

U. S. DEPARTMENT OF COMMERCE  
LUTHER H. HODGES, Secretary  
WEATHER BUREAU  
F. W. REICHELDERFER, Chief

# STORM DATA

MAY 1961

Volume 3 No. 5



ASHEVILLE: 1961

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>ALABAMA</b>									
North Alabama	8	7:00 p - midnight			0	0	5		Wind, electrical
									Heavy thunderstorms caused scattered damage to buildings, trees, and utility lines over northern half of state. At Waterloo, Lauderdale County, 4 houses were damaged and several farm buildings blown down. At Birmingham a hanger at the airport was damaged and trees and utility lines felled as winds reached peak gusts of 75 mph. At Huntsville lightning set a barn on fire. Minor damage at Tuscaloosa and around the Tri-Cities area. Wind caused 95% of damage.
Troy, Pike County	23	1:30 p			1				Electrical
									Student struck by lightning as he walked across college campus.
<b>ALASKA</b>									
			None reported						
<b>ARIZONA</b>									
			None reported						
<b>ARKANSAS</b>									
Pope County	5	8:30 p.	1	50	1	4	4	0	Tornado
									The storm first struck about one mile north of Dover and moved northeastward. One house destroyed. An automobile, a truck and a tractor damaged. The persons who were killed and injured were in the house when the storm struck. No other damage was reported in the area.
Booneville, Mount Magazine and Subisco, Logan County	5	Evening							Funnel cloud
									Funnel cloud observed by public, moving northward. Did not touch ground.
Garland County	5	9:00 p.	2	300	0	5	5	0	Tornado
									The storm moved northeastward along the Thornton Ferry Road, four miles west of Hot Springs. About 25 houses either destroyed or damaged.
Conway, Faulkner County	5	10:30 p.	2½	880	0	5	4	0	Tornado
									The storm moved northeasterly across the extreme southwest portion of the City and lifted before reaching the heart of the City. Six houses were damaged and some barns and garages damaged or destroyed. Several trees were felled and utility service was disrupted. Three persons sustained only minor injuries.
Saline County	5-6	11:00 p. to 11:00 a.			0	0	4	4	Wind
									The storm moved northeastward causing scattered damage over the northern half of the County, with the area of principal damage between Congo and Collegeville, in the northeastern portion of the County.
Craighead County	5	12 Midn. to 2:00 p.			0	1	5	0	Wind
									Scattered damage over entire County with principal damage in the areas to the north of Garway and to the north and west of Jonesboro. Several houses damaged and a number of buildings destroyed and a number of outbuildings destroyed. Trees were uprooted. Phone service to East Garway was disrupted. A woman was injured when the trailer house in which she was living, to the north of Jonesboro, was overturned.
Little Hook, Pulaski County	6	12:15 a.	1	200	0	3	5	0	Tornado
									Path extended from west to east along East Roosevelt Road in the Southeastern portion of the City. The drive-in theater screen destroyed and another damaged. Extensive damage to roofs and signs and some structural damage to buildings. Many trees felled.
Morrilton, Conway County	6	11:45 a.	Short	Narrow	0	0	5	9	Hail, rain
									Hail with stones to one inch in diameter caused extensive roof damage in the City of Morrilton.
Midway, White County	5	11:20 p.	1½	300	2	6	5	5	Tornado
									Tornado struck the Midway Community, three miles north of Denmark on State Highway No. 87. The storm moved from southwest to northeast. A total of three funnels were reported to have been observed. Five houses, a church and a filling station were destroyed and several buildings damaged. Rain damaged strawberries.
Independence County	6-7	11:55 p. to 12:05 a.	7	200	0	0	5	0	Tornado, hail
									The storm moved northeastward across Southeastern Independence County through the Oil Trough and Blackland Communities. Six houses were destroyed and there was considerable damage to other buildings.
<b>ARKANSAS (Cont'd.)</b>									
Marion County	7	1:00 a. to 1:25 a.	20	* 1	3	9	6	5	Tornado, rain
									Tornado first touched down two miles south of Bruno and moved northeasterly along a meandering path through Yellville to a point 6 miles north of the town. The principal damage was in the Summit area of Yellville where 3 persons were killed and 12 injured. There was extensive damage to houses, other buildings and timber along the path of the storm. A total of 50 buildings was destroyed and 50 damaged. Heavy rains accompanying the tornado caused extensive damage to crops, including corn, alfalfa and small grains. The rains also caused extensive damage to roads.
Harrison, Boone County	7	1:00 a. to 3:00 a.	9	9	4	12	7	0	Rain
									Excessively heavy rains on the watershed of Crooked Creek caused a flash flood in Harrison. Five inches of rain fell in the City of Harrison in the two-hour period. Water went over the levee and reached a depth of between 12 and 14 feet in the business district. Several downtown buildings collapsed and the contents of several buildings on the Square were swept out by the flood waters. Thirty homes near the creek were washed away or moved from their foundations. The brick Agriculture Building at the high school was washed away. More than 100 automobiles were either damaged or destroyed. Flood waters receded 2½ hours later.
Searcy County	7	2:00 a.	10	300	0	0	4	0	Tornado
									The storm moved across extreme northwestern portion through the town of Pindall. Several houses and buildings damaged; trees uprooted.
Baxter County	7	2:15 a.	20	* 2	0	1	6	4	Tornado, rain
									The path of the storm extended northeastward across western and northern Baxter County from the Monkey Run community on the White River to the west of Mountain Home to the State Line Community. Principal damage was in the Clarksville Community where a church, a store and two homes were destroyed. In addition, 50 other buildings were damaged. Water caused considerable damage to field crops.
Searcy County	8	5:00 a.	1½	9	0	0	4	0	Tornado
									The storm moved northeastward across Northwestern Searcy County. Principal damage was in St. Joe. Several houses damaged and some barns unroofed. Trees uprooted.
Rolla, Hot Spring County	8	8:50 a.	1	100	0	0	9	9	Tornado
									House damaged and several out-buildings destroyed. Many trees destroyed when the storm cut a path through the timber.
Phillips County	8	2:55 p. to 3:10 p.	6	* 2½	0	1	5	5	Wind, rain
									Storm moved northeasterly over Eastern Phillips County with principal damage in and around the town of Harvell, where a brick wall of a store building was blown down and several roofs damaged in the business district. Excessive rains caused extensive damage to planted cotton.
Mississippi County	8	3:00 p.			0	3	9	0	Wind
									Several tenant houses, barns and out-buildings were destroyed or damaged in the Fremont Bayou, Joiner, Wilson area of Southwestern Mississippi County. Many trees were destroyed and power was disrupted.
Helena, Phillips County	8	3:30 p.							Funnel cloud
									Funnel cloud observed by public. Did not touch the ground.
Pfeifer Community, Independence County	8	7:20 p.	5	200	0	0	4	0	Tornado
									Considerable damage to houses and other buildings.
Randolph County	14	2:00 p.	Short	100	0	0	5	0	Tornado
									A tornado touched down briefly on U. S. Highway 87, six miles south of Pocolantas. The only damage was the destruction of a drive-in theater screen and a parked automobile hit by debris.
Arkansas County	14	4:20 p.	6	440	0	0	4	4	Tornado, hail
									The tornado skipped northeastward along a six mile path from a point 3 miles to the west of Stuttgart. A large barn was destroyed and several out-buildings damaged. Several trees uprooted. Hail with stones reported to be up to the size of baseballs damaged oats on several farms.
Benton County	19	7:00 a. to 1:00 p.			0	0	5	9	Rain
									Heavy rain over Benton County, with amounts locally up to 5 inches, caused extensive damage to roads and bridges.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM				
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS					
ARKANSAS (Cont'd.)										FLORIDA													
Little Rock, Pulaski County	22	7:45 p. to 9:20 p.							Funnel cloud	Riverview Hillsborough Co.	1	During Night			0	0	4		Lightning				
									Funnel cloud observed moving east-southeasterly over the southwest portion of the City.										Lightning killed 26 dairy cows.				
Lincoln County	22	Evening	?	?	0	0	?	?	Hail, rain, wind	West Palm Beach Palm Beach Co.	3	12:00 Noon			0	0			Funnel Cloud				
									An estimated 2,000 acres of young cotton damaged by hail, heavy rain and wind over the northern portion of the County, principally between Terry and the Garratt Bridge. Hail stones were reported to be mostly small. Some cotton was killed by excess water in the fields.	Avon Park Highlands Co.	5	Afternoon			0	1			Lightning				
El Dorado, Union County	23	1:55 a. to 2:15 a.	5	* 5	0	0	5	0	Wind, rain	St. Petersburg Pinellas Co.	5	5:00 p.	1/2	50	0	0	4	0	Tornado				
									The storm moved from west to east. Damage was confined to the City of El Dorado and the immediate vicinity. There was extensive damage in the downtown district where several store windows were blown out. Trees were uprooted over the City and the streets littered with debris.										Waterspout originating over Tampa Bay moved westward and onshore damaging several buildings.				
CALIFORNIA										Key West Monroe Co.													
Riverside County	3	afternoon					4	3	Sandstorm	Alachua County (western portion)	9	12:15 p.			0	0			Waterspout				
									Blowing sand closed highways, removed paint from buildings and vehicles, and damaged fruit.										Hail				
COLORADO										Key West Monroe Co.													
Cheyenne County	5	3:00PM			0	0			Tornado		10	7:15 a.			0	0			Funnel Cloud				
									A pilot reported a tornado on Claybank Route, 25 miles north-north-east of Kit Carson, Colorado. No damage was reported.										Waterspout				
Kit Carson County	6	9:30 - 10:00PM			0	0	3		Tornado	Key Biscayne Dade Co.	10	7:30 a.			0	0			Waterspout				
									A small tornado struck several farms east and north of Burlington, damaging farm buildings and equipment.										Funnel Cloud				
Eastern Colorado	12, 13				0	0	* 5	C	Hail, rain, snow and sleet	Key West Monroe Co.	17	6:15 a.			0	0			Funnel Cloud				
									A storm that covered much of eastern Colorado, started as thunderstorms the evening of the 12th, accompanied by heavy rain, hail and high winds in many areas. The rain changed to sleet and snow on the 13th in areas northeast and near the mountains. Seven inches of snow fell in 5 hours at Walsenburg. Two men and a boy were rescued by a State Highway Patrol weasel after being trapped over night by heavy snowdrifts in the mountains west of Fort Collins. Heavy wet snow, icing and high winds damaged utility lines and blocked roads over wide areas. Hail damaged 2000 acres of beets in Morgan Co. & 600 acres south of Sterling. There was scattered crop damage in other areas. Cars were damaged by hail between Akron and Yuma. A tornado funnel cloud was reported south of Akron the evening of the 12th.														Lightning
Lamar area, Prowers County	13	1:30PM			0	0	3	0	Tornado	Cape Canaveral Brevard Co.	21	Afternoon			1	0			Lightning				
									A tornado skirted the southeastern edge of Lamar, touching ground intermittently over a distance of about 4 miles, uprooting trees and damaging farm buildings. Funnel clouds were reported about the same time about 10 miles northwest and about 15 miles east of Lamar. Hail up to 1 1/8" in diameter was reported in the area.										Waterspout				
Teller County	16	Noon			0	1			Lightning	Miami Dade Co.	23	6:20 a.			0	0			Waterspout				
									Lightning struck a woman near Four Mile. She was thrown from a wagon in which she was riding and knocked unconscious. She suffered severe body, head and face burns.										Lightning				
Douglas County	20	1:30PM	2	70	0	2	* 5	C	Tornado	Pompano Beach Broward Co.	25	Afternoon			1	0			Lightning				
									A tornado went through an area in Central Douglas County 1 1/2 miles north of Castle Rock. It struck 2 ranches and property of a drilling company. A car on the highway was lifted off the road and slammed into a truck, injuring the 2 occupants. Severe thunderstorms throughout eastern Colorado during the afternoon were accompanied by considerable scattered lightning and hail damage, and local flooding.											Lightning			
Walsenburg	20	1:00PM			1	0			Lightning	Ft. Lauderdale Broward Co.	26	3:30 p.	1/2	50	0	0	6	0	Tornado				
									A man was struck and killed by lightning while driving a tractor on his farm north of Walsenburg.										Tornado moved northeastward across Ft. Lauderdale Airport, lifting and lowering along path, and damaged a number of parked aircraft and hangar facilities.				
Weld County	21				0	1			Lightning	Panama City Bay Co.	26	6:15 p.			0	0			Funnel Cloud				
									A man was knocked unconscious and suffered neck and head burns while fishing from the bank of a lake 5 miles northwest of Greeley.										Funnel Cloud				
Washington and Kit Carson Counties	31	2:10PM & 3:16PM			0	0	2		Tornadoes	West Palm Beach Palm Beach Co.	28	4:05 p.	Short Narrow			0	0		Tornado				
									A tornado funnel was observed at 2:10PM, 40 miles southeast of Akron in an uninhabited area. A later one dipped to the ground briefly near Burlington, damaging a television booster tower.										Funnel cloud seen about 4 miles North of Palm Beach Airport touched ground briefly in an uninhabited area.				
CONNECTICUT										GEORGIA													
									None reported	Troup County, near West Point	9	3:30 a.	Short Narrow			0	0	4	0	Tornado			
									None reported										Storm described as a small tornado dipped down briefly about 4 miles northeast of West Point, unroofed several buildings, blew the porch from one house and uprooted a number of trees.				
									None reported	Southern	23	1-2 p.			0	0	4	5	Hail, wind and rain				
									None reported										Hail, high winds and heavy rains caused damage to buildings and crops in several south Georgia counties. A warehouse was damaged and the roof blown from a high school gym at Alma, in Bacon County. Hail damage was reported in Colquitt, Ben Hill, Bacon, Ware and Pierce Counties, with tobacco suffering greatest damage. Trees were uprooted throughout the area and utility lines blown down.				
									None reported	South central	25	pm			0	0	3	4	Hail, wind and rain				
									None reported										Hail, wind and rain caused heavy damage to crops in Lanier County with lesser damage in neighboring Berrien and Lowndes Counties. Heaviest losses to tobacco with more than 50 acres, almost ready for harvest, being damaged.				
									None reported	Gwinnett and Hall Counties	25	3:30 p.	Short Narrow			0	0	3	0	Tornado			
									None reported										Funnel-shaped cloud followed from Buford northeastward along Highway 23 until it disappeared over Lake Lanier. Touched down briefly at Resthaven where it destroyed a barn and uprooted trees.				
DELAWARE										HAWAII													
									None reported										None reported				
									None reported	IDAHO									None reported				

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					KILLED	INJURED	PROPERTY	CROPS	
<b>ILLINOIS</b>									
Central and Southern Illinois	5-8				2	2	7	5	Heavy rain, wind, hail, lightning
									Heavy rains accompanied by thunderstorms, high winds and hail overflowed lakes, rivers and streams flooding cities, towns and farmlands in central and southern Illinois. Hundreds of families were evacuated from their homes in the worst flooding since 1943. Heaviest 4 day rainfall totals were generally recorded on a line from East St. Louis to Vincennes, Indiana where generally 10 to 13 inches occurred. Heaviest 4 day amount occurred at Clinton where 15.77 inches fell. 3 to 6 feet of water flooded streets in Browns, Centralia, Edwardsville, Collinsville, Belleville, Marion, Clinton, Mt. Carmel and other locations. At least 25 major highways were blocked by high water. One man suffered a fatal heart attack as his car plunged into deep water on a highway near Centralia. A New Athens farmer was drowned in an overflowed creek. At Tower Hill a woman was burned by lightning which struck and set fire to her home. In Decatur a man was injured by lightning which blasted an 8 x 10 foot hole in his house. Golf ball sized hail broke 350 windows in a greenhouse in Milford and caused considerable damage to homes in the area.
40 SW Springfield	8	0:16 a							Funnel cloud
Marion	8	10:00 a							Funnel cloud
Delavan	8	10:00 p							Funnel cloud
Hannibal (MO)-Rayson-Golden-Macomb-Marietta-Ellisville-London Mills-Rapatee-Douglas-Maquon-Princeville-Castleton	14	5:00 - 7:50 p	140	50 - 150	0	8	6	3	Tornado
									A tornado moving on a northeasterly track at approximately 40 mph destroyed numerous farm buildings and homes with heaviest damage in the Douglas-Maquon area where 19 homes and 2 stores were destroyed. 5 persons were injured on a farm near Douglas when debris from their home fell into the basement where they had sought protection. 3 other persons were injured in the Maquon area. The tornado lifted considerably between Golden and Macomb but became extremely active about 10 miles east of Macomb where it touched ground continuously until dissipation in the vicinity of Castleton.
Canton area	14	7:19 p			0	0	4		High winds, rain, hail
									Winds up to 72 mph knocked over utility lines and trees damaging numerous homes. Hail caused considerable damage to buildings.
New Berlin	14	11:10 p	4	Narrow	0	0	5		Tornado
									One home and several other buildings destroyed with numerous others damaged as tornado accompanied by heavy rain and hail hit New Berlin area. Tornado lifted 8 miles south of Pleasant Plains.
Eureka-Winona	14	8:15 - 8:45 p	20	Narrow	0	0	2		Small tornado
									Small tornado touched ground 3 miles north of Eureka dissipating in vicinity of Winona. Damage was minor.
Chicago	26	Morning			1	1	5		High winds
									Winds up to 57 mph behind a strong cold front stranded 5 men on a barge on Lake Michigan, injuring one. One woman was killed when wind blew her in front of oncoming car. Several parked aircraft overturned at Meigs Field. Storm produced snow flurries in the Chicago area.
<b>INDIANA</b>									
South Bend	6	7-8 p			0	0	0	0	Hail
									Golf ball-size hail fell in southwestern South Bend but caused very little damage.
Elkhart	6	7:30 p			0	0	0	0	Tornado
									Funnel cloud north of Elkhart near the Municipal Airport during a severe thunderstorm dipped to the ground in an open field.
Burr Oak, Noble County	6	evening			0	0	0	0	Hail
									Large hail, golf ball to 10-inch diameter size, was reported.
Wolcottville to Edon, Ohio	6	8:05 p. to 9:40 p.	33	800	0	5	6	0	Tornado
									This cloud complex with a tornado at least part of the time first touched ground on the north shore of Winton Lake, 2 miles northwest of Hamilton Lake at 8:05 p.m. CDF, dipped again on the east shore of Hamilton Lake at 9:06 p.m. and ended at 9:40 p.m., 1 mile north and 1 1/4 mile west of Edon, Ohio. The non-continuous path of damage was 33 miles long just north of the southern boundaries of LaGrange and Steuben Counties. The tornado but a swath from west to east which was 1/2 mile wide at times. Five people were injured at Winton Lake, 22 cottages were demolished or badly damaged, and 30 cottages sustained minor damage. Marble-size hail was reported northwest of Winton Lake about the same time. At Hamilton Lake, 25 miles farther east, two cottages were destroyed and several were unroofed but there were no injuries. Four youth and their car were tossed into Lake Hamilton but they escaped injury. Several score houses and barns were struck at other places in the path of damage and just over the state line in Ohio.
<b>INDIANA (Cont'd.)</b>									
Columbus to Seymour	7-8	night			0	0	0	0	Funnel cloud
									Airline pilot saw a funnel cloud between Columbus and Seymour.
Indianapolis	8	7:30 p.			0	0	0	0	Funnel cloud
									Funnel cloud was seen by sheriff 11 miles southeast of Indianapolis.
Evansville	7	6:45 p.-8:15 p.			0	0	4	3	Wind, rain, lightning
									Winds damaged two buildings and an industrial plant with a loss of \$10,000. Lightning and resulting fire destroyed the roof of a house. The excessive rain damaged the city sewer system.
Southern Indiana	7-9				0	5	5		Rain
									Five to ten inches of rain caused flash floods and later the White River left its banks causing the evacuation of several hundred families. Heaviest rains were between Vincennes and Evansville.
Apalona, Perry County	15	12:12 a.			0	0	0	0	Two funnel clouds
Muncie	24	2 p.			0	0	1	0	Tornado
									A very small tornado was seen to carry a stack of tires and oil cans across a street.
<b>IOWA</b>									
Grundy County	5	8:30 p.			0	0	4		Windstorm
									200 claims mostly in Wellsburg-Grundy Center area.
Littleton to 4SW Oelwein	14	11:30 a.	15	150	0	2	4		Tornado
									Storm turned over cabin causing injuries and blew over other small buildings. Funnel observed. Moved north-east.
Near Walker	14	4:47 p.			0	0			Funnel aloft
Sumner	14	5:10 p.			0	0	4		Tornado
									Windstorm caused 70% damage. Funnel observed.
3W Ossian	14	5:10 p.			0	0	4		Lightning
2S Fayette	14	5:30 p.			0	0	4		Windstorm
									About \$30,000 wind loss.
6NE Bladenburg	31	5:30 p.			1	0			Lightning
<b>KANSAS</b>									
Shawnee, Douglas and Leavenworth Counties	5	afternoon and evening	50	1 to 2					Severe winds
									Gusts of wind, up to 78 mph at Topeka, caused damage to trees, signs, roofs, skylights and window panes from southwest of Topeka through Lawrence to near Basehor. Broken trees and limbs caused outages in electric and telephone services.
Southeastern Counties	5	Late afternoon							Hail
									Intermittent hail occurred across eastern Neosho and central and southern Crawford Counties. Some stones were the diameter of silver dollars. Many roofs were damaged especially in Erie, Frontenac, Pittsburg, and Cherokee.
Osage and Shawnee Counties	6	12:45a							Hail
									Hailstones the size of golf balls were reported from 12 miles south of Topeka to Carbondale.
Cherokee County	6	night							Tornado and hail
									A small tornado touched ground briefly a few miles east of Chetopa, damaging a barn. A covering of corrugated aluminum showed evidence of large hail.
Lafayette County	7	1:30a							Funnel cloud
									A funnel cloud passed over Chetopa but without damage.
Sedgwick County near Wichita	7	12:35a							Hail
									Hailstones up to 1 1/2 inches in diameter fell at the Wichita Municipal Airport.
Cherokee County, western portion	7	2:00a	6	narrow			4		Tornado and hail
									A small tornado struck west of the Faulkner School and then skipped northeastward to south of Hallowell, damaging buildings on several farms each time it came to the ground.
			16	2000			4		Hail
									Hail accompanying the tornado caused extensive crop losses, damage varied considerably from one locality to the other. Largest stones were about 1 inch in diameter.
Clay, Riley, Pottawatomie, Jackson, Brown, Atchison and Jefferson Counties	7	8:00a-9:30a							Hail, wind and 1 tornado
									Numerous small hail damage paths were reported over these counties after a rather severe thunderstorm passed over the area. Stones 1 1/2 to 3 inches in diameter were reported with damage to crops, roofs, windows and cars. In some localities high wind accompanied the hail. Near Blaine in Pottawatomie County a number of farm buildings were damaged by wind.

See reference notes at end of table.

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KANSAS (Cont'd.)									
Jefferson, Leavenworth, Johnson, and Wyandotte Counties	7	3:15p-3:45p	8 1/2	100-150	11	6			2 tornadoes, 4 funnel clouds, severe winds, and heavy hail.
<p>In Brown County, 2 miles west of Reserve, a small tornado struck a farm plant at 8:20am demolishing most of the buildings except the house. Flying boards of timber pierced the siding of the house. This storm moved southeast.</p> <p>A tornado that began with the appearance of a massive, black, swirling, roaring ball first struck ground 2 miles north and 1 west of Basador, travelled an east northeast path to about 3 miles northwest of Wlsoot where it turned southeast to the north edge of the town and turned east crossing the river into Missouri where it continued its path for 87 miles. At times as many as 4 attending "ringers" or funnels were observed. Damage from accompanying winds was a mile wide in some places. An auto, with 3 girls, was carried 300 feet over a grove of trees 50 feet high and dumped upside down on the railroad track. All 3 girls were injured. Approximately 40-50 horses were damaged or destroyed in addition to other buildings, telephone and power lines. Attendant severe winds caused damage for 1/2 mile on either side of the tornado path. Local areas reported varying degrees of hail damage. There is some evidence that tornado damage occurred near Jarbalo and at the State Lake northwest of Tonganoxie about 3:00pm.</p>									
Southeastern Wallace County	7	4:47p							Funnel cloud
<p>A funnel cloud was sighted momentarily 10 miles south of Wallace.</p>									
Gove, Graham, Trego, Ellis, Rooks, Osborne, and Russell Counties	7	4:00p-8:00p				4	5		Hail
<p>A number of areas in these counties suffered crop and property damage from hail. Across northern Gove County the damage path was about 40 miles long and 3 wide. Storm came from the west, stones were mostly 1/2 inch with some 2 inches in diameter.</p> <p>Across Trego County the path of 2 1/2 miles of damage was 1/2 to 2 1/2 miles wide. The ground was covered to a depth of 2 inches with hailstones 1/2 to 1 inch in diameter.</p> <p>Much wheat was damaged in eastern Graham County and from Plainville to Stockton in Rooks County and near Hattom in Osborne County. A strip from Walker to Goshen in eastern Ellis and western Russell Counties was badly damaged, some wheat was a total loss and there was roof, window and car damage.</p>									
Extreme Southeast Counties, Chautauque, Montgomery, Labette and Cherokee Counties	7-8	7:00p-1:00a							1 Tornado, 6 funnel clouds, and severe winds
<p>A funnel cloud was observed near Coffeyville at 7:13pm and one in the northwest section of Independence at 8:20pm. A small tornado was sighted 4 miles northeast of Coffeyville at 8:15pm. Two funnel clouds were observed 3 1/2 miles southeast of Columbus about 9:30pm. Severe winds near Tyro from 11:27pm to near 1:00am caused damage at several farms and unroofed the high school gymnasium. The worst of the storm lasted about 5 minutes. A funnel cloud was observed near Wauwata and another southwest of Chetopa late in the evening.</p>									
Saline and Dickinson Counties	13	8:00p-9:00p							7 Funnel clouds
<p>Funnel clouds were sighted as follows: 8:05pm between Salina and Solomon; 8:12pm near Solomon; 8:22pm over the north edge of Salina; 8:25pm-8:30pm southwest of Enterprise. Funnel clouds were also sighted near Oypsum and in the Miles area during the evening. Some wind damage occurred near Miles and northeast of Solomon.</p>									
Sedgwick County, west side of Wichita	13	7:30p			5				Severe winds
<p>Severe winds caused damage to the Centennial Exposition buildings, power lines. Winds were estimated at 70-80 mph.</p>									
Sherman County, western part of county	13	11:17p			4				Severe winds
<p>Wind gusts damaged signs, plate glass windows, trees. Major damage was about 5 miles west of Goodland where 3 buildings were damaged. One was blown off its foundation against a second bin. A third bin was blown over sideways.</p>									
Logan and Gove Counties	16	5:52p-6:57p							Funnel cloud
<p>A funnel cloud was first sighted high in the air 4 miles west and 14 miles south of Oakley. It dipped toward the earth twice but did not touch ground in its 30-mile passage to near Grainfield where it dissipated.</p>									
Many West Central, Northwest and North Central Counties.	16	afternoon and evening							Hail
<p>Many local areas reported up to 100% crop damage from hail. Damaged strips varied in width and length. Most extensive losses were in Rawlins, Thomas, Deatur, Gove, Sheridan, Graham, Logan, Hamilton, Kearny and Finney Counties. In some areas hail fell for 20 minutes. Stones were mostly marble or pea size with some as large as walnuts.</p>									
Jewell, Mitchell,	16-	late night			1	5			Severe winds and
KANSAS (Cont'd.)									
Cloud, Ottawa, and Dickinson Counties	17	to 4:00a							hail
<p>Extensive damage resulted from high winds and local hail. Damage was especially severe from tornadoic winds over Ottawa, north-eastern Mitchell and western Cloud Counties during the earlier part of the storm and across Dickinson about 3:00am. There were indications of incipient tornadoes. One person in Concordia was cut by flying glass. Storm struck Beloit about 1:15am, continuing for about 15 minutes. A number of farm properties were damaged between Beloit and Jewett. There was much hail damage over Jewell, Mitchell and Cloud Counties. Damage estimate is for Mitchell County.</p>									
Montgomery County	21	5:00p	1/8		1				Funnel cloud and severe winds
<p>A funnel cloud was observed about 1 1/2 miles southeast of Havana. Funnel cloud travelled toward the southeast. Attending winds caused considerable damage to trees and some buildings. A trailer house was overturned, injuring 1 man.</p>									
Butler and Greenwood Counties	22	10:30a-11:26a							6 funnel clouds
<p>First funnel cloud sighted at 10:30am 12 miles south and 2 west of Eureka. At 11:26am the second funnel occurred 12 miles east of Wichita near Andover. At the same time a pilot reported 4 funnel clouds 20 miles northeast of Wichita.</p>									
Seward County	24	evening				4			Electrical and 2 funnel clouds
<p>At 6:25pm a funnel cloud was observed 8 miles north of Liberal and another at 8:42m northwest of town. A 1,000 barrel oil storage tank was struck by lightning northeast of Liberal about 9:00pm.</p>									
Sherman, Thomas, Sheridan, Norton and Decatur Counties	31	4:00p-6:00p				5	6		Hail, wind, and funnel cloud
<p>Severe wind driven hail damaged crops in many areas over those counties. One of worst destructions was in Sherman County where the hail wiped out most of the wheat in a strip 45 miles long and 4 to 6 miles wide from Kanorado to the southern part of the county. Another especially damaging path was across Thomas County where the test crops on the Agricultural Experiment Station plots were ruined. Much wheat in the other counties was damaged. Stones in Sherman County were 1/2 to 1 1/2 inches in diameter with some 3 inches across. Some of the larger stones were disk shaped while others appeared as onions. Hail fell for 30 minutes. Local winds were estimated at 90 mph southwest of Goodland where the hail damage was the most severe.</p>									
Republic County	31	9:15p-9:30p	short		4				Tornado and severe winds
<p>A funnel cloud was observed about 7 miles south of Kanorado, the remains of a tornado that had touched ground twice in Colorado southeast of Burlington.</p> <p>A tornado touched ground at the Bellville airport, damaging a hangar and enclosed plane. Movement was toward the east.</p>									
					6	100	3		
<p>Severe winds with some evidence of tornadoic action uprooted trees, picked up or rolled grain bins, and damaged a number of buildings. A distinct roaring sound was heard. Damage path was southwest to northeast.</p>									
KENTUCKY									
Hickman & Graves County	7	8:15-8:45 AM	20	1/2-1					Tornado
<p>Small tornado of bounding type demolished five barns and several out-buildings in path about 20 miles long - movement from west to east.</p>									
McLean, Hopkins, Ohio, Muhlenberg & Grayson Counties	7	9:25-10:30 AM	60	1/4-3/4	3				Tornado
<p>Major property damage in Madisonville, Kentucky where one three story brick building had top two floors demolished, two two story brick buildings had extensive damage. Extensive structural damage to other business buildings, a church, and many residences. All utility poles and TV antennas in path were leveled. Extensive trap damage as well as water damage to contents of unroofed buildings. One airplane destroyed on ground, many automobiles damaged by flying debris. Lesser damage in Millport, Bremen and Noonan in Muhlenberg County, Centerport and Beaver Dam in Ohio County. Estimated damage to crop not to exceed \$10,000.00.</p>									
Hardin County	7	12:00 N	Short Narrow		4	3			Windstorm
<p>Major area damage in Elizabethtown, Kentucky with considerable roof, glass, display sign, and antenna damage. Minor damage to utilities.</p>									
Fayette County	7	12:30 PM	5	1/4	4	3			Windstorm
<p>Many houses sustained roof damage. Trees of up to 2 feet in diameter blown down. Wind gusts to 56 knots at NBAS, Lexington, Kentucky. Most of the damage in the metropolitan Lexington area.</p>									
Hopkins County	8	11:00 AM			4				Windstorm
<p>Squall line windstorm destroyed radio transmitter tower in Madisonville, Kentucky. Tower debris damaged automobiles in used car lot. Considerable plate glass and tree damage with minor damage to utilities, several garages and porches were demolished.</p>									

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>KENTUCKY (Cont)</b>									
Bullitt & Jefferson Counties	8	1:00 - 1:45 PM					4		Windstorm
			Squall line windstorm moving from west to east did extensive damage to garages, roofs, windows, and display signs, and blew 7 trailers from foundations in a trailer court. Two of the trailers were demolished.						
Christian County	8	Evening			1	1	3	3	Lightning
			One soldier at Ft. Campbell, Kentucky killed by lightning while operating a signal switchboard and a second soldier injured by later lightning strike. Duration of storm one hour. Wind gusts to 41 MPH at Ft. Campbell. Minor roof, tree, and display signs damaged at Hopkinsville, Kentucky.						
Henderson County	8	11:30 AM							Funnel Cloud Aloft
			Funnel Cloud reported by several reputable witnesses located near the south end of the Henderson, Kentucky - Evansville, Indiana bridge. Hook shaped echo reported by Weather Radar at Evansville, Indiana at this time.						
<b>LOUISIANA</b>									
Rapides Parish	1	9:00 p.			0	0	?	?	Hailstorm
			Hail up to 1-1/2 inch diameter. Small area northeast portion of parish.						
Jefferson Parish	8	11:32 p.	Short	Narrow	0	0	4	0	Thundersquall
			Storm moved south, causing minor damage in large area but heavy damage in area four blocks square in village of Laritte.						
Castor, Bienville Parish	14	2:00 p.	5	300	0	0	4	0	Tornado
			Observed aloft just prior to and after striking ground at town of Castor, Bienville Parish. Five homes destroyed, four badly damaged.						
Monroe	14	4:00 p.							Funnel cloud
Vermillion, Iberia Parishes	25	Night			0	0	4	0	Severe thunderstorms
			Severe thunderstorms occurred several places during afternoon and evening. Widespread, mostly minor damage.						
<b>MAINE</b>									
Washington and Hancock Counties	26-30				0	0	6	4	Rain, floods, wind
			Flooding resulted from 4 days of rainfall beginning on the 26th. Exceptionally heavy yields from the 26th to the 28th largely accounted for the 4 to nearly 9 inch totals. Major flood damage was along the smaller streams and rivers. Floodwaters washed out many roads and closed highway, bridge and rail traffic, temporarily isolating several communities. Thousands of logs and cords of pulpwood raced downstream when log booms broke on the St. Croix and Machias Rivers. Salvage efforts were undertaken. Flash floods struck intown areas of some communities where sewers could not cope with the excessive rainfall. Heavy damage resulted from flooded cellars. The Union Mills Bridge across the St. Croix River and the Machias Bridge were badly damaged by pounding logs. The Maine Central Railroad's track between Calais and Woodland was washed out. Wind damage was widespread especially along the coastal area but damage was mostly minor. Damage to driveways and lawns was extensive and many early planted gardens suffered from the downpour. A number of families were evacuated from their homes in Machias.						
Alexander to Baring	29	3 p. to 3:30 p.	10	150	0	0	3	0	Tornado
			Tornado apparently contacted surface first, briefly, at Alexander and then, about 20 minutes later, at Baring for about a half-mile. Tornado damaged 2 light poles and a small building at Alexander resulting in \$200 loss. At Baring, damage to 2 large buildings amounted to \$1300. Quarter-inch hail, lightning and strong winds attended storm. Funnel observed by several witnesses.						
Statewide	31	a.m.			0	0	0	5	Frost
			Crop loss estimated at \$200,000. Subfreezing minima in susceptible places especially in western part of State where lowest reported was 24° at Sanford.						
<b>MARYLAND</b>									
Washington, D. C. and Prince Georges County	9	8:00PM - 9:00PM EDT			0	0	*5	C	Severe thunderstorm
			A severe thunderstorm struck a damaging blow across southern sections of Washington, D. C. and around Oxon Hill and Andrews Air Force Base in Prince Georges County. Large trees were knocked down in Washington and the Oxon Hill area and power lines were broken. At Andrews Air Force Base winds reported up to 87 MPH wrecked the Army's giant \$180,000 Pentadome Exhibit which had been set up for Armed Forces Day.						
Pocomoke City, Worcester County	7	9:50PM EDT			0	0	1	0	Hailstorm
			A locally heavy hailstorm struck in the Pocomoke City district lasting for about four minutes. Some of the hailstones were as large as quarters. The short duration of the storm prevented the occurrence of serious damage.						
<b>MASSACHUSETTS</b>									
Statewide	31	a.m.			0	0	0	5	Frost
			Crop loss estimated at \$350,000. Widespread subfreezing in susceptible places with many readings in the upper 20's. Lowest reported was 26° at several stations. Its severity and occurrence so late in the season mark this freeze as one of the most damaging of record in this state, agriculturally.						
<b>Michigan</b>									
Detroit	28	5:15 p			1	1	2	0	High winds
			High winds estimated at 40 mph broke off a large heavy branch of a big tree which struck a family group at a picnic table. The heavy tree branch struck a six year old girl killing her instantly and injured a four year old girl sitting close by at the same picnic table which was completely demolished by the impact of the falling branch.						
Detroit	28	5:30 p apprx.			0	1	1	0	High winds
			High winds severed a live power line which struck a woman. She suffered electrical shock and was treated at a nearby hospital.						
<b>MINNESOTA</b>									
Spring Grove near, Houston County	14	12:15 p.					3	0	Funnel aloft
			Two funnel clouds reported aloft. Some wind damage below path of funnel cloud. Spotty hail also reported.						
Waseca SW, Waseca County	14	5:16 p.	5 1/2	4 1/2	0	1	5	0	Tornado
			One man injured by falling tree limb. One barn and several out-buildings damaged or destroyed on four farm sites. Trees were uprooted knocking out utility lines as the funnel cloud travelled northeast.						
Karlstad near, Kittson County	31	4:00 p.							Funnel aloft
			Funnel aloft reported by Highway Patrol.						
<b>MISSISSIPPI</b>									
Tupelo	6	10:00 a.			0	0	4	0	Windstorm
			Windstorm with gusts to 90 knots destroyed one and damaged several airplanes at airport.						
Eastern portion	8	5:30 p.- 9:00 p.			0	0	05	C	Thunderstorms
			Thunderstorms caused damage over wide area from Meridian to Tishomingo County. Heaviest damage reported Laurel, Okolona, and near Iuka.						
<b>MISSOURI</b>									
Most of State	5-8						5	5	Thunderstorms
			Most of Missouri, except some of the northernmost counties, was hit by frequent thunderstorms, some accompanied by very heavy rain, hail, and damaging surface winds. Most streams flooded. Most damage caused either by heavy rains, or the resulting flooding. Many areas received 5.00 to 8.00 inches, and some localities received 8.00 to 10.00 inches of rain in this four day period.						
Southeast Missouri	5-6	Evening Morning					5		Thunderstorms
			Heavy thunderstorms with as much as 4.00 inches of rain and strong surface winds moved through the Missouri Bootheel. Considerable flooding of roads, lowlands, and homes occurred.						
DeSoto, Jefferson County	6	4:15 p.	7				4		Tornado
			Tornado passed south and east of DeSoto and was observed by several witnesses. Damage to roofs of homes, barns, and trees.						
Howell and Ozark Counties	7	3:00- 3:30 a.	40	3000			9	4	Tornado
			This storm apparently formed over Bull Shoals Lake in Arkansas, crossed into Missouri into the southeast corner of Ozark County, and then on to the vicinity of South Fork in Howell County. There apparently were at least three funnel clouds. Many farm homes and buildings were heavily damaged.						
Sikeston, Scott County	7	6:15 a.							Funnels aloft
			One funnel sighted west of Sikeston, another northeast.						
Amsterdam, Bates County	7	3:00 p.					1	4	Tornado
			Heavy damage to set of farm buildings. Farmer injured by a large 2 x 4 which was picked up by the wind. Several witnesses report seeing a funnel cloud.						
Ray, Clay, Platte, and Carroll Counties	7	3:00- 6:30 p.					2	5	Tornado
			This was actually a "family" or group of tornadoes. The storms were first sighted in Wyandotte County, Kansas. They then caused damage in the Parkville-Weatherly Lake area in Platte County (3:15 p.m.). From there the storm path included Nashua (4:16 p.m.), Liberty (4:31 p.m.), Richmond (4 North) (5:30 p.m.), and Carrollton (6:00 p.m.). Several witnesses report seeing "the clouds come together," and the funnel cloud formed.						

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
MISSOURI (Cont'd)										
Joplin, Newton County	7	4:30-4:45 p.						5		Thunderstorms
										Heavy hail damage with hailstones 1/2 to 1-1/2 inches in diameter.
Aurora, Lawrence County	7	10:45 p.								Funnels aloft
Monett, Barry County	7	10:50 p.								Funnels aloft
Joplin (2 S.), Newton County	7	11:20 p.								Funnel aloft
School of the Ozarks, Taney County	8	1:20 p.								Funnel aloft
West Plains-Pottersville, Howell County	8	3:00-3:15 p.						3		Tornado
										Heavy rains accompanied storm. Some witnesses told of seeing funnels, but they would have been difficult to verify.
Arcadia, Iron County	8	11:15 p.								Funnel aloft
Sikeston, Scott County	14	3:45-4:45 p.						3		Thunderstorms
										Winds of 50-60 mph. and heavy rains did some damage to roofs and trees.
Hannibal, Marion County	14	5:50 p.						4		Thunderstorm
										Heavy rain, hail, and surface winds estimated 70-80 mph. Damage to houses, business buildings, and trees was reported.
Mt. Vernon (10 N.), Lawrence County	18	6:55 p.								Funnel aloft
MONTANA										
West of Continental Divide	4-5	Evening	156	*75	0	0	4	0		Heavy Snow
										Storm covered an area of about 75 miles West of Divide and from Hamilton to Canadian Border. Snow depths up to 8 inches reported at Hila and Polson. At the Missoula Weather Bureau Airport Station 6-1/2 inches of snow fell in a 24-hour period, and new maximum record and greatest maximum total since 1892. Snow and ice accumulated to 1-1/2 inches in diameter on telephone lines at Drummond. There was about \$20,000 damage to power phone lines near Polson. Most damage was to power and phone lines. Some school buses did not make runs due to slippery roads.
Central Montana	10	Afternoon	250	*100	0	0	4	0		High Winds and Thunderstorms
										The storm covered an area about 100 miles East of Divide and from Dillon to the Canadian Border. Gusty winds were reported over most of the area, with gusts reaching 80 MPH at Dillon and Livingston, 70 at Belgrade, 59 at Billings, 51 at Helena, 50 at Lewistown, and 28 at Butte. Some damage to buildings, trailer homes, and TV aeriels.
Great Falls, Cascade County	17	4:17 pm	?	?						Funnel Cloud
										A pilot saw funnel 20 miles NW of airport. It did not touch ground.
Laurel, Yellowstone County	20	Evening	3	*3			0	3		Hail
										Storm about 3 miles east of Laurel. Hailstones were big as golf balls. Hail depth reached 4 inches some places.
Northern Lake and Southern Flathead Counties	26	Evening	60	*40	0	0	4	2		Thunderstorm and Gusty Wind
										Wind damaged buildings, lumber mills, power and telephone lines, about 1,500,000 board feet of forest timber were blown over, damage heavy some areas, some cherry trees blown over.
Grassrange, Fergus County	29	Afternoon	?	?	0	1	0	0		Lightning
										A boy was injured when lightning struck and killed the horse he was riding.
Several Places East of Continental Divide	30	Afternoon	?	?	0	0	4	5		Thunder, Heavy Rain, and Hail Storms
										Storms were reported from several areas.
										Big Sandy, Chouteau County, 5.91 inches of rain fell the afternoon and evening of 30th to 9:30 a.m. 31st. Two inches fell from 4:30 p.m. to 6:30 p.m. Flooding damage to basements and washing of streets and roads.
										Hail at Denton, Fergus County, fell from 3:30 p.m. to 3:45 p.m. in an area 3-4 miles wide and 6-7 miles long. Hailstones varied from 1/2 to 3/4 inch in diameter. Crop damage about \$60,000.
										Near Nohly, Richland County, at 3:00 p.m. hail hit a 3-by-10-mile area. Hailstones ranged up to the size of medium eggs, some building damage. Crops not far enough advanced to sustain severe damage.
										North of Scobey, during afternoon, hail stones were large as golf balls, and accumulated to a depth of one foot in a place or so. No damage reported.
See reference notes at end of table.										
NEBRASKA										
Nebraska City	5	1:15 pm	short narrow		0	0	4	0		Wind
										Airport hangar destroyed. Plane blew into trees
Richardson County	7	8-8:30 a	20 * 2		0	0	4	0		Wind, some hail
										From near Verdon to Rulo. Destroyed several barns and small buildings, damaged roofs of others, uprooted trees.
SE of North Platte	7	5:08 p.								Funnel cloud aloft
										Funnel cloud sighted SE of North Platte
Maywood	13	1:00 a.	short narrow		0	0	4	0		Wind and hail
										Hail 1 1/2 inches diameter broke windows and damaged roofs. Wind overturned small buildings, corn bins and a trailer house.
5 mi. W Hastings	13	6:30 p.								Funnel cloud aloft
Vicinity Grand Island	13	7-7:30 p	3-3/4 50-100		0	0	3	0		Hail
										Stone diameter averaged 3/4 inch, ranged up to 1-1/4". Storm moved from south-southwest to north-northeast.
3 mi. SE Grand Island	13	7:15 p.	short narrow		0	0	4	0		Tornado
										Four sets of farm improvements destroyed.
Panhandle	13-14	-	130 * 100		0	0	5	0		Wet snow, sleet, and wind
										Snow and sleet stuck to poles and wires as it fell, high winds then did extensive damage to telephone and power systems.
Vicinity of Newark	21	?	?	?	0	0	5	0		Heavy rain with local flooding
										Major damage to roads in area.
35 mi. ENE Chadron	22	3:10 p.								Funnel cloud aloft
										Viewed by public and pilot
34 mi. west Sidney	29	11:07 p.								Funnel cloud aloft
										Reported by public.
10 NW Scottsbluff	30	2:47 a.								Funnel cloud aloft
Vicinity of North Platte	30	5:00 a.	?	?	0	0	?	?		Hail
										Hail ranging from 1/4" to 3/4" diameter nearly covered the ground in spots.
SE Nebraska	30	9:30-10:00 a	20 * 3		0	0	4	4		Hail
										Several strips in Otoe, Johnson and Nemaha Counties. Stones averaged about 1" diameter ranging up to 3 inches. Ground covered in some areas. Storms moved SW to NE
Omaha	30	Noon	?	?	0	0	?	?		Hail
										Stones ranged to 3/4" diameter
Vicinity Valentine	30	6:25-7:15 p.	?	?	0	0	5	4		2 tornadoes, funnel clouds, hail
										Numerous funnel clouds were sighted with at least two reaching the ground for brief periods with damage to windmills, haystacks, telephone and power lines; no building sites were struck. More damage was done by the severe hail that ranged up to 3 inches diameter.
Northern Custer & Valley Counties	30	5 - 6:35p	40 narrow		0	0	5	4		3 Tornadoes; Numerous funnel clouds
										Tornado first observed in the vicinity of Anselme about 5:00 p. and apparently moved eastward, passing near Gates, Sargent, to a point northwest of Ord by 6:35 p. Major damage along this line with two farmsteads being completely demolished, with the debris carried completely away from one of them. Elsewhere along this line over 30 cattle were killed in open fields, 1 automobiles, 2 trucks and a pick-up truck destroyed, a tractor torn asunder with parts strewn in opposite directions, etc.. Other sidelights included three tires blown out on one car and a vigorous shelter belt reduced to tree trunks and main limbs. It appears that most of the damage was done by the main tornado as it moved slowly eastward (estimated at 20-25 miles per hour), but many observers reported 3 or more funnels aloft visible at the same time. One observer reported three funnels touching the ground at the same time. Hail ranging up to 2-1/2 inches diameter added to the damage at scattered areas.
Northeastern Nebraska	30	8:14 p. & later	?	?	0	0	4	3		Hail & lightning
										At 8:14 p. half inch hail and high wind was noted at Norfolk, followed by severe electrical storms with numerous strikes in Pierce, Dodge and Burt Counties.
E Grand Island	30	8:50 p.								Funnel cloud aloft
Panhandle	31	2:30-6 p	90 * 70		0	0	?	4		Hail
										Scattered areas of hail from Kimball and Cheyenne Counties northward to Box Butte Counties. Stones ranged up to 1 1/2 inches and in spots covered ground to depth of 4 inches.
5 - 7 mi. SE Grand Island	31	9:21 p.								Funnel cloud aloft
Southeastern Nebraska	31	8 - 11 p.	70 * 20		0	0	4	?		Wind and funnel clouds
										A series of wind storms were reported beginning at Superior at 8:30 p. and progressing eastward to Beatrice by 10:00 p. Damage to trees, roofs and small buildings. Numerous funnels aloft were sighted, including reports from Edgar, Reynolds and Fairbury.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEVADA Contact, Elko County	31						1		Hail
		Hail up to 3/4 inch in diameter; only minor damage reported.							
NEW HAMPSHIRE Lancaster	2	Early a.			0	0	4	0	Electrical
		Ten cows in barn killed by lightning. Three others unharmed.							
Statewide	31	a.m.			0	0	0	5	Frost
		State Agricultural Commissioner estimated crop loss at \$500,000. Subfreezing minima were general throughout the State with readings mostly in the 20's. Lowest reported was 15° at Crafton. These temperatures were the lowest, or nearly so, of the current month, and, in many cases, were the lowest ever recorded so late in the season.							
NEW JERSEY Burlington County	26	11:20a							Funnel Cloud
		A funnel cloud not touching ground was observed by a pilot in vicinity of Midford, about 15 miles east of Camden.							
NEW MEXICO Bacon	3	10:00 pm			0	0	4	0	Hail
		Three separate storms continuing until early morning of the 4th. Hail stones reported up to 1 inch in diameter. Principal damage to neon signs, roofs and windows.							
Lea County (northern)	18	pm			0	0	0	4	Hail & heavy rain
		Considerable damage to cotton in Tatum-McDonald-Crossroads area. Hail stones up to 3/4 inch in diameter reported.							
Loving & vicinity	18	pm			0	0	0	4	Hail
		300 acres of cotton total loss and heavy damage to additional 700 acres in Loving-Otis area. Hail storms reported up to 1 inch in diameter.							
Roswell & vicinity	22	11:00 pm			0	0	0	5	Hail
		Heavy damage to 3000 acres of barley, cotton and alfalfa with light to moderate damage to another 8000 acres.							
Forrest (near)	23	6:30 pm	4	50	0	0	0	0	Tornado
		Tornado moved from northwest to southeast over open country with only minor damage to hog house and fences.							
Boy	28	pm			0	1	0	0	Lightning
		Boy sustained minor injury when struck by lightning.							
Las Vegas (near)	30	pm			0	1	3	0	Lightning
		Cowboy injured and horse he was riding was killed by lightning.							
Lovington (near)	30	8:00 pm	1	25	0	0	4	4	Tornado and hail
		Tornado travelled from Southwest to Northeast and touched ground intermittently. Destroyed 3 barns and other outbuildings. Power and telephone lines down. Crop damage due to hail.							
NEW YORK Sullivan County, just east of Liberty	9	8:10 p.m. EDT	8	250	0	3	6		Tornado
		Associated with severe thunderstorms, heavy rain and hail. Storm path southwest to northeast, along a line about 8 miles in length, storm appeared to be striking across line of direction and skipping. Five or six areas of severe damage in a vacation resort area; 3 large resorts suffered almost total destruction; heavy blow-down of trees; about 50 structures damaged. No serious injuries, mostly shock.							
Cattaraugus County, near hamlet of Ashford Hollow	15	8:30 p.m. EDT	3-4		0	0	5		Tornado
		Tornado moved southwest to northeast, skipping along line some 3 or 4 miles in length. Several areas of limited destruction. Destruction to farm buildings, implements and trees. Funnel traveled across barn with total destruction.							
NORTH CAROLINA Cumberland, Forsyth, Robeson Counties	9	11:00 a.-2:00 p.					4	4	Wind, Hail
		Wind damaged roofs, trees, plank fences. Hail damaged crops, mostly tobacco.							
Cherokee, Surry Counties	11	3:00 p.					3	3	Hail
		Some damage to roofs and windows in Murphy area, Cherokee County; scattered crop damage over 5 sq. mi. of Surry County.							
Thomasville area, Davidson County	11	4:00 p.	1/2	25	0	0	2	0	Tornado
		No funnel seen, but line of trees blown down indicates probable tornado moving northeast in area north of Thomasville. Little damage except to trees.							
NORTH CAROLINA (Cont. d.) Bertie, Bladen, Brunswick, Duplin, Gates, Greene, Lenoir, Pasquotank, Pender Counties	16	4:00 p.-10:00 p.					4	5	Hail, Electric
		Greatest property damage at Southport, Brunswick County. Greatest crop damage in Greene County. Hail up to one inch diameter at Southport, many windows broken. Mostly marble size or smaller elsewhere, with main damage to tobacco crop. Two farm houses damaged by fires caused by lightning.							
NORTH DAKOTA Drayton	31	2:00 p.							Funnel cloud aloft
OHIO Edon	6	9:40 PM	40	500	0	0	4		Tornado
		Most of the path followed by this tornado lay in Indiana, its width and length being estimated by a resident near Edon. After crossing the border into Ohio, its path of destruction was scarcely 3 miles long. This was a hit-skip storm whose major damage was done in the Hamilton Lake area (Indiana). It passed just north of Edon, and in this area numerous barns and a few farmhouses were destroyed, or suffered extensive damage.							
Coshocton	8	5:00 PM	Short	100	0	0	3	0	Tornado
		This very small tornado destroyed an outdoor movie screen. The owner saw debris rotating in mid-air below what he called a "ball-cloud". The screen and some related equipment were the only real casualties. However, damage of similar nature and intensity occurred near Warsaw, and West Lafayette where barns were demolished.							
Mt. Orab	8	2:00 PM	16	100	0	0	3	0	Tornado
		This storm track, of spotty nature, extended from Bethel to south-central Highland County, doing damage to trees and roofs, including complete removal of a house roof at Mt. Orab. A definite report of typical funnel cloud was given by Mt. Orab Chief of Police.							
Tuscarawas	8	5:30 PM	5	Narrow	0	0	4	0	Tornado
		Witnesses in this area reported seeing two small funnels some 50 ft. in diameter and 200 ft. apart. Damage was done mainly to small out-buildings, trees, utility lines, etc. and paths through groves of trees were visible. The three storms listed above for May 8 were definitely identified by meteorologists as tornadoes. They were, however, only three of many similar storms reported the same afternoon along a 200-mile path from Bethel and Mt. Orab in the southwest to just south of Youngstown in the northeast. Damaging winds were reported from other widely separated places along the path, including Circleville, Canal Winchester, Millersport, Lima, West Chester, Dover, Rainier, Leaville, Freesport, Cadis, Halvers, Salem, East Canton and Massillon. Over most of the distance traversed by this group of severe thunderstorms the path was scarcely 10 miles wide, but after coming over the eastern hills it widened to around 40 miles - between Massillon and Cadis. The type and severity of damage was almost uniformly the same - consisting mostly of light structural damage, broken trees and signs, trailers blown over, etc. plus a few farm buildings, garages and small structures completely demolished. With few exceptions debris was carried only toward the northeast, including that from storms definitely identified as tornadoes. Local flooding resulted from heavy rainfall in numerous places.							
Lockbourne AFB	15	2:06PM							Funnel aloft
Akron	15	3:36PM							Funnel aloft
Zanesville	15	3:30PM	3	500	0	0	5	0	Windstorm
		This "tornado-like" storm in which winds were measured at 60 MPH at the Zanesville Airport, hit on the north side of the city, doing its greatest damage in the Terraces and Putnam sections. Trees were uprooted, utility lines were downed and there was considerable roof damage.							
Warren	15	6 PM			0	Few	4	0	Windstorm
		A severe thunderstorm, accompanied by up to 75 MPH winds and heavy rain, struck in the Warren-Hiles area blowing trees and utility lines down and doing considerable roof damage. Its most destructive force was felt in Lather Trailer Park where one trailer home was demolished and three others blown over. Flash flooding also resulted from heavy rainfall.							
OKLAHOMA Comanche, Stephens County	3	2:00 a.	7	30	0	0	3	0	Tornado
		Funnel not observed but loud roar heard and shed destroyed.							
Cheyenne, Roger Mills County	3	7:05 p.	7	7	0	0	7	7	Hail
		Golf ball sized hail covered the ground in the Cheyenne area. Considerable property and crop damage resulted.							
Cheyenne, Roger Mills County	4	3:00 p.	25	200	0	0	4	4	Tornado, hail
		Large tornado moved from southwest of Cheyenne to northeast of Strong City. The huge funnel was observed from many surrounding							

See reference notes at end of table.



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (Cont'd.)									
									communities for about 40 minutes. The only destruction was to a few outbuildings, an abandoned house and school house, utility lines and fences. Two smaller funnels were observed rotating around the main funnel. Hail, some larger than baseballs, caused considerable damage to property and crops along a path 2 miles wide and 20 miles long.
Arnett, 7 miles south, Ellis County	4	p.m.	?	?	0	0	3	0	Tornado, funnel aloft
									Outbuildings were destroyed and trees uprooted on a farm. Funnel was sighted southwest of the City.
Leadsey, Dewey County	4	4:00 p.	1	400	0	0	3	4	2 Tornadoes, hail
									Outbuildings were destroyed and two business buildings were unroofed in Leadsey. Storm moved eastward across town. One-inch diameter hail fell in the area. Second funnel dipped on the north edge of town.
Washita, Custer, Dewey, Blaine, Canadian and Kingfisher Counties	4	4:00-8:00 p.	?	?	0	0	4	6	Hail
									Variable hail up to 2 inches in diameter with some larger chunks caused considerable damage and destruction over extensive portions of the six-county area of the west-central portion of the State. Crop damage was especially severe and was the most extensive in Custer County.
Woodward and Woods Counties	4	p.m.	?	?	0	0	?	?	Hail, rain
									Severe thunderstorm produced golf ball sized hail and heavy rain of over 3 inches from north of Mooreland to east of Wynoka. Only minor damage resulted.
Foss, Washita County	4	5:00 p.			0	0	0	0	Funnel aloft
									Moved from Foss toward Arapaho in Custer County.
Geary, Blaine County to south of Kingfisher, Kingfisher County	4	5:40 p.	30	800	1	0	5	0	3 Tornadoes
									The tornadoes formed west of Geary and moved northeastward through northwest Canadian County to northwest of Okarche and to south of Kingfisher in Kingfisher County. Over a score of farmsteads were severely damaged or destroyed. One person was killed in a demolished building. The main tornado would form, spread out and lift and do this over again according to witnesses. Other funnels formed from the same thunderstorm and one witness reported three tornadoes on the ground at the same time. One farmstead was struck by two tornadoes within 5 minutes. Heavy hail (reported separately) fell along the tornado path.
Piedmont, Canadian County	4	6:45 p.	?	?	0	0	3	0	Tornado, hail
									Tornado moved from south of Okarche southeastward to Piedmont. Several farmsteads were damaged and part of the school was unroofed at Piedmont. Hail up to 2 inches in diameter broke 70 windows in Piedmont.
Fairfax, Osage County	4	6:45 p.			0	0	0	0	Funnel aloft
									Observer at Ralston reported funnel aloft over Fairfax.
Tinker Field, Oklahoma County	4	7:00 p.			0	0	0	0	Funnel aloft
									Military aircraft reported tornado north of Tinker Field. Evidently remained aloft.
Yukon, Canadian County	4	8:25 p.	?	?	0	0	0	0	Tornado
									Police reported tornado on the ground east of El Reno and north of Yukon. Evidently struck in open country as no damage reported.
Ada, Pontotoc County	4	9:55 p.			0	0	0	0	Funnel aloft
									Reported by Ham Radio operator.
Raichert to Howe, LeFlore County	5	5:20 p.	16	400	16	58	5	0	Tornado
									Tornado touched down one mile south of Tahihina and destroyed outbuildings on a farmstead. It then lifted and passed 12 miles over Winding Stair Mountain and it is believed that the same tornado struck the communities of Raichert and Howe. Both cities were extensively damaged. At least 70 homes were destroyed or damaged where the deaths and injuries occurred. The storm moved northeastward.
Madill, Marshall County	5	6:20 p.			0	0	0	0	3 Funnels aloft
									Two funnels were sighted over Madill and another to the southwest.
Hugo, Choctaw County	5	6:30 p.	?	?	0	0	4	0	Tornado, funnel aloft
									Tornado struck the east edge of Hugo. Two large buildings were unroofed and many large trees were uprooted. A funnel aloft was sighted northwest of Hugo. Storm moved northeastward.
Bethel, McCurtain County	5	8:00 p.	8	400	0	0	0	5	Tornado
									Tornado destroyed timber in the mountains north of Bethel in an irregular path.
Pusmataha, Choctaw, McCurtain Counties	5	p.m.			0	0	4	4	Rain
									Heavy rain of 3 to 7 inches fell from the Choctaw-Pusmataha County line eastward into McCurtain County. Flash flooding damaged property, roads and crops. Over 200 cattle were lost.
OKLAHOMA (Cont'd.)									
Stilwell, 6 miles west, Adair County	6	3:00 p.	3/4	10	0	0	3	0	Tornado
									Farmsteads were damaged and fences and timber torn up.
Frederick, Tillman County	6	6:00 p.	5	* 1 1/2	0	0	5	4	Funnel aloft, hail
									Funnel aloft was sighted south of the city as hail up to 4 inches in diameter fell in the immediate area. Homes, buildings, autos and crops were severely damaged.
Howe, LeFlore County	6	9:30 p.	?	?	0	0	0	0	Tornado
									Civil Defense spotters reported funnel touching ground southeast of Howe. No further information available.
Moore, Cleveland County	6	11:50 p.	?	?	0	0	0	0	Tornado
									Police Department reported tornado crossed highway between Moore and Norman. Evidently struck in open country.
Bristow, 12 SSE, Creek County	7	12:30 a.			0	0	0	0	Funnel aloft
									Ham Radio operator reported tornado but evidently remained aloft as no damage reported.
Moore, Cleveland County	7	12:45 a.	?	?	0	0	0	0	Tornado
									Weather Bureau observer at Will Rogers Field sighted funnel aloft east-southeast of station. Tornado touched down near Moore. No damage reported.
Shawnee, Pottawatomie County	7	12:55 a.			0	0	0	0	Funnel aloft
									Police Department reported tornado northwest of Shawnee. Evidently did not reach the ground as no damage reported.
Porter, Wagoner County	7	4:00 a.	?	?	0	0	0	0	Tornado
									Tornado was reported to have struck in an isolated area.
Stillwater, 8 miles SW, Payne County	7	11:40 a.			0	0	0	0	Funnel aloft
									Highway Patrol made report.
Pawnee, Pawnee County	7	2:15 p.			0	0	?	?	2 Funnels aloft, hail
									First sighted east of Pawnee and second was sighted at 3:10 p. to the west of Pawnee. Hail up to 1 1/2 inches in diameter fell west of Pawnee.
Noble and Kay Counties	7	5:30 p.	?	?	0	0	5	5	Hail
									Hail up to the size of baseballs caused extensive damage to property and crops across southern Kay County and northern Noble County.
Pawhuska, 10 miles west, Osage County	7	6:06 p.	?	?	0	0	4	0	Tornado
									Tornado cut a wide path through blackjack timber from southeast of Fairfax to north of Pawhuska. One farmstead was completely destroyed and 1 1/2 miles of utility lines were blown down.
Bartlesville, Washington County	7	8:00 p.			0	0	0	0	2 Funnels aloft
									Sighted in the area by spotters.
Bluejacket, Craig County	7	9:05 p.	7	400	0	1	5	0	Tornado, hail
									At least 14 farmsteads were destroyed or badly damaged west and north of Bluejacket. Man was injured when his house trailer was demolished. Utilities and trees were heavily damaged. Hail up to 3/4 inch in diameter was reported in Ottawa County.
Cleo Springs, 5 miles northeast, Major County	7	10:15 p.	5	?	0	0	4	0	Tornado, wind
									Farmstead was severely damaged and at least 20 utility poles were knocked down. Winds caused general damage in the area.
Woods and Alfalfa Counties	7	11:00 p.	20	10	0	0	?	4	Hail
									Hail up to one inch in diameter caused considerable crop damage in the area from Hopton to Carmen.
Kremlin, Garfield County	7	11:30 p.	5	400	0	0	5	5	Tornado, hail, wind
									Several farmsteads were damaged and an electric substation was nearly destroyed just west of Kremlin. Hail up to 2 inches in diameter caused spotted variable damage over the county, mostly to crops. Widespread wind damage was also noted.
Noble, Pawnee, and Osage Counties	8	12:30 a.	20	*9	0	0	5	4	Hail, tornado, 2 funnels aloft
									Hail up to the size of baseballs caused extensive damage to crops from eastern Noble County to south-central Osage County and southward into Pawnee County. Heaviest damage was in the Ralston-Fairfax area. Three funnels aloft were sighted in the Fairfax area. One was reported to have touched the ground but no damage was reported.
Tecumseh, 5 miles south, Pottawatomie County	8	1:50 a.	?	?	0	0	0	0	Tornado
									Highway Patrol reported tornado hit in open country.

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (Cont'd.)									
Alluwe, Nowata County to Chelsea, Rogers County	8	2:00 a.	?	?	0	0	4	?	Hail, wind
									Hail the size of baseballs smashed roofs, dented autos and broke windows. Strong winds caused general damage in the area to trees, utilities and TV antennas.
Salina, Mayes County	8	a.m.	?	?	0	0	3	0	Tornado
									Police reported tornado damaged a farmstead.
Dustin, Hughes County	8	2:30 a.	2	?	0	0	4	0	Tornado
									Tornado damaged 8 farmsteads southwest of Dustin. Storm moved northeastward.
Stillwell, 4 miles east, Adair County	8	3:40 a.	?	200	0	0	4	0	Tornado
									Buildings were destroyed, moved and unroofed and trees were uprooted. Storm moved southeastward.
Madill, Marshall County	8	9:30 a.	?	?	1	1	4	0	Wind
									Winds estimated up to 80 to 90 miles per hour toppled an oil rig. One worker was killed and one slightly injured.
Grove, Delaware County	8	10:30 a.	?	*2	0	0	5	4	Hail
									Severe hail storm with stones up to 3 inches in diameter caused heavy damage in the Grove area and to the east and southeast.
Northeast Portions of State	4-8				0	0	5	5	Rain
									Widespread heavy rains caused extensive damage from washing and flooding throughout much of the area.
Duncan, Stephens County	13	7:15 p.	?	?	0	0	3	0	Tornado, funnel aloft
									Funnel aloft was sighted south of the city and a tornado struck the north edge of Duncan causing damage to an amusement park and outbuildings.
Tillman and Cotton Counties	16	7:30 p.	30	*10	0	0	4	5	Hail, 2 Tornadoes
									Hail as large as softballs caused extensive damage to property and crops across most of southern Tillman and Cotton Counties. Two tornadoes were reported near Davidson in Tillman County but evidently caused no damage.
Beckham and Washita Counties	16	8:15 p.	?	?	0	0	5	6	Hail, wind
									Heavy hail with stones 2 to 4 inches in diameter wrecked property and crops from northwestern Beckham County eastward and south-eastward to western and southern Washita County. Some livestock were killed near Sweetwater in Beckham County. Some widespread wind damage was noted.
Verden, Grady County	16	10:57 p.	?	?	0	0	0	0	Tornado, funnel aloft
									Highway Patrol reported two funnels near Verden. One struck the ground for a short period in open country but no damage resulted.
Fort Sill, Comanche County	16	11:25 p.			0	0	0	0	Funnel aloft
									Fort Sill weather station reported funnel aloft northeast moving east.
Kiowa, Caddo, Comanche and Stephens Counties	16-17	11:00 p.-1:30 a.	40	*5-15	0	0	6	5	Hail, wind
									Severe thunderstorms with damaging winds and hail moved from eastern Kiowa County, across much of Comanche, Caddo and Stephens Counties and ended in northwest Carter County. Hail up to 3 inches in diameter caused up to 100% crop damage and it took a heavy toll of roofs and windows. Some trees had the bark beaten off. Winds caused general damage to roofs, trees, TV antennas, etc. Heaviest wind damage was 10 miles east of Lawton where two trailer houses were destroyed and a house was unroofed.
Norman, Cleveland County	17	5:30 p.	?	?	0	0	0	0	Hail
									Hail the size of golf balls was reported. No apparent damage as fall was not concentrated.
Konawa, Seminole County	17	10:00 p.			0	0	0	0	Funnel aloft
									Two funnel clouds were reported aloft over Konawa.
Tinker Field, Oklahoma County	18	2:00 a.	?	?	0	0	0	0	Hail
									Hail 1 1/2 inches in diameter was reported south of the field. Evidently no damage resulted as no further information available.
Wister, LeFlore County	18	3:00 a.	?	?	0	0	6	?	Rain
									Heavy rains of over 5 inches in the mountains sent a 4-foot wall of water down Mountain Creek into Wister where the flood reached 8 feet deep and 84 homes and 32 business buildings were flooded. Over 200 head of cattle were drowned.
Vinita, Craig County	19	a.m.	?	?	0	0	?	?	Rain
									Up to 6 inches of rain caused flash flooding in the area.
OKLAHOMA (Cont'd.)									
Hallett, Pawnee County	21	10:45 a.	?	?	0	0	?	?	Hail, wind, rain
									Hail up to one inch in diameter was reported in the area. Strong winds damaged several farmsteads. Heavy rain fell during the storm.
Tulsa, Wagoner and Muskogee Counties	21	1:30 p.	?	?	0	0	4	4	Wind, hail, rain
									Severe thunderstorms with strong winds and hail caused widespread damage in southern Tulsa County, western Wagoner County and northern Muskogee County. Up to 90% crop damage resulted.
Oklahoma City, 12 miles northwest, Oklahoma County	21	2:53 p.	?	?	0	0	4	0	Tornado, hail
									Public reported tornado on the ground. No damage was reported. Hail up to 1 1/2 inches in diameter damaged roofs and autos in northwestern Oklahoma City.
Tinker Field, Oklahoma County	21	3:44 p.			0	0	0	0	Funnel aloft
									Weather observer sighted funnel about 20 miles north.
Thomas, 8 miles southeast, Custer County	21	3:45 p.	?	?	0	0	0	0	Tornado
									Ham Radio operator reported tornado struck ground 3 times. No damage reported.
Hitchcock, 5 miles south, Blaine County	21	4:15 p.	8	100	0	0	3	4	Tornado, hail
									Five farmsteads were damaged. Hail up to one inch in diameter caused up to 100% crop damage.
Cushing, 2 miles south, Payne County	21	4:15 p.	?	400	0	0	5	4	4 Tornadoes, hail, wind
									Four tornadoes were reported on the ground south of Cushing. Three farmsteads were destroyed, a hangar was damaged at the airport and a warehouse was unroofed on the east edge of town. Hail up to the size of tennis balls caused extensive property damage in Stillwater and across southern Payne County and crop damage west of Stillwater. Strong winds up to 80 miles per hour caused general damage in the area.
Shawnee, Pottawatomie County	21	5:15 p.	?	?	0	0	6	0	Hail, wind
									Hail up to 2 inches in diameter battered roofs, autos, neon signs, greenhouses, trees, shrubs and gardens. Heaviest damage was to west and north sections. Strong winds extended eastward through Seminole County into northern Hughes County where widespread damage resulted.
Anadarko, 3 miles northwest, Caddo County	21	5:33 p.	?	?	0	0	?	?	Tornado, hail
									Tornado was reported near Anadarko. One half hour later a funnel aloft was sighted moving northeastward from the same general area. The tornado evidently remained on the ground only a short time as no damage was reported. Hail near baseball size covered the ground at Eskley.
Oklahoma City, Oklahoma County	21	6:03 p.	?	?	0	0	3	0	Tornado, hail
									Tulakes Airport tower reported tornado 2 miles west. Wind reached 78 miles per hour at the airport. No damage was reported in area where tornado was spotted. Probably lifted and dipped again in northwest Oklahoma City where a house was unroofed and trees were blown down in Bethany and Warr Acres. The roof was spun around in the air. Golf ball sized hail was reported in southwestern section of Oklahoma City just before 7:00 p.m. Hail damage apparently was minor.
Maysville, Garvin County	21	7:00 p.	?	?	0	0	?	?	Hail, wind, rain
									Hail larger than golf balls damaged roofs and crops in Maysville and surrounding area. Winds up to 75 miles per hour caused spotted damage.
Norman, Cleveland County	21	7:00 p.			0	0	3	0	Funnel aloft, wind
									Highway Patrol had a report of a funnel sighted east of Norman. Winds up to 85 miles per hour caused general damage to signs, trees, etc. in Norman and a barn was unroofed 10 miles southeast of Norman.
Ringling, Jefferson County	21	p.m.	?	?	0	0	?	?	Hail, wind
									Hail up to the size of hen eggs damaged roofs, autos and windows in Ringling. Winds caused damage eastward into Carter County at Lone Grove.
Hulen, Cotton County	21	7:30 p.	?	?	0	0	?	?	Hail
									Some hail up to the size of hen eggs caused minor damage in a two-square mile area south of Hulen.
Fairland, Ottawa County	21	7:40 p.	?	?	0	0	3	0	Tornado
									Utility lines were blown down.
Slick, Creek County	25	5:40 p.	?	?	0	0	4	0	Tornado
									Tornado destroyed trees 8 miles west of Eristow, lifted and struck again near Slick where a barn was destroyed.

See reference notes at end of table.

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MAY 1961

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					KILLED	INJURED	PROPERTY	CROPS		
OREGON			None reported							
PENNSYLVANIA										
West Central Counties	8	Evening			4	4			Thunderstorms	Strong winds moved several homes off their foundations and demolished several others along with 2 house trailers. Three persons were injured when a house trailer overturned. One boy was injured when a baseball dugout was blown down. Minor but extensive wind damage was reported throughout the area.
State-wide	9	Night			1	5	2		Thunderstorms	Violent thunderstorms were felt in many areas across the State as high winds, rain and hail smashed windows, toppled trees, unroofed buildings and flooded numerous low-lying roads. Hail stones the size of golf balls fell in the Wilkes-Barre area. High winds blew in a number of large plate-glass windows and downed numerous signs, billboards and buildings. In Mifflinville the roof of the auditorium of the junior high school and the roof of a factory building were torn off by high winds with estimated damage at \$30,000. Near Collegeville a house trailer was rolled over injuring the occupant. Several buildings were fired by lightning. Crops in several fields were flattened by the high winds.
Lancaster	26		?	?	3	3			Tornado	The small tornado damaged ceilings and broke glass windows and doors at the Lancaster Township Junior High School. The flying glass inflicted minor cuts to 3 children in the school yard. The strong winds felled a number of trees and scattered loose objects in its path.
PUERTO RICO			None reported							
RHODE ISLAND			None reported							
SOUTH CAROLINA										
Marion County, from Centenary to a few miles ENE of Pee Dee	10	1:50 p - 2:10 p	10	300/100	0	1	3	0	Windstorm	
Inman-Gramling area, Spartanburg County	11	2:15 p - 2:40 p			0	0	0	5	Hail	Two to three thousand acres of peaches wiped out. Size of hail 1/2 to 1 inch. Ground was covered.
Cleveland, 6 E	11	7:00 - 7:30 p			0	0	0	3	Hail	Severe hail storm. Road covered with marble to golf ball sized hail.
SOUTH DAKOTA										
Vale, Butte County	10	6:20 p.m. to 6:40 p.m.	2	Narrow			3		Tornado	Sheep shed unroofed and 300 feet of powerline torn down at one farm. Long cattle shed about two-thirds destroyed later at second farm about two miles away. Remaining portion of cattle shed relatively little damage and nearby stack of hay untouched. Funnel cloud observed. Direction of movement toward northeast.
Pierpont, Day County	11	Late a.m.			1				Electrical	Man working in machine shed was struck by lightning and rendered unconscious; recovered in hospital after treatment for shock.
Tyndall, Bon Homme County (near)	14	12:45 p. m.	1/4	60			3		Tornado	Tornado, moving toward the southwest, demolished double garage and partially damaged a machine shed and two nearby automobiles. Farm owner described sky as very dark and noted a whistling sound momentarily before storm struck. No funnel cloud seen.
Bon Homme County	14	1 p.m. to 8 p.m.					4		Rain, electrical, hail	Heavy rain caused extensive flooding of stores, homes and streets in town of Scotland. Unofficial measurement of 7.5 inches of rain within five and one-half hours. Elsewhere in county two heifers were killed by lightning at Tyndall. Hail up to one inch diameter reported at several points but damage to property and crops was minor.
TENNESSEE										
Capleville, Shelby County	8	4:00 p.			0	6	?	0	Wind	One house was destroyed, another house was damaged, several barns were demolished, six small buildings were unroofed and several trees were uprooted. In the house that was destroyed a man suffered a broken leg and 8 women and 2 children sustained minor cuts and bruises.
TENNESSEE (Cont. H.)										
Logan Lake, McNairy County to Enville, Chester County	8	5:21-5:35 p.	20	300	0	0	5	0	Tornado	Storm moved from Logan Lake area to Finger and thence to Enville. Three homes were destroyed, several roofs were damaged and many trees were uprooted. Two funnels, 1/2 mile apart were observed in the Logan Lake area.
Fort Campbell, Montgomery County	8	7:15 p.			0	1	0	0	Lightning	A soldier operating a field-type telephone was hospitalized when lightning struck him or struck near him.
Franklin (near), Williamson County	8	7:15 p.			0	0	0	0	Hail	Hail up to 3/4 inch was reported.
Daisy, Hamilton County	8	Evening			0	1	0	0	Lightning	A young man was knocked 15 feet to the ground, sustaining cuts and bruises, when a tree in which he was climbing was struck by lightning.
Stewart, Houston County	15	After-noon			0	0	4	0	Lightning	A home and its contents were completely destroyed by fire after being struck by lightning.
Greenbrier, Robertson County	18	5:55 a.			0	0	4	0	Lightning	Lightning, entering a department store via electrical lines, ignited the store causing extensive damage.
TEXAS										
Near Mansfield Tarrant County	1	12:00 a.							Funnel aloft	
Nacogdoches Nacogdoches County	1	4:30 p.-5:30 p.	15	#5	0	0	5	0	Wind, hail	6 airplanes and 2 hangars were demolished by strong thunderstorm winds measured at 65 mph at Nacogdoches Airport. In Nacogdoches, a drive-in theater screen, and several garages and barns were blown to the ground. Hundreds of windshades were broken by hail that accompanied the storm. Hailstones averaged 1 inch in diameter with largest stones 1 1/2 inches. The storm moved from NW toward SE. Wind damage \$200,000, hail \$100,000.
Dickens and King Counties	3	afternoon	37	?	0	0	0	0	Tornado	Tornado moved through open ranch country from about 10W Dickens Southeastward to about 10S Buttsville.
Near Claude Armstrong County	3	5:00 p.	20	200	0	0	0	0	Hail	Covered Palo Duro Canyon and ranch country south and southwest of Claude. Average hailstones 2 inches in diameter.
Matador Motley County	3	5:00 p.-5:30 p.	7	#5	0	0	4	3	Hail	Hail with average stones 1 inch in diameter fell in 5 mile wide strip from Matador eastward for 7 miles. Largest stones 2-3 inches in diameter. The ground was 50% covered. Roof damage in Matador accounted for 75% of losses.
Panhandle Carson County	3	5:30 p.-9:00 p.	10	#1	0	0	5	5	Hail	Hail damage extended from Panhandle NW approximately 10 miles. Roof damage was extensive within the city, and many homes suffered screen and window damage. Average hailstones 1/2 inches diameter, largest 1-3/4 inches. The hail covered ground to depth of 2-3 inches. Crop damage was to wheat on 31 farms.
Dougherty Floyd County	3	6:00 p-6:10 p	3	100	0	0	4	0	Tornadoes	Tornado path began about 1 mile north of Dougherty to about 2 miles south, with storm moving from the north. Just north of Dougherty, tornado split into 2 funnels; the larger one missed the town and went to the east; the smaller one moved through town; both touched ground. The smaller tornado destroyed 3 trailer houses, ripped the porch off a home, blew away a barn, and overturned several cotton trailers. About 1/2 of the population of 150 were in storm cellars when the storm struck. Hailstones the size of baseballs were picked up 3 miles north of Dougherty. The larger tornado was about a mile from the smaller one, but moved through open country without causing any damage.
25 W Clarendon Briscoe County	3	6:30 p		short narrow	0	0	0	0	Tornado	Touched ground in open country.
37 SE Fort Stockton Pecos County	3	6:30 p-7:00 p	?	?	0	1	5	0	Tornado	Tornado touched ground at the Johnny Bryan ranch, 37 SE of Fort Stockton, demolishing ranch headquarters, several barns and out-buildings, wrecked 3 trucks, killed several horses, and injured one person slightly. The tornado apparently returned to the air and touched ground again 26 miles E of Fort Stockton on the Ligon ranch, demolishing the ranch house, a windmill and several out-buildings. The injury resulted from flying debris. Heavy hail and light rain accompanied the storm.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (Cont'd.)									
Silverton Briscoe County	3	7:00 p- 7:30 p	8	*7	0	0	4	6	Hail
Hail damaged roofs and automobiles in Silverton, and crops extending from Silverton NE to the Carrock. From 60 and 75% to 100% damage was reported to the wheat crops. Average diameter of hailstones was 1 inch, with largest stones 9 inches in circumference. The storm moved from NE toward SW.									
Dickens Dickens County	3	8:30 p- 9:30 p	?	*7	0	0	0	?	Hail
Hail averaging 3/4-inch in diameter, fell in 7 mile wide strip from 1 mile N of Dickens to 6 miles S. The storm moved from SW toward NE. Ground was covered to depth of 1 1/2 inches; largest stones 1 inch in diameter. Some wheat fields suffered total loss, others about 5% loss.									
Turkey Hall County	3	8:30 p- 8:45 p	2	600	0	0	4	0	Hail
Hailstones averaged 1/2 inches diameter, largest stones 2 inches. Damage confined to roofs of dwellings and business buildings.									
1 1/2 SE Paducah Cottle County	3	Evening							Funnel aloft
Benjamin Knox County	3	9:30 p- 10:15 p	5	*3	0	0	3	4	Hail
Hail, averaging 1/2 inches in diameter, with largest stones 2 1/2 inches in diameter damaged automobiles in Benjamin, and wheat and other small grains in the surrounding area, mostly to the west of Benjamin. Storm movement was from NW toward NE.									
Knox County	3	Night	?	?	0	0	4	?	Hail, wind
Thunderstorm winds demolished 5 cotton warehouses, blew out several plate glass, and blew down TV antennas and signs. Wind damage occurred at about 10 or 12 farms near Knox City. Hail up to golf ball size accompanied the storm, but hail damage was small.									
12 W Paducah Cottle County	3	Night	short narrow	0	0	0	0	0	Tornado
Tornado touched ground on the old Matador ranch in open range country, damaging only mesquites in its path.									
25 E Canadian Hemphill County	4	2:00 p- 2:15 p	short narrow	0	0	0	0	0	Tornado
Tornado moved from SW toward NE along Canadian River near Texas-Oklahoma state line. Storm moved through open rangeland without causing any damage.									
Red River County	4	Afternoon	?	?	0	0	?	?	Tornado
Several farm homes were unroofed and outbuildings blown away. A boat and trailer on Highway 271 were blown loose from a moving vehicle and carried some distance into a field. Windows were blown out of a number of homes. Hail accompanied the storm, with some stones reported as larger than hen eggs.									
Matador Hotley County	4	?	?	?	0	0	?	?	Hail
Hail fell for about 45 minutes accompanied by high winds. Cooperative Observer reported largest stones 3 inches in diameter.									
Belleue Glenn County	5	6:36 p	?	?	0	0	?	?	Hail
Hail up to 1 1/2" diameter covered ground at Belleue.									
Stephenville, 4 W Knox County	5	Night	?	?	0	0	?	?	Hail
Hail averaging 1 inch in diameter stripped fruit trees, and knocked holes in roof of a building. Largest stones were 6 inches in circumference and egg shaped.									
Wilbarger County	6	8:30 p- 9:30 p	3	1	0	0	?	?	Hail
Hail damaged crops in NE part of County. Average diameter of stones 1 1/2", largest 2 1/2".									
12 E Stamford Shackelford County	7	8:55 a- 9:00 a	3	100- 200	0	0	5	4	Tornado
Tornado moved through Berryhill and Cobb Communities 12 to 15 miles E of Stamford. 2 or 3 funnels sighted, only one touched ground. Tornado touched ground at least 4 times, destroying one home and heavily damaging 2 others, along with minor damage to a 1/2. The north-side brick wall was blown out of one home, and the roof lifted off. A hole about 18 inches high and 30 feet long was torn in the east wall. The rear window of an automobile, exploded, with the fragments resembling honeycomb. The roar of the tornado could be heard in Stamford, 12 miles away. Only a few drops of rain accompanied the storm through the Berryhill and Cobb Communities, although Stamford received 1/8 inches.									
5 S Seymour Baylor County	7	11:00 p	Short narrow	0	0	0	0	0	Tornado
Small tornado moved through open country.									
Carson County	8	3:00 a	?	?	0	0	0	?	Hail
Hail up to 1 1/2 inches in diameter severely damaged wheat crop on 4 farms about 6 SW Panhandle.									
Plano Collin County	8	3:27 a- 3:29 a	1	170	0	0	4	0	Wind
Thunderstorm winds blew down 1 concrete block building, damaged 100 roofs, and blew out plate glass windows. Numerous limbs were blown off trees.									
TEXAS (Cont'd.)									
25 ENE Mineral Wells Parker County	13	9:39 p	Moved NE.						Funnel aloft
Wise County	13	9:50 p	First sighted over Reno moving NE.						2 Funnels aloft
Dissipated over Boyd in SE part of county.									
Panhandle Carson County	16	3:00 p- 5:00 p	15	*3	0	0	5	5	Hail
One of the most damaging hailstorms ever recorded for the town of Panhandle. Average hailstones 2 inches in diameter, with largest stones 4 inches. Almost every roof in town damaged, and almost every windowpane fading north broken. More than 200 windowpanes broken in school buildings. Hailstones pierced the sheet metal roof of a business firm, and the tops of some automobiles. Hail covered ground to depth of 6 inches in places.									
2 1/2 SE Panhandle Carson County	16	4:15 p	1/2	10	0	0	3	0	Tornado
Tornado touched ground for only a few seconds, and demolished barn, chicken house, and garage on Harold Knapp farm. The storm moved from NW toward SSE. Severe hailstorm accompanied the same thunderstorm (see Panhandle).									
10 NW Fort Stockton Pecos County	16	4:50 p							Funnel aloft
Fort Stockton Pecos County	16	5:00 p	?	?	0	0	5	?	Tornado, hail
Small tornado demolished skating rink building, blew out windows and damaged roofs in NW portion of Fort Stockton. First damage occurred at the Firestone Test Center, 16 west of the city, where one wall of a building was blown out. 3/4-inch hail damaged crops in the surrounding area.									
Near Toyah Reeves County	16	5:15 p	1	300	0	0	0	0	Tornado, funnel aloft
Tornado touched ground briefly in open country NE of Toyah. One funnel remained aloft. Storm moved from SW toward NE.									
15 SE Pampa Gray County	16	5:30 p	Short narrow	0	0	0	0	0	Tornado
Small tornado touched ground twice in open country. The storm moved from SW toward NE.									
Hardeman County	16	6:00 p- 6:30 p	12	*1 1/2	0	0	5	5	Hail, funnels aloft
Hail averaging 1 inch in diameter, with largest stones 2 inches in diameter covered the ground up to a depth of 4 inches in the Goodlett and North Groesbeck Communities. Wheat crops were damaged from 25 to 100 per cent, and dwellings in the area suffered extensive roof damage. Winds estimated at 45 mph accompanied the storm. 2 funnels aloft were sighted. A roaring noise was heard from one, but neither touched ground.									
Wheeler County	16	6:00 p- 8:30 p	14	*5	0	0	4	4	Hail
Hail damage to property and wheat in Kilton Community. Some wheat 50% destroyed. Average hailstones 1/2 inch in diameter, covered ground to depth of 2 inches. Largest stones 1 1/2 inches in diameter.									
Wilbarger County	16	7:00 p- 8:30 p	10	*2	0	0	?	?	Tornado, wind, hail
Wind and hail damaged crops to the extent of 70 to 100% in a 20 square mile area from about 18 NW of Vernon to 7 NE of Vernon. Hailstones averaged 1 1/2 - 2 inches in diameter with largest stones 3 inches. Heaviest damage was in Northside and Fargo Communities. Windowpanes were broken in scores of homes, and roofs damaged. A small tornado touched ground briefly NE of Wilbarger Airport, demolishing a hen house, and lifting roof from a shed. 4 inches of rain accompanied the storm. 2 other funnels remained aloft.									
Near Elk McLennan County	16	Night							Funnel aloft
Sourry County	18	4:00 p- 6:00 p	10	*10	0	0	5	0	Rain, hail
Up to 4 inches of rain fell at Dmn, Texas, in less than 1 hour, causing considerable loss to field terraces. Hail covered the ground up to a depth of 4 inches. Hailstones averaged 1 to 2 inches in diameter.									
10 W Pecos Reeves County	18	5:05 p- 7:00 p	?	?	0	0	0	0	Tornadoes
2 tornadoes touched ground in open country. The storms moved from SE toward the W.									
Colorado City Mitchell County	18	7:45 p	20	*8	0	0	4	0	Hail
More than 200 homes damaged by hail. Average diameter stones 2 inches, with largest 3 inches. The hail knocked holes in roofs and broke out windowpanes. Several homes in the NE section were hit with such force that interiors of the homes were damaged from hail striking the outside walls. Wind gusts up to 65 mph were reported. Heaviest damage in N and NE sections of the city.									
10 N Dools Coleman County	19	10:10 a	Short narrow	0	0	0	0	0	Tornado
Tornado struck in open country in southern part of Coleman County. Trees were torn down over a small area. Witnesses reported sound "similar to a speeding train."									

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (Cont'd.)									
Lubbock Lubbock County	19		?	?	0	0	?	0	Hail, wind
Hail measuring $\frac{1}{2}$ to $\frac{3}{4}$ inches in diameter fell in south and southwest sections of the city. Largest hailstones measured about $\frac{1}{2}$ inches in diameter in an area near the Methodist Hospital. Winds measured at 51 mph at the Weather Bureau accompanied the hailstorm. One garage and a carport were picked up by the wind and tossed across the street. Some windowpanes in the vicinity were blown out. Limbs were ripped from trees all over the city.									
Bailey County	20	4:00 p- 6:00 p	4	*1 $\frac{1}{2}$	0	0	0	4	Hail
Hail up to $\frac{1}{2}$ inches in diameter severely damaged wheat crops in west central portion of county.									
15 N Hereford Deaf Smith County	20	7:00 p- 8:00 p	6	*1	0	0	0	4	Hail
Average hailstones $\frac{3}{4}$ inches, largest 1 inch. Winds estimated 40-50 mph.									
Littlefield Lamb County	20	7:30 p- 8:00 p			0	0	4	0	Wind
Thunderstorm winds measured at 75 mph damaged an airplane hanger, and demolished 4 large commercial type chicken houses. A well house was demolished and a small water tank torn from its mooring. A 75 foot grain loader was blown across communication lines.									
11 NW Brownfield Terry County	20	8:00 p	Short Narrow	0	0	3	0	0	Tornado
Small tornado lifted roof off country store in Needmore Community. Timbers from the building were driven into residence nearby. A few trees were uprooted. 2.5 inches of rain and $\frac{3}{4}$ inch hail accompanied the storm. People inside the store were not injured.									
12 N Dumas Moore County	20	Evening							Funnel aloft
17 NW Muleshoe Falls County	20	Evening							Funnel aloft
Sighted near Oklahoma Lane Community.									
Archer County	21	8:30 p	20	*15	0	0	0	4	Hail
Hail caused spotted damage to crops over eastern one-half of county. Average hailstones $\frac{1}{2}$ inches in diameter, largest stones $\frac{1}{2}$ inches in diameter.									
Navarro County	22	2:30 a- 3:00 a	3	*1	0	0	?	?	Hail, funnel aloft
Large hail fell in north and northwest portion of county. Largest stones 2-3/4 inches in diameter. One funnel sighted 2:15 a.m. moving from SW toward NE.									
2 S Waxahachie Ellis County	22	8:20 p	?	?	0	0	0	0	Hail
Hail up to $\frac{1}{2}$ inches reported; no apparent damage.									
1 E Waco McLennan County	22	8:30 p							Funnel aloft
8 $\frac{1}{2}$ NW Leakey Real County	22	9:00 p- 10:00 p	25	*10	0	0	?	?	Hail
Crops, automobiles, trucks, and roofs damaged at several ranches in area. Average diameter hailstones 1 inch, largest 3 inches. 119 large dents made in one automobile. Witness heard a loud roar that was heard from 10 to 12 miles away, but did not see funnel. There were no strong winds accompanying the hail.									
Burleson Johnson County	22	11:03 p- 11:18 p	3	*2	0	0	?	0	Hail
Hail, with largest stones 2 inches in diameter severely damaged roofs in the downtown, Tarrant and Summercrest sections of Burleson. 7 large stained glass windows were broken on the west side of a church, and 11 windows were broken on the south side. Some automobile windshields were broken, and many automobiles and trucks dented. All skylights in a new high school building were broken out.									
Near Bristol Ellis County	22	Night	?	?	0	0	?	0	Hail
Hailstones measuring up to 1.5 inches in circumference damaged sheet metal roofs near Bristol.									
NW of Valentine Jeff Davis County	23	4:15 p- 4:30	1/2	* $\frac{1}{2}$	0	0	0	0	Tornado
Small tornado touched ground on the Means' Ranch in open country. It moved from NW toward SE.									
Ganado Jackson County	23	4:50 p	*150	20	0	0	3	0	Tornado
The funnel passed over the main section of Ganado, and touched ground briefly in the SE section, destroying a garage and damaging a roof of a dwelling. The noise was described as like a "swarm of bees." The storm moved from NE toward the S.									
7 E Edna Jackson County	23	Afternoon			1	0	0	0	Lightning
Farmland killed by bolt of lightning while working in cotton field. Six other farmhands at the opposite end of the field were unharmed. The bolt struck the victim in the forehead.									
Polk County	24	Afternoon							Funnel aloft
Victoria County	24		Short Narrow	0	0	0	0	0	Tornado, funnels aloft
A small tornado funnel touched ground briefly in a cotton field in southern Victoria County, about 12 miles south of Victoria. 2 funnels aloft were sighted in the same area, but dissipated about 5 minutes before the tornado formed.									
TEXAS (Cont'd.)									
Near Morton Cochran County	24	9:00 p							Funnel aloft
Funnel came close to the ground near Goodland, traveled north of Morton, and lifted up as it approached Bula.									
Lamb County	24	Night	?	?	0	0	0	0	Tornado
Tornado moved through open country from NE of Bula to E of Amherst. No damage.									
4 E Edna Jackson County	25	10:15 a							Funnel aloft
Funnel estimated 100 feet above ground.									
Austin Travis County	25	1:20 p			1	1	0	0	Lightning
A 12-year-old boy died 12 hours after being struck by lightning. The boy and 35 other boys were on a school playing field in the bottom of a natural bowl scooped out between hills. Most of the boys were knocked to the ground when the lightning struck. The other injury resulted from the fall to the ground, and was not serious. The instructor standing on the rim of the bowl was not injured or knocked down by the lightning.									
Farmer County	25	3:15 p- 5:15 p	35	*1 $\frac{1}{2}$	0	0	0	5	Hail
Hail averaging $\frac{1}{2}$ inches in diameter damaged wheat crop in 1 to 2 mile wide strip across southern portion of county. Hail covered ground to depth of 6 inches in places, with largest stones $\frac{1}{2}$ inches in diameter. The damage extended from northwest of Bovina through the Oklahoma Lane Community southeastward through Lasbuddie.									
20 W Hillsboro Hill County	25	4:00 p- 4:10 p	?	?	0	0	0	0	Tornado
Sighted near Blum. Tornado moved through open country and was in contact with the ground for about 10 minutes.									
Fort Worth Tarrant County	25	Afternoon	?	?	0	0	?	0	Wind
Thunderstorm winds estimated at 80 mph, hail and heavy rain raked the south part of the city with considerable property damage paralleling Betty Street. Damage was mostly from wind toppling billboards, signs, trees, and canopies. Hail broke windowpanes at 2 schools. Up to 2.60 inches of rain fell in the T.O.U. section of Fort Worth.									
Victoria County	25								6 Funnels aloft
6 funnels were sighted in the Victoria area. None touched ground. Winds reached 67 mph in gusts at the DuPont plant about 6 miles SSE of the City of Victoria.									
San Marcos Hays County	25	Evening							Funnel aloft
Funnel formed over the city, but dissipated after about 1 minute.									
Victoria County	25	9:00 p- 11:00 p	20	*2 $\frac{1}{2}$	0	0	3	5	Hail
Hailstones averaging $\frac{1}{2}$ inches severely damaged crops in an area from just north of Mission Valley in northwest portion of county extending southeastward to Buckingham-Placeo line. 1000 acres of milo, corn, and cotton suffered 100% damage, with 50 to 85% damage to 2000 acres. Remaining area suffered light to 50% damage. Largest hailstones $\frac{1}{2}$ inches in diameter. Roofs of homes in the area were severely damaged, and windows on north side of homes broken.									
Cuero Dewitt County	25	10:30 p- 10:40 p	10	* $\frac{1}{2}$	0	0	4	3	Hail
Damaged property and crops from 5 miles north and east of Cuero to 5 miles south and east. Average hailstones $\frac{1}{2}$ inch diameter, largest stones $\frac{1}{2}$ inches in diameter. 30 acres of corn and 3 acres watermelons completely destroyed on L. C. Boothe farm. Several homes suffered broken windowpanes, and roof damage.									
Lynn County	28	7:00 p- 8:00 p	8	*8	0	0	4	5	Hail
Severe hail damage to crops and roofs of homes in 6 $\frac{1}{2}$ square mile area around Draw Community. Average diameter of stones $\frac{1}{2}$ inches; largest $\frac{3}{4}$ inches.									
Balmorhea Reeves County	29	4:00 p- 5:00 p	?	?	0	0	?	5	Hail
Hail severely damaged cotton on about 2900 acres in the Balmorhea area. Loss was estimated at 100% on about 900 acres. A number of roofs on homes and businesses in Balmorhea were also damaged. Hailstones were described as about "golf ball" size and larger.									
6 W Vega Oldham County	30	4:00 p- 4:30 p	12	*1 $\frac{1}{2}$	0	0	0	4	Hail, wind
Damage to wheat from hailstones $\frac{1}{2}$ to $\frac{3}{4}$ inches in diameter, largest stones $\frac{3}{4}$ inches. Winds estimated 60-70 mph.									
Amarillo Potter County	30	6:00 p- 12:00 a	20	*10	0	0	5	0	Rain, hail, wind
Torrential rain, hail, and high wind lashed the city for 6 hours. Damage was mostly from flooding in the S, SW, and SE sections. Amounts of up to 4.54 inches were reported. All underpasses were blocked by high water. Two automobiles filled with persons floated onto lawns and one hit the side of a house. One of these automobiles weighed 1100 lbs. $\frac{1}{2}$ inch hail accompanied the storm with a few stones $\frac{3}{4}$ inches in diameter. A few plate glass windows, and automobile windshields were broken by the hail. Strong winds unroofed one service station.									
3 S Amarillo AFB Potter County	30	7:03 p							Funnel aloft

See reference notes at end of table.

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MAY 1963

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					KILLED	INJURED	PROPERTY	CROPS	
UTAH Union, Salt Lake Co.	11	P. M.			1				Wind
									Strong winds blew over a dead tree, causing severe head and leg injuries to a four-year-old boy.
Summit Park, Summit County	15	Afternoon					5		Lightning
									A lightning-caused fire did extensive damage to 19 motel rooms, 2 apartment units and a garage on the summit of Parleys Canyon.
Salt Lake City area, Salt Lake County	15	Afternoon					2		Hail
									Hailstones 3/4 inch in diameter fell in scattered localities, but little damage reported.
Salt Lake City, Salt Lake County	25	2 P.M.			1				Wind
									A strong whirlwind lifted a woman from the ground, carrying her about 30 feet.
VERMONT Statewide	31	a.m.			0	0	0	5	Frost
									Crop loss estimated at \$500,000. Subfreezing minima were general throughout the State with readings mostly in the 20's. Lowest reported was 19° at West Burke. These temperatures were the lowest, or nearly so, of the current month, and, in many cases, were the lowest ever recorded so late in the season.
U.S. VIRGIN ISLANDS									None reported
VIRGINIA Richmond	9	1:30 PM			0	5			Wind and rain.
									Strong winds knocked down and slightly injured one adult and four children. Very heavy rain accompanied winds.
Halifax, Rockbridge, Louisa, Page and Rockingham Counties	9	1:30 PM-7:30 PM			0	0			Wind, rain and hail.
									Strong winds destroyed at least 12 farm buildings and unroofed 14 others. Many trees were uprooted and utility lines downed. Heavy rain was general, and the cooperative observer in Louisa, Virginia, reported 1.76 inch in about 15 minutes accompanied by hail up to 1 1/2 inches in diameter. Hail was also observed in Page and Rockbridge Counties.
Smythe, Carroll, Mythe, and Grayson Counties	12	1:30-3:00 AM			0	0			Heavy rain and flash floods.
									Sudden torrential rains, heaviest along the Mythe-Smythe county line, sent streams out of banks. Flash floods caused damage to homes, stores, plants and freight terminals and forced 10 families to evacuate their homes. A dozen bridges were washed out. Marion, Smythe County, suffered the greatest damage.
WASHINGTON Walla Walla County	1	afternoon			0	0	0	0	Funnel aloft.
									Three funnel clouds aloft observed south of Walla Walla.
Walla Walla County	10	afternoon			0	0	0	4	Thunderstorm
									Hail caused heavy damage to crops in some local areas.
Yakima, Kittitas Valleys and other areas along east slope Cascades.	25	afternoon			2	3	5	4	Thunderstorm
									Severe thunderstorms developed over the Yakima, Kittitas Valleys and in other areas along the east slope of the Cascades. The greatest damage occurred in the Yakima Valley where the wind velocity reached 67 MPH at Yakima and was estimated at 85 MPH in the Sunnyside area. In the Sunnyside area, one person was killed and another injured when a large tree crushed a trailer home. Two other persons were injured by lightning. The high wind caused extensive damage to the roofs of several residences and other buildings and damaged hop yards and other crops.
WEST VIRGINIA									None reported
WISCONSIN La Crosse	14	1:50 p.m.	1	35	0	0	4	0	Tornado
									Tornado touched down several times as it moved north-northeast in southeast La Crosse. Damage to property and cars.
50 W Milwaukee	14	4:00 p.m.							Funnel
Neillsville	14	Afternoon							Funnel
Winchester	14	Late Afternoon							Funnel
Mid-State	14	Afternoon			0	0	5	0	Squall Line
									A squall line crossed over the state 50 miles north and south of a line drawn from La Crosse to Green Bay. Severe thunderstorms and high winds caused damage to property and trees. Several tornadoes were reported, but on-the-spot investigations did not confirm them.
WYOMING Southeast Wyoming	13-14				0	0	5	0	Heavy snow
									Thunderstorms and rainshowers began on the 12th, then early on the 13th rain turned to snow and continued with drifting throughout the day and stopped about 3:30 A.M. on the 14th. Hundreds of motorists were stranded and much damage was done to power and telephone lines. Some damage was done to trees and some crops were damaged by runoff. There were numerous minor auto accidents due to low visibility.
Sundance 10 W	18	10:00 p.	?	?	0	0	4	0	Tornado
									Tornado destroyed a barn and damaged out-buildings.
Arvada 5 N	20	5:00 p.	?	?	0	0	4	0	Tornado
									Tornado traveling from west to east destroyed a granary and shearing shed.
Dayton	20	5:00 p.-6:00 p.	4	* 2	0	0	3	3	Hail
									Thunderstorm with hail, mostly under 1 inch in diameter but some from 1-1/2 to 2 inches.
Lingle 6 E	24	4:00 p.			1	0	0	0	Lightning
									A man was struck by lightning while plowing.
Northwest of Casper	25	8:48 a.							Funnel cloud
									Funnel cloud reported by Weather Bureau Airport Station, Casper.
South of Basin	30	Afternoon							Funnel cloud
									Funnel cloud traveled north, re-entered clouds.

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

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

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USCOMM-WB-Asheville - 6/28/61 - 1050