Sunday afternoon (21st) and the accompanying hail damaged crops in the northern section of the County. . . . Most of the damage was confined to the 'bend of the river' section near Money. . . about 250 acres of cotton and soybeans were heavily damaged. . . . Wind damage was reported on the Archula Plantation where a house was damaged by a falling tree. . . . Power lines were down in several areas North of Greenwood. . . . Schlater, Minter City and Phillip had power outages caused by the wind. . . a pole on the main feeder line was broken near Schlater and three other poles were down." The power lines were down at Schlater (lat. 33.6° N, long. 90.1° W) at 5:20 p.m.							
Madison County	21	5:25 p. 5:45 p.			0	0	5	0	Wind
		Storm moved from N to S. At Bruce Campbell Field (Madison Airport) (lat. 32.5° N, long. 90.2° W) two thunderstorm cells seemed to merge overhead with clouds having a roll motion with great turbulence. It started to rain and in a few minutes torrential rains hit and then (about 5:25 p.m.) the terrific wind with gusts estimated up to 81 m.p.h. Half-inch and larger hail fell and brief, but heavy, rain came down. Two Cessna aircraft and a smaller locally built plane were overturned and so extensively damaged that they are total losses; three other planes were damaged; the porch roof on the main office building was torn off, and extensive water damage was done to the interior; roof of concrete block oil storage building blown off and its walls torn out; damages estimated at \$100,000. Hail 1/2 inch was reported. At 5:30 p.m. a woman reported hail near golf ball site in the vicinity of Madison (lat. 32.5° N, long. 90.2° W). At 5:35 p.m. the severe thunderstorm was reported S of Madison, between Madison and the Ross Barnett Reservoir moving towards ENE 12 m.p.h. At 5:45 p.m. radar indicated a large very heavy thunderstorm with hail and strong gusty winds from the Madison and Canton area eastward to between Brandon and Pelahatchie (Rankin County) moving towards E at 22 m.p.h.							
Hinds County	21	7:10 p.- 8:00 p.			0	0	7	0	Funnel Cloud Aloft, Thunderstorms
		Newspaper noted, "Thundershowers and thunderstorms came to much of Central Mississippi late Sunday afternoon (21st) and to parts of Jackson. Several sections of Northeast Jackson, West Jackson and Southwest Jackson reported rain in varying amounts. But there were still some dry spots after the frontal system moved away. . . . Hinds County sheriff's deputies said water was so deep at Spring Ridge and McRaven Roads, from rainfall here that 'you can't get through in a pickup.' At the same time" . . . a County Patrolman "reported 'knee deep water' at Hanging Moss and Heasley, but returned to his home near Kicksap and said 'we haven't had a drop of rain.'" At 7:10 p.m. radar showed a hook echo S NE Raymond moving towards E at 10 m.p.h. At 7:32 p.m. Highway Patrol mobile unit went through Raymond on Highway 18, saw electrical storm, rain and wind - no evidence of a tornado touchdown seen. About 7:33 p.m. pilot reported vortex aloft over his home in Clinton (lat. 32.3° N, long. 90.4° W) near Highway 80 moving E; very heavy strong winds. At West Jackson (lat. 32.3° N, long. 90.1° W) Civil Defense worker reported loud roaring in the clouds passing over his home. About 7:35 p.m. public reported a funnel cloud observed for about 2 minutes; the funnel cloud moved from SW towards NE and then dissipated. At 7:44 p.m. radar showed a possible hook echo 8 W Jackson Airport. At 8:00							

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Mississippi (continued)									
Harrison County	25	morning			0	0	7	0	Waterspout, Heavy Rain
		Waterspout began 7:50 a.m., dissipated 7:58 a.m. Biloxi Back Bay (lat. 30.4° N, long. 88.9° W). Newspaper noted, "Heavy rain. . . caused collapse of a section of U. S. Highway 90 at Edgewater Park. . . ."							
Humphrey County	25	Approx. 5:23 p.			0	0	7	0	Wind
		Highway Patrol reported wind with thunderstorm flipped aircraft Belzoni airport (lat. 33.2° N, long. 90.5° W).							
Jasper County	27	before 3:30 p.			0	0	7	0	Lightning
		At Bay Springs just after a bolt of lightning, a man and some boys passed a house and noticed its airport was smoking. The occupants of the house were away and it was destroyed by fire.							
Pike County	27	6:45 p.							Funnel Cloud Aloft
		McComb Police reported a funnel aloft observed SSE of McComb (lat. 21.3° N, long. 90.5° W) moving E, occasional lightning. Little wind in the vicinity of McComb; no reports of damage attributable to a tornado touchdown received.							
Hancock County	28	4:09 p.- 5:15 p.			0	0	7	0	Wind
		At 4:09 p.m. thunderstorm activity vicinity of Waveland with marble size hail and gusty winds. By 4:17 p.m. the thunderstorms had moved to over the coastal water; the maximum wind gusts were about 35 m.p.h. - no damage was reported. At 5:15 p.m., county sheriff at Bay St. Louis (lat. 30.3° N, long. 89.3° W) reported they now have light rain, wind gusts to 20 m.p.h., lights are out and a few trees down.							
Missouri									
N. St. Louis County	1	6:35 PM	6 (in Mo.)						Tornado
E. St. Charles into Jersey County, Illinois		A small northward moving tornado first touched down in the Missouri River bottoms of extreme north St. Louis County, 2 miles south of Pelican Island. The damage path crossed the eastern portion of Pelican Island as it crossed the Missouri River, crossed a narrow strip of extreme eastern St. Charles County between the Missouri and Mississippi Rivers and entered southeastern Jersey County, Illinois 7 miles upstream of the Alton Dam. The storm continued slightly west of due north to pass through Jerseyville, Illinois area (see Illinois summary).							
Benton, Scott County	1	6:50 PM							Funnel Aloft
		Public report of funnel cloud aloft moving northeast.							
Nevada, 7 S, Vernon County	3	10:30 AM							Funnel Aloft
		Civil Defense reports funnel aloft.							
S. Dunklin County	4	2:00 PM							Hail
		Marble sized hail heavily damaged an estimated 2000 acres of cotton, beans and wheat in a strip beginning in the Hollywood area and extending northeastward through the Arbyrd, Bucoda and Octa communities of southern Dunklin County.							
Farmington, 7 SE St. Francois County	4	4:39 PM							Funnel Aloft
		Funnel aloft observed receding into clouds.							
Marston, New Madrid County	4	7:30 PM							Funnel Aloft
		Funnel aloft reported moving northeastward.							
Stoddard County	5	5:25 PM							Funnel Cloud
		Public report of funnel cloud 30 south southwest of Cape Girardeau moving southeast.							
Barry, Stone, Christian, Greene, Webster Counties	11	9:30- 12:00 PM			2	4			Thunderstorm Winds
		Severe thunderstorms with damaging winds swept through portions of Barry, Stone, Christian, southeast Greene and southwest Webster Counties. The heaviest damage occurred in a swath from 2 miles west of Hurley to 3 miles north of Hurley in northwest Stone County. In this area many trees were uprooted, a new barn destroyed and several homes damaged. The injuries occurred when a car crashed into trees which had been blown across Route A 2 miles west of Hurley. Barnes were also destroyed 2 miles west of Purdy in Barry County and 1 mile southeast of Rogersville in southwest Webster County. The Eagle Rock Boat Dock at the Missouri Highway 66 bridge on the Roaring River arm of Table Rock Lake in southeast Barry County lost about a 100 foot section of the boat dock roof at 10:00 PM.							
Carrollton, 3 S Carroll County	12	1:35 PM							Tornado
		A funnel cloud was observed to descend, touch ground briefly picking up dirt and debris and left in a field just east of U.S. 65, 3 miles south of Carrollton.							
Mound City, 1 S Holt County	12	1:45 PM							Funnel Aloft

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS		
Missouri (continued)										
Bogard Area Carroll County	12	1:50-2:00 PM								Tornado
		Two funnel clouds aloft first reported sighted at 1:50 PM about 10 miles north of Norborne moving northeast preceded a tornado which caused damage on six farms from a point 1-1/4 miles north and 1 mile west of Bogard northeastward to left, just west of U.S. 65, 3/4 mile north of the Route M Junction. Damage was confined mostly to trees and roofs.								
St. Joseph, Buchanan County	12	2:26 PM								Funnels Aloft
		Missouri Highway Patrol reported two funnel clouds cited 3 miles north of St. Joseph Airport.								
De Witt, Southeast Carroll County	12	1:50 PM								Tornado
		A funnel cloud was observed by Carroll County Sheriff Patrol to drop down momentarily to treetop level at the U.S. 24 Missouri 141 Junction, one mile east of De Witt in southeast Carroll County. Damage was confined to trees on three farms just north of Highway 24.								
Carrollton, Carroll County	12	2:00 PM								Funnel Aloft
		A funnel cloud first observed between Norborne and Carrollton passed above the northern parts of Carrollton as it dissipated aloft.								
Brunswick, southwest Chariton County	12	2:00 - 2:15 PM						4		Wind-Hail
		Large hail and high winds caused scattered damage in southwest Chariton County between Brunswick and Triplett and northeastward to the Indian Grove Community about 7 miles northeast of Brunswick. Hailstones of baseball size did considerable crop damage and some structural damage on farms from 2 miles east of Triplett northeastward for about 3 miles and collapsed another older barn on a farm 3 miles northeast of Brunswick.								
Mussel Forks, Brynmville NE to 5 SSW of Callao, southwest Macon County	12	2:30 - 3:00 PM	17	400				5		Tornado
		An intense tornado cut a swath of near total destruction across more than a dozen farms from the Mussel Fork Community at the junctions of Routes DD and O, 7 miles southwest of Brynmville to a point 1-1/2 miles east and 1 mile south of Brynmville. Three homes, one mobile trailer, and the barns were totally destroyed. Five homes and ten barns suffered extensive damage. Some observers in this area reported sighting 2 and 3 funnel clouds at one time appearing at times to be moving in line and at other times abreast. Hailstones 3 to 4 inches in diameter fell. From this point the apparent damage path crossed the open fields of the Chariton River bottoms as it turned nor northeastward to Buster's Bridge on the Chariton--Macon County line 3 miles north of the southwest corner of Macon County. Buster's Bridge, a single span of steel girder construction built in 1927, was lifted bodily and dropped into the river northward (upstream) one span length from its original location. North northeast of the bridge extensive damage or destruction of outbuildings, barns and farm machinery occurred on three farms with lesser damage on five others, ending just west of Missouri Highway 3, 4 miles south of U.S. 36 5 miles SSW of Callao.								
Callao, 2 E Macon County	12	About 3:15 PM						1		Wind
		A 23-year-old Missouri State Highway Patrol Trooper on weather reconnaissance patrol was killed when apparently a strong gust of wind forced his eastbound patrol car into the railing on the south side of the Middle Fork Bridge on U.S. 36, 2 miles east of Callao.								
Macon, Macon County	12	3:19 PM	7 1/2	100-200				1	6	Tornado
		A tornado which first touched down in a residential area on the west edge of Macon caused intermittent destruction across the north west portions of Macon and northeastward for 7-1/2 miles to finally lift just after crossing Route K 5-1/2 miles north of U.S. 36 (1-1/2 miles north of the Ten Mile Community). Observers in the 800 and 900 blocks of Rustic Drive and Sunset Drive where the tornado first touched down destroying one home and badly damaging 6 others described the approaching tornado as lacking the "traditional funnel shape" but appearing like a mass of boiling black clouds touching the ground. At the State Patrol Troop B Headquarters on U.S. 36 a 325 foot communication tower was toppled and the Headquarters building unroofed. A large crane was toppled at a bridge construction site on U.S. 36. In rural areas northeast of Macon at least two mobile homes were destroyed, several homes unroofed and many barns destroyed or badly damaged. Despite all of the destruction and flying debris only one person required brief medical treatment for injury. In an oddity of the storm a rubber welcome mat at the back door of the first house hit by the tornado was blown against the side of the house across the street leaving a clearly legible print of the word "WELCOME" on the white siding.								
Leonard Area Northwest Shelby County	12	Just before 4 PM	2						4	Tornado
		A tornado which may have been associated with the Macon tornado producing storm caused substantial damage to outbuildings on two farms in extreme northwest Shelby County. The path began 2-1/2 miles north and 1 mile west of Leonard and extended to a point 3 miles north and 3/4 mile east of Leonard. On these farms three								
See reference notes at end of table.										
Missouri (continued)										
Ewing Area Lewis County	12	4:20 PM	7						4	Tornado
		A tornado which first touched on a farm 3-3/4 miles west and 1-1/2 mile south of Ewing caused intermittent damage for seven miles to the eastnortheast through the edge of Ewing, ending on a farm 2-1/2 miles east and 1-1/2 mile north of Ewing. Several barns and outbuildings were destroyed, homes damaged and a restaurant on Missouri Highway 6 in Ewing was unroofed. Witnesses described multiple funnel sightings varying from 2 to 3 funnels.								
Mexico-Farber, Audrain County	12	4:40 - 5:10 PM	1 1/2	50-150					5	Tornado
		A tornado which first touched down just west of Route JJ, 1-1/4 mile south of U.S. 54 southeast of Mexico caused considerable damage to farmsteads to the eastnortheast for 15-1/2 miles apparently lifting just west of Route AA 1-1/2 mile south of Farber. Damage was particularly heavy from the point where the tornado crossed U.S. 54, a mile west of Route A, for the next 6 miles. In this stretch most buildings in its path suffering extensive damage or destruction, including the complete destruction of all buildings and equipment on a farm 1-3/4 mile east and 1/2 mile south of Rush Hill. The tornado again crossed U.S. 54 1-1/2 mile south of Laddonia, crossed Route K 2 miles east of Laddonia and before lifting, destroyed a barn and an unoccupied house on a farm 1-1/2 mile south of Farber. Multiple funnels were observed at several points along the path.								
Sedalia, 3N Pettis County	12	4:50 PM								Funnel Aloft
		Highway Patrol reports funnel aloft.								
New Harmony, Pike County	12	5:40 PM	2	50					4	Tornado
		A small tornado touched down on a farm 4 miles south and 2-1/2 miles west of Curryville west of Route V and the New Harmony Community and caused intermittent damage eastnortheastward through the New Harmony Church cemetery, lifting just west of Route M 3-1/2 miles south of Curryville. As the storm approached from the west two funnels were sighted, one of which dissipated. This tornado occurred 11 miles downstream from the Mexico-Farber tornado and may be associated with that storm.								
Bowling Green Area, Pike County	12	5:53 PM	1 1/2						5	Tornado
		The Pike County Sheriff observed a funnel cloud aloft approaching Bowling Green from the west pass directly over the city remaining aloft. What was apparently the same funnel was observed approaching and first touching on a farm 4 miles east and 1-1/2 miles north of Bowling Green. Damage occurred on five farms including the destruction of more than 1000 trees at the Paul Stark Orchards.								
Columbia, Boone County	12	6:15 PM								Funnel-Wind-Hail
		A funnel cloud aloft sighted northnorthwest of the Columbia Regional Airport appeared to be approaching the City of Columbia just before the northern half of the city was hit by wind, hail and torrential rains. A strip of wind damage to trees and power lines and four house trailers along the north edge of Columbia showed no evidence of anything but straight wind damage.								
Hatton Area, Northwest Callaway County	12	6:45 PM							4	Thunderstorm Winds
		A severe thunderstorm caused damage on three adjacent farms in northwest Callaway County in a swath from 1 mile southeast of Hatton to 2 miles east of Hatton. Trees were uprooted and homes, barns and outbuildings damaged.								
South Perry, Ralls County	12	6:45 PM								Thunderstorm Winds
		Severe thunderstorm winds destroyed a barn, uprooted trees and damaged a home on two farms 5-1/2 miles south of Perry.								
Sedalia, Pettis County	12	6:55 PM						1	4	Tornado
		Two cattle barns and two smaller outbuildings were leveled as a tornado touched down briefly on one farm south of Sedalia 3 miles south and 1-1/4 mile east of the U.S. 50-U.S. 65 Junction. The owner suffered facial cuts from flying glass.								
Amsterdam, Bates County	12	7:15 PM								Funnel Aloft
West Johnson County	12	7:15 PM								Hail
		One inch hail reported 20 miles west of Whiteman Air Force Base.								
West Johnson County	12	7:40 PM								Funnel Aloft
		Public report of funnel aloft 20 miles west of Whiteman AFB.								
Latour, southwest Johnson County	12	8:45 PM								Funnel Aloft
		Public report of funnel aloft.								
Pleasant Hill, Cass County	12	9:18 PM								Funnel Aloft
		A funnel aloft just south of Pleasant Hill.								
Eldon, Miller County	13	1:00 AM	3/4						4	Tornado
		A small tornado moving from northwest to southeast first touched								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
Missouri (continued)									
									down about 3/4 mile east of the U.S. 54-Mo. 87 Junction on the east edge of Eldon. Although most of the damage occurred at treetop level, an auto body shop on Route M was destroyed, two barns damaged and several homes damaged by flying debris. The tornado lifted after crossing a gravel road 1/2 mile south of Route M. Many area residents described the storm as roaring loudly and "gone in a matter of seconds".
Northwest Polaski County	13	11:45 PM							Funnel Aloft Public report of funnel aloft 10 miles northwest of Fort Leonard Wood.
Fellow's Lake, Greene County	14	2:05 PM							Funnel Aloft A funnel cloud aloft over Fellow's Lake northeast of Springfield was observed by ANG Helicopter and Sheriff deputies to descend to within 500 feet of the ground before retreating into the clouds.
Johnson Shut-ins State Park, Reynolds County	14	4:45 PM							Thunderstorm Winds Severe thunderstorm winds uprooted and damaged many trees in Johnson Shut-ins State Park, destroyed a nearby barn, unroofed a house and caused continued tree damage to Route KK. Park authorities described the damage as possibly tornadoic but this could not be confirmed.
St. Francois County	14	5:00 - 6:10 PM							Thunderstorm Wind, Hail and 2 Funnels Aloft Thunderstorms moving into southwest and central St. Francois County produced widely scattered wind and hail damage reports. A mobile home was destroyed on the King School road near Bismarck. Considerable tree and power line damage occurred in the Hickory Grove Community and along Indian Creek, southeast of Bismarck. A funnel cloud aloft was reported by the public just before 6:00 PM sighted from U.S. 67 north of Farmington and another at 6:10 PM sighted by the Highway Patrol between Desloge and Bonne Terre.
Maitland, 5 NW, Northeast Holt County	14	11:00 - 11:15 PM					4		Thunderstorm Winds Thunderstorm winds did considerable damage to outbuildings and equipment on three farms in an area 5 miles northwest of Maitland. Winds were strong enough to move a pickup truck sixty feet.
Nevada, Vernon County	15	1:32 AM							Funnel Aloft
Union, Franklin County	15	4:30 PM							Hail Three-fourth inch hail reported.
Maryville, Nodaway County	16	Midnight to 12:30 AM							Thunderstorm Winds Thunderstorm winds and rain with gusts estimated to 60 miles per hour swept an area of Nodaway County from Skidmore to Maryville and south of Maryville. A mobile home in Maryville was extensively damaged with the balance of the wind damage confined to trees and power lines.
Richmond, Ray County	17	1:30 - 2:00 AM					4		Hail, Wind A hailstorm with some stones reported to baseball size and associated with strong winds caused extensive damage in Richmond. Hailstones broke 400 windows of a greenhouse. Tree limbs and uprooted trees caused considerable power line damage. At the local golf course the greens were badly damaged by "thousands of pit marks from large hail," and a machine shed destroyed.
Clinton, Henry County	18	Afternoon					1		Lightning A 43-year-old construction worker at a hospital construction site was struck and killed by lightning.
Butler County	18	1:45 - 2:00 PM							Hail, Wind The State Highway Patrol reported golf ball size hail and wind downing trees in an area from 15 miles southwest to 15 miles south of Poplar Bluff, Missouri.
NE Douglas County, NW Howell County, SW Texas County	19	4:00 - 4:30 PM							Thunderstorm Winds Severe thunderstorm with damaging winds, and hail caused considerable tree damage and some roof damage in the area from Cabool to 10 miles south of Cabool to Willow Springs.
NE Hurley, Stone County	19	9:50 AM							Tornado A small tornado whose funnel cloud was reported by the Christian County Sheriff's office to have been observed from the Clever, Missouri High School moving from southeast to northwest destroyed outbuildings and unroofed a barn on two farms in extreme north Stone County, 5 miles south of Clever on Route K (2 miles east and 1 mile north of Hurley, Stone County).
West Plains Area, Howell County	19	5:55 PM							Hail 1-3/4 inch to 2-inch hailstones were reported in the Potterville
Missouri (continued)									area, 10 miles west southwest of West Plains to 4 miles north of West Plains.
Extreme southern McDonald County	19	9:50 PM							Hail 1-3/4 inch hail
Exeter, Barry County	20	Morning							Hail Golfball size hail with some stones to 3-1/2 inches pelted an area between Exeter and Wayne west-southwest of Cassville in Barry County.
North Central and East Central Missouri	20	11:30 - 3:30 PM							Thunderstorm Winds Thunderstorms associated with a northeast-southwest squall line moving rapidly southeastward over North Central and East Central Missouri produced a rash of wind damage reports in an area south-east of a line from the Breckenridge area of extreme northeast Caldwell County, through Brookfield, Macon and Shelby. The tornado and funnel cloud activity reported with this line and the most intense straight wind damage locations are enumerated below.
South Linn County (Forker Area)	20	11:30 AM					4		Thunderstorm Winds An east west swath of concentrated wind damage occurred from 1-1/2 mile west of Forker in extreme south Linn County, through Forker and eastward through the south Eagle Community and on towards Marcelline. Although the local press described the damage as due to a tornado, evidence of vortex motion was minimal and no sightings of an associated funnel cloud were reported. Just west of Forker an empty 6000 bushel metal grain bin became airborne, floated northeastward over a fence and settled to earth upside down in front of the farm home. In Forker a fifteen foot aluminum boat was found "more than 1/4 mile from its original location."
Macon, Macon County	20	12:15 PM	13/4				2	4	Tornado A Weather Bureau post storm survey indicated that Macon was hit by its second tornado in eight days. The storm cut a narrow west-northwest-east-southeast swath of intermittent intense damage through the south edge of Macon, the Fairgrounds and lifted 1/4 mile east of the Fairgrounds. In southeast Macon four mobil homes were destroyed. The injuries, requiring hospitalization, occurred to occupants of two of the trailers which literally exploded. A soft drink bottling company warehouse was unroofed, a Fairgrounds cattle barn destroyed and a small barn 1/4 mile east of the Fairgrounds destroyed. A city water department employee observed the funnel associated with the storm.
Fulton, 1 NE, Callaway County	20	1:30 PM							Funnel Aloft Public report of funnel cloud aloft.
Barton County	20	5:30 PM						4	Wind, Hail Bean and corn crops were destroyed, trees uprooted and roofs badly damaged by a combination of hail, high winds and a two-inch rain in a narrow swath from just north of Lamar, Missouri, eastward through the Bushnell Community.
Clara, Texas County	20	6:00 PM					1		Wind, Hail A severe thunderstorm with crop damaging hail uprooted many trees in the Clara area (4 WSW of Houston). One man was injured when an uprooted tree fell across Highway Z and his car crashed into it.
Northeast Iron County and Southwest St. Francois County	20	6:00 PM						4	Hail-Wind For the second time in a week the area of extreme northeast Iron County and southwest St. Francois County from south of Bismarck to Iron Mountain Lake and west to near Belleview was lashed by damaging hail, high winds and heavy rain. Corn crops on the area 1-1/2 miles west of Iron Mountain suffered nearly complete destruction.
Fredericktown, Madison County	20	6:15 PM							Funnel Aloft(2) Public reports of two funnels aloft in the Fredericktown area.
Southwest Missouri	20	6:00 - 7:15 PM							Wind-Hail Severe thunderstorms moving out of the northwest produced scattered damage in Jasper, Newton, Lawrence, and Barry Counties. Trees were uprooted and powerlines downed in the Joplin-Webb City area at 6:15 P.M. The Joplin Airport recorded winds to 55 miles-per-hour. A barn was destroyed on Highway 39 north of Mount Vernon in Lawrence County at 6:30 P.M. Neosho had tree and powerline damage at about 7:00 P.M. Cassville had minor wind damage at 7:15 P.M.
Cape Girardeau, Cape Girardeau County	20	9:09 PM							Wind Gusts to 59 miles-per-hour recorded at Cape Girardeau Airport.
Laredo, Southeast Grundy County	24	2:25 PM							Funnel Aloft Civil Defense reports funnel cloud.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED <sup>1</sup> DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
Missouri (continued)										
Browning, Linn County	24	2:42 PM								Funnels Aloft (3)
										Three funnel clouds aloft were reported by the public.
Jasper, Jasper County	24	4:00 - 5:00 PM								Hail
										Hail 1-3/4 inches in diameter accompanied an unofficial 4-1/2-inch rain at Jasper.
Springfield, Greene County	24	5:52 PM								Hail
										Hailstones ranging from 1 inch in diameter at the airport to a few stones up to 2-1/2 inches in diameter on the SMS Campus pelted Springfield.
Lee's Summit, Jackson County	24	6:00 PM								Hail
										1-3/4-inch hail reported in the vicinity of Longview Junior College.
Noel, McDonald County	24	Night					4			Wind
										Severe thunderstorm winds demolished five mobile homes at a mobile home factory south of Noel on Mo. Highway 59 near the Missouri-Arkansas line.
St. Louis, St. Louis County	25	5:00 - 6:00 PM								Wind, Rain, Hail
										A thunderstorm with some hail from pea to marble size, strong winds, and locally heavy rain caused widespread tree limb and powerline damage over the St. Louis Metropolitan area. The strongest winds apparently affected the southwestern suburban areas and the southern portions of the city.
Montana										
Glacier National Park	12-16				0	0	5	0		Heavy rain, flooding
										Heavy rains combined with spring runoff produced flooding that caused \$200,000 damage. Damage was mainly to roads. During this time more than 5 inches of rain was measured in a 24 hour period at the American end of Waterton Lake.
Madison County	3rd week				0	0	5	0		Flooding
										Almost 1 mile of Highway U. S. 287 was washed out below Quake Lake by the Madison River. Flooding was caused principally by spring runoff.
Phillips County, South of Malta	14	2:00 a.m.	?	?	0	0	?	?		Hail, wind
										Hail the size of large peas accompanied by strong winds damaged grain crops near the community of Harb.
Miles City, Custer County	18	8:53 p.m.	?	?	0	0	4			Hail
										Three quarter inch hail broke windows doing \$10,000 damage to glass in a greenhouse.
Two hundred mile wide area just east of the Continental Divide	27	Afternoon	200	250*	0	0	6	6		Strong winds, hail
										A line of very strong thunderstorms formed near the Continental Divide and moved eastward during the afternoon causing extensive damage in an area up to 200 miles east of the Continental Divide. The thunderstorm then continued into eastern Montana but with lesser intensity. Heavy hail damage occurred in the Fort Benton area and grain losses may exceed \$1,000,000 in this area. Crops were also destroyed in the eastern portion of the Helena Valley and scattered other locations. Wind gusts reached 84 mph at Great Falls, 73 mph at Helena, and 104 mph unofficially at an airline office at the West Yellowstone Airport. Heavy damage occurred to trees, especially north of White Sulphur Springs and near West Yellowstone. About 1/2 of all trees in West Yellowstone were uprooted. Property damage in West Yellowstone was placed at between a quarter to a half million dollars.
Southwest of Circle, McCone County	29	Evening	10	3/4 *	0	0	?	?		Hail
										Hail of unreported size broke windows and damaged crops.
Ten miles south of Custer, Big Horn County	29	6:00 p.m.			1	0	0	0		Lightning
										A 31 year old man was killed by lightning while riding a horse.
Nebraska										
East Central Nebr.	10	1:40p - 6:20p	55	Narrow	0	0	4	4		Severe thunderstorm, hail, funnel clouds
										A severe thunderstorm accompanied by heavy rains, hail, and some wind moved from David City north-eastward to a point north of Blair. Wind did
Nebraska (continued)										
										minor damage to trees and sheds. Damage from the hail was limited by the relatively small size of the individual hail areas. The hail ranging from 1/2" to 3" diameter fell at scattered sites enroute including points near Abie, Fremont, and Blair. Funnel clouds occasionally extended from the base of the clouds and were observed at David City, Fráge, and Fremont. See Bruno tornado report below.
Butler County	10	4:40p	Short	Narrow	0	0	4	0		Tornado
										Tornado touched down near Bruno. House damaged, four buildings demolished and four others severely damaged. Trees uprooted, etc.
Douglas County	10	About 6:45p	--	--	0	0	0	0		Funnel cloud
										Funnel cloud observed 22 miles west of Omaha.
Douglas County	10	About 6:45p	?	?	0	0	0	0		Hail
										Hail 1 1/2" diameter fell 22 miles west of Omaha.
Dakota County	10	7p	?	?	0	0	0	0		Hail
										Hailstones ranging from 1/2" to 3/4" diameter fell at Dakota City.
Southeastern half of State	11	Afternoon & Evening	300*	200*	0	0	4	0		Damaging Winds
										Numerous severe thunderstorms with isolated spots of wind damage over large area. Local downpours, but very little hail. Wind damage mostly to sheds, farm buildings, tree limbs, etc. Little damage to substantial buildings or evidence of tornadoes except at the two sites listed below at Alma and O'Neill. Wind damage sites included, but not limited to, the following vicinities: Maywood, Curtis, McCook, Oxford, Alma, Bertrand, Holdrege, Lexington, Arnold, Callaway, Hartington, Stanton, Fairbury, and Verdon.
Harlan County	11	Afternoon	Short	Narrow	0	0	4	0		Tornado
										Tornado destroyed a farmhouse except for house southwest of Alma. Tornado not observed, but a funnel cloud had been seen across State line in Kansas.
Holt County	11	Early Afternoon	?	?	0	0	0	0		Tornado
										Observed to touch down briefly about 2p to 3p several miles east of O'Neill. No damage.
Buffalo County	12	1:45p	Short	Narrow	0	0	0	0		Tornado
										Observed to touch down briefly just north of Elm Creek.
Harlan County	13	7:25p	Short	Narrow	0	0	4	0		Hail
										Hailstones ranging in size from 1 1/2" to 3" diameter fell briefly at Republican City and near Harlan County Dem.
Sheridan County	15	Evening	20*	2*	0	0	4	5		Hail, damaging winds
										Center of path from a point 5 miles south and 2 east of Rushville northeastward to 1 mile south and 1 mile east of Gordon. Hailstones 1 1/2" in diameter were driven by high winds. Crops completely destroyed in center of path. Winds damaged farm buildings.
Keith-Lincoln Counties	15	5:30p-7:00p	50	?	0	0	4	5		Hail
										Hailstorm moved from Paxton to Garfield area. Stone size ranged from 1 1/2" diameter in Paxton and 10 miles north of North Platte, up to 2 1/2" in the Garfield area. Crops were a complete loss in center of strip, small livestock killed, and considerable damage was done to building roofs, windows, and siding.
Custer and Valley Counties.	15	Unknown	?	?	0	0	0	4		Hail
										Hail fell in the Kern and Ansley areas of Custer County and in the Mira Valley and Sand Flats areas of Valley County. The strip in Mira Valley covered a 4-mile wide by 9-mile long area.
Dawson County	15	9p	-	-	0	0	0	0		Funnel cloud
										Sighted one mile north of Ootherburg.
20 miles SSE Hastings	15	10p	-	-	0	0	0	0		Funnel cloud
										Moving eastward at estimated 35 miles per hour.
Eastern Nebraska	15	8:30p - 11:00p	-	-	0	1	5	4		Damaging winds, funnel clouds and three tornadoes
										A north-south line of thunderstorms was positioned from central Knox County through eastern Antelope, Platte, Seward, and Jefferson Counties, at 9:15p. The southern end was evidenced earlier by thunderstorms and damaging winds along a north-south line through York, Fillmore, and Thayer Counties at 8:30 pm. Individual thunderstorm cells gave isolated tree, small building, and house trailer damage at numerous, but scattered points, as the line moved eastward across the rest of the State. However, the major damage occurred from four large cells moving northeast-

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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		
Nebraska (continued)										
										ward to eastward. Funnel clouds dipped from these cells and on some occasions reached the ground to constitute tornadoes. The northern-most of these cells moved northeastward from Norfolk, where a tornado touched down briefly in a trailer court, to Dakota City and South Sioux City. It left considerable damage to trees and farm buildings at scattered points along its path. The second cell did some damage in northern Butler county—moved east-northeastward and touched down at Arlington leaving a 200-600 foot wide path of damage intermittently as the funnel raised and lowered along a 12-mile strip in that vicinity. Damage from the second cell was last noted at Blair. The third cell moved from a point near Dorchester to Pleasant Dale. It was also observed to touch down briefly and intermittently, but did little damage. The southern-most cell moved nearly eastward along the Kansas border from Chester to Humboldt. Funnel clouds were observed dipping from this cell, but apparently did not touch ground although some tree limb and small building damage occurred from strong winds. Most of the tornado damage occurred at Norfolk (10:25p) and Arlington (10:25p), but the wind damage was extensive and in total exceeded that done by the tornadoes.
Nuckolls County	15	11:35p	--	--	0	0	0	0	0	Hail
										Three-fourths inch hail lasted about eight minutes, no report of damage.
Douglas, Dodge and Sarpy Counties	17	About 8:15a	10	5*	0	0	4	4	4	Hail
										Hail ranging in size from 1/2" to 3" fell in the Omaha vicinity being reported at Millard, Papillion, Bellevue, Offutt Air Force Base, and Papio. Comparatively few stones and short duration limited the damage. Crop damage was heaviest near Papio where corn and soybeans suffered up to 50% loss on some farms. Some hail also fell in the Nickerson-Fremont area.
Southern Panhandle & Southwestern Nebr	18	1p to 8p	200	4-8*	0	0	4	7	7	Hail
										An exceptionally large and severe hailstorm entered Nebraska in Banner County west of Harrisburg and moved southeastward for 200 miles, leaving Nebraska south of Stratton and Trenton. The hail strip frequently reached widths of 4 to 8 miles with small fringe storms further out. Banner, Kimball, Cheyenne, Deuel, Perkins, Chase, Dundy, and Hitchcock Counties were affected. Large quantities of 1/4" to 1/2" wind-driven hailstones cut wheat and corn to near ground level. Hail accumulated to depths of several inches at some sites and piled into drifts 2 to 3 feet deep. Highways were cleared with snow plows in southeastern Cheyenne County. At scattered points the stones ranged up to 1 1/2" diameter and inflicted damage to buildings and automobiles.
Franklin County	18	2:15p	-	-	0	0	0	0	0	Funnel cloud
										Pilot reported funnel cloud 60 miles northeast of Hill City, Kansas, or in the Alma-Franklin area.
Panhandle and Southwestern Nebraska	18	Early afternoon	--	--	0	0	0	0	0	Funnel clouds
										Funnel clouds associated with the severe hail storm described above were observed 12 miles west of Sidney at 3:15 p and near Verango (3 sighted).
Jefferson County	19	8:50p	--	--	0	0	0	0	0	Funnel cloud
										Funnel cloud sighted near Jansen.
Keith County	25	1:30a	Short	Narrow	0	0	4	0	0	Tornado
										Sighted by motorist on Interstate 80. About 25 cars in service station parking lot had windows blown out and their paint pitted by debris. House trailers overturned, signs blown down, etc.
Kimball-Morrill Counties	27	6:30p - 9:15p	?	?	0	0	4	0	0	Damaging winds
										Damaging winds in Kimball from 6:30p to 8p and at Bridgeport about 9:15p. Overturned trailers, damaged trees and roofs.
Nevada										
Reno, Pyramid Lake	21	?			1	1	?	0	0	Thunderstorm
										A sudden windstorm, associated with a thunderstorm in the area, capsized a ten-foot sailboat occupied by a couple. One man drowned and the women spent the night in the 68 degree water and was found the next day in a state of shock.
20 S Battle Mountain	16	7:30 PM			0	0	0	0	0	Funnel Cloud
										A funnel cloud was reported moving southwest for approximately six minutes. Heavy thunderstorms were reported in the area at that time.
Reno, Carson, Sparks, Washoe County	22	PM			0	0	?	0	0	Lightning
Nevada (continued)										
										At least seven fires were produced by afternoon lightning storms. One of the largest fires reported covered five acres of brush and grass in a dry lake area near the California state line, northwest of Reno. There were no injuries and destruction was limited to brush and grass. A lightning also hit the Bureau of Land Management fire control radio station, three miles north of Carson City. Another fire was reported at the North American Rockwell Rocket-dyne test facility north of Sparks. The fire department was sent to a private land south of the Truckee River, near Mustang.
Incline Village	26	PM			0	0	5	0	0	Lightning
										A lightning struck an Incline Village home and caused an estimated \$75,000 damage. The lightning hit a television antenna, entered the house through the electrical system and blew the circuits throughout the house.
New Hampshire Southern	3	Evening			0	0	4	0	0	Lightning
										Scattered lightning damage included strikes on two houses in Windham. One burned completely.
New Jersey										None reported
New Mexico Elko	7	3:00 p.								Hail
										Hail to 1-1/2 inch diameter, 55 miles southwest of Roswell, with no report of damage.
Farlington	10	6:15 p.						?		Wind, lightning
										Thunderstorm with winds gusting to 92 miles per hour disrupted electric service. Lightning fired storage tank. Damage minor.
Taos County	20	11:00 a.								Funnel cloud
										Funnel cloud observed 5 miles southeast of Taos, moving toward south, remained aloft.
Chavez County	20	4:00 p.								Hail
										Hail to 1-3/4 inch diameter, 35 miles north of Roswell, with no report of damage.
Belen	25	6:00 p.						3		Wind
										Winds to 54 miles per hour downed trees and lines and damaged shed. Total loss \$3000. Gustiness extended northward to Albuquerque.
New York Rensselaer County	3	12:30 to 1:30 p.m.						4		Electrical, rain
										Early afternoon thunderstorms yielded heavy rain of 1.5 to 2.5 inches in the city of Troy and other sections of Rensselaer County. Cooperative weather observer at Troy reported 1.7 inches in one hour. City streets flooded and made impassable to traffic for some time after storm; some commercial buildings and homes reported basement flooding. Barn with contents of hay and machinery destroyed by lightning fire in Center Berlin, eastern Rensselaer County and home in town of Brunswick partially damaged by fire after lightning strike. Police radio tower knocked out by bolt in Cohoes. Damage to power lines was minor, otherwise. Rains of 0.5 to 1.0 inch occurred in nearby Albany and Saratoga Counties. Park and streets flooded in Saratoga Springs where washing of soil fill by rains caused slope wall to collapse.
Gouverneur, St. Lawrence County	11	3 p.m.						4		Wind, electrical, hail
										Afternoon and evening thunderstorms in wide areas of northwestern New York State, between St. Lawrence and Mohawk Valleys, caused severe local damage in Gouverneur. Winds toppled numerous large trees, broke limbs and utility wires. Many streets blocked by debris, although damage to buildings, cars, etc. from fallen trees was light. Cooperative weather observer measured 0.73 inches of rain in 30 minutes as temperature dropped from 84 to 70 °F during storm. Some small hail reported. At Mallory, Oswego County, some 80 miles south of Gouverneur, cooperative observer recorded peak gust of 54 mph. and a temperature drop of 11 °F in 20 minutes with cold frontal passage at approximately 5 p.m.
Sennett, Cayuga County	11	early evening						4		Electrical
										Large home destroyed by lightning-caused fire at Sennett, near Onondaga County line. Heavy rains and 3-inch hail accompanied storm in adjacent areas of the two counties. Skaneateles in southwestern Onondaga County, received 0.57 of rain in 40 minutes.
Western, Central and East Central	17-18	early p.m. to early a.m.			1	3	5			Electrical, wind, rain
										Heavy short-duration rains in afternoon and early evening thunderstorms fell from eastern Finger Lakes to eastern Mohawk Valley. Skaneateles received from 3.0 to 4.4 inches of rain and some small hail between 5 p.m. and 7:30 p.m. At Tida 1.66 inches recorded in one hour (1 p.m. to 2 p.m.) and 4.16 inches measured in 2 hours (3 p.m. to 5 p.m.) at Tribes Hill, Montgomery County. From late evening of 17th to sunrise on 18th widespread thunderstorms raked western and central New York. Man servicing airliner at Syracuse Airport killed by lightning. Large mobile home overturned by wind, blown 50 feet, then rolled down 150-foot embankment and demolished near Sodus, Wayne County; 3 occupants suffered minor injuries.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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			
<b>New York (continued)</b>											
Poland-Newport area, Herkimer County	18	4 p.m.	3	Narrow	1	1	5		Tornado		
	Associated with the very severe thunderstorms in the Mohawk Valley this afternoon (see below), a tornado moved northwest to southeast from south of the village of Poland through the village of Newport, both in west central Herkimer County. Some 11 homes and barns, and one church demolished or heavily damaged south of Poland—one observer reported barn "exploded". Many trees sheared off 15 feet above ground and debris littered in a circular path according to eye-witness. Woman injured when her car was picked off highway and blown several hundred feet into field. Village of Newport was rendered a shambles as an estimated 1,000 trees were toppled or broken off; homes, stores and barns were partially unroofed or collapsed. Woman killed in parked automobile when huge tree toppled onto it. Funnel cloud was seen. Some hail of up to golf ball size occurred. Radar observations indicated cloud tops of near 50,000 feet in Mohawk Valley at time of tornado and the severe thunderstorms described below.										
Mohawk Valley	18	p.m.			1	0	6		Wind, electrical, hail		
	Very severe thunderstorms pummeled the Mohawk Valley region from Oneida to Saratoga Counties between early afternoon and evening hours. Main storm damage from winds, lightning, intense rains and hail occurred from Rome-Otsego area across suburbs and villages north of Utica, through central Herkimer County (see tornado of 18th), the Gloversville-Broadalbin area of Fulton County to Saratoga Springs. Rome sustained very heavy loss of trees broken or toppled throughout city and suburbs with damage therefrom to buildings and cars; windows smashed in numerous downtown stores, etc. Two trailer homes blown over or crushed by falling tree in Rome. Two light aircraft demolished by winds at airport near Marcy (loss \$30,000), five dairy barns unroofed in Deerfield, north of Utica and man killed when lightning struck nearby wire fence at Westmoreland. Lightning fires destroyed home near Rensselaer and camp building at Forestport in Oneida County and large dairy barn at Danube, Herkimer County. Winds, measured at 85 mph, at Griffiss Air Force Base, toppled 270-foot radio tower. Thunderstorms also concentrated destruction to trees, power lines and buildings in Fulton County. Village of Broadalbin especially hard hit where rainfall of 3.25 inches was recorded by official observer. Winds ripped marina docks along south shore of Lake Sacandaga and tore many boats loose from moorings. Hailstones up to golf ball size fell at Mayfield and Canada Lake. Storm effects somewhat diminished in Saratoga Springs area but street and basement flooding plus some breakage of trees and power lines occurred. Total storm damage was estimated at least \$1.75 million in Mohawk Valley. Radar observations indicated the height of the cloud tops in storm area at near 50,000 feet.										
North Carolina	See data at end of table.										
North Dakota	See reference notes at end of table.										
Kidder, Wells, & Eddy Counties	9	evening					3		Funnel cloud, Hail		
	Funnel cloud in Steele area at 9:30p., reports of hail at Tuttle at 10:30p., and east and west of Sheyenne same evening. Several buildings will require new paint in Sheyenne area.										
Cavalier and Pembina Counties	9-10								Tornado, Heavy rain		
	Tornado at 3:30p. on 10th moving northeastward leveled barn, granary, and unroofed garage on farm about 3NW Clyde. Cloudburst in Munich, Clyde, Calvin and Sarles area. Rainfall in 2-day storm totaled unofficial 12 inches at Sarles, 6-7 inches in Clyde area. Thousands of acres of cropland flooded and many basements flooded. Heavy rain at Neche on Canadian border and in neighboring Gretna and Altona, Manitoba was reported to total 7 to 8 inches. The rains swelled the Pembina River to 9.3 feet, believed to be the highest ever recorded in this century for this time of year.										
IE Douglas, Ward County	10	1:30p.	2	Few	0	0	3		Tornado, Hail		
	"Water spout" was observed by number of people on south side of Douglas. It moved northeastward to slightly damage house at farm 1 mile east of Douglas. Some hail accompanied storm which also brought hail at Max, 12ESE of Douglas.										
LaMoure & Sargent Counties	10	6:00p.							Funnel clouds		
	Funnel cloud reported at Ft. Ransom (41 SE Jamestown), another at Cogswell.										
Near Grafton, Walsh County	11	2:55p.							Funnel cloud		
7N Edmore, Ramsey County	11	4:00p.-5:00p.							Funnel cloud		
	Hiway patrol watched funnel cloud for a period of time. Little or no movement.										
3N Kyndmere, Richland County	11	7:50p.							Tornado		
	Tornado touched ground briefly. No damage.										
<b>North Dakota (continued)</b>											
Carrington, Foster County	12	1:21p.							Funnel cloud		
4W Belfield, Billings County	14	4:48p.							Tornado		
	Cooperative observer reported tornado touched ground briefly. No damage.										
Devils Lake, Ramsey County	17	2:05p.							Funnel cloud		
40W Grand Forks	17	12:00a.							Funnel cloud		
15SSW Bismarck, Morton County	19	1:15p.-1:20p.						4	Hail		
	Hail starting 8 miles west southwest of Linton and ending near Strasburg caused light to total crop losses.										
7NW Jamestown, Stutsman County	19	6:45p.					2	4	Tornado, Hail		
	Southward moving tornado tore through grove of trees destroying barn and machine shed. John Schaeffer was milking cows when he had heard a roar. After running outside of the barn the wind picked him up, twisted him around, and set him down 30 feet from where he was standing. His wife standing in the yard near Mr. Schaeffer was knocked flat by a piece of wood. They sustained only minor injuries. Hail followed tornado.										
Cooperstown, Griggs County	19	6:45p.							Funnel cloud		
1.5W Winner, Sargent County	19	8:50p.							Funnel cloud		
10S Carrington, Foster County	21	5:15p.							Funnel cloud		
Ohio	See reference notes at end of table.										
Toledo Area, Lucas County	1	6:15p							Funnel aloft		
Scattered Areas	5	Morning-evening					1	0	4	Electrical and hail	
	A 25-year-old man was killed instantly near Russelville when lightning struck a wooden shelter where he had taken refuge from rain. Lightning struck 5 times in southeastern Wayne County with the worst damage being to a barn which was completely destroyed by fire. A brief hail storm caused little damage in the Dayton area.										
Perry and Morgan Counties	5	3:00-4:00p					0	0	4	C Hail and wind	
	A hail storm accompanied by high winds struck the north-western part of Morgan County and parts of Perry County. Hail up to 1 3/4 inches in diameter was reported. A Six-Mile-Turn woman said there was nearly two-feet of ice in some areas near her home. Residents of Deerfield and York Townships lost gardens, hay and corn crops. Wind blew the roof off a cottage near Porterville.										
Centerville Area, Montgomery County	5	5:10p							Funnel aloft		
West Florence, Preble County	5	5:35p							Funnel aloft		
Morning Sun, Preble County	5	6:11p							Funnel aloft		
Cincinnati Area, Hamilton County	5	8:50p							Funnel aloft		
Buffalo Creek, Lawrence County	11	Evening					0	0	4	Rain and flooding	
	Six new homes were damaged by the flooding waters of Buffalo Creek. Five small driveway bridges were damaged and one washed out completely.										
Wayne and Holmes Counties	12	Afternoon					0	0	4	Electrical	
	Lightning set fires destroyed a home on Holmes Co. Rd. 318, a barn east of Orrville, and a barn near Millersburg.										
Mohicanville, Ashland County	12	2:15p	Short	Narrow	0	0	0	3	C	Tornado, hail and rain	
	Witnesses saw a tornado touch ground between 2 farms just south of town. Golf ball size hail and torrential rains were reported. Hail fell for nearly 20 minutes.										
Lydon Area, Ross County	14	3:15p	Short	150	0	0	0	4		Tornado, rain and hail	
	A small tornado destroyed a barn and tool shed. Both buildings were completely demolished. One person saw the funnel cloud and another person described a loud roaring sound. Heavy rain and hail preceded the storm. The tornado moved toward the east.										
Scattered Areas	14-15	Evening-morning					0	0	5	C	Electrical, rain wind, and hail

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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					KILLED	INJURED	PROPERTY	CROPS	
Ohio (continued)									
Brecksville, Cuyahoga County	15	3:50p							Funnels aloft
Copley, Summit County	15	5:31p							Funnel aloft
Smithville, Wayne County	15	6:05p							Funnel aloft
Steuensville Area, Jefferson County	15	6:30p							Funnel aloft
Streetsboro, Portage County	15	6:30p							Funnel aloft
Newcomerstown Area, Tuscarawas County	15	6:30p							Funnel aloft
Akron Area, Summit County	15	6:30p							Funnel aloft
Dover, Tuscarawas County	15	7:15p							Funnel aloft
Northeast Ohio	15-Afternoon 16 Morning				0	2	7	C	Rain, electrical hail, and wind
Fostoria Area, Seneca County	17	4:50p							Funnel aloft
Scattered Areas	17 Afternoon-evening				0	3	5		Electrical, hail, wind, rain
Canal Fulton, Stark County	17	7:45p							Funnel aloft
Orrville, Wayne County	17	7:45p							Funnel aloft
Central and Southern Areas	21 Afternoon				0	0	5		Wind and electrical
Northeast Areas	26 Afternoon				1	3	4		Electrical, wind, rain, and hail
Ohio (continued)									
Moreland, Wayne County	26	3:45p	1.5	10-25	0	0	3	C	Tornado
Navarre Area, Stark County	26	4:40p							Funnels aloft
Oklahoma									
Altus area, Jackson County	9	Around 8:00p.	?	?	0	0	?	0	Wind, hail
SW of Purcell, McClain County	10	Early a.m.	?	?	0	0	?	0	Wind
Manchester area, Grant County	10-11	Night	?	?	0	0	0	?	Rain, hail
SW to NE of Colony, Washita County	11	12 Noon - 1:00p.	10	*1	0	0	4	5	Tornado, wind, hail, and rain
SW of Manchester, Alfalfa County	11	Around 1:00p.			1	0	0	0	Lightning
Anadarko area, Caddo County	11	1:00p.-2:30p.	10	*8	0	0	?	0	Wind, hail, rain, 2 funnels aloft
Rocky, Washita County	11	Early Afternoon							Funnel aloft
Hennessey, Kingfisher County	11	About 2:00p.	Short	Narrow	0	2	7	0	Tornado
Near Yukon and NW Oklahoma City, Canadian and Oklahoma Counties	11	About 2:00p.-2:30p.	7	100	0	1	5	0	Tornado
NE Oklahoma County	11	2:00p.-3:00p.	1	*1	0	0	4	0	Heavy rain

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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					KILLED	INJURED	PROPERTY	CROPS	
Oklahoma (continued)									
Mustang, Canadian County	11	2:10p.			0	0	0	0	Wind, hail
									Winds, estimated at 60 MPH, and hailstones up to 3/4 inch in diameter struck Mustang, but no damage was reported.
Guthrie area, Logan County	11	2:30p.	?	?	0	0	3	0	Wind, funnel aloft
									Strong winds destroyed a barn west of Guthrie and damaged the roof of a nursing home in Guthrie. One funnel cloud aloft was reported.
Duncan, Stephens County	11	2:45p.	9	100-250	0	2	4	0	Tornado
									A tornado, which remained aloft most of the time, struck the southern edge of Duncan. There was damage to several homes and business houses. Two small planes at the airport were destroyed. Television antennas and tree limbs were blown down along the storm path. Two persons received minor injuries.
2S Perkins, Lincoln County	11	3:45p.	Short	Narrow	0	0	4	0	Tornado
									A tornado touched down briefly destroying one hay barn and two calf barns at a dairy farm. Thirteen head of cattle were killed and four more injured. Some machinery was also damaged.
Near Mangum, Greer County	11	Afternoon			1	0	4	0	Lightning
									Lightning set a barn and 3000 bales of hay on fire completely destroying the barn and hay. A 4-year-old boy burned to death in the barn.
Frederick, Tillman County	11	About 5:00p.	?	?	0	0	?	0	Wind
									Strong winds caused extensive damage in both the business and residential sections of Frederick. Glass windows were broken out, trees were downed, and power lines were downed. There was also some roof damage.
Ardmore, Carter County	11	Around 5:00p.			0	0	0	0	Hail
									Hailstones, measuring up to 1 3/4 inches in diameter, fell in some sections of Ardmore.
2 1/2 W Davis, Murray County	11	5:05p.	2	100	0	0	4	0	Tornado
									A tornado struck the ground completely destroying one residence and two barns. Several power lines and poles were downed.
6S Mounds, Creek County	11	5:11p.	2	50	0	0	0	0	Tornado
									A tornado touched down in open country causing no damage.
Okeah, Okfuskee County	11	5:30p.-6:00p.	**200	100	0	0	4	0	Tornado
									A tornado struck the eastern part of Okeah demolishing a private hanger and a Cessna 150 plane at the city's airport. Another hanger and three airplanes were also damaged. A small warehouse belonging to a lumber company was blown away.
Pontotoc, Johnston County	11	6:00-6:05p.	Short	Narrow	0	1	?	0	Tornado
									A tornado, moving southwest to northeast, touched down briefly damaging the Pontotoc school and several homes. One elderly man was injured when his mobile-home was demolished. Tree damage was heavy.
Harden City and Stonewall area, Pontotoc County	11	6:12p.	2 1/2	*1/4	0	0	4	0	Tornado
									A tornado cut a path from about Harden City eastward to about 2 1/2 miles south of Stonewall. Pecan trees up to 3 feet in diameter were twisted and uprooted. Three barns were destroyed and roofs were damaged on two farm houses.
1/2 E Dustin, Hughes County	11	6:30p.							Funnel aloft
Vinita and Welch areas, Craig County	11	7:00p.-7:20p.	15	100-200	1	1	5	0	Tornado
									A tornado, moving along a north-northeastward path, struck the south edge of Vinita at 7 p.m. damaging at least 12 business houses. A pickup truck and a semi-trailer truck were overturned on the Will Rogers Turnpike at Vinita. What is believed to be the same tornado struck at Welch at 7:20p.m. uprooting numerous trees and damaging several business houses. The tornado then destroyed three barns northeast of Welch before lifting. One man died of a heart attack trying to escape the storm by taking refuge in the Vinita Post Office, and a small child was injured slightly when cut by flying glass at Vinita.
Kingston, Marshall County	11	7:30p.-8:30p.	1	*1	0	0	0	0	Wind, hail
									Strong winds, estimated at 60 MPH, overturned one mobile-home, damaged one home, and two garages. Numerous television antennas were damaged. One-half inch hail fell during the storm and caused minor crop damage.
Near Henryetta, Okmulgee County	11	About 7:45p.	?	?	0	0	4	0	Wind

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
Oklahoma (continued)									
Lake Eufaula area, Pittsburg County	11	8:00p.	5	*1/4	1	14	6	0	Tornado, hail, rain
									A tornado, moving in a northeast direction, struck the mobile home communities of Alta Vista, Longtown, and New Haven on Lake Eufaula, southeast of the town of Eufaula at 8:00p.m. At least 21 mobile homes and a service station were destroyed or heavily damaged. Utility lines and trees were downed. One teen-age girl was killed and 14 persons injured. Excessive rain and hailstones, measuring 1 3/4 inches in diameter, fell. Some witnesses estimated wind speeds at 90-100 MPH.
Bunch and Stilwell area, Adair County	11	8:15p.-8:50p.	14	?	0	1	?	0	Tornado
									A tornado skipped along a path from near Bunch to Stilwell, remaining aloft most of the time. One observer reported sighting the funnel and another reported noise like that of jet planes. The Cherokee Children's Mission School near Bunch was damaged and there was considerable damage in the northeast section of Stilwell. One teen-age boy was injured by flying glass near the children's school. This is believed to be the same tornado that later struck Springdale in Arkansas.
Tablequah, Cherokee County	11	8:45p.							Funnel aloft
S of Thackerville, Love County	11	9:00p.			0	1	3	0	Wind
									Strong winds blew a large section of a tree across highway causing automobile accident in which one person was injured. The roof of a barn was blown off and several television antennas toppled in the area.
Muskogee area, Muskogee County	11	Evening			0	0	?	0	Hail, wind, funnel aloft
									Winds, estimated at 35 to 50 MPH, and pea size hail did minor property damage. One funnel aloft was sighted south of Muskogee.
Clayton area, Pushmataha County	11	About 11:00p.	8	*1	0	0	5	0	Tornado, hail, 2 funnels aloft
									A tornado dipped down briefly completely destroying one mobile home and damaging several other homes. Two other funnels were sighted aloft during storm. Hailstones, measuring 1 1/2 inches in diameter, fell but no damage was reported from the hail.
Healdton, Carter County	11	Night	?	?	0	0	?	?	Hail
									Hailstones, measuring up to 1 3/4 inches in diameter, caused an unknown amount of damage.
Southern Half, Atoka County	11-12	10:00p.-11th - 2:00a., 12th			1	0	5	4	Heavy rain
									Heavy rains of up to 5 inches caused damage estimated at \$60,000 to county roads, and one man drowned when swept down stream by high water in Atoka after his car drowned out.
Sulphur and Ada areas, Murray and Pontotoc Counties	12	Early a.m.			0	0	0	0	Hail, wind
									Thunderstorms produced hailstones, measuring up to 1 3/4 inches in diameter, and strong winds, but no damage was reported.
Covington, Garfield County	12	About 6:50p.			0	0	0	0	Hail
									Three-fourths inch hailstones fell, but caused no damage.
Near Optima, Texas County	14	Evening							Funnel aloft
Near Piedmont, Canadian County	19	5:45p.			0	0	0	0	Tornado
									Tornado touched ground briefly causing no damage.
Oklahoma City, Oklahoma County	19	Late Afternoon			0	0	3	0	Hail, 2 funnels aloft
									Hailstones, measuring up to 3 1/2 inches in diameter, fell in northern sections of City. Oklahoma Highway Patrol received \$2,000 damage to patrol cars. Two funnel clouds were sighted aloft over City.
Anadarko area, Caddo County	20	3:30p.-5:00p.			0	0	?	0	Wind, hail, funnel aloft
									Winds, estimated at 75 MPH, damaged some roofs and blew down trees. Hailstones, a few measuring up to 1 inch in diameter, did no damage. One funnel cloud was sighted not touching the ground.
Cement area, Caddo County	20	About 4:00p.			0	0	0	0	Wind, funnel aloft
									Winds were estimated at 50-70 MPH. One funnel cloud was sighted not touching the ground.

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					KILLED	INJURED	PROPERTY	CROPS		
Oklahoma (continued)										
16N Chickasha, Grady County	20	4:35p.							Funnel aloft	
NW of Tuttle, Grady County	20	4:55p.			0	0	0	0	Tornado	
					A tornado touched the ground briefly moving eastward at 20 MPH.					
Rush Springs, Grady County	20	Afternoon			0	0	?	0	Wind, rain	
					Strong winds caused extensive damage to metal. Roof was blown off and rain water damaged the ceiling, walls, floors, and mattresses. Several residents reported roof damage and tree limbs blown off.					
10-Mile Radius Chickasha, Grady County	20	Afternoon			0	0	4	0	Hail, 4 funnels aloft	
					One and 3/4 inch hailstones did \$10,000 damage in Chickasha. Four funnel clouds were sighted within a 10-mile radius of Chickasha, none touching the ground.					
Near Yukon, Canadian County	20	Late Afternoon							Funnel aloft	
Near Owen, Washington County	20	About 5:15p.			0	0	?	0	Lightning	
					Six-room farm home and most of its contents were destroyed by fire after being struck by lightning.					
N of Tonkawa, Kay County	20	7:30p.	1/2	100	0	0	0	0	Tornado, funnel aloft	
					One tornado touched down in open country about 2 miles north of Tonkawa. Another funnel was sighted aloft 2 miles west of where the first one touched down.					
7W Blackwell, Kay County	20	7:30p.							Funnel aloft	
Tulsa and Sand Springs area, Tulsa and Creek Counties	20	7:30p.-8:15p.	8	*4	0	0	?	0	Wind, hail, funnel aloft	
					Highway Patrol car received windshield damage between Tulsa and Sand Springs due to small hail; wind damage to power lines and trees occurred in north section of Tulsa. Highway Patrol car reported sighting of funnel aloft northwest part of Tulsa. Winds were estimated at 50 to 60 MPH.					
Kingfisher area, Kingfisher County	24	4:15p.			0	0	4	0	Wind, hail	
					Strong winds estimated at 60 MPH and hailstones measuring 1 inch in diameter caused considerable property damage in area, mostly in Kingfisher. Greatest damage was to the Chisholm Trail Museum. Roofs were also damaged at several farmsteads 4 miles southeast of Kingfisher. One trailer house was badly damaged east of Kingfisher and another was overturned onto a car at nearby Shefenberg Lake.					
El Reno area, Canadian County	24	5:30p.-6:30p.	4	*3	0	2	6	5	Wind, hail, rain, funnel aloft	
					Storm damaged an estimated 85% of the property in El Reno. Roofs were damaged by both the wind and hail, numerous plate glass windows were broken out, numerous automobiles received hail damage, and trees were damaged. Telephone company officials said 2,000 telephones were out of service with lines and poles down. Crops received hail and rain damage. Two persons were slightly injured by flying glass. One funnel cloud was sighted not touching the ground. Hailstones measured up to 1 3/4 inches in diameter and winds were estimated at 70 MPH.					
Oregon										
Cascade Mountains	2	Evening	225	*30-70	0	0	?	0	Electrical	
					Thundershowers were numerous along the Cascade Mountains extending from Mt. Hood National Forest on the north to the Rogue River National Forest on the south. About 90 lightning-set forest fires resulted with burned acreage kept to a minimum by using smoke jumpers, flying tankers and ground crews. Several days warning concluded with afternoon maximum temperatures ranging from the lower 90's to 103 at McKenzie Bridge. Lightning strikes in the Medford area smashed the chimney of one residence, damaged 15 electrical transformers, put a radio and television station off the air and interrupted radio communications at the Jackson County Sheriff's Department between the hours of 8 to 10 p.m.					
Dayville, Grant County	6	1:30-2:30 p	4	*4	0	0	4	3	Rain	
					Heavy rain drenched the Dayville area as thunderstorms moved into the area, although the storm was centered about 1-1/2 miles south of Dayville along the South Fork John Day River, the official weather observer at Dayville recorded 1.28 inches in the one-hour storm. Local flash flooding washed debris, rocks, and dirt across fields, cut and filled irrigation ditches and damaged roads across six farms south of Dayville. Heaviest runoff came down Conner Creek and even caused damage in Dayville. Water and mud ran into the basement of the Dayville High School. Runoff from the schoolhouse hill ran down Main Street, depositing silt and gravel across lawns and sidewalks while water only ran into two service stations.					
Union, near Union County	6	Afternoon			0	0	4	0	Electrical	
					Lightning occurring during afternoon thundershowers is believed to be the cause of a fire which destroyed a barn, two tractors, implements and supplies on a farm two miles north of Union.					
Oregon (continued)										
Eugene, near Lane County	15	2:42-2:49 p							Funnel aloft	
					Weather Bureau employees at the Eugene airport office sighted and photographed a funnel aloft about 7 to 10 miles northwest of their office. The ragged appearing funnel extended 200 to 300 feet below a cloud base of 1700 feet. After two to three minutes it changed more to a rope-like structure and lowered down about 400 feet and bent back toward the south making an angle of 30 to 40 degrees from the vertical. The funnel then began to break up at its midpoint and never approached closer than 1000 feet of the ground.					
Southwest to Northeast area of State	23	Late Afternoon			0	0	?	?	Electrical	
					Scattered thunderstorm activity across the State set numerous lightning fires. Four small fires were reported in the Ashland-Prospect area, 6 brush fires near Bend and 30 small fires in the Ochoco National Forest east of Prineville. Some 35 fires were also set in the Malheur National Forest, 6 in each of the Long Creek, Burns and Bear Valley districts and 17 in the East Central District near the Fox Valley-Ritter area. A lightning-set fire also destroyed a barn and its stored contents at Cove and burned a field haystack.					
Southeastern half of State	26	3:00-6:00 p	300	*40-80	1	4	4		Wind and electrical	
					A developing storm pattern stretching across Oregon caused considerable wind and lightning damage in the southeastern section of the State. Mid-afternoon winds at Madras demolished a 30 by 100 foot quonset hut at the Jefferson County Fair Grounds, damaged an aluminum boat, dented a pickup and blew down a 40-foot section of fence and a sign. Heavy lightning in the Medford-Klamath Falls area began about 5:00 p.m. and caused 11 small grass and forest fires and damaged 21 power transformers in the Ashland-Eagle Point area. Hail up to 5/8-inch size fell to the southeast of Ashland. Several fires were also reported in the Winema National Forest. A 19-year-old youth was knocked unconscious by lightning while operating a hay swather at the Alvor Ranch, 90 miles southeast of Burns. High wind at the ranch prevented takeoff of an emergency plane when the wind estimated at 50 m.p.h. blew the door from the hangar. The storm was most destructive in the Vale-Ontario area about 4:30 p.m. Broken trees and limbs pulled lines and poles down in many places. Broken limbs damaged several houses at Vale and a large tree fell across one home. Several farms lost outbuildings. High wind at Ontario blew away part of the roof of a new Service Station 4 miles south of the city, and blew roofing from a produce unloading shed. Loss of a 30-by-150-foot section of roofing at the Treasure Valley Community College caused water damage to 13 rooms. Wind gusts of 45 to 64 m.p.h. were observed at Radio Station KNEI, 15 miles north at Weiser, Idaho during the storm. Temperature at Ontario dropped from 106 to 82 degrees during a 30 minute period of the storm. This damaging storm also continued into Idaho.					
Pacific					None reported					
Pennsylvania										
Columbia and Northumberland Co.	2	Night						5	Lightning, wind, rain	
					A bolt of lightning caused a fire which destroyed a two-story chicken house in Bloomsburg. Damages estimated at \$100,000. High winds caused problems at Turbotville fair when three concession stands blew down. An automobile parked near one of the stands was slightly damaged by the falling timbers. Sections of the ground were under water.					
Chester and Berks counties	3	Afternoon & evening					1	4	3	Lightning
					Eight fires were reported simultaneously, ranging from the areas of Goshen to Berwyn. Damage to one of the homes in Malvern was estimated at \$7,500. At another Malvern home the damage was \$250. A Malvern man was struck by lightning and admitted to the hospital for observations. Hail accompanied the storm in Lionville and Downingtown area. Lightning was blamed for setting a television on fire in the Downingtown area. Trees were toppled and some power failures and telephone interruptions occurred. Lightning struck the upper portion of a barn in Barto, R.D. 1, which was filled with hay and straw.					
Somerset County	5	8 PM EDT					2	2		Lightning
					Lightning killed 2 persons and burned two others attending a firemen's parade in Confluence.					
Armstrong County	5	11:45 AM						3		Lightning
					A bolt of lightning caused about \$3,000 damage to a home near Ford City.					
Centre County	5	2:12 & 2:20 PM						3		Lightning
					Lightning struck two buildings in the State College area causing minor damage.					
Westmoreland and Washington counties	5	Afternoon						4		Lightning, rain
					Lightning struck a chimney on the Monessen Vocational School and a cellar wall collapsed at a Monessen home because of the torrent of water received during the storm. At 5:30 PM a bolt of lightning struck a home in Monongehela. Although no fire resulted, the damage was extensive. At Lionier two homes were hit by lightning and a foundation was destroyed by water as it collapsed a wall.					

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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)									
Northern Potter Co	5	Late afternoon				4	4		Hail
	3/4"								hail slightly damaged aircraft and some nearby crops.
Lancaster and York counties	5	Evening			1		5		Lightning, wind, rain, and hail
									In Strasburg a woman died in a fire believed to have been started by lightning. Damage to the house and contents was estimated at \$10,000. York County reported hail as large as 25-cent pieces in the Dover area. Damage to window panes, fruit crops and vegetable gardens was extensive. Power failures and telephone interruptions were reported throughout the county. A few minor slides were reported in southern York County. In York, paving was damaged by storm water; flooding was widespread. Some homes without a basement had water on the first floor.
Bucks County	5	Evening			1				Lightning
									In Southampton an 11-year old boy who was struck by lightning died because of it on June 13, 1970.
Greene County	6	2 AM				4	3		Lightning
									A barn at Jefferson, R. D. 1, was struck by lightning. The ensuing fire destroyed half the building and hay stored inside. Damage was estimated at several thousand dollars.
Bedford and Fayette counties	6	Afternoon & evening				3	3		Lightning
									Lightning apparently killed four beef cattle at Buffalo Mills, R.D. Loss was set at \$1,000. At a Conneville home a bolt of lightning struck the chimney. There was no other damage.
Wayne County	8	10:10 PM					4		Lightning
									Lightning struck a barn east of Pleasant Mount and burned the structure to the ground.
Schuylkill County	9	Afternoon					3		Hail
	1 3/4"								hail reported in the Pottsville area at 2 PM.
Northumberland Co.	12	2 AM					2		Lightning
									Lightning caused minor damage to a chimney of a home in Sunbury.
Crawford County	12	4:47 AM					3		Lightning
									Lightning struck a house in Meadville causing some smoke damage. Firemen were hampered in reaching the scene by heavy flooding. The electric service east of this area was interrupted for two hours.
Westmoreland Co.	12	Afternoon					4		Rain, lightning
									Lightning struck in Greensburg and Latrobe. The damage was minor. Heavy rains caused some washouts of secondary roads.
Franklin County	12	Afternoon					5		Lightning
									A severe electrical storm touched off 5 fires throughout the county. Damage of a barn destroyed near Greencastle was estimated at \$7,500. North of Chambersburg another barn was destroyed including 2 cars parked near the structure.
Southeastern quarter	12	Afternoon			1	2	5	4	Lightning, hail, wind
									Luzerne Co. reported disruption of power lines and some flooding. In Wilkes-Barre \$15,000 damages resulted when a 10-foot retaining wall collapsed and 8 feet of water damaged the stock in the basement of a store. In Treaster Valley, Mifflin Co. lightning struck a barn causing \$25,000 damage in the ensuing fire. In the same county lightning also killed a cow north of Granville. In Harrisburg trees were uprooted. York Co. experienced heavy power failures and walnut-size hail which devastated gardens and fruit trees. Flood water tore up a section of pavement in Manchester. In the same town lightning damaged the chimney and gable-end siding of a home. In Coventry, Montgomery Co. wind uprooted trees, scattered patio furniture and play equipment and interrupted power. Lightning set a kitchen on fire in Norristown causing \$9,000 damage. Damage due to lightning to the Valley Forge Drive-in-Theatre, Upper Merion, was estimated to be several thousand dollars. In Worcester lightning struck three times, causing minor damage. In Chester Co. lightning and flooding did considerable damage. In West Chester at least 2 cars were hit by falling trees and a home was hit by lightning. Fire damage to the home was \$12,000. A man was killed as he was repairing an electrical conductor in Coatesville. Two persons were seriously injured as the driver of one of the cars travelling on route 322 south of West Chester lost control of his car because of the downpour and swerved into the path of a car travelling in the opposite direction, and there were reports of marble-sized hail in the city. In Newtown an estimated \$50,000 loss occurred when lightning struck a barn destroying 5 tons of hay. In Yeadon, Delaware Co. trees were uprooted and tied up the traffic.
Lawrence County	15	3 AM					4		Lightning, rain
									Numerous transformer fuses on light poles were knocked out by lightning. There were reports of scattered damage to telephone lines. In New Castle downtown streets were flooded over the curbs and several streets were covered with mud.
Bedford County	15	Evening					3		Lightning
Pennsylvania (continued)									
									Lightning killed four beef cattle near Buffalo Mills. The loss was set at \$1,000.
Butler County	16	Evening					4		Lightning
									Power lines and trees were reported blown down throughout the county. In Butler a house was struck by lightning with \$200 damage resulting. A tree caused \$125 damage when it fell on a car.
Westmoreland and Fayette counties	16	Day					5		Rain, lightning
									Large areas of the Ligonier Valley in Westmoreland Co. were inundated when more than two days of heavy rains caused streams to overflow their banks. Basements were flooded, picnic tables tossed about and several trees brought down. In Uniontown, Fayette Co. lightning struck a utility pole and burned the insulation off some power lines.
Western Penna.	17-18	Night					6	5	Lightning, rain, wind, and hail
									Wind and lightning caused power and phone interruptions throughout Indiana Co. and heavy rain washed out shoulders of highways. Lightning struck a barn causing \$5,000 damage and put a hole in the roof of a home, both in Indiana. In Everett, Bedford Co. a 50-foot tree fell over the front of a house. In Beaver Falls, Beaver Co. lightning struck a house and several trees. Two persons had to be treated at the hospital when high winds caused a fair tent to collapse. At Franklin a landslides occurred on route 322 blocking one lane to traffic. Strong winds and hail caused many small limbs to fall. In Johnstown, Cambria Co. damage was estimated to be \$100,000 due to flooding at a supermarket and \$13,000 at a drug-store. Nanty Glo reported considerable damage to trees and cars. In Mercer Co. winds reached gale force and overturned a mobile home in Sharon and uprooted trees. Three persons were injured; two in the overturned mobile home and one in his tent when a tree fell on top of him. Slippery Rock reported considerable damage to a home hit by a tree. In Greenville lightning struck a home causing an estimated \$500 damage. New Derry, Westmoreland Co. reported one property hit by lightning. Torrential rain and high wind caused heavy damage throughout the western part of Crawford Co. area as trees and limbs fell on highways and electric lines, blacking out extensive portions of the county. Flash flooding occurred throughout the rainswept area. One person was injured in an accident on route 19 north of Saegertown. The car he was driving skidded on slippery highways when he applied his brakes.
Berks County	18	Early morning					4		Wind
									Trees were felled on service wires throughout the county and a roof was blown off a home in Reading.
Bucks County	18	Early morning					4		Lightning, wind
									Lightning knocked out power in some areas and felled trees. Lightning struck the chimney on a home in Coopersburg. In Perkasie a tree fell onto the roof of a summer bungalow and in Keller's Church another tree landed on a new station wagon.
Adams County	18	Early morning					2		Lightning
									In Gardner lightning struck a trailer home causing minor damage.
Mercer County	18	Afternoon			1	5	3		Thunderstorm, hail
									Hail the size of marbles accompanied a severe thunderstorm. Damages from uprooted trees was extensive, particularly in Sharon and Sharpsville area. Numerous power lines were downed by the wind and falling trees and minor damage occurred when lightning struck four homes on separate occasions. In West Liberty hundreds of trees were uprooted. A New Wilmington woman was picked up by the wind inside a tent and dragged across the yard. A tree in the yard was blown over and fell on her leg. In Grove City part of a tree fell onto a house causing slight damage.
Southeastern quarter	18	Late afternoon and evening					5	4	Hail, wind, rain, and lightning
									Severe thunderstorms toppled trees, downed power lines, flooded basements and flattened grains. One-inch hail was reported 5 miles northwest of the Williamsport Airport. In Hazleton, Luzerne Co., wind destroyed the foundation wall of a prefabricated house. Waynesboro in Franklin Co. reported hail the size of golf balls. At Mont Alto considerable damage occurred when a tree fell on a house. Schuylkill Co. reported electrical disruption for 12,000 customers. A huge tree fell partially on a school bus, then toppled onto a garage in Fountain Springs. At Lavelle numerous properties were damaged by wind. Flooding was prevalent in most of the area from Frackville to Ringtown Valley and from Ashland to Locust Valley. In Centralia a car was damaged when a portion of a tree broke off and ripped through the convertible top. There were reports of hail. In Doylestown, Bucks Co. a large double corncrib was demolished by the wind. In Shippensburg, Cumberland Co. a house was severely damaged by a falling tree. In another incidence a car was damaged. Several house trailers were tipped over, and some barn roofs went sailing through the air. At the Shippensburg Airport high winds caused extensive damage to the garage and shop. In Bloomsburg, Columbia Co. \$10,000 damage resulted from a bolt of lightning which struck the tower house of Cable TV on Catawissa Mountain. An estimated 35 tons of earth was washed away in the city. In Montour Co., Riverside area lawn furniture and outdoor toys flew through the air. In Danville, at the Geisinger Medical Center, a protective fence around a construction site was blown against seven autos; and in Cooper Township a mobile home was flattened. There was large hail reported in Union Co. and in

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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)										
										Milton a car was damaged by a falling limb. Berk's Co. reported much damage done to fruit crops. A barn on a Wernersville farm was destroyed. A house trailer in Wernersville was lifted off its foundation and the roof and insulation was dismantled during its trip. Roofs were blown off three homes in Topton and several booths at carnival were flattened. In Reading some flooding occurred. A Lewisberry barn in York Co. was razed by flames after it was struck by lightning. Damage to a Wingate school in Centre Co. due to wind and rain was \$6,000. Wind gusts to 71 mph were reported at the Allentown-Bethlehem-Easton Airport with minor damages, a few power failures, and trees down in the area. Lightning struck a Plymouth Meeting home and caused fire damage to the roof and burst a water pipe resulting in water damage to the residence. A Progress, Dauphin Co. home was struck by lightning causing extensive damage. At Scranton, Lackawanna Co. lightning hit a church, 4 homes, and two places of business. Flooding in Scranton was localized.
Fayette County	18	Evening					2			Hail
										Perryopolis reported medium-sized hail.
Indiana Co.	18	Evening					4	3		Rain, lightning
										Two thirds of Indiana County was without electrical service. There was some flooding along the Loyalhanna Creek in the Ligonier area. A church and two houses were struck by lightning in Johnstown and a huge tree fell on a moving car near Jennerstown.
Oregon, Lancaster County	18	4:45 PM	1	about 400			5	4		Tornado
										Oregon is between Lititz and Brownstown on a small road intersection. These roads are between highways 772 and 222 about 7 miles north of Lancaster. Buildings were left with holes in their roofs and dozens of trees were toppled and others smashed into toothpicks. There was extensive damage from rainwater entering damaged houses.
Lebanon County	18	6:15 PM	3	about 900	1	5	6	4		Tornado
										A tornado caused the death of a 13-year-old boy and injuries to five other persons in Myerstown. It virtually demolished 5 farms in its path north of the Stracks Dam area. Roofs were ripped off several buildings, a house trailer was broken apart, three cattle were killed and numerous trees were blown down in the path of the tornado. Estimated damage was \$1,000,000.
Washington County	19	Afternoon						5		Lightning, rain
										Power failures were widespread throughout Washington Co. and the mid-Monongahela Valley. Motorists were stranded by flooded highways and wet motors. In Charleroi a chimney was blown apart by lightning, utility poles were cracked or set afire, and the wind-driven rain caused rain spouts to fall and electrical signs to short circuit. Lightning was responsible for a fire in the rafters of a church at Sugar Hill near route 40, west of Washington.
Bradford County	19-20	Night						4		Lightning
										21 cattle were killed by lightning near Canton. The loss was estimated at \$11,000.
York	21	Day						3		Rain
										Heavy rains damaged some crops.
Erie County	22	Day						3		Rain
										In Union City severe flooding occurred in some areas due to intense short period downpour.
Southwest Pa.	26	Afternoon						5	4	Hail, wind, rain, and lightning
										Westmoreland Co. was hit by a severe thunderstorm, accompanied by high winds, lightning, and hail which caused scattered electrical blackouts and flooded basements. In the Ligonier Valley there were isolated reports of trees uprooted. In Greensburg booths prepared for the annual summer festival were completely leveled. The city of Jeannette reported minor damage with problems coming from sewers backing up. Washington Co. reported numerous electric failures due to lightning which struck trees and lines. Monongahela was pelted with hail the size of golf balls. In Johnstown, Cambria Co. motorists were inconvenienced by torrential rains, strong winds. Serious damage resulted from flashflooding with four feet of water reported in some sections of town and in some basements. A willow tree fell onto the properties of two neighbors. Near the Johnstown Cambria County Municipal Airport the wind toppled a 60-foot-long mobile home, damaging the siding extensively. Several trees were hit by lightning. Wind gusts to 89 mph and 1" hail were reported at Johnstown. There was 3/4" hail reported at Beaver County Airport.
Lebanon County	26	Evening						4		Wind, rain
										A thunderstorm left its toll of uprooted trees and broken windows. The high winds accompanying the storm overturned a 60-foot house trailer along route 117, one and half miles south of intersection route 322 and route 117. The loss of the trailer was \$4,000.
Bedford County	26	Early morning						3		Lightning
										A barn was struck by lightning near Hanns Choice causing slight damage.
Puerto Rico										
										17 morning
San Juan and Eastern Interior								1	0	6
										C
										Heavy rains centered in the Gurabo-Caguas area of the Eastern Interior Division fell during the early morning hours resulting in heavy flooding of the Rio Piedras and Puerto Nuevo Rivers in the metropolitan area of San Juan. The 24 hour total rainfall of 12.07 inches at Gurabo set a new record and it is estimated that most of that rain fell within an 8 to 12 hour period. The Puerto Nuevo urban section of San Juan was the most seriously flooded zone where up to twelve feet of water stood in some homes. The business sector along Kennedy Highway was covered with 6 feet of water and was impassible from Constitution Bridge to Katadero Road. In the interior one man drowned in the Humacao River while on Civil Defense duty. There were some minor crop damages including tobacco seed bed erosion. Civil Defense estimate total damages at one million dollars. Geological Survey stated the flood in the San Juan area was the greatest in at least 20 years.
Rhode Island										
										None reported
South Carolina										
Florence County	1	3:20 p.						0	0	0
										Funnel Cloud
										Funnel cloud sighted by a pilot 13 miles southeast of Florence.
Cherokee County	5	6:10 p.						0	0	3
										4
										Hailstorms
										Thunderstorms, heavy rain, strong winds and marble-sized hail did considerable damage to truck crops, some field crops and home gardens in an area extending from 5 miles southwest of Gaffney to the southern part of the city itself. Wind and hail did most of the damage to crops and several homes and buildings. Flooding damage occurred also in some homes. Several trees were felled by high winds. The hailstones were so numerous that some remained in sheltered places as much as 20 hours after the storm. Minor hail damage was done also near Blacksburg.
Florence, Dillon and Chesterfield Counties	11	afternoon & evening						0	0	2
										5
										Hailstorms, windstorms
										Thunderstorms with hail did extensive damage to the tobacco crop, mostly in the Pamlico area of Florence county but also in Dillon county. High winds blew down a small outdoor structure and derofed a barn just east of Cheraw in Chesterfield county. Enough shingles were blown off of a house to allow heavy rains to flood the main floor. An assortment of several domestic farm animals and chickens were scattered by the storm.
Horry County	13	3:15 p.						0	2	5
										0
										Windstorm
										A thunderstorm bringing rain, some hail and 75 to 80 mile per hour winds struck the Myrtle Beach Airport about 13 miles northeast of Myrtle Beach. Small airplanes were blown about and into one another causing considerable damage. Two men were injured trying to hold down the small planes, one suffering a cut face and broken tooth and the other a broken leg.
Area from Richland County to Dillon & Marlboro Counties	21	afternoon & evening						0	1	4
										4
										Thunderstorms with hail, wind & rain
										Hail damaged tobacco severely in the Olanta area in southeastern Florence county and in the Hartsville and Darlington areas. High winds and heavy rain assisted in this damage. Two mobile homes within a few yards of each other in Clito, Marlboro county, were wrecked when high winds overturned and buffeted them. The Sumter area experienced flooding due to 6 1/2 inches of rain falling in a few hours. A few homes suffered flood damage. High winds levelled some small trees, tore down a shed and derofed a barn 5 miles west of Sumter. Two homes 5 miles north of Sumter on U.S. 521 suffered wind damage and two homes in Sumter sustained lightning damage. A small guard house was demolished at Wateree in Richland County about 25 miles east of Columbia. A man in the house was injured and treated at a Columbia hospital. At Eastover, about 20 miles east of Columbia, several small trees were blown down and blocked some back roads. A greenhouse was demolished by a falling tree at Honnell Hall which is 12 miles east of Columbia.
Charleston County	22	6:20 p.						0	0	0
										0
										Waterspout
										A waterspout was sighted offshore at Sullivan's Island.
South Dakota										
3N Enming	7	3:04 a								
										Funnel cloud aloft
										Funnel moving NE.
Wetonka	10	2:08 p								
										Funnel cloud aloft
155W Mitchell	11	p m								
										Funnel cloud aloft
Southern Aurora and Davison Counties	11	About 6:00 p						?	?	
										Hail
										Hail of varying size damaged some crops and buildings in area.
16NE Buffalo	12	8:00 p						0	0	0
										0
										Tornado
										Apparently tornado touched down in open country with no reported damage.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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 (continued)									
Northern Black Hills	12				0	0	4	0	Local heavy rain and flash flooding
									Official 24 hour rainfall amounts of 3 to 4 inches and unofficial amounts of 4 to 6 inches were reported in area. There were reports of flash flooding on numerous creeks. Most damage was due to mud slides and washed out roads. A business establishment in Deadwood was damaged.
Beadle County	14	About 5:30 - 6:10 p			0	0	?	?	Hail
									Spotty areas of county reported varying sizes of hail with average about 3/4 inch. Baseball size hail reported 6 miles south of Huron and 3 inch hail reported at Huron.
Near Mound City	14	5:35 p			0	0	0	0	Tornado
									Apparently tornado touched down in open country with no reported damage.
15ENE Mobridge	14	6:45 p			0	0	0	0	3 Tornadoes
									The 3 tornadoes apparently touched down in open country with no reported damage.
SE Mound City	14	About 7:00 - 7:30 p	1	2 1/2	0	0	4	0	Tornado
									Tornado moved from SW to NE damaging 3 farmsteads.
Just N Wewala	14	9:30 p			0	0	0	0	Tornado
									Apparently tornado touched down in open country with no reported damage.
Aberdeen	14	10:21 p			0	0	0	0	Hail
									Hail of 3/4 inch with no reported damage.
Eastern S. D.	15	About 6:00 - 11:00 p			0	0	5	5	12 Tornadoes, 6 funnel clouds aloft, strong winds and hail
									A low pressure center moved NNE across the area causing spotty hail and wind damage. The greatest damage occurred in the south-east. Numerous trees, utility lines and buildings (mostly farm) were destroyed or damaged by the wind. Hail up to baseball size caused up to 100% crop loss in spotty areas. Tornadoes were reported as follows: 5NW Madison-6:10 p, 4NE Rutland-6:20 p path 4 miles long and 200 yards wide, 7N Madison-6:21 p, 3N Wagner-9:35 p path 1/2 mile long 50 yards wide, Bridgewater-9:15 p path 1/2 mile long and 20 yards wide, 9E Sioux Falls-9:30 p, Scotland-9:30 p, 5NE Madison-9:40 p, 5SW Sioux Falls-9:49 p, 2 1/2N Viborg-9:55 p, Wakanda-10:09 p and 15W Britton-11:15 p. Tornadoes were generally moving from SW to NE. Funnel clouds aloft were reported as follows: Chester 3 funnels-9:27 p, 2W Franklin-9:40 p, Irene-10:13 p and Britton-10:20 p.
Near Ferny	16	6:10 p			0	0	0	0	Tornado
									Tornado touched down in open country with no reported damage.
1N Waubay	16	7:15 p							2 Funnel clouds aloft
									Funnel cloud aloft
5NW Mitchell	19	4:00 p							Funnel cloud aloft
10SW Mobridge	19	5:10 p			0	0	0	0	Tornado
									Apparently tornado touched down in open country with no reported damage.
21SW Sioux Falls	19	6:15 p							Funnel cloud aloft
14W Sioux Falls	19	6:25 p							Funnel cloud aloft
4W Sioux Falls	19	6:27 p							Funnel cloud aloft
6S Bridgewater	19	6:30 p	50	± 1 1/2			?	?	Hail
									Hail up to golf ball size caused undetermined damage over the area.
Hurley	19	6:54 p					?	?	Hail
									Hail up to 1 3/4 inch diameter caused undetermined damage.
Tennessee									
Most of State	4-5				2	0	5	5	Wind, hail, lightning
									Severe thunderstorms with damaging winds and hail crossed the State from southwest to northeast entering southwest corner of State early afternoon of the 4th and clearing northeast late evening of the 5th. Most wind and hail damage concentrated in the northeastern quarter of Tennessee. Also some damage in the mid-state area. Lightning killed a man in Knoxville and a 12-year old boy on a farm in McMinn County. Two large barns burned after being struck by lightning on Route 8 in Greene County. A number of locations had two periods with hail during this 48-hour period. Size of hailstones varied from one-quarter to three-quarter inch to as large as golf ball size. Local flooding hampered motorists in low-lying areas. Greatest property damage occurred in the Kingsport area where windstorm dam-
Tennessee (continued)									
									age 40 homes and buildings was estimated at \$300,000. Wind gusts estimated to 60 mph snapped trees, rolled mobile homes, broke windows, etc. In the Tri-Cities area, electrical service was interrupted for several hours.
SW Paris, Henry County	5	p.m.						3	Lightning
									Eight cattle struck by lightning.
Bluff City, Sullivan County	9	6:30 p.m.			1	0	0	0	Lightning
									Nine-year-old boy killed by lightning.
Cocke County	10	p.m.			0	0	3	0	Hail
									Del Rio section of county reported hailstones of marble size. Many gardens destroyed.
Memphis, Shelby County	13	4:30 p.m.			0	0	3	0	Wind
									Miscellaneous wind damage reported in the Memphis area.
Monroe County	14	8:00 p.m.			0	0	4	0	Lightning
									Lightning caused fire destroyed large dairy barn on Povo Road about two miles from Madisonville.
Northwest one-fourth Tennessee	14-21				0	2	7	0	Thunderstorms, flooding.
									Damaging thunderstorms, distinguished by rather localized occurrence, were reported daily from somewhere in western and central sections over an eight-day period. Rainfall totals measured three to eleven inches in northwest counties causing wash-outs and erosion. Flooding in Dyer, Lake, Obion, Crockett, and Weakley Counties affected some 630,000 acres and damaged or destroyed crops valued in excess of \$12 million. Property damage in excess of \$1 million. There were no reported deaths or serious injuries, however, there was extensive damage to houses, buildings and roads in Gibson and Dyer Counties, and loss of soil due to washing in adjacent counties. At Milan more than 10 inches of rain fell over a five-day period; 4,000 inches being measured on the 16th, forced several families from their homes. Water in some areas was several feet high and roads into many communities were impassible. Heavy rains over small streams in the mid-state area resulted in local flooding of the Harpeth River on the 20th. Wind was particularly damaging on the 19th and 21st in the Dyersburg area where downed trees and limbs caused numerous power interruptions. Structures destroyed or heavily damaged included several units of a motel in Dyersburg and two small aircraft at the airport, farm buildings in Dyer and Obion Counties, with wind damage also reported at Humboldt in Gibson County.
Shelby County	15	1:00 a.m.			0	0	4	0	Wind
									Power lines and trees damaged at scattered locations.
Madison County	18	4:00 p.m.	1/4	200-	0	0	4	0	Tornado
									Possible tornado destroyed mobile home and damaged roof of restaurant and motel at junction of Interstate 40 and Highway 138.
Germantown, Shelby County	19	9:05 p.m.	Short	Narrow	0	1	3	0	Tornado
									Sheriff's deputies reported small twister damaged electric poles and trees. A report mentioned damage to an automobile; flying debris injuring the driver.
Bell Buckle, Bedford County	19	p.m.						3	Lightning
									Eight head of Hereford cattle struck by lightning.
Conasauga, Polk County	21	2:45 p.m.			0	0	?	?	Hail
									Hailstones to 3/4-inch diameter stripped leaves from trees at scattered locations.
FUNNEL CLOUDS REPORTED DURING JUNE 1970									
Davidson County	5	2:30 p.m.							Nashville Municipal Airport 15NW
Shelby County	13	12:10 p.m.							Millington Naval Station 10N
Shelby County	13	12:50 p.m.							Millington Naval Station 5S
Shelby County	19	8:40 p.m.							Memphis 20N
Shelby County	19	9:05 p.m.							Walnut Grove
Henry County	20	9:25 p.m.							Paris
Dyer County	20	9:45 p.m.							Dyersburg 15NE
Texas									
Between Taft and Gregory, San Patricio County	1	9:10 a							Funnel aloft
8 S Falgoutias, Brooks County	1	10:11 a							Funnel aloft
7 NE Mission, Hidalgo County	1	11:07 a							Funnel aloft
10 N Edinburg, Hidalgo County	1	11:07 a							Funnel aloft

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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	
Texas (continued) 3 W McAllen, Hidalgo County	1	11:20 a							Funnel aloft
San Benito, Cameron County	1	11:30 a	Short	Narrow	0	0	0	0	Tornado
Near Fort Isabel, Cameron County	1	11:45 a							3 waterspouts
3 NW Rosenberg, Fort Bend County	1	5:00 p							Funnel aloft
Longview, Gregg County	1	6:30 p							Funnel aloft
Near Whitehouse, Smith County	1	6:35 p							Funnel aloft
Reese Village, Lubbock County	8	8:00 p	?	?	0	0	?	?	Hail and windstorm
			Hailstones up to one and one half inches in diameter fell in Reese Village near Lubbock. Strong winds accompanied the hailstorm. There was no report of any damage.						
Near Falls, Crosby County	8	9:03 p							Funnel aloft
Near Roscoe, Nolan County	9	6:00 p-7:00 p	10	*5	0	0	?	4	Hailstorm
			Hailstones up to two and three quarters inches in diameter fell in a five-by-ten mile strip south and southwest of Roscoe. Some fields of cotton were destroyed and other crops were damaged. Crop damage was estimated at \$5,000. The large hail caused some roof and window damage to homes in the area.						
11 NW Gainesville, Cooke County	11	8:45 p-9:00 p	3	*½	0	0	4	0	Windstorm, heavy rain
			High thunderstorm winds raked the Moss Lake area about 11 miles northwest of Gainesville and caused considerable damage to lake-side property. Heaviest property damage was on the south side of the lake. Mobile homes, cabins, boats, trees and television antennae were damaged. An expensive mobile home, owned by Mr. and Mrs. Sam Crawford was moved about three feet by the winds. Throughout the area, large trees were uprooted, boats swamped and some damage reported to homes and trailers by water blown into them by the driving rain. Property damage was estimated at \$10,000.						
Near Hitchcock, Galveston County	13	1:25 p							Funnel aloft
Pampa, Gray County	13	5:15 p-6:30 p	?	?	0	0	0	0	Hailstorm
			Hailstones averaging one inch in diameter fell in Pampa. The largest hailstones were two inches in diameter. There were no reports of any damage.						
Ferryton and vicinity, Ochiltree County	13	6:00 p-6:20 p	?	*2	0	0	?	?	Hailstorm
			Hail averaging one and one quarter to one and one half inches in diameter severely damaged property in Ferryton and ripened wheat in a strip about two miles wide that extended eastward from Ferryton to Booker. The largest hailstones were three inches in diameter. Many homes in the southwest part of Ferryton lost all windows on the south side of their houses and and practically every house had some hail damage. All of the stained glass windows in the First Baptist Church were destroyed by the hail and damage was extensive to the stained glass windows in the Catholic church on Jefferson Street. The windows on the south side of the High School were broken out. From 20 to 40 percent of the uncut wheat in the path of the storm was destroyed.						
Near Borger, Hutchinson County	14	4:40 p-5:45 p	8	*3	0	0	4	0	Hail and windstorm
			Hail caused an estimated \$10,000 damage to the Borger Greenhouse property and about \$5,000 damage to roofs of dormitories at Gilstown. Two or three roofs of homes in the Spring Creek community were damaged also. Total damage due to hail was estimated at \$20,000. Hailstones averaged one half to one inch in diameter, but largest stones were two inches in diameter. High winds damaged several small buildings about 10 miles northeast of Borger.						
Booker and vicinity, Lipscomb and Ochiltree Counties	14	6:00 p-6:30 p	30	*10	0	0	5	5	Hail and windstorm
			Hail fell in a 10-by-30 mile area across portions of Lipscomb and Ochiltree Counties and caused an estimated \$150,000 damage to ripened wheat, corn and maize crops. The hail was accompanied by high winds. Generally, the hailstones were small in diameter, but largest stones measured two inches in diameter. In the Booker area, several hundred homes suffered some roof and window damage. Property losses totaled \$30,000.						
Tulia vicinity, Swisher County	17	6:00 p-7:00 p	7	*1	0	0	0	?	Hailstorm
			Small hail, averaging one quarter inch in diameter, caused extensive damage to cotton and grain sorghums in a one-by-seven mile						
Texas (continued)			strip through the Tulia area of Swisher County. The largest hailstones were three-quarters of an inch in diameter.						
10 NW Plainview, Hale County	17	6:45 p							3 funnels aloft
NE of Flour Bluff, Nueces County	18	7:20 a							Funnel aloft
15 ESE Corpus Christi, San Patricio County	18	7:20 a							Waterspout
Corpus Christi Bay, Nueces County	18	8:41 a							Funnel aloft
4 N Tulia, Swisher County	20	3:50 p	?	?	0	0	?	?	Hailstorm, heavy rain
			Hailstones up to one and three-quarters inches in diameter, accompanied by heavy rains, fell in the rural area about four miles north of Tulia.						
Lake Pauline, Hardeman County	20	5:15 p							Funnel aloft
Hale Center, Hale County	20	5:42 p	?	?	0	0	?	?	Hailstorm
			Hailstones up to two inches in diameter fell at Hale Center. No damage was reported.						
10 WNW Lubbock, Lubbock County	20	6:35 p	?	?	0	0	?	?	Hailstorm
			Hailstones up to one and three-quarter inches in diameter fell in an area about 10 miles west-northwest of Lubbock. No damage was reported.						
Near Cisco, Eastland County	21	4:40 p-5:00 p	?	?	0	0	0	0	2 Tornadoes
			A tornado touched down in an open field about four and one half miles west of Cisco and remained on the ground for approximately two minutes. A second tornado was observed about one and one half miles northeast of the first. The only damage was the uprooting and twisting off of a few trees.						
Texas City, Galveston County	22	8:25 a							Funnel aloft
2 NW Galveston, Galveston County	22	9:17 a							Funnel aloft
Near Gamado, Jackson County	23	10:25 a-10:38 a							Funnel aloft
2E Denison, Sherman County	23	1:00 p	**200	67	0	0	3	0	Tornado
			A small tornado destroyed a poultry house, killing some two dozen chickens and uprooted two large pecan trees about two miles east of Denison. The path of damage was 150 to 200 feet wide and approximately 200 yards long. Minor damage was sustained by the Donald J. Hood home and an automobile.						
Near Geronimo, Guadalupe County	24	1:17 p							Funnel aloft
1 E Bishop, Nueces County	24	4:50 p-5:00 p	1½	200	1	15	5	3	Tornado
			The infant son of Mr. and Mrs. J. E. Allred was killed and 15 persons were injured when a tornado destroyed the Golden Acres Trailer Park about one mile east of Bishop. The baby, said to be less than one-month-old, was found after a four-hour search. The tornado destroyed all but pine of the estimated 20 mobile homes in the park. Most of those not destroyed were damaged. The tornado tore the trailer homes apart like match boxes, scattering the remains of the homes and their contents over a large area. The destruction was so great that it was almost impossible to tell how many trailers were involved and where they had been situated before the tornado hit. Total property damage was estimated at \$150,000. Crop damage was estimated at \$5,000.						
6 E Aransas Pass, Aransas County	25	8:20 a							Funnel aloft
Corpus Christi, Nueces County	25	9:45 a	Short	Narrow	0	0	0	0	Tornado
			A small tornado touched earth briefly near the Flour Bluff section or Corpus Christi, then lifted and moved eastward over the Intra-coastal Canal southeast of the Corpus Christi Naval Air Station. There was no report of any damage.						
Trinity Bay, Chambers County	25	9:50 a							2 funnels aloft
Corpus Christi, Nueces County	25	10:20 a							Waterspout
Near Danevang, Wharton County	25	10:25 a							Funnel aloft
Corpus Christi, Nueces County	25	1:45 p							Funnel aloft

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

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					KILLED	INJURED	PROPERTY	CROPS	
<b>Texas (continued)</b>									
7 NNE Corpus Christi, Nueces County	26	10:55 a							Funnel aloft
SE Kingsville NAS, Kleberg County	26	11:25 a							Funnel aloft
5 NE Corpus Christi, Nueces County	26	11:40 a							Funnel aloft
Near Tynan, Bee County	26	1:54 p							Funnel aloft
Burnet County	26	4:15 p-4:45 p	4	1 1/2	0	0	?	0	Hail and windstorm
									Hail damage to cotton was near 100 percent in an area four miles long and one and one-half miles wide in the Briggs vicinity. Fields of maize were damaged heavily also. Hailstones averaged one inch in diameter; largest stones were one and one half inches in diameter. High winds severely damaged the roof of one home in the area and destroyed several outbuildings.
9 SW Brackettville, Kinney County	26	5:06 p-5:20 p	3	3/4	0	0	5	0	Tornado
									A tornado derailed 15 cars from the front of a moving Southern Pacific Lines freight train about nine miles southwest of Brackettville. The engineer stated that the train was moving about 25 miles per hour and that derailment began with the eighth car. There were no injuries. The engineer said he saw the telephone lines coming down and about the same time the engine started rocking then he heard the air lines break loose and derailment started. The train did no damage to telephone lines or to the poles. Damage to train and tracks was estimated conservatively at \$53,000. Damage to Bell Telephone poles and lines was estimated at \$1,000 and damage to Rio Grande Electric Coop poles was \$200. At the Tom Hefner ranch, one mile south of the derailment, a bunk house was damaged with an estimated loss of \$200. There were five Mexican males in the bunk house, but no injuries were received.
Fredericksburg, Gillespie County	26	5:45 p							Funnel aloft
10 SW Nederland, Jefferson County	27	11:10 a							Funnel aloft
<b>U. S. Virgin Islands</b>									
None reported									
<b>Utah</b>									
Davis County	4	AM			0	0	4	0	Damaging Winds
									Strong winds near Lagoon blew a 12 x 36 foot mobile home from a trailer completely destroying the home. Damage estimates were over \$4,000. The storm also broke power lines in the area causing scattered power outages.
50 miles West of Hill Field, Weber County	5	3:20 PM	Unk	Unk	0	0	0	0	Tornado
									A pilot reported a Funnel cloud 50 miles west of Hill Field which touched the ground in an unpopulated area. No Damage done.
Weber County	8	P.M.			0	0	4	3	Heavy Rain, flooding and lightning damage
									Heavy rains which hit the Ogden area during the afternoon caused over \$15,000 damage to homes and yards. The rains were followed by an electrical storm which knocked out a bank of major distribution transformers knocking out power over a wide area, set fire to a home with over 500 dollars damage, and killed a quarter horse colt in Pleasant View, injuring the mare standing close by.
Lagoon-Centerville area, Northern Davis County	10	1:05 to 1:55 PM	UNK	UNK	0	0	0	0	Tornado and Funnel Clouds
									Three small funnel clouds one of which briefly touched ground in an unpopulated area west of Francis Peak were observed by many people.
Thompson, Gran County	11	2:30	3/4 MI	Unk	0	0	3	2	Tornado
									A tornado moving from west to east tore limbs from trees up to 5 inches in diameter, leveled two small frame structures and further east destroyed a 12 x 30 foot mobile home.
<b>Utah (continued)</b>									
25 miles WSW of Vernal, Duchesne County	11	3:35 PM							Funnel Cloud
									A funnel cloud which did not touch the ground was observed about 25 miles WSW of Vernal.
Parowan Valley, Iron County	11	Aftn			0	0	0	4	Heavy Hail
									A heavy hailstorm with hail 3/4 in diameter moved from southwest to northeast thru the heart of the productive pumpwell area of Parowan Valley. The storm stripped the leaves from alfalfa, and pushed the grain into the ground completely destroying the crops in some areas.
North and Central portions western Utah	27	Late Forrn and aftn			0	13	5	3	Damaging Winds
									Winds with gusts up to 80 miles per hour began near Milford about 0930 am and moved northward into the northwestern part of the state during the afternoon caused damage over much of the area. Power and telephone lines were damaged by tree limbs. Roofs were ripped off from several homes one of which landed on top of a moving automobile in the Provo area injuring the driver. Bricks and limbs broke windows in many areas and blowing dust near Mills Junction was the major cause of a five car pile up which injured 12 people.
<b>Vermont</b>									
Southern	18	Evening			0	0	4	0	Lightning, wind
									Scattered damage from heavy thundersqualls.
<b>Virginia</b>									
Parramare Beach in Accomack County	6	6:30P							Funnel Cloud
									Coast Guard reported wind gusts 60 to over 90 knots and a funnel cloud which dissipated without touching ground.
Greenville and Mint Spring in Augusta County	10	Late Aftn							Hail, Wind, Rain
									Hail described as some the size of golf balls along with wind and heavy rain damaged fruit, gardens and crops. Barley crops were completely destroyed but the corn crop was expected to recover.
Bland and Giles Counties	17								Rain, High Water
									Several residences were surrounded by flood waters when Little Hunting Camp Creek overflowed its banks due to heavy rain. Several secondary bridges were washed out and some secondary roads were closed.
Pittsylvania and Campbell Counties	21								Hail
									Hail damaged crops and other property along a Chatham, Gretna, Brookneal line. Hail size was described as 3 inches long, 2 1/2 inches wide and 1 1/2 inches thick in the Brookneal area.
Hopewell	21	11:30A			0	0	4	0	Wind
									Numerous trees and branches were felled by the wind blocking roads, bringing down utility lines and causing other damage. A few buildings were damaged mainly by being unroofed.
Petersburg	21	11-12A			0	0	5	0	Tornado
									On the eastern edge of town, one large steel and frame building was completely destroyed and another still under construction had the steel frame twisted and bent beyond repair. Petersburg Airport measured 82 mph winds at the height of the storm which unroofed buildings, blew down signs, blew out plate glass and car windows and caused extensive damage to utility lines.
West Point and Vicinity	21	11:38A			0	1	5	0	Wind
									Strong winds unroofed buildings, toppled chimneys, downed trees, blew out windows, damaged a house boat, downed power lines, toppled a church steeple upon a car during services, overturned two mobile homes injuring one occupant, Clifton Holmes, destroyed a garage and caused interrupted electric service for several hours.
Lancaster and Northumberland Counties	21	Early Afternoon			0	1	4	0	Wind
									High winds completely demolished one house, removed the roof and porch from a store building, moved one house on its foundation, turned over one trailer, and damaged many other buildings in the area. The path of the storm was from Carters Creek to Fleets Bay to Byrdton, Mills, Fleeton and Reedville. The demolished house turned over several times had two occupants with one, Mrs. George Elmore, receiving minor injuries. Two power poles were snapped off by the wind about ten feet from the top. Many trees were downed and utility services were disrupted.

See reference notes at end of table.

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JUNE 1970

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					KILLED	INJURED	PROPERTY	CROPS		
<b>Virginia (continued)</b>										
Norfolk Area	21	Early Afternoon			1	4	5	0		Wind, Lightning, Rain
					Leon Hodge was washed overboard from a sailboat and apparently drowned. Sixty five calls for assistance from the Coast Guard were made by boatmen. Many small boats were capsized and beached with the occupants having to be rescued. An estimated 30 thousand users were still without electric services more than 7 hours after the beginning of the storm. Most disruptions were the result of trees down on the lines. One man, Billy Phelps, reportedly struck by lightning was checked at the Riverside Hospital and released. Many plate glass windows were broken. The Hampton drive-in movie screen was demolished. The Coast Guard cutter Sebago was forced aground at Sewalls Point Spit. The wind took off half the roof of the 120 room Quality Courts Motel with considerable water damage inside. One car was forced off the highway by the wind 7 miles east of Suffolk with the three occupants receiving injuries. A 12 foot high and 145 foot long cinderblock wall of a school under construction was demolished. A huge crane, pushed by the wind, smashed into the container ship Baltimore.					
Norfolk Area	21	Around 12:30P								Waterspouts
					Three waterspouts were reported 5 to 6 miles northwest of Norfolk.					
Richmond Area	21	Early Afternoon			0	0	4	0		Tornado, Wind, Lightning
					A house in Chesterfield County received \$6000 damage as a result of fire caused by lightning. A tornado completely destroyed a house trailer in the Winterpock area of Chesterfield County. High winds uprooted several trees and split and toppled others on a six acre farm in eastern Henrico County.					
Cumberland and Goochland Counties	25	4:30-5P			0	0	4	0		Lightning, Wind
					A former school building had 8 rooms and a hallway destroyed by fire caused by lightning at Cartersville. A barn at the State Prison farm burned completely after being struck by lightning. In addition, a large roof was blown from a shed and numerous trees were uprooted.					
Northumberland and Richmond Counties	25	Aftn			0	0	4	0		Wind, Lightning
					A barn in Northumberland County containing a combine, truck, pigs, and hay burned after being struck by lightning. High winds overturned and smashed a trailer near Haynesville in Richmond County.					
Norfolk Area	25	Late Aftn			0	0	4	0		Lightning, Rain Wind
					Numerous buildings and electric transformers were struck by lightning causing minor electric outages and fires. Heavy rain created instant lakes with flooding of streets and up to 4 1/2 feet of water in underpasses. Residents of a three story apartment house were evacuated after an accumulation of water caused the roof to collapse. One wing of a warehouse in Virginia Beach collapsed due to rain and wind with equipment and building material inside being damaged.					
Pittsylvania County	26	6:30-7P			0	1	0 <sup>3</sup>	0		Wind, Rain, Hail
					High winds with heavy rain struck Danville with trees uprooted some damaging buildings, utility service interrupted, basements flooded, windows blown out and TV antennas twisted and broken. One person, Mrs. Thelma Evans of Blair was treated at the hospital and released after being struck by lightning. Some crop damage in the county was reported due to hail.					
Shenandoah County	26	Evening								Hail, Rain
					Hail along with heavy rain damaged crops, orchards and home gardens. The hail stones were described as the size of marbles, and the rain totals ranged up to 2 1/2 inches.					
<b>Washington</b>										
15 miles SW Bellingham (Whatcom county)	26	2:24PM						0	0	Funnel cloud.
12 miles NW Spokane (Spokane county)	29	Evening			0	0				Tornado
					A small tornado struck a stand of pine trees on a hillside near Deep Creek. Damage confined to uprooting 15 pine trees. Severe thunderstorms in Spokane area.					
<b>West Virginia</b>										
Princeton, Mercer County	5	4:45 p.m.			0	0	4	3		Hailstorm
					Hail whipped by high winds smashed thousands of windows in the city of Princeton, where the storm was mainly confined. Several convertible tops were ripped. Many trees were denuded of their leaves and several fruit and nut trees were ruined. The amount of hail in this 15-minute storm was considerable and some lawns were still snowy white the following morning. Several gardens were wiped out as a result of the storm. Some residents reported chunks of hail "as large as golf balls."					
Morgantown, Monongalia County	5	7:30 p.m.			0	0	2	0		Lightning
					Lightning struck a gas meter on the Crafton Road several miles south of Morgantown during a severe thunderstorm. Gas was ignited and flames shot 10 feet into the air for several hours.					
Parkersburg, Wood County	8	Evening			0	2	2	0		Lightning
					Two fishermen, a father and son, were injured by lightning in the					
<b>West Virginia (continued)</b>										
Huntington, Cabell County	11	7:12 p.m.			0	0	4	0		Flash flood
					A heavy thunderstorm caused Buffalo Creek to overflow for 2 1/2 miles. Six new ranch homes 5 1/2 miles northeast of Huntington airport were flooded and many small bridges were destroyed.					
Ripley area, Jackson County	14	early morning			0	0	4	3		Cloudburst
					A box culvert was washed out on the Ripley-Gay Road. A farmer near Staats Mill lost about 400 bales of hay as they floated down a flooded creek.					
Petersburg, Grant County	18	7:30 p.m.			0	0	4	0		Windstorm
					An unoccupied house trailer was completely flattened by what the press termed a "tornado-type storm", which was accompanied by bolts of lightning, rain, crackling thunder and high winds. A falling tree was blown onto a parked car, and large plate glass windows were destroyed at a service station.					
Martinsburg, Berkeley County	26	evening			0	0	3	3		Thunderstorm
					Thunderstorm winds were responsible for disruption of power service as trees and limbs fell on power lines, mostly in south Berkeley County which received the brunt of the storm. Some mobile homes were badly damaged and others moved by the strong winds. The major damage was caused by extensive flooding of basements in the area. Wind gusts to 63 miles per hour were recorded at Martinsburg Airport where 2.39 inches of rain fell in several hours. Some orchards had scattered hail damage.					
Morgantown, Monongalia County	27	3:30 a.m.			0	0	3	0		Lightning
					A quonset barn about 4 miles north of Morgantown was set afire by lightning and burned to the ground.					
<b>Wisconsin</b>										
Walworth County	1	1:00 p			0	0	0	0		Funnels aloft
					Two funnels aloft observed over Lake Geneva					
Jefferson, Dodge Counties	10	2:30 p			0	0	3	0		Wind, Rain
					Strong winds with thunderstorms did scattered tree and roof damage in Watertown area. Also light flooding from heavy rain and hail.					
Polk County	10	3:30 p			0	0	3	0		Lightning
					Two horses killed by lightning and a third injured. Were standing in open field when struck. Injured horse received a bloody nose and walked around in a daze for a couple of days.					
Portage, Marathon Counties	11	4:00 p			0	0	4	3		Hail, wind
					Hail the size of golf ball did considerable damage to roofs, windows, sidings and cars in extreme northwestern Portage County. Storm cut a mile wide swath south to north through towns of Carson and Eau Claire. Also some crop damage. Wausau Airport measured gusts of 67 miles per hour as storm passed at 6:35 pm.					
Monroe County	12	1:30 p			1	0	5	0		Wind
					Severe thunderstorms moving from southeast to northwest blew down several tobacco barns in the area east of Cashton. A 63-year old man killed as barn collapsed.					
Barron, St. Croix and Pierce Counties	12	5:30 p			0	0	4	0		Lightning
					Lightning fire burned shed and new auto and some farm implement on Priesen farm northwest of Barron. Also scattered lightning damage near St. Croix Falls. Cow killed by lightning east of Ellsworth.					
Polk County	12	pm			0	1	0	0		Lightning
					McKinley woman injured by lightning while talking on the phone. Lightning burned left ear, the chest, arm and hip. She was temporarily unconscious and has lost hearing in left ear.					
Richland County	12	9:30 p			0	0	4	0		Lightning
					An 8-room farm house burned to the ground in fire believed set by lightning. Farm located west of Richland Center.					
Marathon County	14	5:00 a			0	0	5	5		Hail, Lightning
					Early Sunday morning hailstorm did extensive damage to roofs, cars, airplanes, gardens and crops in the Wausau area. Hail covered ground to a depth of one foot in some areas. Fire set by lightning at 7:00 am in Wausau area caused \$5,000 damage.					
Grant County	15	am			0	0	4	4		Rain
					Heavy early morning rain on soils soaked by rains of previous days caused flash flooding of bottom lands between Platteville and Dickeyville. Highway 151 closed for more than an hour. Many cornfields under water. One garage lost at Lewisburg and six cars washed away.					
Eau Claire, Chippewa Counties	15	am			0	0	4	0		Rain
					Torrential rains in Eau Claire area caused extensive damage to a newly paved section of highway causing undermining and collapse of pavements and washout and gullies 4 feet deep. Several pieces of heavy equipment buried in silt.					
Monroe County	15	12:30 p			0	0	3	0		Lightning
					Two cows standing under tree killed by lightning near Cashton.					

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					KILLED	INJURED	PROPERTY	CROPS	
Wisconsin (continued)									
St. Croix County	16	3:30 a			0	0	4	0	Wind
Strong winds destroyed barn on farm near Emerald.									
Central Counties	17	pm			0	5	6	5	Wind, Hail, Lightning
Severe thunderstorms with strong winds and large hail moved eastward across central Wisconsin from the Minneapolis area to Green Bay. Wind gusts to 72 mph brought down numerous trees in Eau Claire area. Golf ball size hail destroyed an estimated 70% of the apple crop in Lafayette Township in southern Chippewa County. Extensive hail damage also occurred at Cadott and in the towns of Goetz, Delmar and Colburn. Winds caused considerable damage to trees and buildings at Iola, Appleton, Seymour, Green Bay, Casco, Luxemburg and on Door Peninsula. Lightning fire destroyed farm near Clintonville.									
Portage County	17	6:10 p	1	100	0	0	0	0	Tornado
Tornado moving eastward touched down briefly 3 miles south of Wisconsin Rapids in open country.									
Wyoming									
Southeast Wyoming	10-12				0	0	6	0	Heavy rains and flooding
Heavy rains up to 6 inches in the Laramie Mountains from Casper to Wheatland caused flooding on the tributaries of the North Platte River. Some of the moisture fell as snow above 7500' elevation.									
Powell	27	6:00 p.			0	1	0	0	Lightning
Lightning injured a man as he was mowing his lawn.									
Crowheart	27	4:00 p.			0	2	3	0	Lightning
Lightning struck and killed a horse, injured the boy rider, knocked 3 other horses down, injured one of the riders, occurred in Crow Creek Basin on Black Mountain.									
Northern and Western Wyoming	27	Afternoon and Evening			0	0	5	0	Windstorm
Winds up to 100 miles per hour did damage to forests, crops, campgrounds, and campers during the afternoon and evening. Damage in Yellowstone Park, mostly near Fishing Bridge and Grant Campground near the west entrance, accounted for most of the Park's \$135,000 damage.									
North Carolina									
Cleveland, Mecklenburg, Orange, Polk & Swain Counties	5	4-8pm					3	4	Hail
1/2 inch hail reported near Tryon, smaller hail elsewhere. Scattered damage to roofs, gardens and grain fields.									
Beaufort, Dare, Hyde, Jones, Vance Counties	6	4-11pm					4	4	Hail, electrical
Hail caused scattered light damage to crops and gardens in several areas. Lightning burned a home in Belhaven.									
Alamance, Forsyth, Guilford, Person, Stokes, Rockingham Counties	10	4-8pm					4	4	Hail, electrical
Several occurrences of lightning-set fires doing minor damage. Scattered light damage to crops by hail.									
Cleveland, Forsyth, Gaston, Guilford, Madison, Rowan, Washington Counties	11	4-8pm			1	0	4	4	Hail, electrical
Man killed by lightning in a barn in Gaston County. Scattered areas of crop damage from hail; power failures and small fires due to lightning.									
Forsyth, Surry Counties	13	Evening			0	3	5	0	Rain, electrical
Three persons injured when lightning struck home in Dobson. Auditorium roof at Winston-Salem State University collapsed in heavy rain; entire building demolished.									
Edgecombe County	14	4:00pm					0	5	Hail
Heavy damage to tobacco crop over a 4 sq. mi. area.									
Davidson County	18	5:00pm					0	4	Hail
Tobacco and gardens damaged.									
Macon County	20	Morning					4	0	Wind
Trees blown down in Highlands area; house crushed, power lines out.									
Statewide	21	9am-10pm					5	5	Hail, wind, electrical
Widespread thunderstorms caused scattered occurrences of damaging winds, lightning and hail spread throughout most areas of the State, reported from forenoon to late evening. Egg size hail reported in Cabarrus, Montgomery & Scotland Counties, smaller size several other counties. Several fires started by lightning. Wind blew down trees demolished outbuildings, damaged roofs and power lines.									

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
North Carolina (continued)									
Piedmont, Southern Coastal Plain, Southern Mountains	22	Afternoon & even'g			2	0	4	5	Hail, wind, electrical
Widespread weather condition similar to that of the previous day. Hail up to an inch or more in diameter in Alamance and Cumberland Counties, smaller size in other areas. Heaviest hail damage to tobacco and corn crops over a 20 sq. mi. area of Jones County; lesser damage several other counties. Man and wife killed by lightning near Hendersonville; heavy hail damage to fruit in parts of Henderson County. Lightning burned a large home in Anson County. Wind blew down trees and broke limbs in widely separated areas.									
Dare County (offshore)	23	3:00pm					0	0	Waterspout
Reported 2 mi. NW of Diamond Shoals light tower, moving NNW.									
Alamance, Davidson, Guilford, Johnston, Vance, Wake, Wilkes & Wilson Counties	25	3-7pm					4	4	Hail, wind, electrical
Hail damaged tobacco crop several areas. Wind blew down trees in Alamance County and overturned a mobile home in Johnston County, damaged or destroyed outbuildings in Wilson County. Lightning set several fires.									

- <sup>0</sup> Includes crop damage.
- <sup>C</sup> Crop damage.
- <sup>\*</sup> Miles instead of yards.
- <sup>\*\*</sup> Yards instead of miles.
- <sup>†</sup> Storm damages are placed in categories varying from 1 to 9 as follows:
  - 1 Less than \$50
  - 2 \$50 to \$500
  - 3 \$500 to \$5,000
  - 4 \$5,000 to \$50,000
  - 5 \$50,000 to \$500,000
  - 6 \$500,000 to \$5,000,000
  - 7 \$5,000,000 to \$50,000,000
  - 8 \$50,000,000 to \$500,000,000
  - 9 \$500,000,000 to \$5,000,000,000.

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

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# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1970

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Illinois Jackson County	DELAYED DATA								
	March 1970	25 abt 6:10p	?	?	0	1	5	0	Tornado
	Tornado reportedly struck mobile home park about 2½ miles east of Carbondale and severely damaged or destroyed 10 to 15 mobile homes. A total of about 20 mobile homes were severely damaged as the parent storm moved across Jackson and Williamson Counties. No conventional homes were destroyed but one was badly damaged. Most other damage to small buildings, roofs, TV antennas or from broken trees and limbs. WRO, Cairo.								
Tennessee Lebanon, Wilson County	March 1970	25 11:55p.m.			0	0	3	0	Wind
	Thunderstorm winds overturned mobile home and downed a number of trees.								
South Dakota Near Clear Lake	April 1970	15 2:10 p	1	?	0	0	0	0	Tornado
Tornado touched down in open country moving from SW to NE with no reported damage.									
Vermont State	CORRECTED DATA								
	June 1969	28			0	0	4	2	Lightning, wind, rain
Scattered thunderstorms caused lightning and wind damage. A barn at Barre was destroyed by an early morning storm. Some utility outages from wind damage. Some crop damage from heavy rain.									
Florida	February 1970								
	Crestview Beach	1	5:15p						
	Pensacola Beach	1	6:30p						
	Pensacola (8mis. E)	1	6:30p						
Pensacola	2	7:50p							
Ft. Lauderdale	March 1970								
	2	5:16p							Corrects the time from that previously published.
Alabama	March 1970								
	30	10:30a							Corrects date from that previously published.

USCOMM-ESSA-Asheville, N. C. -7/31/70-1200