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# STORM DATA

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JULY

1973

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No. 7

Asheville, N.C.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1973

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>ALABAMA</b>									
Danfel's Gap, Cherokee County	25	5:30 p			1	0	0	0	Electrical
									Lightning struck man in garden adjacent to his home.
Gaylesville, Cherokee County	23	5:00 p			0	1	0	0	Electrical
									Lightning struck through window seriously injuring man in his home.
Springfield, Lauderdale County	10	?			1	0	0	0	Electrical
									Woman killed by lightning as she was entering storm shelter with members of her family.
Bay Minette, Baldwin County	13	Afternoon			0	5	3	0	Electrical
									Lightning struck tree in yard at residence, ran 40 feet across yard entered window of house. Knocking hole in wall, injuring persons in room, mostly from flying glass.
Tillman's Corner, Mobile County	10	5:00 p	200 yd	50	0	0	4	0	Tornado
									Tornado touched down briefly 10 miles southwest of Mobile, damage mainly to signs and plate glass windows. Funnel remained on ground for very short time.
Prichard, Mobile County	3	1:45 p	100 yd	50	0	0	3	0	Tornado
									Small tornado momentarily touched down just north of Mobile, damage to street signs.
Cullman, Cullman County	4	Evening			0	0	4	0	Electrical
									Lightening struck tall brick chimney at St. Bernard College.
Centreville, Bibb County	15	Afternoon			0	1	0	0	Electrical
									Man struck by lightning in yard.
<b>ALASKA</b>									
NONE REPORTED									
<b>ARIZONA</b>									
Salt River Valley Maricopa County	12	8:00 p			0	0	3	0	Thunderstorms
									Thunderstorms over central and western sections caused lightning damage to palm trees, and heavy rain and wind caused minor roof damage and urban street flooding. Wind peaked at SW 69 mph at Sky Harbor International Airport at 8:08 pm MST.
Eastern Maricopa and southern Gila Counties	14	Early evening			0	0	3	0	Thunderstorms Funnel Cloud
									Heavy thunderstorms caused damage to power lines, and heavy rains caused some road closures. Funnel cloud reported by public north of Mesa.
Tucson, Pima County	26	Early evening			1	4	0	0	Thunderstorms
									Thunderstorms with multiple lightning strikes killed one of three people under tree in Santa Rosa Park, injured a baseball player at Santa Rita Park and a man near the Tucson Art Center.
Tombstone, Cochise County	26	Afternoon			0	0	3	0	Thunderstorms
									Heavy rain, wind and hail caused damage to utilities, homes and a rock wall. There was local street flooding.
Prescott Valley, Yavapai County	30	4:15 p			0	0	0	0	Funnel Cloud
									Funnel cloud not touching the ground reported by public near the Prescott Country Club in Prescott Valley area east of Prescott.
<b>ARKANSAS</b>									
Little Rock area, Pulaski County	4	5:00 p to 7:00 p			1	0	4		Rain, hail, and lightning
									Heavy rain caused widespread local flooding of streets and low areas. One man fell from boat into drainage ditch and was drowned during storm. Two homes were heavily damaged by fire after being struck by lightning. Golf ball size hail reported at Burns Park in North Little Rock.
East of Hena, Polk County	4	9:30 p			0	0	5	c	Wind and rain
									Strong wind heavily damaged dairy buildings and blew down 70 acres of valuable hybrid sorghum.
Corning, Clay County	25	Afternoon			0	1	0	0	Lightning
									One person injured slightly when struck by lightning.
<b>ARKANSAS (continued)</b>									
Southeast Jefferson and Lincoln Counties	31	5:25 p							Funnel clouds
									State Police reported two funnel clouds over southeast Jefferson and Lincoln Counties. Movement unknown.
El Dorado, Union County	31	7:30 p							Funnel cloud
									Pilot reported funnel cloud not touching ground southwest of airport.
<b>CALIFORNIA</b>									
NORTHERN & CENTRAL NONE REPORTED									
<b>CALIFORNIA SOUTHERN</b>									
NO STORM DATA REPORT RECEIVED FOR THIS STATE									
<b>COLORADO</b>									
Morgan County	4	about 9:00a.			0	0	4	0	Wind
									A grain bin was blown over and a few houses were unroofed or damaged at Ft. Morgan.
Northeast portion	8	aftn, eve			0	0	3	4	Hail
									Hail severely damaged crops in parts of Weld County, Washington County and in several other localities.
Morgan County	9	7:45-7:51p.	1	narrow	0	0	0	0	Tornado
									A small tornado, moving southeast, was on the ground briefly from 11 mi. WSW to 10 mi. WSW of Ft. Morgan.
Montrose County	12	4:30p.			0	0	0	4	Hail
									Heavy hail west of Clatshe severely damaged crops.
Eastern portion	18	aftn, eve			0	0	4	4	Rain
									Heavy rains, reported unofficially as over 7 inches, produced flash flooding in parts of Lincoln and Yuma Counties. Heaviest rains were between Joes and Kirk and east of Karval.
Arapahoe County	19	6:18-6:39p.							Two funnels aloft
									Two funnels aloft occurred about 5 mi. southeast of Littleton, one from 6:18 to 6:22 p.m. and the other 6:34 to 6:39 p.m.
El Paso, Jefferson, Pueblo Counties	20	aftn, eve			0	0	6	5	Hail, rain, lightning
									Hail up to 1 3/4 inches diameter hit in the Pueblo area about 4:00 p.m. causing over \$4 million damage. Hail 3/4 inch diameter fell 6 mi. NW of the Colorado Springs Airport and lightning damage occurred west of Arvada.
Douglas County	21	1:45p.	1/2	narrow	0	0	3	0	Tornado
									A tornado touched down briefly 2 mi. NE of Parker.
Eastern portion	21	aftn, eve			0	0	3	4	Hail, 7 funnels aloft
									Hail damaged crops locally in Otero County and north of Kanorado. Hail up to 3/4 inch diameter fell 20 mi. west of Denver Airport. Funnels aloft were reported as follows: about 2 mi. SW of Monument at 12:32 p.m.; 7 mi. NW of Colorado Springs Airport at 12:40 p.m.; 3 mi. SE of Sedalia at 12:45 p.m.; 11 mi. SSE of the Denver Airport at 1:46 p.m.; near Parker at 1:00 p.m.; northwest of Ft. Carson at 1:30 p.m.; and 20 mi. SW of Flagler at 3:30 p.m.
Eastern portion	22	afternoon			0	0	4	3	Hail, rain, wind
									Hail 3/4 inch diameter fell 20 mi. west of Lamar at 3:00 p.m. Largest stones reported were 1 inch in diameter at Colorado Springs at 3:19 p.m. and 6 mi. north of Ft. Collins at 3:40 p.m. Flash flooding caused moderate damage at Colorado Springs and minor wind damage occurred at Aurora.
Kiowa County	24	4:25p.	1/2	narrow	0	0	0	0	Tornado
									Tornado, moving eastward, touched down about 20 mi. south of Cheyenne Wells.
Eastern portion	24	afternoon			0	0	4	5	Hail, wind, lightning
									Hail occurred at a number of localities causing considerable damage. Largest stones were about 2 1/2 inches diameter in the Camp area at 12:55 p.m. and about 15 mi. NNE of Colorado Springs near 2:00 p.m. Wind and hail damaged crops in Logan and Phillips Counties and lightning damaged a house in Weld County.
Lincoln County	28	5:10p.			0	0	3	0	Hail
									Hail 1/2 to 3/4 inch diameter fell at Hugo.

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<b>COLORADO (continued)</b>									
Sedgwick County	29								Funnel aloft
		A funnel aloft was reported at 10:21 p.m.				about 15 mi. NW of Holyoke			
Walsenburg to Ft. Collins	30	afternoon			0	1	5	3	Hail, lightning, rain, funnel aloft
		Most of the damage was caused by flash flooding of roads in the western part of Pueblo. Minor flash flooding was reported at Colorado Springs and at Ft. Collins. Lightning injured a man at Pueblo and a funnel aloft occurred in the Brownfield area at 2:02 p.m. Hail damage occurred at Walsenburg at 2:00 p.m.							
Lincoln County	31	5:40p.			0	0	3	0	Hail
		Hail up to 3/4 inch diameter fell in the Limon area.							
<b>CONNECTICUT</b>									
New London County	15	Morning			0	0	?	?	Heavy Rain
		About 3 inches of rainfall, most of it in a two hour period, resulted in widespread urban flooding, worst flooding occurred in New London.							
<b>DELAWARE</b>									
Leves	15	Late AM			1	0	4		Lightning
		Lightning killed a man in a boat and also 8 cows killed near Milton.							
<b>FLORIDA</b>									
GROVELAND, LAKE CO.	1	4:00PM			1				LIGHTNING
		A 58 YEAR OLD MAN WAS STRUCK BY LIGHTNING AND KILLED JUST AS HIS BOAT REACHED A LANDING RAMP RETURNING FROM A FISHING TRIP.							
LONGBOAT KEY, MANATEE CO.	3	AFTERNOON			1				LIGHTNING
		A 27 YEAR OLD CONSTRUCTION WORKER WAS STRUCK BY LIGHTNING AND KILLED WHILE WORKING ON THE THIRD FLOOR OF A BUILDING UNDER CONSTRUCTION.							
SANFORD, SEMINOLE CO.	12	7:45 PM	1/5	10	0	0	3	0	TORNADO
		A SMALL TORNADO DEVELOPED OVER LAKE MONROE AND MOVED ASHORE DAMAGING THE ROOF OF A HOUSE AND DESTROYING A BARN. ESTIMATED DAMAGE WAS \$1000.							
<b>GEORGIA</b>									
Lanier County	2	8:00 p.			0	0	0	5	C Wind, heavy rain and hail
		Hail up to 1 1/2 inches in diameter accompanied by heavy rain and strong winds caused considerable crop and property damage. County agent estimated tobacco crop loss and property damage near \$100,000 western portions of County.							
Irwin County	2	Night			0	0	0	5	C Rain, hail, wind, and electrical
		Hail up to 1 1/2 inches in diameter with heavy rain damaged corn and tobacco crops. Lightning disrupted power service over area. Strong winds blew down trees curving utility lines.							
Douglas	2	7:00 p.			0	0	0	5	C Wind and heavy rain
		Strong winds blew down numerous trees which cut utility lines. Many trees fell on houses and cars causing extensive damage.							
Jesup	2	5:00 p.			0	0	0	4	C Wind and heavy rain
		Strong winds blew down many large trees which cut utility lines. Car heavily damaged by a falling tree. Heavy rain caused street flooding.							
Kingsland	8	3:45 p.			0	0	0	4	C Electrical
		House and several pecan trees destroyed by fire as result of lightning strike.							
Augusta	11	Afternoon			0	7	0	4	C Electrical and rain
		House damaged by fire as result of lightning strike. Seven soldiers at Ft. Gordon stricken by lightning. Heavy rains caused local flooding in low areas.							
McIntosh, Long, and Bryan Counties	18	7:30 p.			0	0	0	5	Electrical
		Damage and some fires to several buildings due to lightning strikes.							
Athens	22	9:30 p.			0	0	0	5	Electrical
		Chemical plant destroyed by fire as a result of lightning strike.							
<b>GEORGIA (continued)</b>									
Atlanta	25	Afternoon			0	0	4	?	Heavy rains
		Excessive rainfall caused considerable street flooding. Numerous cars were flooded out in underpasses and low places.							
<b>HAWAII</b>									
<b>IDAHO</b>									
Near Blackfoot, Bingham County	17	6:30 p.			0	1	4	0	Wind, Rain
		High winds accompanied by rain pushed trailer house and tractor off highway injuring driver and damaging house. Telephone poles blown down disrupting service.							
Idaho Falls, 5 mi SW Bonneville County	18	5:20 p.							Funnel Cloud
		Reported by FSS at Idaho Falls.							
Twin Falls area, Twin Falls County	20	evening			0	0	0	4	Wind, Hail, Lightning
		Hail ruined 35 acres of peas near Twin Falls and 2 range fires in Bliss vicinity.							
Idaho Falls, 10 mi SW	20	9:45 a.							Funnel Cloud
Inkon, Bannock County	21	evening			0	0	3	4	Rain, Hail
		Several homes and potato processing plant flooded by heavy rains. Damage reported to ripe barley in Bannock County.							
Malad, 2 mi S Oneida County	21	1:25 p.							Funnel Cloud
St. Anthony, Fremont County	22	afternoon	4	*1	0	0	0	4	Wind, Rain, Hail
		Potato plants and grain damaged by hail.							
Sugar City area, Madison County	22	afternoon	**50	25	0	0	2	0	Tornado
		Funnel cloud reported 5 mi NW Sugar City at 1:36 p.m. and report of wind lifting heavy beam of cattle shed 50 yards and scattering roofing in 100 ft. area about same time would indicate a tornado. Estimated FFP-001.							
Burley, Cassia County, Rupert, Minidoka County	23	afternoon	30	*3	0	0	0	6	Hail
		Extensive crop damage from hail storm. Estimated 60 percent loss on beans and grain ready for harvest; about 30 percent loss on potatoes, sugar beets, corn and dry peas.							
<b>ILLINOIS</b>									
Mason	1	6:30PM	?	?	0	0	3	0	TORNADO
		Tornado touched down at a farm near town. Storm tore off roof to a machine shed, damaged machines inside shed.							
Monticello	3	Afternoon	2	11/2 mi	0	0	3	0	C HAIL, WINDS
		Hail badly damaged corn and soybean crops in an area just southeast of town. Light property damage occurred in town due to tree limbs twisted off by high winds.							
Hillsboro	9	4:30PM			0	1	0	0	LIGHTNING
		Lightning struck a delivery truck injuring the driver.							
Fairmont City	9	4:30PM	?	?	0	0	4	0	WIND, RAIN, HAIL
		Heavy rains up to 5 inches caused flooding of many streets and basements. Gusts to 80 mph downed trees and wires. Some roofs were damaged due to hail.							
Jacksonville	20	Evening			0	0	4	0	C RAIN
		Heavy rains over 6 inches flooded streets, stalled cars, disturbed power lines. Surrounding counties had partially flooded roads making driving dangerous. Cars forced off roads or ran off slicked thoroughfares.							
Coles and Edgar ctyes	20-21	Night- Early AM			0	0	5	0	C RAIN, WIND
		Rainfall of 6-8 inches collected in Edgar cty causing flooded highways, basements and fields. City streets flooded up to doors of many homes in the area. Coles cty received amounts up to 4 inches. Greatest property damage occurred at Mattoon where strong winds blew down power lines on homes and cars.							
Mt. Carmel	21	Evening			0	0	4	0	WIND, LIGHTNING
		High winds downed many trees and power lines causing numerous power outages. Four fires in private homes were started by lightning.							
Decatur	22	7:40PM			0	0	0	0	FUNNEL
		Funnel cloud sighted at airport; disappeared in clouds after 15 minutes.							

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<b>ILLINOIS (continued)</b>									
Lincoln	23	8PM	?	?	0	0	4	0	TORNADO, WIND
			Two twisters occurred on east side and northwest side of town with no reports of damage. 60 mph winds damaged 10 large tents near town.						
Paxton	25	7PM			1	0	0	0	LIGHTNING
			Woman was killed by lightning in an exposed area.						
Beardtown	27	7PM	?	?	0	0	4	0	TORNADO
			Small tornado touched down at shopping center producing only moderate damage.						
Joliet, SN	28	10:30PM	?	?	0	0	4	0	TORNADO
			Tornado touched down briefly at Lewis-Logport airport demolishing two open type hangers and damaging nearby aircraft.						
Pontoon Beach (near Granite City)	29	NIGHT	?	?	0	0	4	0	TORNADO
			Tornado touched down in a shopping center and produced mild damage. Storm then skipped over apartment complex and caused mobile home to explode.						
Decatur	30	5:55PM			0	0	0	0	FUNNEL
			Funnel sighted 10 miles east of town.						
<b>INDIANA</b>									
Angola Area Steuben County	2	4:25 p			5	0	4	0	Wind, lightning
			Boy killed by lightning while standing under tree. About 5 minutes earlier a small plane crashed in thunderstorm 3 miles south killing all 4 occupants.						
Auburn Area DeKalb County	2	4:30 p							Funnel aloft
Indianapolis Area Marion County	4	10:25 a	20	100	0	0	6	0	Tornado, rain
			Tornado first touched down in northwest Indianapolis then became funnel aloft that approached the ground several times as it moved ESE about 30 mph to Mt. Comfort Area east of Indianapolis. This tornado developed on a N/S line of severe thunderstorms that caused considerable localized damages both N and S of tornado track. Numerous underpasses in Indianapolis were flooded by heavy rains.						
Edinburg Area Johnson County	4	10:59 a	1/4	50	0	0	4	0	Tornado
			Touchdown felled numerous trees.						
Greensburg Area Decatur County	4	11:45 a			0	0	4	0	Wind, lightning
Near Plainfield Hendricks County	10	7:00 a	1/4	100	0	0	3	0	Tornado
			Tornado 3 miles W of Plainfield in wooded area. Path of heavy tree damage towards NE.						
Near Brookville Franklin County	20	Evening			1	0	0	0	Lightning
			A farmer was killed when lightning struck him as he was getting off tractor.						
Central Indiana	20/ 21	Overnight			1	0	5	0	Rain
			Flash flooding that resulted from very heavy overnight rains that occurred in a broad band across central Indiana caused considerable localized flooding damage in Terre Haute, Bedford, Indianapolis, and other central Indiana locations. Heaviest 24 hour rainfall amounts were: Bowling Green, 6.80 inches; Terre Haute, 5.92 inches; Orleans, 5.73 inches; Elkhart, 4.30 inches; and Indianapolis, 3.89 inches.						
Evansville Area Vanderburgh County	21	Evening			0	0	5	0	Wind, rain, lightning
			Numerous outages of electricity and telephones. Many trees down. Considerable flooding of underpasses.						
Terre Haute Area Vigo County	22	8:07 p							Funnel aloft
			20 miles south of Terre Haute. Moved NE.						
Richmond Area Wayne County	25	9:00 a			0	0	5	0	Rain
			Flash flooding resulting from very heavy rain caused considerable local flooding and damage.						
<b>INDIANA (continued)</b>									
Columbus Bartholomew County	25	1:50 p			1	1	2	0	Lightning
			Boy was killed and another boy injured when struck by lightning while riding bicycles 35 feet apart.						
Near Lafayette Tippecanoe County	26	6:20 p			1	0	0	0	Lightning
			Youth was killed when struck by lightning while sitting in a metal chair under a tree.						
Near Monticello White County	30	5:00 p			2	1	0	0	Lightning
			Two boys were killed when struck by lightning. One was in a treehouse and the other was standing on the ground by the tree. A second boy in the treehouse was injured but not killed.						
<b>IOWA</b>									
<b>KANSAS</b>									
Northeast	2	Night			0	0	5	5	Wind, lightning, funnels aloft
			NO STORM DATA REPORT RECEIVED FOR THIS STATE						
			Severe thunderstorms developed in north central across Cloud, Washington, and Marshall counties, about 6:30 p and moved eastward across northeast portion producing substantial local wind damage. The most intense winds of 45 to over 85 miles per hour occurred down the Kansas River basin between Rossville and Lawrence during the evening, causing general tree, powerline, and property damage. Several trailer homes were overturned or demolished. One hundred thousand dollar damage loss at Forbes Air Force Base alone, from damage to four C-130 aircraft and hangers. Several lightning strikes produced local home and hay barn fires. Funnels aloft were observed 2 miles west of Blue Rapids at 6:35 p; 4 miles north of Rossville at 4:49 p; 2 miles southwest of Wakarusa at 8:32 p. A 9 year old boy was electrocuted by a downed power line in Topeka on the 3rd, as a result of the storm.						
Barton County	3	5:00 p			0	0	3	0	Wind, 1 funnel aloft
			Strong winds damaged power lines and poles at Great Bend. A funnel aloft reported 7 miles west-southwest of Great Bend.						
Lane County	3	4:00 p			0	0	4	0	Wind
			Strong winds at Shields damaged 3 mobile homes.						
Shawnee County	5	4:00 p			0	1	0	0	Lightning
			Farmer struck and seriously injured by lightning while riding a tractor near Wakarusa, but recovered.						
Crawford County	10	4:00 p			0	0	4	0	Wind
			Strong winds resulted in damage to three house trailers, several automobiles, and some facilities at the local country club in Pittsburg.						
Clay County	13	11:00 p			0	0	4	0	Lightning
			Lightning struck and burned barn containing 1900 bales of hay.						
Ottawa County	18	11:00 p					4	0	Lightning
			Lightning struck and burned grocery and historic Post Office at Wells, 5:00 a.						
Logan County	19	2:30 p							Funnel aloft
			Funnel aloft sighted in vicinity of Oakley.						
Coffey County	19	5:30 p					?	0	Lightning
			Lightning struck barn with considerable stored grain, and burned to the ground, 2 miles north of Lebo.						
Stafford County	19	6:00 p							Funnels aloft
			2 funnels aloft sighted in central Stafford County.						
Saline County	19	6:10 p							Funnel aloft
			Funnel aloft sighted 25 miles northwest of Salina.						
Russell, Lincoln, Ellsworth, and Dickinson County	19	evening			0	0	4	?	Lightning
			Lightning struck and burned oil field pumping shed 10 miles south southeast of Russell, and a home in Sylvan Grove, and killed horse and calf near Abilene.						
Rice, Reno, Stafford, and McPherson Counties	19	7:15 10:45 p							Funnel aloft
			Funnel aloft sighted southwest of Stafford about 7:15 p; moved east northeast and was last sighted southeast of McPherson, about 10:45 p. No damage reported.						
Dickinson, Ellsworth, Lincoln, Mitchell, and Saline County	19- 20				0	0	4	4	Heavy Rains
			Heavy general rains of 4 to 8 inches with Flash Flooding of small streams, causing some property and crop damage.						

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<b>KANSAS (continued)</b>									
Stafford County	20	6:15 p							Funnel aloft
									Funnel aloft sighted 9 miles southwest of Stafford.
Franklin County	21	early morning			0	0	4		Lightning
									Lightning struck and killed 14 head of cows near Ottawa.
Greeley County	21	5:00 p			0	0	4	0	Lightning
									Lightning caused fire which destroyed 3000 bales of Hay 5 miles northeast of Tribune.
Seward County	21	7:40 p			0	0	4	0	Wind
									Squall line with gusts to 70 miles per hour at Liberal turned over two sail plane trailers and wrecked one sail plane.
Allen County	22	5:25 p							Funnel Aloft
									Funnel aloft sighted south of Humboldt. No damage.
Montgomery County	22	5:45 p			0	0	5	0	Lightning
									Lightning caused fire and extensive damage to 3 downtown business buildings in Coffeyville.
Labette County	22	6:14 p							Funnel aloft
									Funnel aloft was sighted just west of Parsons. No damage.
Bourbon County	22	6:03 6:33 p							Funnel aloft
									Funnel aloft sighted southwest of Bronson. No damage.
Southern Osage County	23	Evening			0	0	4	0	Lightning
									Storage barn struck by lightning and burned with grain and various other material and equipment. 4,000 bushel of
Sherman County	24	4:00 p	6	1500	0	0	5	5	Hail, Heavy rains
									Severe thunderstorm produced large hail to golf ball size, and heavy rains, 8 to 9 miles southeast of Goodland. Damage from rains primarily to irrigated sugar beets and corn.
Ellis County	24	5:00 p					7	7	Hail
									Three-quarter inch to golf ball size hail in Ellis and Hays vicinities.
Reno, Northern Sedgwick, and Southern Harvey Counties	24	7:08 - 7:40 p							Funnel Aloft
									Funnel aloft reported just southeast of Hutchinson about 7:08, moved eastward and was last sighted just west of Sedgwick about 7:40 p.
Sedgwick County	24	8:11 p							Funnel Aloft
									Funnel aloft sighted 3 to 5 miles northeast of McConnell Air Force Base near Wichita.
Logan and Gove Counties	25	5:00 p	6	1000	0	0	0	4	Hail
									Severe thunderstorm produced hail to golf ball size in a 6 mile long line centered about 5 miles southeast of Oakley. Damage primarily to irrigated corn.
Sherman County	29	12:30 p	2	500	0	0	0	4	Hail
									Severe thunderstorm with hail to golf ball size about 8 miles north northwest of Goodland. Total damage to 400 acres of irrigated corn.
<b>KENTUCKY</b>									
Sumerset	1	6 pm			0	0	4		Wind
									Winds destroyed a mobile home and blew the tops off several trees.
Corbin	1	8 pm			0	0	5		Flood
									A flash-flood created the most property damage in Corbin since the Flood Control Project was completed in 1961.
Lewis County	1	Evening			0	0	5		Lightning, flood
									Lewis County was hit hard. Bridges were washed out and roads damaged. Lightning caused fires that destroyed several buildings around the county.
Lebanon	1	3 pm			0	0	4		Lightning
									Eight registered Angus cows were killed by lightning on a Campbellsville highway.
Bowling Green	1	Afternoon			0	0	4	0	Rain
									Around one inch of rain in a short period of time caused flooding in the Bowling Green area.
Madisonville	1	Afternoon			0	0	5	0	Wind, rain
									2.15 inches of rain fell in less than an hour causing flash-flooding. Wind destroyed the roof of the Erlington High gymnasium.
<b>KENTUCKY (continued)</b>									
Pendleton, Bracken, Mason & Harrison Counties	1	Afternoon			0	0	0	0	Rain, hail
									Heavy rains caused flash-flooding of much farm land. Cornfields in low areas were left standing in water. Hail damaged burley tobacco crops in scattered locations.
Northeastern and Northern Bluegrass	3	Afternoon			0	0	4		Thunderstorms
									Scattered reports of wind damage to buildings and trees through the area.
Shepherdsville	4	1:15 pm			0	0	4		Winds
									Strong winds destroyed a large building and damaged trees.
Sumerset	4	Afternoon			0	0	0	0	Heavy rain
									Rainfall in amounts up to 6 inches caused widespread flood damage in Sumerset and other locations in Pulaski County.
Franklin and Fayette Counties	4	Mid Afternoon			0	0	4		Wind and rain
									Wind damage to trees and buildings was scattered over the two counties. Minor flooding occurred in downtown Franklin.
Western, Central, and Bluegrass areas	10	Early Afternoon			0	0	5		Heavy rain, lightning
									From Mayfield in Western Kentucky to Irvine in the eastern edge of the Kentucky Bluegrass area, the reports of heavy rains with flash-floods or lightning damage were numerous. Several barns were destroyed by fires caused by lightning. 2 1/2 inches of rain fell in less than an hour in Campbellsville flooding several businesses and homes. Three cows were killed by lightning near Campbellsville. Mayor of Irvine reported 4.7 inches of rain fell within 80 minutes at Ravenna, causing the worst flooding he had seen in his 50 years there.
Central Kentucky	14	Afternoon			0	0	4		Thunderstorm
									An electrical storm caused many power failures and brief heavy rains flooded many homes and businesses. Eight cows and a calf were killed by lightning near Central City. Nearly 5 inches of rain fell in Greensburg in just over an hour.
Louisville	19	9 pm			0	0	4		Wind, rain, lightning
									Eastern Jefferson County experienced heavy rains, some flooding, and wind damage.
Ashland	19	Night			0	0	4		Rain
									An isolated rainstorm hit Ashland causing flooded streets, flooded basements of homes, and paralyzed traffic.
Central and Blue-Grass Areas	21	Evening			3	0	4	5	Heavy rain, lightning
									Rainfall amounts of 5 to 6 inches were reported from several locations in Central Kentucky. Corps of Engineers at Nolin Reservoir reported 5.81 inches of rain fell between 11:45 p.m. July 21 and 7 a.m. July 23. The National Weather Service in Louisville recorded over 5 inches of rain fell during the night of July 21. The floods in the Louisville area left three people dead. Two people drowned and one was electrocuted in a flooded basement. An official from the U.S. Soil Conservation Service set the crop loss in Grayson and Ohio Counties at \$200,000. Reports of flood damage to roads, bridges and crops were common through the area. Reports of buildings being destroyed by fire caused by lightning were numerous from south central Kentucky to the Northern Bluegrass area.
Franklin	22	4 pm			0	0	4		Tornado
									A tornado with a path of destruction about 50 feet wide skipped through Simpson County destroying two barns and several houses. One person saw the twister.
Campbellville, Louisville, and Corbin	22	Evening			0	0	4		Thunderstorm
									Evening thunderstorms caused scattered damage in these areas.
Webster and Union Counties	23	Evening			0	0	4		Thunderstorm
									Numerous power outages. Over 4 inches of rain fell in Uniontown during the evening.
Bowling Green	23	8:30 pm			0	3	4		Funnel
									Three people were injured when their mobile home was struck by strong winds. They saw a funnel-shaped cloud approaching their mobile home. Picture and other information indicate straight-line winds.
Lawrenceburg	23	Night			0	0	3		Thunderstorm
									Mobile home moved four feet by storm. Minor damage elsewhere.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1973

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
<b>KENTUCKY (continued)</b>											
Middlesboro	23	Morning			0	0	4				Heavy rains
											Locally severe flooding caused considerable damage throughout the city.
Covington, Erlanger, Lexington, Shelbyville	24	Morning thru Midday			0	0	4				Heavy rain
											Some called it a muddy cloudburst. In Erlanger it was 1.25 inches of rain in 15 minutes. Flood damage was widespread in the named cities.
Edmonton, Berea	24	Night			0	0	5				Heavy rain
											Berea had over 2 inches of rainfall in two hours, causing flash-flooding. Flood damage was particularly extensive in Edmonton. Many crops were destroyed in the area with one farmer reporting 100 acres of corn under water.
Franklin	28	Night			0	0	3				Lightning, rain
											Three inches of rain and lightning caused widespread damage in the Franklin community.
Horse Cave	31	Day			0	1	3				Lightning
											Fifteen year old struck by lightning while trying to erect a TV antenna during storm.
<b>LOUISIANA</b>											
<u>Rapides</u>	4	3:15 PM			1	2					Lightning
											One woman killed, two injured as lightning struck tree under which they were seeking shelter during thunderstorm. Fatally injured woman was reportedly leaning against the tree when bolt struck.
<u>South Central Louisiana</u>	4	Aftn.			0	0	4	0			Lightning, Hail Wind
											Frequent lightning strikes occurred over South Central Louisiana during afternoon. Electrical services disrupted in several areas. One house destroyed by fire caused by lightning. Golf ball size hail and high winds also caused minor damage.
<u>Vermillion Parish</u>	23	11:12 AM	1	25	0	0	0	0			Small Tornado
											Small tornado reported by pilot about 20 SW Lafayette.
<u>St. Mary Parish</u>	28	Aftn.			0	0	4	0			Lightning
											Fire caused by lightning destroyed mobile home.
<u>Parish</u>											
											<b>FUNNEL CLOUDS REPORTED DURING JULY</b>
<u>Cameron</u>	2	9:44 AM			21						SSW Lake Charles
<u>St. Martin</u>	5	12:35 PM			20						SE Lafayette
<u>Orleans</u>	5	7:15 PM									Near Lakefront Airport in Eastern New Orleans
<u>Lafourche</u>	21	4:00 AM									Near Grand Isle
<u>Calcasieu</u>	22	3:05 PM									Near Childe
<u>Vermillion</u>	23	11:08 AM			25						SW Lafayette
<u>Cameron</u>	23	1:50 PM			23						SE Lake Charles
<u>Calcasieu</u>	23	2:05 PM			6						E Lake Charles
"	23	2:05 PM			13						NE Lake Charles
"	23	2:05 PM			12						SE Lake Charles
<u>St. Mary</u>	23	2:22 PM			45						SSE Lafayette
<u>St. Charles</u>	24	12:30 PM									Just NW Moisant Airport
<u>Calcasieu</u>	25	11:20 AM			5						NW Lake Charles
<u>Jefferson</u>	25	8:29 AM									At Moisant Airport
<u>Orleans</u>	26	12:26 PM									At Lakefront Airport
<u>Calcasieu</u>	26	5:25 PM									Over Lake Charles
<u>Lafayette</u>	29	11:25 AM			11						NW Lafayette
											<b>WATERSPOUTS REPORTED DURING JULY</b>
	16	1:54 PM			8						Calendar Field
	21	7:15 AM			4						E Lakefront
	22	11:47 AM			8						N Moisant over Lake Pontchartrain
	23	7:06 AM			5						ENE Moisant Airport over Lake Pontchartrain
	25	8:35 AM			5						N Moisant Airport over Lake Pontchartrain
	26	12:23 PM			15						W " " " " " "
<b>MAINE</b>											
<u>North and Western Counties</u>	1-4				2		6	6			Rain
											Heavy rains continued from late June, causing flooding of streams and lowland flooding along major rivers. 2 persons drowned boating on lake. Damage estimates went as high as 2 million dollars.
<u>Van Buren, Aroostook County</u>	5	PM					4	3			Heavy rain
											Heavy showers caused flooding in Van Buren. Stores and cellars were flooded out. Potato fields were inundated.
<u>Perham, Washburn, Aroostook County</u>	20	5:30 p.	0.3	100	2	4	4				Possible tornado, thunderstorm, hail
											Wind showed some circular motion in field prior to demolishing mobile home. Hail, marble-sized. Considerable crop damage from hail. Meteorologist at Caribou surveyed the area. Indicated straight line wind damage.
<b>MARYLAND</b>											
College Park, Elkton	3	5-9 p			0	0					Flash flood
											Heavy rains (2 to 3 inches) caused urban flooding.
Baltimore County	10	Afternoon			0	2					Lightning
											Lightning struck near a patrol car injuring 2 people.
Barton	31	6-8 p			0	0	4				Flash flood
											Heavy rains caused landslides damaging 15 homes.
DISTRICT OF COLUMBIA											
Northern sections	3	6:00 p			0	0					Flash flood
											Heavy rains (2 to 3 inches) caused urban flooding.
<b>MASSACHUSETTS</b>											
E-Central Berkshire County	14	11a.- Noon			0	0	3	1			Severe Thunderstorm
											Severe thunderstorm moved ESE across NE section Pittsfield, Dalton, Peru, Hinsdale. Several large trees, hundreds of branches downed. Cooperative observer in Dalton observed gust to 55 miles an hour, hail from 1/8 to 3/4 inch diameter and 0.62 inches 1 rain in 10 minute period (11:25a. - 11:35a.). Unofficial storm rainfall up to 2 inches flooded some lowlands. Winds overturned many boats moored on lakes.
W Branstable and Dukes Counties	15	7:30a.- 8a.			0	0	4	1			Severe Thunderstorm
											Intense squall line containing severe thunderstorm moved Southeastward rapidly. Apparently, one cell within the line moved rapidly Southeastward from the Buzzards Bay area across Woods Hole - Quissett area and across central Martha's Vineyard affecting Vineyard Haven, Tisbury and W. Tisbury areas. Internal local circulation perhaps 1-2 miles wide resulted in windows "popping" out of store fronts and cars and unusual .14 inch pressure jump at Woods Hole.
											Buzzards Bay Entrance Tower at South end of Cape Cod Canal recorded gust to 95 knots. Several other measurements within the storm area ranged from 53 to 85 knots. Most damage occurred from falling trees and large branches contacting utilities and in some cases cars and homes. Hail (unknown size) was reported at W. Tisbury, Martha's Vineyard and 1/4 inch diameter at Otis Field near Washpee on Cape Cod where gusts reached 53 knots at 7:31a.
35-mile-radius of Boston	29	4p.-6p.			0	0	3	1			Thunderstorms
											Line of intense thunderstorms dropped 1 to 2 inches rain over many locations causing numerous traffic tie-ups. Some streets reported 2 feet of water. Numerous lightning strikes resulted in scattered power outages and many homes struck with several minor fires reported. Nine houses reported struck by lightning in small town of Swampscott, 10 miles Northeast of Boston on the coast. Strong winds accompanied some of the storms, blowing down a few trees.
<b>MICHIGAN</b>											
Southern Lower Peninsula	2	noon-7p			0	4	4	C			Heavy rain and wind.
											Squall line produced rainfall amounts of from 1 to 1 1/2 inches in a 15-20 minute period at many locations. Heavy rain combined with winds of 30-40 mph caused widespread tree damage.
Berrien Co.											Considerable damage reported. 8 miles east of Benton Harbor a fruit packing building 40 x 60 feet collapsed due to heavy rain and wind.
											2 injuries in automobile accidents near Muskegon, 2 more in Battle Creek.
Van Ettan Lake, Iosco Co.	2	6:30p		300			2				Thundersquall
											Trees, houses and boats damaged on east shore of lake.
East of Milan, Monroe Co.	3	3:45p									Thundersquall
											Equipment building destroyed and house damaged by falling trees.
12 W Saginaw, Saginaw Co.	3	1:45p									Funnel cloud.
											Sighted from aircraft.
3 NE Otsego, Allegan Co.	9	5p						3			Lightning.
											Barn and chickens destroyed.
Howell, Livingston Co.	10	morning						4			Lightning.
											Feed store set afire.
Manistee, Manistee Co.	12	10.25a						2			Hail, wind.
											Golfball size hail, heavy rain, and strong winds. House damaged by falling tree.
Yale, St. Clair Co.	13	10.15a									Wind, hail.
											Trees damaged, marble size hail.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1973

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS														
<b>MICHIGAN (continued)</b>										<b>MISSISSIPPI (continued)</b>																						
1 E Kalamazoo, Kalamazoo, Co.	13	10.15p							Lightning.	Biloxi 7 SW Harrison County	26	9 AM			0	0	0	0	Waterspout													
									House damaged and set afire.																							
Rock, Delta Co.	26	5.17p							Funnel cloud	Philadelphia Meshoba County	30	3:30 PM			1	1	0	0	Lightning													
Green Bay, off Peninsula Point	27	1.04p							Tornado	Belzoni Humphreys County	31	3:10 PM							Funnel Cloud Aloft													
Portage Twp., Kalamazoo Co.	27	9.05p	5.6	100	0	1	5		Tornado	Bolivar County	31	6:15 PM							Funnel Cloud Aloft													
									Five separate track segments from just east of U.S.131 to 2 1/2 miles south southeast of Kalamazoo Airport. 60 homes damaged.																							
MINNESOTA										MISSOURI																						
SEE END OF TABLE										Stone, Christian and Taney Counties in Southwest Missouri																						
Iuka, Tishomingo County	1	12:40 PM			0	0	4	0	Windstorm		1	6a-6p			0	0	?	?	Flash Flood													
									Windstorm damaged roofs and windows in 15 homes. Most damage was caused by falling trees. One roof on an apartment building under construction was lifted off and deposited behind the building. Total damage estimated at \$20,000.										Rainfall amounts ranged from 4.29 inches at Springfield Municipal Airport to 10 inches at Shepherd of the Hills Farm. Reported damage was some loss of livestock and two bridges. There were 18.7 inches precipitation measured at Boaz, 16 inches at Clever, and 16.7 inches at Union City - all measured reliably.													
Biloxi Area Harrison County	4	3:30 PM			2	0	0	0	Lightning	Oregon, Holt County	3	12:30a			?	?	0	0	0	0	Severe Thunderstorm											
									Lightning struck and killed a 16-year old youth while standing on the beach. Lightning killed a water skier while skiing on Back Bay at 4:30 PM.											Winds of 60 miles per hour were reported.												
Pickwick State Park Tishomingo County	4	5:10 PM			1	1	0	0	Lightning	Trenton, Grundy Co.	3	12:30a			?	?	0	0	?	?	Severe Thunderstorm											
									Lightning killed 15-year old youth and seriously injured his father when lightning struck a tree at their campsite. Their fold-out camper was adjacent to the tree struck by lightning.											25 Customers without power. Two boats sunken at Trenton Lake and canopy on store front destroyed.												
Kosciusko Area Attala County	5	Early Morning			0	0	3	0	Lightning	St. Joseph, Buchanan County	4	12:05a			?	?	1	0	0	0	Severe Thunderstorm											
									Lightning killed 12 Jersey Dairy cows huddled underneath the protection of a tree during a thunderstorm. Cattle were worth \$4200.											Winds in excess of 60 miles per hour were reported. At Rosecrans Field winds were recorded at 47 miles per hour. The death occurred when a motorist was electrocuted.												
Columbia area Marion County	5	3:30 PM			1	2	0	0	Lightning	Chillicothe, Livingston County	4	2a			?	?	0	0	0	0	Severe Thunderstorm											
									Lightning killed a 14-year old youth and injured two others while riding atop a truck load of hay during a heavy thunderstorm. The thunderstorm produced 3.30-inches of rain in 1-1/2 hours and caused some flash flooding in downtown Columbia. No property damage was reported.											East Prairie, Mississippi County (1 NE)	9	2:30p			?	?	0	0	0	0	Tornado	
Cleveland Area Bolivar County	5	6:40 PM							Funnel Cloud Aloft	Hannibal, Ralls Co.	9	2p-3:20p			?	?	0	0	4	0	Severe Thunderstorm											
									Public reported funnel cloud 8 miles south of Cleveland.											Rainfall of 2.31 inches. Some tree damage and power lines. Cattle valued at \$120,000.												
Biloxi Harrison County	6	12:30 PM			0	2	4	0	Lightning	Springfield, Greene County	10	2p			?	?	0	0	0	0	Severe Thunderstorm											
									Lightning struck 28-ft. Cabin Cruiser on Biloxi Bay causing fire and minor injuries to two men. Boat burned to water-line and was valued at \$10,500.											52 mile per hour winds were reported with 1.3 inches of rain and 1/2 inch hail.												
Lucedale George County	12	Mid-afternoon			0	0	4	0	Lightning	Duncans Bridge and Madison, Monroe Co.	18	3p			?	?	0	0	5	0	Severe Thunderstorm											
									Lightning struck house and started fire. House was total loss.											Barn destroyed with 3,000 bales of hay and machinery, plus a machine shed and an additional outbuilding on Tisus farm. Heavy hail damage occurred near this farm. In the vicinity of Madison, tree shingles and other loose utilities littered the ground and stretched to Duncans Bridge.												
Greenville 7NE Washington County	17	1:00 PM							Funnel Cloud Aloft	Sedalia, Pettis Co.	18	5p			?	?	0	0	0	0	Severe Thunderstorm											
																				Power lines and trees downed												
Yazoo City Area Yazoo County	17	Early Afternoon			0	1	0	0	Lightning	Rayville, Ray Co.	18	5:30p			?	?	0	0	?	?	Tornado											
									Power Company employee was injured by lightning while stringing wire.											Resident heard storm. Storm destroyed barn and sheds. Took roof off the barn and the sides fell in.												
Pascagoula Area Jackson County	21	6:10 AM							Funnel Cloud Aloft	Independence, Jackson County	19	1a			0	0	?	?	0	0	Lightning											
																				Two homes were heavily damaged.												
Wiggins Stone County	21	Afternoon			0	30	0	0	Lightning	Columbia (155W), Boone County	19	6p									Unverified public report.											
									Lightning struck baseball field filled with people. About 30 people received minor injuries and burns.												Hamatite, Jefferson County	19	3:30p			?	?	0	0	0	0	Thunderstorm
Moss Point Jackson County	23	3:45 PM			0	0	4	0	Lightning												Tree downed by high winds blocked Highway 21A between Hamatite and Victoria.											
									Lightning started fire in house and caused \$12,500 damage.												Columbia, Boone Co.	20	4:30p			?	?	0	0	0	0	Severe Thunderstorm
																					Widespread damage to trees, signs and wires in town. Many power outages.											
Biloxi Area Harrison County	25	9:30 AM			0	0	0	0	Waterspout	Fulton, Callaway Co.	20	5:30p			1	50	0	0	?	?	Tornado											
																					Debris blocked highway south of Fulton. Storm moved northeast from intersection to Fulton											



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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
<b>MONTANA (continued)</b>										<b>NEBRASKA (continued)</b>										
									buildings. Hail one inch in diameter one mile south of Clyde Park with swath one mile wide and 10 miles long. Severe damage to crops.	Hall	7	Evening				0	0	4	6	Strong Winds and Hail
Northwestern Kalispell	7/29	6 PM MDT					3		Demaging Winds											Tree damage, utility lines, small buildings, corn and beans caused by strong winds and hail up to 3/4 inch.
<b>NEBRASKA</b>										Custer, Scottsbluff and Dawes	8	Evening				0	0	5	6	Strong Winds and Hail
Thurston	1	10.15 pm	short narrow	0	0	4	?		Tornado											1 1/2 inch hail, heavy crop damage, trees, roofs blown off, utility lines destroyed. 3072 acres of sugar beets damaged.
									Haystack strewn. Park benches etc. broken. 2 miles north of Emerson.	Dawson, Phelps, and Lancaster	17	6 to 8 P.M.				0	2	4	0	Strong Winds
Cedar	1	9:45 pm	short narrow	0	0	4	5		Tornado											Strong winds destroyed windows, trees, doors, roofs, and utility lines. Mobile home turned over at Holdrege.
									Silo roof torn to pieces. Forage box lifted several hundred feet across road. Path very clear through grove and corn field.	Wayne	17	Evening				0	0	0	5	Hail
Antelope	1	10 p.m.			0	0	0	4	Lightning											1 1/2 inch hail damaged crops.
									Lightning struck tree causing grass fire southwest of Elgin.	Otoe and Phelps	18	Afternoon and night				0	0	5	0	Strong Winds
Saunders	1	11:30 pm			0	0	4	0	Lightning											Strong winds damaged hanger and two airplanes near Syracuse.
									Lightning struck home in Mahon blowing out fuse box and starting fire in area above a bedroom. House demolished.	Greeley	18	6-7 am			1	0	4	0		Lightning and Strong Winds
Holt, Keith, Clay, Sherman, Perkins, Bulter, Howard, and Custer	1	Evening			0	0	5	6	Hail											Lightning struck a tree which fell on a college student of a motorcycle. Strong winds demolished 2 trailer trucks.
									Hail varying from up to 2 inches and in areas 6 to 8 inches deep did considerable damage to crops. Corn was stripped and shredded and wheat flattened and shattered.	Saline	18	Afternoon				0	0	3	0	Lightning
Dodge, Lancaster, Cumins, Colfax, Thurston, Sherman, Polk, Clay, Nance, Dakota, Douglas, Sarpy, Hall, York, Platte and Nemaha	1	9 PM to 1 AM			0	0	6	6	Strong Winds											Lightning killed two cows, six calves standing under a tree.
									Wind estimated from 60 to 100 mph in local thunderstorms. Blew over trailer houses, toppled trees, downed utility lines, destroyed one light airplane, blew roofs off of barns and houses. Crops flattened.	Wheeler	18	6 am				0	0	0	3	Lightning
Adams	2	4:15 pm			0	0	4	0	Lightning	Boone, and Antelope	24	Late Afternoon	10	200	0	0	4	5	Tornado	
									Electrical feeder line pole struck knocking out power in north central and northeast Hastings.											Hay stacks destroyed, buildings exploded, irrigation pipes tossed and scattered, water tank destroyed and 5 1/2 mile path of corn destroyed. Tornado lifted occasionally.
Gage	2	6:55 pm			0	0	6	0	Lightning	Box Butte	24	9:20 pm				0	9	4	0	Lightning
									Lightning struck elevator building knocked a 7 by 20 foot hole in cement structure blowing out all windows and doors and bending elevator shaft.											Lightning bolt struck a farm tenet house totally destroying house and injuring occupants with flying wood and plaster.
Gage	2	6:15 pm			0	0	5	7	Strong Winds	Red Willow	24	1 and 3 p.m.				0	0	3	5	Hail
									Trees uprooted, limbs blown down, utility lines downed. Crops damaged.											Hail up to 1 1/2 inch stripped and shreaded leaves on corn stalks and damaged some roofs.
Hall	3	Night	Short Narrow	0	0	6	7		Tornado	Buffalo	24	Night				0	0	0	4	Hail
									Grain dryer destroyed along with 2 18,000 bushel bins and crops.											1/2 inch hail stripped corn in northwest portion of county.
Saunders	3	10:30 pm	Short Narrow	0	0	5	6		Tornado	Dakota	25	7 p.m.				0	0	2	5	Hail
									Small tornado skipping from northwest to southeast ripped trees and power lines, leveled a barn, grainery, corn cribs and hog sheds. Flattened wheat and corn.											Hail up to 2 inches in a 3 by 5 mile strip northwest of Wakefield damaged corn, beans, oats and popcorn. Few windows broken.
Clay	3	Evening			0	0	0	6	Hail	Holt	28	5 - 7 pm				0	0	4	3	Strong Winds and Hail
									1 1/2 hail stripped corn and shattered wheat heads over considerable area.											Strong winds and 1/2 inch hail damaged crops and tore section of roof off a discount store, tore airplane loose from its moorings as well as other minor damage throughout the county.
Pawnee	3	Morning			0	0	5	6	Strong Winds and Hail	Dodge	29	4 p.m.				0	0	0	5	Hail
									Tree limbs blown down, utility lines broken, some hail up to 1/2 inch damaged crops.											Small hail in a path 3 miles long and 2 miles wide damaged corn and beans.
Custer	3	6 to 7 pm			0	0	5	6	Strong Winds and Hail	Harlan	29	Afternoon				0	0	3	0	Strong Winds
									80 mph winds and hail up to 1 1/2". Winds snapped tree limbs, 2 cars blown off highway, trailer house and several farm buildings damaged. Distribution and transmission poles broken. Corn beaten down.											Strong winds blew off portion of a roof of a metal building under construction in Oxford.
Hamilton, Hall, Jefferson, Otoe, Corning and Saline	3	8-11 pm			0	0	6	6	Strong Winds	<b>NEVADA</b> NO STORM DATA REPORT RECEIVED FOR THIS STATE										
									Wind termed by area people as worst storm ever seen, damaged roofs. Tremendous tree and limb damage, sheds destroyed, irrigation tubes strewn about. Six trailer homes damaged, utility lines downed, windows broken and crops destroyed.	<b>NEW HAMPSHIRE</b> Statewide										
Garfield	5	Evening			0	0	3	0	Lightning							4	6	6		Heavy rain
									Lightning struck home thru chimney setting the house on fire in Burwell.											Severe flooding, including major rivers, continued from June. State declared Federal disaster area, damage 3 - 6 million dollars. Various estimates to 15 million probably include economic loss.

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					KILLED	INJURED	PROPERTY	CROPS	
<b>NEW JERSEY</b>									
Monmouth County	11	Afternoon			0	0	3	2	Severe Thunderstorm, heavy rain
									Gusts to 100 mph reported at Belmar Marine Basin associated with severe thunderstorm. Trees down in several areas breaking power lines. Urban flooding from heavy rain.
<b>NEW MEXICO</b>									
Bunice, Lea County	13	3:00p			0	0	4		Lightning
									Lightning ignited 4 500 gallon oil tanks. Other minor damage from same storm.
Las Cruces, Dona Ana County	14	Evening			0	0	4		Heavy rain
									Approximately 2 inches of rain with resultant arroyo runoff caused extensive pooling, road and utility washouts and water in houses.
18 miles northeast of Deming, Luna County	15	10:15a			0	0	0	0	Funnel aloft
									No damage.
25 miles south of Grants, Valencia County	15	10:55a			0	0	0	0	Funnel aloft
									No damage reported.
10 miles south of Anton Chico, Guadalupe County	15	7:00p			0	0	0	0	2 Funnel clouds
									Reported by pilot to touch the ground. Empty rangeland.
5 miles southeast of Lybrook, Rio Arriba County	17	2:55p			0	0	0	0	Funnel aloft
									Reported moving east-southeast by public.
20 miles north of Las Vegas, Mora County	21	2:00p			0	0	0	0	Tornado
									Reported by public to briefly touch the ground then dissipate.
Near Hagerman, Chaves County	21	Evening			0	0	0	4	Lightning
									Lightning ignited 250 ton stack of baled oat hay.
42 miles northwest of Roswell, Chaves County	23	afternoon			0	0			Large hail
									.40 inch rain with golf ball size hail.
22 miles northwest of Clayton, Union County	24	4:30p			0	0			Heavy rain & hail
									Marble size hail accumulated to 2 inch depth with some hail to golf ball size.
Elephant Butte Marina near Truth or Con. Sierra County	25	Evening			0	0	4	0	Windstorm
									Thunderstorm associated winds severely damaged marina facilities, sunk boats and ruptured fuel lines. Winds estimated at 80 mph. 43 mph measured at Truth or Consequences Airport.
15 miles west of Grants, Valencia County	27	11:21a			0	0	0	0	Funnel aloft
									Funnel cloud observed for 5 minutes. Did not touch ground.
50 miles south of Ruidoso in Otero County	28	12:56p			0	0	0	0	Funnel aloft
									Reported by pilot. Did not touch ground.
<b>NEW YORK COASTAL</b>									
New York City, Nassau and Suffolk Counties	5	0530-0830 EDT			0	0	5	?	Wind, heavy rain
									Thunderstorm with gusts over 60 mph. Oil barge at Northport, Long Island torn from mooring resulting in major oil spill. Excessive urban flooding. LaGuardia Airport had 1.02 inches of rainfall in 5 minutes, their record for that period.
Suffolk County	15	0900-1100 EDT			0	0	3	?	Heavy rain, lightning
									Small cluster of heavy thunderstorms moved eastward through Suffolk County, N.Y. Lightning damaged several buildings.
<b>NEW YORK CENTRAL</b>									
ONONDAGA COUNTY	26	--	--	--	0	0	4	0	LIGHTNING
									IN CLAY A BARN CONTAINING FORTY TONS OF HAY BURNED WITH DAMAGE ESTIMATED BETWEEN 16,000 AND 20,000.
CLINTON COUNTY	28	PM	--	--	0	7	4	0	THUNDERSTORM
									IN MORRISONVILLE THE CLINTON COUNTY FAIRGROUND WAS DAMAGED BY STRONG WIND AND RAIN. SEVEN PEOPLE SUFFERED MINOR INJURIES WHEN STRUCK BY WIND BLOWN DEBRIS. DAMAGE TO ONE EXHIBITOR ESTIMATED AT \$35,000.
<b>NEW YORK WESTERN</b>									
Chautauqua County, Falconer	4	6:15 p.			1				Lightning
									Man holding a metal charcoal grill at a picnic was killed when struck by bolt of lightning.
<b>NEW YORK (continued)</b>									
<b>WESTERN</b>									
Chautauqua County, Ellery Center	4	7:15 p.							Wind and rain
									Brief gust of wind and heavy rain felled a tree onto electrical transmission lines, causing power failure to 200 to 300 homes.
Erie County, Cheektowaga	18	3:00 p.					2		Wind
									Under clear skies, a brief dust devil damaged awnings and lawn furniture. A 7 yr old boy was lifted from a swimming pool, but an older boy held on to his legs.
Erie County, Buffalo	28	afternoon					1		Lightning
									Man struck by lightning bolt on a golf course when bolt glanced off a tree under which he had sought shelter.
<b>NORTH CAROLINA</b>									
Davidson County	1	5:00 p						4	Hail
									At Thomasville \$11,450.00 Tobacco crop destroyed.
Sampson County	1	7:00 p						4	Hail
									Dismal Township \$26,000.00 crops damaged, mostly tobacco (\$20,000).
Franklin County	1	8:00 p						4	Hail
									Dunn Township \$44,000 crops damaged; mostly tobacco (\$40,000.).
Edgecombe County	1	5:00 p						4	Hail
									At Macclesfield \$50,000 Tobacco crop destroyed.
Davie County	1	5:00 p						5	Hail
									Farmington Township \$75,000.00 corn crop damaged.
Rowan County	1	p.m.					4	5	Hail
									Franklin Township \$91,000.00 damage to crops mostly to cantaloupes and tomatoes (\$75,000.00), and \$10,000.00 damage to other property.
Near Mount Airy	4	1:30 p						4	Lightning
									Herd of cows (40) killed. Value \$40,000.
Lexington	17	p.m.			1		3		Flash Flood
									18 months old child caught in flow and pulled into a culvert where she drowned.
High Point	17	p.m.					4		Flash Flood
									Flooding reported to 8 ft. depth. Many houses flooded.
Winston-Salem	17	p.m.					4		Flash Flood
									Many houses and cars damaged by floods.
Near La Grange, Lenoir County	27	6:00.p.						4	Wind storm
									About \$10,000 worth corn destroyed by winds of a severe thunderstorm.
Warren County	28	p.m.					4		Lightning
									In the Ridgeway Warrenton area several buildings hit by lightning of which several burned. About \$10,000 damage.
Pender County	28	a.m. & p.m.					4		Lightning
									Near Burgaw lightning set fire to several buildings causing about \$15,000 damage.
<b>NORTH DAKOTA NO STORM DATA REPORT RECEIVED FOR THIS STATE</b>									
<b>OHIO</b>									
Western Ohio	2	6:30p 9:30p			0	5	4		Severe Thunder storm and damaging winds
									Several lines of severe thunderstorms roamed across Western Ohio with damaging winds and locally heavy rains. The following counties were affected: Lucas, Mercer, Ottawa, Shelby and Miami. Near Maumee a brick wall to a building was knocked down. A small auto was blown off the road injuring 4 boys. Some urban flooding was reported. In Celina, Mercer Co. winds caused \$10,000 damage. A 50'x75' stone roof was blown off. In Sidney, Shelby Co. the Landmark Storage Bin and a sheet metal building were destroyed. In Picqua a house, automobile and several trees were damaged.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1973

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	
OHIO (continued)									
North Western Ohio	3	3:50p 5:30p			0	0	4		Severe Thunder storms and funnel clouds
		A line of severe thunderstorms crossed Western Ohio producing very strong winds and causing considerable damage to trees and power lines in the following counties: Lucas, Ottawa, Putnam, Allen, Crawford and Richland. Funnel clouds were reported in Putnam county at 3:30 p and in Crawford and Richland counties between 5 and 5:30p. A wind gust of 75 mph was measured at Shelby, Richland Co. at 5:30 p and 60 mph at Mansfield, Richland Co.							
Bucyrus, Crawford County	3	4:00p	3/10	nar - row	0	0	3		Tornado
		A tornado touched down briefly 6 miles northeast of Bucyrus. Several trees were blown over.							
Marietta, Washington County	3	6:30p 7:00p			0	0	2		Strong Winds
		A severe thunderstorm knocked down trees and power lines.							
Hamilton, Butler County and Clermont County	3	7:00p 7:30p	2/10	100	0	0	3		Tornado
		A severe thunderstorm struck Clermont County between 7 and 7:20p. The storm then spawned a tornado 3 miles east southeast of Hamilton. Touchdown was brief with damage to several trees and one house. One barn was destroyed.							
Portsmouth, Scioto County	4	3:00p			1	0			Severe Thunderstorm
		One woman was killed at a roadside park when a limb was blown off a tree. Other trees were blown down in the Portsmouth area.							
Morgan County	4	4:30p			0	0	4		Windstorm
		A violent windstorm struck Morgan County causing \$20,000 damage to several farm buildings. Trees, powerlines and poles were toppled.							
Montgomery, Lorain Medina and Franklin Counties	4	Afternoon							Funnels
		Several funnel clouds were reported with very strong thunderstorms during the afternoon.							
Green Springs, Seneca County	5	Early morning			0	0	3	3	Severe Thunder storm
		A severe thunderstorm caused extensive damage to a barn overturned a mobile home, damaging trees and power lines. Hail damaged crops of corn and soybeans.							
West Branch Reservoir, Defiance County	10	Late morning			1	0			Heavy rain & wind storm
		A man drowned when his small boat was swamped by heavy rain and strong winds.							
Central Ohio	10	11:00a 3:00p			0	0	4		Heavy rain, wind & hail storms
		Numerous heavy thunderstorms swept across Central Ohio causing extensive damage to trees, and property and local flooding. Worst damage occurred in Marion, Wayne, Coshocton and Tuscarawas Counties. In Wayne County, near Moreland a barn roof was torn off, a mobile home was moved off its foundation and crops flattened by the strong winds.							
Dennison, Tuscarawas County	10	3:00p	5/10	10	0	0	2	2	Tornado
		A tornado hit the Lint farm near Dennison ripping off tree limbs, throwing lawn furniture, damaging the roof of their house and destroying crops.							
Southern Ohio	10	Early afternoon			0	0	5		Heavy Rain High Winds
OHIO (continued)									
Belpre, Washington County	10	3:30p	3/10	10	0	0	5		Tornado
		Up to 4 funnels were sighted with this storm. A drive-in theatre was damaged. The roof ripped off the post office and several trailers and modular homes damaged. Heavy rains up to 3.4 inches in a 50 minute period were recorded.							
Southwest Ohio	14	4:00p 4:30p			0	0	4		Severe thunderstorms, Heavy rain and wind
		Several severe thunderstorms battered Preble, Montgomery and Butler Counties. Strong winds blew several plate glass windows out in downtown Middletown. A wall collapsed at a construction site from wind and water. In Dayton heavy rains flooded streets and lightning damaged a house.							
Camden, Preble County	14	4:00p	3/10	10	0	0	3		Tornado
		A small tornado toppled large trees just outside Camden. Several roofs were blown off mobile homes in the Shawnee Plains Mobile Home Court.							
Middletown, Butler County	14	4:00p 4:30p	5/10	8	0	0	3		Tornado
		A tornado, spotted by several residents, damaged Wilson's market and a tree in Middletown. Several trees in the Fairview Cemetary and power lines were felled.							
Southwest Ohio	19-21				2	0	7		Severe Thunderstorms, flooding, Lighting
		Heavy thunderstorms caused flooding in Cincinnati and Hamilton County on the 19th and the 21st. Between 3-5 million dollars damage to business establishments resulted from the flooding. Montgomery, Fayette and Warren Counties had heavy rains and flooding on the 20th and 21st. 4 to 6 inches of rain fell in areas during this period. In Montgomery Co., on the 20th violent winds damaged a barn ripping off the roof and felled trees and vegetable gardens near Germantown. Homes, basements, roads and backyards were flooded and bridges were washed out. In Adams county near tornado velocity winds accompanied the heavy rain downing trees which destroyed a garage and several cars. At the Manchester Boat Marina there was considerable damage on the 20th, with one boat and trailer overturned and splintered. A boy was killed by lightning near Xenia Green County while herding cattle. A farmer was killed by lightning while in his field, also on the 20th.							
Eaton, Preble County	20	7:00p	3/10	10	0	0	4		Tornado
		A tornado demolished a garage and damaged a car southeast of Eaton. The roof of the 24x30 concrete-block building was blown about 150 feet into a cornfield. A funnel cloud was sighted near Camden with only damage to trees and power lines.							
Hamilton County	24	Afternoon & evening			1	0	4		Flooding
		Heavy thunderstorms with localized rains of 5 - 7.25 inches caused flash floods through the county. In the Cincinnati suburb of Mr. Airy Forest a man was drowned and 3 persons injured when their car was swept into West Fork Creek. Urban flooding stranded motorists and flooded homes and basements.							
Morrow and Richland Counties	24	5:00p 5:30p			0	0	4		Severe thunderstorm, flooding
		Severe thunderstorms with heavy rains caused flash flooding near Shelby. Three to four inches of rain fell with flooding of roads and farmlands. Lightning caused power outages and 23 Hereford cattle were killed by a bolt of lightning that struck a tree near Chesterville in Morrow County.							
Ripley, Brown County	26	after noon	1/50	7	0	0	2		Tornado

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1973

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	
OHIO (continued)									
Westerville, Franklin Co.	26	after noon	1/50	7	0	0	2		Tornado
Strong winds from a thunderstorm toppled trees and tossed debris with such velocity that a 2x4 inch piece of lumber was embedded 6 inches in a tree. Several trailers were damaged by debris and strong winds.									
Homeworth, Columbiana County	26	4:00p	1	narrow	0	1	4		Tornado
A tornado about 20 feet wide traveled about 100 feet through Huber Village destroying a new metal shed and leaving a path through the trees. The tornado also touched down again in the Hoover Reservoir area near Cubbage Road but did little damage.									
Broken Arrow area, Tulsa County	6	Early a.m.			0	0	0	0	Flash flooding
Moderate to heavy rain produced by strong thunderstorms moving southward at 25 m.p.h. made some streets and roads in around Broken Arrow impassable due to high water. No damage was reported.									
Near Idabel, McCurain County	6	5:20 p.	1/2	50	0	0	4	3	Tornado
A tornado was reported to have touched down at a dairy farm about 7 miles west of Idabel, moving toward the southeast. Damages to buildings were reported to be \$25,000 and to crops in excess of \$1500. The tornado was reported to have caused a loud noise like a train.									
Enid area, Garfield County	8	7:40 p.	6	*2	0	0	4	0	Wind
Strong wind estimated at 55 m.p.h. blew a few trees, several board fences, two sixty-foot light poles and several weak shed buildings down in the Enid area. The storm moved from the east-northeast at about 5 m.p.h.									
2 NE Thackerville, Love County	10	1:20 p.	**40	10	0	0	3	0	Wind
Strong straight wind, possibly associated with a funnel cloud aloft, ripped a garage away from a house scattering the garage and its contents into a field some 100 feet away. An electric line was blown down and tangled around a propane tank in the yard of the home. The garage and contents were scattered in a north-easterly direction.									
Northeast Oklahoma	10	About 6:30 p.			0	0	4	0	Wind, lightning, rain
Strong straight wind caused scattered damage to trees and utility lines as an area of strong thunderstorms developed and moved southwestward about 29 m.p.h. Local rains of 2-3 inches were reported. Lightning struck and killed 6 cows near Stilwell in Adair County and a home received slight damage when struck by lightning in Pawhuska in Osage County.									
Oklahoma City area, Oklahoma County	10	About 6:45 p.			0	0	4	0	Wind, rain, hail
Heavy thunderstorms with wind gusts up to 45 m.p.h., small hail and locally heavy rain moved south-southwestward through the area at about 29 m.p.h. A large number of tree limbs were blown down tearing down some power lines. Several small buildings were also blown over. No hail damage was reported.									
3 NE Rush Springs, Grady County	13	3:14 p.							Funnel aloft
Movement was to the northeast at 25 m.p.h.									
Tulsa, Tulsa County	14	p.m.			0	0	1	0	Flash flooding
Moderate to locally strong thunderstorms continued moving south-eastward through Tulsa during the afternoon and evening producing rain which caused flash flooding in the southeastern part of the City. Streets were made nearly impassable at times.									
Just West Thackerville, Love County	14	About 1:40 p.							Funnel aloft
Movement was to the northeast at 15 m.p.h.									
Oklahoma City, Oklahoma County	14	5:00 p.			0	0	2	0	Wind, rain, flash flooding
A line of strong thunderstorms moving southeastward at about 15 m.p.h. struck Oklahoma City at 5:00 p.m. with wind gusts to 50 m.p.h. Six boats were capsized at Lake Hefner but there were no injuries and damage to boats was slight. Two and one-half inches of rain was measured at Lake Hefner in 1 1/2 hours and over 3 inches fell at Wiley Post Airport. These rains caused flash-flooding in some areas of the City and Deep Fork Creek in north Oklahoma City was out of its banks for a time.									

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					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (continued)									
Mulhall, Logan County	20	7:15 p.			0	0	0	0	Wind, hail
Thunderstorms with 1-inch hail and wind gusts to 50 m.p.h. struck Mulhall but there was no reported damage. The storm moved south-eastward at 15-20 m.p.h.									
Guthrie, Logan County	20	About 7:30 p.	4 1/2	880	0	0	3	0	Wind, hail
Wind gusts up to 75 m.p.h. and hailstones up to 1 inch in diameter struck Guthrie as a line of thunderstorms moved southeastward across the area at 15-20 m.p.h. No damage was reported due to the scattered hailstones that fell.									
5 1/2 South Bartlesville, Washington County	20	About 8:00 p.			0	0	4	0	Lightning
Lightning struck a residence 5 1/2 miles south of Bartlesville on U.S. 75. The house was completely destroyed by fire and the family lost all possessions.									
Oklahoma City, Oklahoma County	20	About 8:00 p.			0	0	?	0	Wind, hail, lightning, flash flooding
Thunderstorms, moving southeast at 15-20 m.p.h., struck Oklahoma City with wind gusts to 65 m.p.h., lightning, marble size hail, and moderate to occasionally heavy rain. The wind gusts felled several trees in the City tearing down some power lines. Lightning strikes were reported striking 25 buildings but damage was slight. No hail damage was reported. Several streets were flooded for a time because of the rain.									
Barnsdall, Osage County	20	About 8:30 p.			0	0	3	0	Wind
Strong wind with gusts estimated at 85 m.p.h. damaged trees, roofs and windows in homes, and business houses, and automobile windows in Barnsdall. The storm moved to the southeast at about 12 m.p.h.									
Pawhuska, Osage County	20	About 8:45 p.			0	0	4	0	Wind, hail
Thunderstorms moving southeast at 15-20 m.p.h. struck Pawhuska with wind gusts to 80 m.p.h. and hailstones up to 1 1/2 inches in diameter. Most of the wind damage occurred at the airport. Hail damage was slight.									
Norman, Cleveland County	20	About 9:45 p.			0	0	3	0	Lightning
Lightning struck a building in downtown Norman setting a fire which burned a 10-foot-square section of the building's roof.									
Waynoks, Woods County	22	About 12:30 a.			0	0	7	0	Wind
Wind gusts of 50-75 m.p.h. struck Waynoks as a line of heavy thunderstorms moved southeastward at 30 m.p.h. Damage to trees and a few homes resulted from the storm, but was not extensive.									
About 5 North Ponca City, Key County	22	About 2:45 p.			0	0	4	0	Wind
Strong wind destroyed a mobile home north of Ponca City as heavy thunderstorms moved east-northeast about 20 m.p.h. A car at the mobile home was also damaged.									
Bartlesville area, Washington County	22	6:30 p.-7:00 p.			0	0	3	0	Lightning
At 6:32 p.m. a residence in Bartlesville was struck by lightning and suffered some fire damage. Shortly afterwards, lightning hit a building 1 1/4 miles east-northeast of Bartlesville with some resulting fire damage.									
25 SE Guyton, Texas County	22	8:20 p.			0	0	0	0	Wind, funnel aloft
A ranch family reported seeing a funnel aloft approaching their home from the west. The funnel never touched the ground but wind estimated at 100 m.p.h. were reported on the ground. One man was blown into a ditch but not injured. No damage was reported.									
Cimarron County	24	About 7:30 p.			0	0	4	0	Heavy rain, flash flooding
Rain in excess of 3 inches caused high water which stranded 10 people in a ranch home 17 miles north of Boise City for several hours. High water in the Cimarron River located to the north of the home and in a creek running south of the home caused the people to be stranded. A car and a pickup truck was swept away by the high water. The heavy rain caused considerable damage to a school building in Boise City where its roof was in the process of being repaired.									
Mannville area, Johnston County	25	About 4:45 p.			0	0	?	0	Wind
Thunderstorms with high wind moved southeastward about 20 m.p.h. across the area. Some trees were uprooted, TV antennas were bent over, and several homes and other buildings damaged.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

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					KILLED	INJURED	PROPERTY	CROPS		
<b>OKLAHOMA (continued)</b>										
About 5 South Davis, Murray County	30	9:45 a.			0	0	0	0	Flash flooding	
									A church bus occupied by the driver and 34 children ranging in age from 13-17 years was washed off the road by high water near the Falls Creek Church Camp south of Davis in the Arbuckle Mountains. Four children jumped from the bus and were washed down-stream but were later rescued from trees from which they were clinging. The children remaining in the bus were pulled one by one to safety by two men on the bank after a rope was tied around their waist. There were no injuries as a result of the accident.	
<b>OREGON</b>										
Entire State		All Month							The entire state of Oregon continued under the drought conditions that it has experienced since the first of the year. The bulk of eastern Oregon is in severe drought condition and western Oregon moderate drought condition.	
									The drought has resulted in severe damage to the pea crop in Moro and Matilla counties and low yield conditions for hay, wheat, and barley in all of eastern Oregon, and poor range in many areas for cattle.	
Klamath and Lake Counties									1 25% Frost Damage Frost caused locally heavy damage to small grains and potatoes. Some estimates were that the loss was greater than 25 percent.	
Harney County									19 A rash of small lightning caused fires over southern Oregon were controlled without major loss but one range fire in Harney County grew to 11,000 acres before being controlled.	
<b>PACIFIC</b>										
<b>PENNSYLVANIA EASTERN</b>										
Lancaster County									NO STORM DATA REPORT RECEIVED FOR THIS STATE	
Ephrata-Adamstown	3	3-5 P								
	4	2 A					50		Heavy rain	
									Heavy rains accompanying thunderstorms washed out bridges and roadways, flooded buildings and washed out crops. Up to 4.00 inches of rain.	
Berks County	3	Early AM					4		Heavy rain	
									Heavy rains accompanying thunderstorms washed out roadways and flooded buildings.	
Lycoming County	28	4-10 P								
Luzerne County	29	0-1 A					3		Wind, hail, electrical	
									Lightning damaged a church in Scranton. Strong winds accompanying thunderstorms knocked down walls of a nursing home in the Williamsport area. Strong winds and inch-and-a-half hail struck 30 miles north of Williamsport.	
<b>PENNSYLVANIA WESTERN</b>										
Greenville	5	4:55 - 5:30 p			0	0	3	0	Heavy rain, high wind	
									Power and telephone lines downed by falling trees and branches. Minor property damages.	
Corry	5	9:00 p			0	0	3	0	Lightning, high wind, heavy rain	
									Power lines down, causing big fish kill at local fish hatchery, plus minor property damage.	
Fayette and Greene Counties	10	3:30 - 5:00 p			0	0	5	3	Lightning, high wind, heavy rain, hail	
									Several mobile homes damaged, one destroyed. Some basement flooding. Metal sides of mobile homes pock-marked by marble-sized hail. Trees downed by heavy winds and lightning. Power outage for 5 hours.	
Butler	27	9:00 p			0	0	6	0	Heavy rain	
									Extremely heavy rainfall in an area under construction with inadequate drainage resulted in a rapid rise in Sullivan's Creek, causing many flooded basements and road damage.	
Smethport	28	4:22 - 4:45 p			0	15	6	4	Electrical, wind, hail	
<b>PENNSYLVANIA (continued)</b>										
<b>WESTERN</b>										
									Major property damage. All power and telephone service completely out for 5 hours, partial outages for 24 hours. Many large trees uprooted. Homes and trailers damaged.	
Potter County	28	5:00 p	?	?	0	0	4	4	Tornado	
									Funnel cloud sighted at Oneyo, moved east and slightly north to North Bingham. Uprooted trees. Damaged or destroyed several farm buildings. Roaring sound reported. Power and telephone lines down.	
<b>PUERTO RICO</b>										
<b>RHODE ISLAND</b>										
<b>SOUTH CAROLINA</b>										
Florence, Dillon and Marlboro Counties	2	Afternoon						3	4	Hail, lightning, wind
									Thunderstorms accompanied by hail and strong winds caused considerable crop damage especially to tobacco, cotton and corn.	
Barnwell, S. C.	6-7	Late Evening						4	2	Flash flooding, lightning
									Heavy rains during thunderstorm caused extensive flash flooding within Barnwell.	
Westminster, S. C.	8	Afternoon						4		Lightning
									Lightning killed 27 cows during thunderstorm.	
Columbia, S. C.	9	5 p. m.						4		Wind, lightning
									Severe thunderstorm blew down church under construction and caused other minor damage.	
Lakeview, S. C.	15	Afternoon					1		Lightning	
									Carroll Rogers killed when lightning struck tree.	
Beaufort County	31	11 a. m.							Waterspout	
									Waterspout observed 10 ENE of Beaufort.	
<b>SOUTH DAKOTA</b>										
<b>NO STORM DATA REPORT RECEIVED FOR THIS STATE</b>										
<b>TENNESSEE</b>										
Portland, Sumner County	1	1:30 p.			0	0	5	C	Hail, wind, rain, lightning.	
									Hail damage in Sumner County prompted farmers to file claims for damage to tobacco, tomato, soybeans and corn crops. Six beef cattle killed by lightning. In Portland roofs in business district damaged and plate glass windows blown out by the wind. One utility building with several hundred dollars in contents destroyed by fire after being struck by lightning.	
Madison County	1	3:00 p. to 4:00 p.			0	0	4	C	Lightning	
									A three bedroom home was destroyed by fire after being struck by lightning. A hay field near Leighton burned after being struck by lightning. A wheat field in north Madison County struck by lightning and burned.	
Clarksville, Montgomery County	4	5:45 p.			0	0	4	0	Lightning	
									Two houses damaged and one barn destroyed by fire after being struck by lightning.	
Savannah, Hardin County	4	6:10 p.			1	1	0	0	Lightning	
									At Pickwick Landing camp sight near Savannah, a sixteen year old boy was killed and his father was injured by lightning.	
Washington County	15	5:00 p.			0	0	4	0	Wind, lightning	
									Several trees uprooted and utility poles broken causing power outage in several communities for several hours. One barn in Watauga and another barn near Meadowview destroyed by fire after being struck by lightning.	
Memphis, Shelby County	20	6:45 a. to 9:40 a.			0	0	4	0	Rain	
									The National Weather Service Office at Memphis International Airport measured 1.92 inches of rain most of which fell within one hour between 8:00 and 9:00 a. Streets and several homes were flooded in Fox Meadows and Parkway Village areas. High water damaged one electronic computer.	
Memphis, Shelby County	23	2:45 p.			0	0	4	0	Wind, rain	
Chattanooga, Hamilton County									Wind turned over one mobile home, blew down signs, and blew out store windows which allowed rain to damage merchandise. There was local flooding in east Chattanooga and a few residences and automobiles damaged by falling trees.	

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1973

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>TEXAS EASTERN</b> Orange, Orange County	2	8:05 am							Funnel Aloft
									The funnel was sighted on the southeast side of the City moving northward. It lasted about 5 minutes before dissipating.
Sarita, Kenedy Co.	2	2:17 pm							Funnel Aloft
									A funnel aloft moved north northwestward across Sarita. There was no evidence of its having touched ground.
Port Isabel, Cameron County	3	12:05 pm							Waterspout
									The waterspout was observed 5 miles east of Port Isabel in the Gulf of Mexico.
Corpus Christi, Nueces County	4	8:30 am							Waterspouts
									One waterspout formed in Corpus Christi Bay northeast of Corpus Christi and another formed in the Gulf of Mexico off Mustang Island 17 miles east southeast of Corpus Christi.
Victoria, Victoria County	4	11:15 am							Funnel Aloft
									The funnel formed 12 miles south of Victoria and remained stationary for 6 minutes without touching ground.
Port Arthur, Jefferson County	5	12:30 pm			1	0	4	0	Electrical
									An intense electrical storm occurred over the Port Arthur area causing damage to utility equipment. One man was killed on the Port Arthur Pleasure Island Golf Course when struck by lightning at 12:40 pm.
Kountze, Hardin Co.	5	9:00 pm	?	?	0	0	0	0	Hail
									Hail 3/4 inch diameter fell over a wooded area near Kountze without causing significant damage.
Freeport, Brazoria County	6	7:30 am							Waterspout
									Coast Guard personnel observed the waterspout 5 miles east of the Freeport jetties.
Addicks, Harris Co.	6	3:15 pm							Funnel Aloft
									The funnel was first observed over Addicks. It moved northeast across the northwestern part of Houston. Although it remained visible for a long time over considerable distance, it never touched ground.
Galveston, Galveston County	6	3:15 pm							Waterspout
									A waterspout formed off Galveston in the Gulf of Mexico. It moved northeastward without approaching land.
Sealy, Austin County	6	4:45 pm							Funnel Aloft
									The funnel moved eastward over the Frydek community 5 miles south-east of Sealy without touching ground. Duration was 25 minutes and its appearance was reported unusually white in color.
Star Lake, Jefferson County	7	8:50 am	**100	15	0	0	0	0	Tornado
									A pilot observed the funnel touch down briefly in the Spindletop Marsh near Star Lake. Path of the tornado was on the north side of the Intracoastal Canal about 21 miles southwest of Jefferson County Airport. The funnel lifted and moved northeastward aloft. No damage occurred as the area is uninhabited marsh.
Bolivar Peninsula, Galveston County	7	Morning			0	1	0	0	Electrical
									Lightning struck near a group of persons on Crystal Beach on the Gulf of Mexico. One boy was injured when knocked to the ground by the nearby strike.
Morgans Point, Harris County	7	2:30 pm							Funnel Aloft
									Police reported the funnel near Morgans Point on Galveston Bay. It moved northward without touching ground.
San Antonio, Bexar Co.	8	5:00 pm			0	0	4	0	Electrical
									Considerable lightning activity occurred over the city for 4 hours causing extensive power outages, considerable damage to utilities equipment, and home appliances. About 150 lightning strikes were recorded by the municipal power company.
Schulenburg, Fayette County	7	8:30 pm	Short Narrow		0	0	0	0	Tornado
									A funnel was reported to have touched ground momentarily in open country about 6 miles southwest of Schulenburg near the Fayette-Lavaca county line. No damage occurred.
Harlingen, Cameron Co.	8	12:25 pm							Funnels Aloft
									Harlingen Police reported several funnels over Harlingen. Movement was northward and no touch down occurred.
Del Rio, Val Verde County	8	12:40 pm	?	?	0	0	?	0	Wind
									A wind gust to 59 mph occurred at Laughlin Air Force Base 10 miles east of Del Rio during a thunderstorm. Small hail accompanied the storm. In Del Rio winds were less and no damage occurred. Damage at Laughlin was not reported.

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					KILLED	INJURED	PROPERTY	CROPS	
<b>TEXAS (continued) EASTERN</b> Lake Sabine, Orange County	22	10:48 pm							Waterspout
									A waterspout was observed at the northern end of Lake Sabine. It dissipated without causing any interference to boating.
Texas City, Galveston County	24	9:56 am							Funnels Aloft
									One funnel was sighted over Texas City moving slowly northward. Another funnel was sighted near Alvin. Neither touched ground.
Silsbee, Hardin Co.	25	2:25 pm	1	15	0	0	0	0	Tornado
									The tornado moved through a wooded area 5 miles north of Silsbee. Trees were twisted and uprooted with some blocking the old Spurgen Highway, but no property damage occurred.
Bunn Bluff, Orange County	25	2:35 pm			1	0	0	0	Electrical
									A boy was killed when struck by lightning while water skiing on the Neches River 6 miles northwest of Vidor.
Sugarland, Fort Bend County	27	3:30 pm							Funnel Aloft
									The funnel was observed 10 miles west of Sugarland moving southward.
LaMarque, Galveston County	31	Noon							Funnels Aloft
									Several funnels moving eastward were reported over the area.
<b>TEXAS CENTRAL</b> Dallas-Fort Worth Dallas & Tarrant Cos.	7	5:00p - 9:00p			0	0	5		Wind, Rain
									Locally damaging winds and heavy rains caused scattered damage throughout the Dallas-Fort Worth area. High winds downed a 135 ft. radio tower in Hurst, while power lines either snapped or were blown down at several scattered locations. Power failures of short duration occurred at several points. Heavy rains resulted in street flooding over much of the area.
Near Stanford Haskell Co.	12	6:00p	short narrow		0	0	0		Tornado
									Tornado, observed briefly by the Department of Public Safety, returned to the clouds before causing any damage.
Tarrant Co.	15	11:10a - 1:05p							Funnel Clouds (2)
									Funnel clouds were sighted over Meacham Field at 11:10AM and near Everman at 1:05PM.
Lake Kickapoo Archer Co.	29	early morning							Heavy rain
									Heavy rains of up to 8 inches fell at Lake Kickapoo. No significant damage was reported.
<b>TEXAS WESTERN</b> 5 miles NE of Lockney, Floyd County	12	1:00 p. - 1:10 p.			0	0	0	0	Funnel Cloud
									A long funnel cloud dipped down from the clouds and remained almost stationary until it dissipated.
El Paso and Hudspeth Counties	14-17				0	0	5	6	Heavy Rain
									Heavy rains began on the 14th and continued intermittently through the 17th. Heaviest rains were at Tamiile (30 miles SE of El Paso) where 6.27 inches fell. A major portion of the damage was to cotton crops in El Paso County.
12 miles W of Lamesa, Dawson County	17	7:30 p. - 7:35 p.			0	0	0	0	Funnel Cloud
									A funnel cloud appeared for a brief period. Direction of movement unknown.
10 miles NW of Lubbock, Lubbock County	20	3:20 p. - 3:23 p.			0	0	0	0	Funnel Cloud
									Funnel cloud appeared briefly. Direction of movement unknown.
Fort Hancock-Sierra Blanca area, Hudspeth County	22- 23	6:40 p. - 5:00 a.	25	20 mi.	0	0	5	5	Hail, Wind, and Heavy Rain
									Thunderstorms moving across the area were accompanied by winds to 70 mph and rainfall up to 5 inches. Hail to 1 inch in diameter covered ground over a 5 square mile area in vicinity of Fort Hancock. More than 80% of damage was from heavy rains.
10 miles SSE of Christoval, Schleicher County	27	3:35 p. - 3:40 p.			0	0	0	0	Funnel Cloud
									Funnel cloud appeared briefly. Direction of movement unknown.
16 miles Northwest of Snyder, Scurry County	30	11:40 a. - 11:55 a.			0	0	0	0	Funnel Cloud
									Funnel cloud was moving toward the northeast at 10 mph.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1973

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					KILLED	INJURED	PROPERTY	CROPS	
<b>TEXAS (continued)</b>									
WESTERN 5 miles S of Midland, Midland County	30	4:05 p.- 4:12 p.	3/4	400	0	0	0	0	Hail
									Hail to 1 3/4" in diameter fell over a small area for a brief period of time. Most of the stones were less than 3/4 of an inch in diameter.
<b>UTAH</b>									
Flaming Gorge Uinta Mountains	12	12:45			1	0	0	0	Electrical
									Heavy thunderstorm activity occurred over the Uinta Mountains. In the Flaming Gorge National Park area, a 12-year-old girl seeking shelter under a tree was killed by a lightning strike.
Southern portion of Salt Lake Valley	13	18:00	10	*2	0	0	3	0	Electrical and wind
									Heavy thunderstorms struck the southern portion of Salt Lake Valley, with frequent and vivid lightning and gusty surface winds. Lightning started many local home fires.
Salt Lake City Western Summit County	14	20:00	20	*1	0	0	4	0	Heavy rain
									Heavy rainfall associated with strong thunderstorm activity moved from West Jordan, northeast across the Wasatch Mountains in the Parley's Summit area. Many homes, basements, and streets were flooded in the West Jordan area, but damages were generally light. A mud slide and moderate flash flooding closed the major highway US 40 East during the late evening in the Gorgoza Resort area of Western Summit County.
Salt Lake City and Salt Lake County	19	09:00	10	*2	0	0	5	0	Heavy rain
									Numerous thunderstorms accompanied by heavy rainfall moved through the Salt Lake City area during the morning, and late afternoon and evening hours. Between 2 and 2 1/2 inches of rainfall occurred in the Kearns, Taylorsville, and Murray areas between 10 AM and 1 PM. Flash flooding inundated many streets and basements, as storm sewers became rapidly clogged with debris. Damages ran very heavy, with several major apartment developments severely flooded. Late in the evening traffic was closed to Wasatch Boulevard at 6695 South due to a washout of a major section of the roadbed. Many minor rock slides occurred in the canyon roads east of the city.
Ogden, Willard Bay Area	19	18:20			0	0	0	0	Funnel cloud
									The Federal Aviation Administration Control Tower at Ogden reported a number of small funnel clouds of short duration, which did not touch ground 15 miles northeast of Ogden and near the Willard Bay area.
Northern Utah Counties of Tooele, Salt Lake, Box Elder, Davis, and Cache.	20	16:00	120	*25	0	0	4	0	Wind, heavy rain, funnel cloud
									A thunderstorm squall line with gusty surface winds moved eastward from the Knolls, Utah area across Brigham City, Ogden and northern Salt Lake City areas during the late afternoon and crossed into Cache County during the evening hours. A number of small funnels were sighted near Knolls. Gusty winds near 64 MPH hit the Salt Lake City and Ogden airports around 6 PM MST. Only minor wind damages were reported. Heavy rainfall and 1/2 inch hail caused minor crop damage and some soil erosion in Cache County near Clarkston, Utah.
<b>VERMONT</b>									
NONE REPORTED									
<b>VIRGIN ISLANDS</b>									
NONE REPORTED									
<b>VIRGINIA</b>									
Alexandria	10	7-10 p			0	0	3		Thunderstorm
									Thunderstorms with hail and rains of 3 to 4 inches caused minor flash flooding and power outages.
Fairfax County	21	2:30 p			0	0	0		Funnel cloud
									Funnel reported by Dulles Airport Tower but no damage reports received.
Toms Brook, Shenandoah County	26	9-10 p			3	0	4		Flash flood
									Locally heavy rains caused 3 deaths and considerable property damage.
Norfolk, Chesapeake and Portsmouth Cities	28	3-5:30 p			2	4	4		Thunderstorm
									Storm moved to the SSE across the area with high winds and heavy rain. Rains of 4 to 6 inches fell in a 2 hour period.
<b>WASHINGTON</b>									
NONE REPORTED									
<b>WEST VIRGINIA</b>									
Charleston, Kanawha (Kanawha City Area)	9	3:00 a- 6:00 a			3	35	6	0	Rain, Flash Flooding
									Heavy rains associated with a slow moving thunderstorm caused flash flooding around daybreak in upper and lower Donnelly Hollows and many sections of Kanawha City. 3 Small children were killed when a mud slide broke into their sleeping room in narrow 57th Street. Unofficial rainfall amounts of near 5 inches were reported at two sites within a 2 and 1/2 hour period.
<b>WEST VIRGINIA (continued)</b>									
Parkersburg, Wood County	10	4:00 p- 5:00 p			0	0	4	0	Funnel Cloud; Wind, Rain
									Heavy thunderstorm activity struck the Belore, Ohio and Parkersburg area with a funnel cloud reported over downtown Parkersburg. One tree down, no other reports of damage. High winds in thunderstorms caused downed trees and power lines. Heavy rain produced street and basement flooding. 2.58 inches of rain in 50 minute period reported by WSO Parkersburg.
Ripley, Jackson County	25	Evening			0	0	4	7	Rain, Flooding
									Heavy thunderstorms struck the Ripley area flooding some business establishments, homes and many basements and interrupted electrical power. Unofficial rainfall of 2.2 inches within one hour period. Hundreds of gardens in the area were washed away.
Ravenswood, Jackson County	28	6:00 p			0	5	0	0	Lightning
									5 Youths injured when a tree under which they had taken refuge during a thunderstorm was struck by lightning.
<b>WISCONSIN</b>									
Buffalo County	3	1650			0	0	4	4	Hail, Funnel Aloft
									Baseball size and grapefruit size hail fell in Buffalo City-Cochrane area. 75 cars sustained smashed windshields or deep dents. Also many windows smashed and damaged roofs. Funnel aloft observed by Cochrane resident.
Crawford, Grant, Iowa and Dane Counties	3	2000-2200			0	0	4	0	Wind, funnels aloft
									Scattered wind damage to trees and overhead wires from Prairie du Chien eastward toward Madison. Several reports of funnels aloft from Crawford and Grant Counties.
Polk County	9	1015			1	0	0	0	Lightning
									Lightning kills 36-year old Centuria businessman, Herman Springer, while working on his cottage at Deer Lake. Springer was standing on an electric cord in the doorway when the lightning came into the room through the cord. A man standing two feet away was knocked down by the shock but uninjured.
Sauk and Dane Cos.	9	1130			0	0	4	0	Wind
									Scattered wind damage with severe thunderstorm in Madison and Monona. 3/4-inch hail fell on east side of Madison. Nearly two inches of rain fell in an hour and winds gusted at 55 MPH. Also some wind damage in Baraboo area.
Vilas County	12	0300	15	100	0	0	4	0	Tornado
									Small tornado moving southeastward caused scattered damage in the woods from south of Boulder Junction to near Sawyer.
Door County	12	0730	3	100	0	0	4	0	Tornado
									Small tornado moving southeastward did scattered damage west and south of Jacksonport. As many as six waterpots reported by one observer off Jacksonport. Saitche caused a drop of two feet in water level locally about 15 minutes after passage of storm.
Outagamie County	12	0800?	1	100	0	0	4	0	Tornado
									Small tornado moving southeastward destroyed farm buildings on Ken Geiger farm, 4 W Freedom.
Chippewa County	13	2037			0	0	0	0	Wind
									Pilot reports surface winds gusting at 60 to 70 MPH and moderate to severe turbulence with thunderstorms at 20N Eau Claire.
Clark and Taylor Cos.	18	1830			0	0	4	4	Wind, Hail
									Severe thunderstorms with high winds and hail caused damage to overhead wires and several farm buildings and a lumberyard near Dorchester. Hail damaged crops and gardens in Sawyer Dam area west of Medford.
Taylor County	18				0	0	4	0	Lightning
									Lightning believed cause of fire which burned Town of Holway barn.
Grant County	20	0200			0	0	4	0	Wind
									Strong winds with severe thunderstorms caused barn on Glen Pink farm near Lancaster to collapse. Five cows killed.
Barton County	26	1720	1/4	100	0	0	4	0	Tornado
									Small tornado moving southeastward did damage to farm buildings on Hazelberg farm at Hwy63 and CT B about 1 N. Cumberland.
Racine County	26	1320			0	0	4	0	Lightning
									Lightning struck the steeple of Racine's historic First Presbyterian Church damaging same severely.
Washington County	26	1245			0	0	0	0	Hail
									One-inch hail reported near Jackson at 30 N. Milwaukee.
Sheboygan County	26	1320			0	0	0	0	Funnel Aloft
									Funnel aloft sighted between Sheboygan Falls and Lake Michigan.
Grant County	26				1	0	0	0	Lightning
									A rural Montford boy, 15-year old Tim Straka, was killed by lightning on his father's farm. He was helping unhook a chopper wagon when struck.
Pierce, Pepin Trempealeau, Buffalo and La Crosse Counties	29	1200- 1600			0	0	5	5	Hail, Wind
									A very severe thunderstorm moved southeastward along the Mississippi River valley from around Prescott to La Crosse.

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					KILLED	INJURED	PROPERTY	CROPS	
<b>WISCONSIN (continued)</b>									
Dane and Jefferson Counties	29	1930-2030			0	0	0	0	Funnels aloft Several sightings of funnels aloft. From Sun Prairie eastward into northern Jefferson County.
Sheboygan County	30	1600	1/4	50	0	0	3	0	Tornado Small funnel touched down on farm near Plymouth High School. Winds lifted a 1000-lb. wagon end-over-end about 500 feet. Several trees knocked down on a neighboring farm.
Dodge County	30	Night			0	0	4	0	Lightning Fire caused by lightning destroyed barn on Lichtenberg farm 1 1/2 W Theresa. A large number of pigs lost with barn.
<b>WYOMING</b>									
Yellowstone Lake	18	--			4	1	2		Wind and Rain Four members of a Boy Scout Troop were drowned when a sudden thunderstorm swept the lake and overturned their kayaks and canoes.
Cheyenne, Laramie County	19				0	0	3		Heavy Rain On the 19th, Cheyenne and part of Laramie County received heavy rains which resulted in swollen creeks and flooded basements. For Cheyenne, it was the second greatest 24-hour rainfall on record and totaled 3.12 inches on the 19th. The rains occurred over much of the state but seemed heaviest over the southeast corner.
Lone Tree	20	0245 p.			0	0	0	0	Funnel aloft Lasted 7-10 minutes before dissipating.
Gillette, 10 SE and 8 W	21	0500 p.	?	?	0	0	0	0	Tornadoes (2) Brief touchdowns of small funnels with no damage reported.
Campbell County	21	0500 p.			0	0	0	0	Funnels aloft
Gillette	21	Afternoon			0	0	4	0	Rain Heavy rain amounting to about 1.5 inches in one hour resulted in flooded streets and basements and damage to new construction.
Niobrara and Weston Counties	21	0500 p.-0600 p.					5	0	Rain and hail Torrential rains accompanied by hail caused flash flooding in the area creek and river, making roads impassable in spots and damaging bridges. Several earthen dams went out. Although hail size was not specified, banks of hail 3 to 4 feet high were observed along roads and creeks. Crop and property damage was substantial.
Eastern Park County	22	Evening			0	0	5	0	Rain Extremely heavy rain amounting to 2.52 inches in 1 hour and 22 minutes near Cody resulted in flooded streets and basements. Two bridges were also washed out on Cottonwood Creek near Heart Mountain.
Cheyenne 6 SW	22	0115 p.-0430 p.	?	?	0	0	0	0	Tornado and funnels aloft A total of 5 funnel clouds were observed in a 15 minutes period with up to 3 visible at one time. They first formed west and southwest of Cheyenne and were moving slowly eastward. One of the funnels was observed touching the ground about 6 miles southwest of the airport. The touchdown was almost immediately followed by the dissipation of the tornado. No damage was reported. The funnel clouds were observed and photographed by many people including National Weather Service personnel.
Buffalo, 7 S	23	1250 p.	?	?	0	0	0	0	Tornado A funnel cloud was visible for 3 minutes and touched the ground briefly.
Douglas, near	24	0400 p.			1	0	1	0	Lightning A 17 year old boy and the horse he was riding were killed by lightning on a ranch just north of Douglas.
<b>MINNESOTA</b>									
South Half of State	1	7 p-Mid			1	3	6	4	Lightning, Wind, Funnel Clouds Strong thunderstorms associated with a cold front. Lightning struck a group playing volleyball near Rushmore, Nobles County, killing a 17 year old young man and injuring three others. Straight-line wind damage greatest over an area from Alexandria vicinity southeastward through Minneapolis-St. Paul to Rochester. Buildings and homes damaged, falling trees knocked out utilities. A small tornado touched down at Zimmerman, Sherburne County. Funnel clouds reported following counties and locations: Douglas, Alexandria 20W, 9p, and Alexandria 14 SE, 9:18p; Stearns, Lake Koronis, 9:20p; Meeke, Watkins, 9:20 p.
Zimmerman 3NE, Sherburne County	1	10:30 p	1	30	0	0	3	0	Tornado

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<b>MINNESOTA (continued)</b>									
Southern Dodge, Northern Mower and Olmsted County	3	6 p-8 p			0	0	4	4	Hail, heavy rain Shed destroyed and blown against two trailers doing minor damage to each. Tornado moved southeastward.
Angus 4ENE, Polk County	5	9:55 p			0	0	4	0	Wind Hail, 1/4 to 2 inch diameter, damaged crops. Rain, up to 4 1/2 inches, damaged roads and laid crops low. Greatest unofficial rainfall of 5.50 inches at Hayfield, Dodge County. Peak wind recorded at Rochester National Weather Service 54 mph at 6:52 p.
Montevideo 4N, Chippewa County	6	5 a			0	0	0	5	Hail Strong wind gusts blew down large trees along driveway to and adjacent to farm home causing some damage to home. Two empty barns blown away from foundations.
Kittson, Roseau, Marshall Counties	7	3 a-5 a			0	0	6	6	Wind Hail, up to 1 inch diameter, destroyed crops in an area 3 miles by 10 miles. Local rains ranged upward to 3 inches.
Eastern Roseau, Lake of the Woods, and Western Koochiching Counties	11	7 p - Mid			0	0	5	5	Hail, Wind Strong winds, estimated at 70 to 90 mph damaged trees, homes, farm buildings, crops and power lines. Some small hail and locally heavy rain reported. Hardest hit county was Roseau.
Cook-Biwabik area, St. Louis County	12	12:30 a			0	0	4	0	Wind, hail Severe thunderstorms, with damaging winds up to 48 mph and hail to 2 inches in diameter, moved across the area. Hail damage to crops total loss at some farms. Hail damaged roofs, automobiles and 2 airplanes in Haudette and vicinity, Lake of the Woods County, around 10:50 p.
Barnum 4W, Carlton County	13	6:15 p	1/2	30	0	0	4	0	Tornado, funnel clouds Strong wind and hail, up to one inch diameter, damaged property and uprooted trees. Three day tree cleanup Cook area. Trailer 10x50 blown over at Biwabik.
Waseca 5S, Waseca County	23	7:26 p	1/4	100	0	0	3	0	Tornado Tornado touched down briefly damaging property and farm equipment. Trees twisted off at ground level. Funnel clouds observed at Barnum 2E at 6:20 p and at Wrenshall at 6:35 p.
Waseca 7N, Waseca County	23	7:50 p	1/4	30	0	0	4	-	Tornado Very little damage. One chicken house overturned. Trees uprooted.
Gwatonna 4W, Steele County	23	9:18 p	1	100	0	0	3	0	Tornado Heavy damage to barn and injury to livestock. Farmer heard tornado coming and tried to get to basement but "door wouldn't open due to suction".
Hayfield vicinity, Dodge and Olmsted Counties	23	11 p			0	0	4	0	Wind, rain Four (4) farms hit - minor property damage.
Pleasant Grove 4S, Fillmore County	23	11:20 p	3/4	40	0	0	3	0	Tornado Wind caused minor damage to farm buildings. Rain, up to 5 inches, caused 30 to 35 basements to flood with several cave ins.
Scott, Carver, McLeod Counties	29	11 a			0	3	5	6	Hail, Wind, Funnel Cloud Minor damage to two farms.
Wabasha and vicinity, Wabasha County	29	2 p			0	2	6	6	Wind, Hail Hail up to 2 1/2 inches in diameter shredded crops. Greatest hail damage Norwood-Young America-Bongards area, Carver County and Jordan-Lydia area, Scott County. Strong winds, estimated up to 80 mph damaged trailer homes, boats, residences, farms and commercial buildings. Trees damaged. Electrical and phone service knocked out. Two (2) funnel clouds observed 2 1/2 miles west of Young America at 11 a.
Robbin, Kittson County	29	4 p			0	0	2	4	Hail Winds estimated at 75-100 mph destroyed several barns and damaged others as well as houses and trailers. Marinas along with boats damaged extensively. Over 100 trees downed taking power and phone lines out. Hail up to 1 to 1 1/2 inches destroyed crops, damaged buildings and other property. In some places hail accumulated to a depth of 18 inches. Hundreds of trees stripped of leaves by the hail. Locally heavy rains up to 3 inches recorded.
<b>FUNNEL CLOUDS REPORTED DURING JULY</b>									
County	Date	Time	Location & Remarks						
Hubbard	5	2:20p	Park Rapids						
Crow Wing	5	3:21p	Nisswa						
Marshall	5	9:32p	Warren 7NW						
St. Louis	12	1:50a	6S of Duluth Airport						

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JULY 1973

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

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. Late Reports and corrections will be carried in the June and December issues of this publication.

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