

U. S. DEPARTMENT OF COMMERCE
LUTHER H. HODGES, Secretary
WEATHER BUREAU
ROBERT M. WHITE, Chief

STORM DATA

MAY 1964

Volume 6 No. 5



ASHEVILLE: 1964

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
ALABAMA			None	reported					
ALASKA			None	reported					
ARIZONA			None	reported					
ARKANSAS	10-11	10:00 p. to 3:00 a.	1	1/2	0	0	5	0	Rain
Fort Smith, Sebastian County			Excessive rainfall of 2.30 inches fell over the Mill Creek drainage area in the City. Flash flooding occurred south from Zero Street to Wheeler Avenue, the same general area flooded on April 5, 1964. Main damage was done by backwater to stores, factories and residences.						
Greenwood area, Sebastian County	10	12:00 p.	Short	?	0	0	3	0	Tornado
			Tornado struck a farm house 1 1/2 miles south of Greenwood. Tornado damaged the house, uprooted trees and blew roof off a nearby barn.						
Walnut Ridge area, Lawrence County	11	2:21 a. to 4:28 a.	?	?	0	0	3	0	Wind and hail
			Thunderstorms covered large area of northeast Arkansas, moving southeasterly. Walnut Ridge Municipal Airport reported hail up to 3/4 inch in diameter at 4:00 A.M. and wind gusts to 55 mph during this time. Minor damage only.						
Rock Hill, Craighead County	11	4:00 a.	2	*1	0	0	4	0	Wind and rain
			Rock Hill is 9 miles north of Jonesboro. Thunderstorms moved east-northeast with locally strong winds.						
De Witt area, Arkansas County	22	1:00 p.	55	*5	0	0	4	0	Wind, hail and lightning
			Area of thunderstorms from Stuttgart to 10 miles south of De Witt moved eastward. Scattered damage over cities and towns in the area.						
Blytheville area, Mississippi County	22	afternoon	?	?	0	2	3	0	Wind
			Wind pushed a house trailer from its foundation injuring the occupants.						
Pine Bluff area, Jefferson County	23	2:30 a.	?	?	0	3	0	0	Lightning
			Three boys injured by a lightning strike as they were going under a tree in the Union Community, about 4 miles southwest of Pine Bluff.						
CALIFORNIA									
Reedley	20	Afternoon			0	0	4	0	Whirlwind
			Local windstorm lifted roof from large storage shed and dropped it nearby, crushing 4 cars.						
COLORADO									
Eastern Colorado	5	All day			0	0	*5	C	Wind
			Strong gusty wind blew most of the day over much of the area east of the Continental Divide. Gusts to 80MPH were registered at the Jefferson County Airport at Broomfield and winds of 50 to 60MPH were general over the area. Buildings, power lines, trees, vehicles and crops were damaged. On the eastern plains, visibility was put to zero in many localities by blowing dust. Newly planted crops were damaged, making replanting necessary. Much of the dry land wheat crop, already suffering from drought, was further damaged or destroyed.						
Bent County	20	Night			0	0	0	4	Hail
			Hail caused extensive damage to crops in the Las Animas area. Up to 6 inches of hail was reported 3 miles east of the city.						
Alamosa County	27	12:31P			0	0	0	0	Funnel cloud
			A funnel cloud was observed 25 miles east of Alamosa.						
Las Animas County	29	12:44P			0	0	0	0	Funnel cloud
			A funnel cloud was observed to form, then dissipate in the Trinidad area.						
Eastern Colorado	29	Afternoon			0	0	4	5	Heavy rain & hail
			Heavy rain accompanied by hail in some localities was general over eastern Colorado. The heaviest rains fell in the southeast in a 2 day storm reported below. Flooding occurred in the Harvey Gulch area in southeast Denver, causing damage to homes and business houses, streets and bridges. Hail damaged truck crops in an area 20-30 miles south of Pueblo. An area south of Greeley at Gilcrest, received over 5 inches of rain and some hail. Crops were under 3 to 4 feet of water in places and some roads and bridges were damaged. Some homes and cars were flooded and occupants were evacuated. Snowplows cleared hail from the highway north of Colorado Springs.						
Kiowa, Bent, Prowers & Baca Counties	29 & 30				0	0	4	4	Heavy rain & hail
			Heavy rain over a two day period caused local flooding over a wide area of the southeastern corner of the state. Precipitation totals of 3 to over 5 inches were reported for most of the four county area. The greatest amounts, 5 to over 6 inches were in the Lamar area. At Lamar 5.64 inches fell on the 29th. Crop damage was limited because of prior conditions resulting from preceding drought, but there was some damage from flooding and hail to irrigated crops. There was widespread local erosion damage. Broken irrigation ditches caused local flooding in some areas. Hail up to 8 inches deep was reported in small areas south of Springfield.						
CONNECTICUT									
Statewide	19	5:00 p.-11:00 p.			0	0	4	0	Thunderstorm
			Numerous heavy thunderstorms moved gradually southeastward beginning in the late afternoon. Unusually severe lightning activity caused numerous fires and felled trees. Winds with gusts up to 60 mph were common and reached 85 mph in Danbury where a garage roof was blown away. Power to 10,000 homes was out in scattered communities throughout the State.						
DELAWARE									
Statewide			None Reported						
FLORIDA									
Statewide			See data at end of table						
GEORGIA									
State	2-3				0	0	6	6	Rains
			Heavy rains over entire State with totals from 1 to more than 7 inches. Heaviest amounts and greatest damage occurred in southwest and south central border counties and in the east central section. Homes were flooded and some families evacuated in Richmond, Sandhole, Grady, Thomas, Brooks and Lowndes Counties. Bare fields and young crops were damaged severely in these and other counties and roads, streets and bridges were heavily damaged. Numerous county roads and some main highways were closed by high water and washouts. Train schedules were delayed as much as 24 hours in south Georgia because of damaged tracks. Thomasville recorded 6.02 inches of rain in 24-hours for a new May record. These rains followed very heavy rains during the last of April, causing streams to rise rapidly to unusually high levels.						
East Central	21	pm			0	0	5	4	Wind, rain and hail
			Wind, hail and heavy rain damaged property and crops in parts of Bulloch, Emanuel and Screven Counties with heaviest damage in the Statesboro area. Trees were uprooted, roofs damaged and utility lines blown down by the winds and crops were damaged by hail and heavy rain.						
Ben Hill County	21	7pm			0	0	4	4	Wind and hail
			Farm buildings and trees were damaged by wind and crops, especially tobacco, were damaged by hail and wind east of Fitzgerald.						
HAWAII									
Statewide			None reported						
IDaho									
State	2-3								Snow
			Late season snowstorms brought varying amounts of snow to most of the State. Deer Point (7150 ft.) reported 14 inches, Warren (5899 ft.) 6 inches, Grangeville (3355 ft.) 5 inches. The 4-inch fall at Boise Air Terminal exceeded the combined May snowfalls of all previous years since 1884 at Boise. In parts of the city falls of 7 to 8 inches were reported.						
Pocatello	26	3:30-4:00 p.m.	1/2		150	0	0	4	Tornado
			Funnel cloud observed by several persons as it moved through north end of city. Rainfall total of 1.40 inches reported in path of storm just east of city.						
Gen, Fayette and Bonneville Counties	27	Afternoon						4	Hail and Rain
			Hail up to 1 inch in diameter hit orchards near Emmet, Fayette and New Plymouth, inflicting considerable damage to prunes, some to other fruits. Heavy rains and strong winds also reported in some areas. Very heavy hail covered a limited area east of Poplar in Bonneville County.						
ILLINOIS									
Stephenson and Winnebago Counties	08	7a-9a			0	0	*5	C	Wind, funnel clouds
			Squall line in northern Illinois in early morning caused considerable wind damage. Trees were uprooted in Freeport between 7:00 and 7:40 a.m. Two funnel clouds were reported 25 NE MLI, near Cahanche, at 7:23 a.m. Greatest damage occurred about 7:15 a.m. in northwest Rockford and Loves Park. Trees and billboards were damaged by wind and windows, utility lines and buildings by debris. Lesser damage occurred in other northern Illinois counties and some small hail was reported.						
Northern Illinois	08	6p-			0	0	*5	C	Wind, hail, funnel clouds
			Squall lines with severe thunderstorms in northern Illinois in early evening with lesser activity in central Illinois during late evening. A funnel cloud was reported to have touched ground in open country 5 NW of Chicago's O'Hare field at 7:25 p.m. Numerous unverified reports of funnel clouds from widely scattered Illinois locations during evening. No tornado damage was revealed by later investigations. Only minor injuries reported anywhere. Most intense activity occurred between 6 and 10 p.m. Winds continued high with some damage reported until about 3 a.m. on 9th. Frame homes in northwest Rockford suffered extensive hail damage as wind damaged trees, utility lines and plate glass windows. A hangar and four airplanes were damaged at Chicago's Midway Airport where a 66 mph. wind was reported at 8:47 p.m. Quad-City Airport at Moline reported a one-minute wind velocity of 56 mph. and gusts to 71 mph. at 6:30 p.m. Rockford WBA\$ reported 52 mph. at 10:30 p.m.						

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS	
KANSAS (Cont'd)		6:00 p.							Hail	KANSAS (Cont'd)		11 10:35a.							Funnel cloud
		Golf ball sized hail was reported in and near Turon in Reno County.								Geary County		A long slender funnel cloud was observed for about 5 minutes north of Junction City.							3 funnel clouds
		8:45 p. to 9:30 p.	20	*1/4 to 1/2					Tornado	Harvey County		11 12:05 p. to 12:40 p.							One large funnel cloud south of Hesston and two smaller ones to the southwest were observed.
		A tornado originated 5 or 6 miles southwest of the intersection of U. S. Highways 281 and 50, traveled northeast across Stafford County and into western Reno County north of Sylvia. Numerous farm homes and buildings were demolished. At one farm 17 head of ready-to-market fat steers were killed.								Pottawatomie County		11 3:15 p.							Funnel cloud
		8:45 p. to 9:10 p.	30	*1/4 to 1/2					Tornado	Hamilton County		11 3:35 p.							A well formed funnel was sighted several minutes north of St. Marys.
		At approximately the same time as the tornado in Stafford County, a second major tornado was cutting a path of destruction from about 12 miles south of Medicine Lodge northeastward through the Sharon-Attila area to a few miles south of Rago in Kingman County. Numerous farm plants were destroyed.								Stafford County		11 6:55 p.							A funnel cloud moving southeast was observed west of Syracuse.
		10:17 p.	8						Tornado	Scott County		21 5:00 p.	4 1/2						A funnel cloud was observed south of Macksville.
		A tornado struck a number of farm plants in its path from near Odin north-northeast passed Hitchman in northeast Barton County, causing heavy property and power line damage.								Northeast Kansas		22 Night							A small tornado originated about 3/4 mile south of Scott City, moved northwest 1/2 mile to Highway K-96, then turned east along that road for 1/2 mile, again veered to the northeast, terminating about 1 mile northeast of Scott City. The main damage was to a trailerhouse about 1 mile west of Scott City.
		9:15 p. to 9:30 p.							High winds										Many telephone circuits, both local and long distance, were put out of service over Brown and Doniphan counties by numerous violent lightning strikes.
		Several severe gusts of wind struck near Salina, causing numerous minor damages. Velocities of peak gusts were in excess of 60 mph.								Harvey County		23 5:30 p.							Tornado
Eastern Decatur and Western Norton Counties	5	6:00 p. to 7:15 p.				1			Damaging winds										The Highway Patrol reported a small tornado near the Harvey-Sedgwick County line.
		High southerly winds prevailed most of the hour preceding a change in direction to the northwest about 7:15 p. and a momentary velocity of 80 to 100 mph. There was some indication of tornadic action and barometers were reported to have dropped sharply. Considerable damage was done to roofs, glass, utility lines, trees and outbuildings. One woman was hurt by flying debris.								Cloud County		23 6:15 p.							Funnel cloud
Several Extreme Northwest Counties	5	Much of day							Dust										A small funnel cloud was observed about 5 miles southwest of Concordia.
		Strong southwest winds turning to the west late in the afternoon maintained low visibilities with almost zero visibility as the wind turned.								Cloud County		25 2:33 p.							Hail
Scott, Lane and Gove Counties	5	10:50 p. to 11:00 p.				1			2 tornadoes	Chase County		25 3:50 p.							Funnel cloud
		Two small tornadoes occurred at almost the same time. One dipped first near Manning and traveled northeast, passing just to the north of Healy with a path of about 10 miles. The other struck ground a mile or so southeast of Gove, destroying a trailerhouse and injuring a man.								Chase County		25 5:20 p.							Highway Patrol reported a funnel cloud about 4 miles north of Cottonwood Falls.
Northern Scott County	8	Early morning							Tornado	Chase County		25 5:20 p.							A funnel cloud was sighted over southeast Chase County about 25 miles southwest of Emporia.
		One farm plant was severely damaged when a small tornado struck at a farm north of Scott City. The tornado was followed by strong winds.								Lyon County		25 6:02 p.							Tornado
Large Northeast Section of Kansas	8	Most of day			1	15			High winds and dust	Yon County		25 6:02 p.							A small tornado was reported by the Lyon County sheriff 7 miles southwest of Emporia.
		Strong winds from the south, southwest and west during the day caused many minor damages to roofs, signs, aeriels, numerous weak farm buildings and power and communication lines. Peak gusts were up to 60-75 mph at times. Visibilities were reduced to less than 1 city block where dust was blowing from fields adjacent to highway and resulted in numerous accidents. One person was killed and 15 injured. Dust was raised to an elevation of 12,000 feet.								Marshall County		25 8:25 p.							A funnel was sighted 5 miles north of Frankfort.
Greeley and Wichita Counties	10	12:30 p. to 2:00 p.	15	*10					Hail	Shawnee County		26 2:30 p.							Marble sized hail fell at Forbes Air Base south of Topeka.
		Golf ball sized hail accumulated to a depth of 12 inches with drifts up to three feet in a severe hail storm over northeastern Greeley and northwestern Wichita counties. By the next morning much of the hail had melted down and the area looked like it was covered with a sheet of ice. Crops were damaged 100% in the area of heaviest hail. The melting hail left so much water basements were flooded.								Neosho County		26 3:40 p.							A tornado dipped to earth 4 miles north of Burlington and 1 mile east of Highway 75. A house and barn were destroyed. The cloud soon lifted and passed on to the northeast over the John Redmond Reservoir.
Geary County	10	3:20 p.							Tornado	Johnson & Wyandotte Counties		26 2:00 p. to 4:00 p.				1			Hail, severe wind and heavy rain
		A tornado was sighted on the ground 9 miles west of Iakin moving southeast.																	Severe thunderstorm conditions developed several wind gusts of 65 mph, sudden heavy rain and walnut sized hail. A boy was injured when the roof of his home was blown off and he was struck by flying debris. Power lines were broken. Fruit on trees was bruised. Heavy rain caused flooding in lower areas.
										Rice County		26 8:00 p. to 9:00 p.	15	*2-3					Hail
																			Crops were damaged up to 8%, automobiles and roofs were also damaged by a 25 minute hail storm extending from Buxton to Gansco. Stones were peas to golf balls in size.

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
SPECIAL HAIL SUMMARY									
KANSAS (Cont'd)									
			Hail Loss Clearing House Reports indicate hail was especially severe on the following dates and in the following counties:						
	5		Edwards, Stafford, Pratt, Reno, Kingman, Harper, Sumner, Sedgwick, Saline						
	7		Harvey and Marion						
	11		Haskell, Finney, Kearny						
	21		Scott						
	23		Jewell, Republic, Mitchell						
	26		Mah, Barton, Rice, Morris						
KENTUCKY									
Hopkins County	11	Afternoon			0	0	0	3	Hail, wind, rain
			In the Madisonville area, hailstones up to the size of a half dollar damaged young plants to the point of 50% having to be replaced. Most of the hailstones were flat in shape.						
Graves County	27	6:00 p.			0	0	4	0	Electrical
			A fire started by lightning destroyed a house located between West Viola and Folsomdale.						
LOUISIANA									
East Central and Southeast Division	1	3:30 p.							Hail
			Golf ball size hail reported in Patterson-Thibodaux area, 53 WSW Moisant Field (29.7° N, 91.0° W), and also 40 S Moisant Field (29.3° N, 90.1° W).						
Evangeline and St. Landry Parishes	1	After 8:00 p.			0	0	3	4	Thunderstorm, hail
			Rain, hail, lightning, and wind battered areas in both parishes; trees uprooted, telephone lines downed; buildings, homes, crops, gardens, fruit trees and shrubbery damaged. EVANGELINE PARISH: Storm started near Ville Platte shortly after 8:00 p., and moved E. Hail as "large as guinea eggs" fell in some areas. Many crops will have to be replanted, particularly cotton and rice; some farmers will be replanting for the third or fourth time this year. ST. LANDRY PARISH: Storm continued eastward toward Melville. Hail ranged in size from "eggs to baseballs"; many window panes crashed. Melville reported rain beginning at 9:30 p. and "hail (about 10 minutes), large pieces".						
Jefferson Davis Parish	1	About 9:30 p.			0	0	4	0	Wind
			Winds up to 60 m.p.h. caused some damage and disrupted electrical service throughout Jennings and parts of parish. Crop dusting plane snatched from moorings at Jennings Airport, lifted over two trucks and dumped into ditch. Hail and rain also struck area; Jennings received 2.22 inches in 45 minutes.						
Tangipahoa Parish	2	About 2:10 a.			0	0	3	0	Wind
			Three and one-half E Ponchatoula: rained very hard, then wind caused damage: "It sounded like a jet when it kicks in both barrels...but when it passed on, you could hear a pin drop it was so quiet". Storage shed, 12x24 ft., was lifted, carried 30 feet and smashed; shed, 8x10 feet, was lifted, then dumped upside down 18 feet away; home, just a few feet away from sheds, had several shingles peeled off.						
Bossier Parish	11	5:35 p.-6:28 p.			0	0	3	0	Funnel cloud, wind
			At 5:35 p., funnel cloud, heavy rain, and some hail reported at Taylortown; high wind downed 10 phone poles. 6:28 p., radar approach control personnel reported funnel cloud 7-8 mi. E Barksdale Air Force Base moving NE.						
Lake Pontchartrain	12	1:08 p.							Hail
			Pilot reported hail at 4,000 feet, 15 NE Moisant Field.						
Iberia and St. Martin Parishes	12	2:17 p. 3:45 p.							Funnel cloud, hail
			2:17 p., small hail reported by DC-3 at 3,500 to 4,500 feet, 20 ESE Lafayette; 3:45 p., funnel cloud 10 SE Lafayette.						
Lafayette Parish	24	4:30 p.			1	0	0	0	Lightning
			Nine-year old girl, playing in water filled ditch during rain storm, was struck by lightning and killed.						
Plaquemines Parish	30	6:30 p.-6:40 p.							Funnel cloud aloft
			Funnel cloud aloft observed at Burrwood, moved from SE toward NW.						
MAINE									
State	19	P.M.			0	1	3	0	Lightning, Wind, Hail
			Scattered but mostly minor damages from lightning and wind to trees, utility lines, and buildings. One slight personal injury by lightning to man at Porter. Some hail reported but without damage.						
Central and Southern Portions	20	Early A.M.			0	0	4	0	Lightning, Wind
			Scattered heavy damage from lightning and mostly minor wind losses occurred. Path from Somerset County to the mid-coast area suffered most severe loss. At least 29 head of cattle, from three herds, were killed by lightning. A barn in Warren and a house and barn in Washington were destroyed. Lightning also damaged a home in Bangor.						
MAINE (Cont'd)									
Linneus, Southern Aroostook Co.	23	About 9 P.M.	1+	800	0	0	4	0	Local Wind
			Damaging local winds, accompanying a thunderstorm topped trees and utility poles, with most damage at 20 feet or higher above the ground. A garage was destroyed and a barn badly damaged. Barn damage indicated possibility of tornadic action.						
State	25	P.M.			0	0	4	0	Wind
			Strong wind gusts, to 50 mph or more, caused scattered damage to trees and utilities. Two cars hit by falling objects.						
MARYLAND									
MASSACHUSETTS									
Burlington	4	1:00-1:15 p.m.	1/10	10	0	0	0	0	Dust Devil
			Small tool shed dislodged; debris lifted into the air.						
Brockton	12	P.M.			0	0	2	0	Dust Devil
			Roof damaged and a backyard playpen was hurled into a window.						
State	19	P.M.			0	2	5	0	Lightning, wind, tornadoes
			Lightning set many damaging fires over the State, slightly injured one person at Weymouth, and damaged trees and utility lines. A cow was killed at Florida. Wind damage to trees and utility lines was widespread but in most localities limited in amount. Most affected were communities in the northern half of the State. Trees fell onto several houses. A large section of roof was blown from a commercial garage in Wilmington. Two very small tornadoes occurred. The first cut a very short path 30 yards or less wide in Andover, at about 3:25 p.m., damaging one home and felling trees and limbs. The second was similarly narrow and affected several areas along a two mile path through Salem about 3:35 p.m. Trees and power lines were damaged and shingles were torn from houses. Though funnels were observed in both cases, neither tornado was as violently damaging as might have been expected, though several narrowly escaped injury from flying debris. Both twisters moved easterly. In Peabody, a man was injured when blown from a roof on which he was working.						
Central Portion	25	P.M.			0	0	4	0	Wind
			Felled trees and limbs caused utility failures in various communities and damaged a home in Orange. Structural damage also occurred in Pittsburg. At North Brookfield a 30 by 70 ft. section of barn roofing was blown off, possibly by a local dust devil. Nearby light objects were relatively undisturbed.						
MICHIGAN									
Gogebic, Houghton and Ontonagon counties.	6	4:15p 6:45p					4		High winds.
			High winds up to 70 mph felled numerous trees with resultant damage to buildings, homes and cars. Heavy window breakage damage reported. Power poles and lines felled disrupting service to many homes and buildings.						
Sundell (Alger county)	6	7:00p.	?	?	?	?	5		Tornado
			A small tornado wrecked two barns and a garage was demolished when a felled tree struck it on the Anderson farm. Twenty five cattle were killed within one of the wrecked barns. Estimated total damage \$60,000.						
All Lower Michigan	8-9	1:00 P., 8th 4:00p., 9th					5	C	Thunderstorms with high winds, lightning and heavy rains
			High winds up to 70 mph spread heavy damage throughout the entire area. Hundreds of trees were felled causing damage to buildings, homes and cars. Numerous roofs of homes and buildings also suffered wind damage. Plate glass and house window damage reported also due to high winds. House trailers blown over and damaged. Heavy rains in excess of one inch flooded highways, roads, underpasses and basements with resultant damage. Power lines severed by high winds and lightning disrupted service to thousands of homes and buildings. Homes and buildings damaged by lightning induced fires. Many farm barns were damaged and some demolished due to high winds. Cattle and pigs were killed within a few of the wrecked barns due to falling walls and timbers. Cherry tree orchards also suffered high wind damage. Rural areas within vicinity of Charlevoix, Cheboygan, Traverse City and southwestern lower Michigan received the heaviest storm damage.						
Pontiac	8	4:25 p.	7	475	0	0	4		Tornado
			Several area residents observed funnel touch down at the junction of Interstate Highway 75 and Joslyn Road in Pontiac Township at the northeastern edge city limits of Pontiac then move across large vacant field and then strike and damage 6 homes and a garage. Wall of nearby factory was torn off and also front wall of one of the damaged homes was sheared off. Numerous trees were uprooted and some blown down within the area. Observers stated they heard a loud roaring noise as the funnel cloud moved across the area... then disappeared up into the thunderstorm clouds.						
Mount Clemens 4th	8	4:59 p.	4	850	11	244	6		Tornado
			A violent tornado struck the Chester Township area of Anchor Bay which is 3 1/2 miles north of Mount Clemens spreading death, many injuries and complete property destruction throughout half mile wide and 4 miles long path. The tornado first struck in the Capehart Housing area where it demolished several homes, then moved east-						

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					KILLED	INJURED	PROPERTY	CROPS		
MICHIGAN (Cont'd)										
Mount Clemens 4N (Cont'd)										ward along Cotton Road to Capehart Drive where it struck destroyed and completely demolished half mile stretch of homes north of Sugar Bush and Cotton Roads. It then travelled eastward a mile over vacant land and next struck Forbes Road residential area which suffered the deadliest and heaviest damage. Homes were exploded like match sticks. Furniture and household items were blown and tossed about the area and into the trees. Cars were tossed and blown about into the air then landing upside down and on top of other cars. Small boats and pleasure type cruisers anchored in the private water canals were blown and tossed into the air landing on nearby land and some of the small boats ended up in the tree tops. Eighty eight of the 244 people injured were hospitalized. There were 132 homes completely destroyed. 69 homes received major damage and 167 homes reported minor damage. Two farm buildings were also damaged. The area was under a Detroit Weather Bureau Tornado Warning 20 minutes prior to being hit but almost complete lack of basements in the entire area due to marshy land and high water table lessened considerably, chances to seek safe shelter from the tornado. Estimated damage in the area is 2 1/2 to 3 million dollars.
Monroe 8S	8	5:05 p.	?	400	0	1	4			Tornado struck small community of Luna Pier which is 8 miles south of Monroe on Lake Erie. Three people observed the funnel cloud dip down from large black cloud formation in the southwest and move eastward. It demolished a barn, a garage and 2 sheds and blew a new house trailer over which was completely destroyed. Numerous trees were toppled and power lines were severed which disrupted service to many homes. Man was injured when his parked semi-trailer and truck tractor were blown over on the side.
Mapleton	8	9:26 p.	?	?	0	0	5	C		Tornado struck in the Bowers Harbor area which is in the nearby vicinity of Mapleton and is about 10 miles north east of Traverse City. A garage, sugar house and a road side fruit stand were destroyed on the Gore farm. Barn and 4 tenant cabins were demolished on nearby Henning farm plus a heavy truck was blown and tossed into the air landing upside down with resultant heavy damage. New summer cottage in nearby vicinity was completely demolished also. Hundreds of cherry trees were uprooted in the cherry orchards throughout the area. Gore family stated they observed funnel cloud touch down in the south and travel northeastward and said they heard a loud roaring noise. These cherry orchards are in the heart of the rich Michigan cherry growing district. Sheriff Officers estimate the damage in the Bowers Harbor area at two hundred thousand dollars.
Presque Isle County	8	10:58 p.	?	360	0	0	5			Tornado struck first in the southwestern corner of Belknap township and then travelled and skipped north-easterly across Bismark and Rogers City townships touching down in several spots. Estimated length of path of tornado at 16 miles. Grocery store at Hawkes destroyed completely, barns along with machinery plus poultry buildings were destroyed on the Selke and Harding farms. Several other barns and buildings and homes were reported damaged in the area. Stock and poultry killed were valued at 5 thousand dollars. Officials estimate entire tornado damage at three hundred thousand dollars.
Muskegon 20 NE	24	3:00 p.								Funnel aloft Funnel aloft observed by public 20 miles northeast of Muskegon.
MINNESOTA										
Myrtle (near) Freeborn County	1	2:15 p.								Funnel cloud aloft Pilot reported small funnel cloud not touching ground.
South Central and South East Minnesota	3	Afternoon Evening			0	0	4	0	Wind	Strong winds over southern Minnesota downed utility lines, ripped off tree branches, damaged buildings and smashed store windows. Gusts at Mpls.-St. Paul reached 53 mph and 75 mph at Fairmont.
Gaylord Sibley County	4	7:00 a.			0	0	3	0	Hail	Cooperative observer reported hail up to 1 1/2 inches in diameter. Property damage was negligible.
Pelican Rapids Occertail County	4	1:15 p.								Funnel cloud aloft Roped shaped funnel cloud observed. Did not touch ground.
Duluth St. Louis County	4	1:30 p.			0	0	5	0	Wind, rain, hail electrical	Winds gusting to 89 mph damaged buildings, uprooted trees and downed utility poles. Principal damage occurred in the lake front area of Duluth. Lake freighter torn loose from moorings. Streets flooded when storm sewers ever taxed. Hail up to 1 1/2 inches in diameter reported at Weather Bureau Airport Station. One barn destroyed by fire caused by lightning strike.
MINNESOTA (Cont'd)										
Harmony (near) Fillmore County	4	4:30 p.			0	0	0	0	Hail	Highway patrol reported hail up to one inch in diameter covering ground.
Beardsley Big Stone County	5	10:15 a.			0	0	0	0	Hail	Cooperative observer reported flat hail stones 2 to 4 inches in diameter fell during thunderstorm with 0.70 inch rainfall in 20 minutes. Storm moved east northeast.
Remer Cass County	5	1:00 p.			0	0	0	0	Hail	Hail up to 1 1/2 inches in diameter covered 50% of ground.
Winona Winona County	5	3:00 p.			0	0	0	0	Hail	Cooperative observer reported hail 3/4 inch in diameter.
Doran 55W Wilkin County	5	5:45 p.	50	4000	0	0	3	0	Tornado	Tornado that began at Fairmont, North Dakota continued on into Minnesota damaging farm buildings near Doran. Tornado moved northeast. For information on damage in North Dakota see report for North Dakota in this publication.
Pelican Rapids 4E Occertail County	5	6:30 p.	3	1/2	0	14	5	0	Tornado	Tornado touched down in a resort area at Lake Lida, injuring 14 people, some seriously, when their homes were demolished. One home blown into nearby lake injuring 8 occupants. Thirteen cottages and several barns destroyed. Many cottages and outbuildings damaged. Trees uprooted and utility lines downed. One person observed water being drawn up out of lake. Sixty families were affected. Storm moved northeastward.
New Munich 4SW Stearns County	5	8:00 p.	5	300	0	0	5	0	Tornado	Tornado struck rural area damaging or destroying buildings and killing cattle on 9 farms. Trees uprooted and twisted off, utility lines down. Storm moved northeast. Ten families were affected.
Everdell Wilkin County	5	5:00 p.			0	0	4	0	Electrical	Farm home destroyed by fire started by lightning strike.
Victoria 3NE Carver County	6	9:45 a.	1	60	0	0	3	0	Tornado	Small tornado touched down briefly unroofing and damaging buildings and uprooting trees. Sod pulled up from ground and waterspout observed on nearby lake. Storm moved north.
Rochester 13NE Wabasha County	6	11:40 a.								Sheriff reported funnel cloud not touching ground.
Eastern Half of State	6	9:00 a.			1	7	5	0	Wind	Winds gusting to near 80 mph at Mpls.-St. Paul and at Rochester damaged buildings, uprooted trees and downed utility lines over a wide area. Four injured at Rochester when a roof collapsed. One child injured in St. Anthony by a falling tree. One man cut by flying glass in South St. Paul. At the Duluth waterfront one workman killed and one seriously injured when winds reaching 71 mph (12:45 p.) blew down a 2000 foot unloading trestle. A 160 foot radio tower at Blue Earth was blown down.
Rochester (near) Olmsted County	8	9:10 a.								Funnel cloud aloft Funnel cloud aloft reported by Rochester Weather Bureau Airport Station.
Stillwater Washington County	17	10:15 p.			0	0	0	0	Hail	Hail up to 1 3/4 inch in diameter reported.
Little Canada Ramsey County	18	3:45 a.			0	0	4	0	Electrical	Fire resulting from lightning strike partially destroyed home.
St. Paul Ramsey County	18	8:45 a.			0	0	4	0	Electrical	Lightning struck church damaging roof.
Minneapolis-St. Paul Metropolitan Area Carver, Hennepin, Ramsey Counties	23	6:00 p.			0	1	6	0	Wind, hail, rain, electrical	A severe thunderstorm struck the area from Watertown east through the Twin Cities: Wind gusts of 106 mph (6:08 p.) and a one minute speed of 61 mph recorded at the Weather Bureau Airport Station. In the Watertown area hundreds of windows broken and siding damaged by 1/2 to 1 inch hail. In the Minnetonka area boats capsized and wrecked; docks severely damaged. Over the entire area hundreds of trees toppled, signs downed, buildings and automobiles crushed and damaged, windows blown out. One man injured in a theater by falling plaster attributed to storm. Several buildings struck by lightning. Much of dollar damage caused by falling trees striking buildings and automobiles and tearing down utility lines. Over 100,000 homes without electrical power, some areas for more than 24 hours; phone outages in 10,000 homes. Cost of cleanup in St. Paul alone estimated by street commissioner at \$100,000 and will take at least three weeks. This storm worst to hit Twin Cities since July 20, 1951 tornado. Weather Bureau radar did excellent job in alerting community for the severe storm with the result of no loss of life and only one injury during storm proper.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MINNESOTA (Cont'd)									
Minneapolis-St. Paul Hennepin, Ramsey Counties	25	6:30 p.			0	0	0	0	Hail
			Hail up to 1 1/2 inches in diameter reported at the Weather Bureau Airport Station and 5 miles to the east.						
Marion (near) Olmsted County	25	7:00 p.	?	?	0	0	4	0	Tornado
			Tornado dipped down briefly damaging buildings, trees and power lines in a small area. Four separate funnel clouds observed.						
Olmsted County	25	7:00 p.			0	0	4	0	Wind, hail, funnel cloud aloft
			Winds up to 83 mph damaged buildings, toppled trees and disrupted utility service. Hail up to 2 1/2 inches in diameter observed. Funnel cloud aloft observed not touching ground at Dodge Center 2S.						
Blue Earth, Faribault, Waseca Counties	25	8:00 p.			0	0	3	4	Rain, hail, wind
			Hail up to 2 inches in diameter and rains up to 1/2 inches in one hour reported in three county areas. Fields flooded, buildings and trees damaged. Power outages in over 1,000 homes.						
Good Thunder 2NW Blue Earth County	25	8:00 p.	1 1/2	15	0	0	4	0	Tornado
			Funnel observed to spin along ground then struck outbuildings and uprooted trees. Debris pattern and building positions indicate rotary motion. Dirt sucked up and dropped out into pasture. Roaring sound heard. Storm moved northeast.						
Minnesota Lake (near) Faribault County	25	9:00 p.	?	?	0	0	3	0	Tornado
			Tornado dipped down briefly snapping off power poles and trees. Funnel cloud observed by two residents.						
Wadena County	31	Morning							Freeze
			Morning temperatures recorded in the low thirties in instrument shelters froze corn requiring re-planting. In North St. Paul, Ramsey County and in Crystal, Hennepin County, water reported to have frozen in garden hoses.						
MISSISSIPPI									
Mississippi Sound	9	6:29 a.							Funnel cloud
			Air Force reported funnel cloud to SE of Biloxi at 30.3° N Latitude 88.9° W Longitude.						
Alcorn County	19	Late afternoon			0	0	0	4	Thunderstorm
			Thunderstorms over most of county. Damage over area about 4 sq. mi., just W of Biggersville, where, in a few minutes, marble size hail left stripped stems of cotton, corn, and tomato plants, and punched holes through tree leaves. Heavy rain washed trenches through fields, caused water to run 4 inches deep across parts of road and creek to overflow.						
Lawrence County	21	3:10 p.			0	0	3	0	Wind
			During thunderstorms near Monticello, several trees downed over GMSG Railroad communication lines and elsewhere; some barn tops blown off on Robin Wood Road.						
Central portion	22	p.m.			1	0	3	3	Thunderstorms
			Some damages from thunderstorms. BOLIVAR COUNTY: Shortly before 1 p.m., at Shelby, winds (unofficially registered to 65 m.p.h.), ripped part of copper roofing from high school; approximately 4 in. rain, unofficially reported, in about hour's time, and "terrific" hail storm in rural area just to E; some crop damage. HOLMES COUNTY: near Ichula, 14-year old boy killed by lightning bolt during thundershower as he got off tractor. LOWDES COUNTY: About 7:40 p., wind gusts, estimated 85 m.p.h., partially unroofed Columbus Municipal Airport Administration Building; caused other minor damage to airport.						
Mississippi Sound	24	10:15 a.							Waterspout
			Waterspout to WSW of Biloxi observed moving E.						
MISSOURI									
Holt, Andrew, Nodaway counties	3	early morning							Thunderstorm
			Hailstones, ranging from 3/4 inch in diameter to baseball size. Extensive damage to barns, roofs, windows.						
West Central and North west Missouri	8	during the day							Windstorm
			Winds with gusts of 50 to as much as 75 miles per hour caused damage to trees, homes, power and telephone lines over a wide area.						
Poplar Bluff Butler County	11	5 p.m.							Thunderstorm
			Damage to trees, roofs, television antennae.						
Kansas City Jackson County	24								Thunderstorm
			Heavy rains caused considerable flooding. High winds and lightning caused numerous power failures.						
Garthage Jasper County	24	8 a.m.							Thunderstorms
			Several homes, many trees, power and telephone lines damaged by lightning.						
MISSOURI (Cont'd)									
Levasy Jackson County	26	3-3:30 p.m.	1-1/2	300				3	Tornado
			Funnel observed to touch down several places. Severe lightning and heavy rains. Temperature dropped sharply after storm passed.						
St. Louis County	26	7:30 - 9:30 p.m.						4	Thunderstorms
			Wind and hail damage with some flash flooding. Many trees and wires down. Severe lightning, with several power failures. Some lightning to homes.						
Warrensburg Johnson County	28	evening						4	Thunderstorm
			A wall of a new post office building under construction was blown down. The wall was eleven feet high and 105 feet long.						
MONTANA									
Central and North-Central Divisions	3	Early Morning	200	*175	1	0	5	0	Snow and high wind
			Snow and blowing snow prevailed until late in the day over most of the area, and began late on the 2nd some northern sections. The very heavy wet snow collecting on power and telephone lines broke 150 power poles in the Fairfield area, Teton County, and 80 telephone poles near Lewistown, Fergus County. There was considerable other damage to power and telephone lines. Surface transport was very difficult. Some travelers were marooned until after the storm. At Helena, the 10.1 inches of snow on the 3rd was the greatest May snowfall of record.						
NEBRASKA									
Mitchell	2	Noon	10	1 1/2	0	0	4	3	Hail
			Stegall northeastward to Sunflower community. Most stones small, some up to 1 3/16" diameter. Major damage to roofs and signs in Mitchell.						
5-8 miles W Scottsbluff	2	1:30 p	Short	Narrow	0	0	0	0	Tornado
			Moved slowly northeastward in open country. Dissipated 1:35 p.						
10 SE Scottsbluff	2	2:08 p	Short	Narrow	0	0	0	0	Tornado
			Visible from Scottsbluff airport.						
Scotts Bluff, Box Butte and Sheridan Counties	2	Early Afternoon	?	?	0	0	0	0	Funnel Clouds
			A number (total unknown) of funnel clouds were visible from Scottsbluff, Mitchell, Antioch, and other localities.						
Panhandle	5	All day			0	20	4	?	Windstorm
			Windstorm in western Nebraska reached its peak between noon and 3 p. Widespread damage to small buildings etc. Large machine shed destroyed 12:40 p. near Nelbata. Blinding dust storm resulted in numerous automobile accidents. Six separate accidents in one hour's time near Chappell involving 17 vehicles and hospitalizing 8 persons.						
Tilden	5	3:20 p	Short	Narrow	0	0	4	0	Tornado
			First of two tornadoes in Tilden area on 5th. Damaged depot and other buildings.						
Eastern Nebraska	5	Afternoon & Evening							Severe Weather
			Widespread damage from display of violent weather over 8000+ square mile area during afternoon and evening. Major portion of damage was associated with the three parallel tornado courses lifted below. However, numerous other isolated severe thunderstorms gave localized damage from lightning, hail and damaging winds.						
Greeley County to Pierce County	5	2:55 - 3:50 p	60	Narrow	0	11	6	0	Tornado
			Tornado destroyed a major portion of Wolbach, moved northeastward lifting off of ground. Occasionally touched ground at isolated spots. Remained on ground for several miles in north-eastern Boone - western Madison Counties destroying several houses, school houses, and many farm buildings. Lifted again, moved between Tilden and Meadow Grove and into southern Pierce County before dissipating.						
Howard County to Southeastern Pierce County	5	3:20 - 4:45 p	85	Narrow	0	1	4	4	Tornado, Hail
			Tornado touched down near Dannelberg, moved northeastward intermittently touching down and lifting. Moved parallel to and about 12-15 miles southeast of Wolbach tornado described above. It touched down more often than the Wolbach tornado damaging numerous farmsteads and the town of St. Edward. Hail ranged up to 2" diameter. Tornado apparently lifted last time midway through Madison County, but hail path continued past Norfolk to Hadar area in southeastern Pierce County.						

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
NEBRASKA (Cont'd) Clay County - Cuming County	5	5:30 p - 7:30 p	110	1/4 to 3/4	4	50	7	4	Tornado, Hail, Wind	NEVADA (Cont'd) Terlington and vicinity	26	2:45 PM	2	Unk.	0	1	4	0	Tornado	
Craig Vicinity	6	5:50 a	Short	Narrow	0	0	4	0	Tornado	Reno	26	Afternoon							Hail	
Prague Vicinity	6	5:30 a	Short	Narrow	0	0	4	0	Tornado	Owyhee	27	11:10 AM								Funnel Cloud
Southeastern Nebraska	7	4:30 - 7:30 p	70	60*	0	0	5	4	Hail	NEW HAMPSHIRE State	19-20	P.M. and during night			0	0	4	0	Lightning, wind, hail	
Boone County	11	5:30 p			0	0	0	0	Funnel Clouds	NEW JERSEY									None reported	
W West Scottsbluff	14	5:20 p			0	0	0	0	Funnel Clouds	NEW MEXICO Bacon, Lincoln County	18	3:15 p.m.	Short Narrow				2		Tornado	
Near Clearwater	15	Night	Short	Narrow	0	0	3	4	Hail	San Jon, Quay County	27	5:15 p.m.					3		Hail	
South-Central Nebraska	15	6 - 7 p	4	2*	0	0	0	4	Hail	Hagerman, Chaves County	28	Daytime					2		Lightning	
Near Brule	22	6:11 p	Short	Narrow	0	0	0	0	Tornado	Maxwell, Colfax County	29	12:03 p.m.	3	Narrow	1	8	5		Tornado	
Auburn	23	10 a.	Spot	Spot	1	0	0	0	Lightning	Capulla, Union County	29	Afternoon							Hail	
Southeastern Nebraska	23	6 - 11 p	160	110*	0	0	5	5	Hail	NEW YORK Western, central and northern counties	9	All day			11	5	6		Wind	
SW Colon to Colon	23	7 p	5	1/2*	0	0	4	0	Tornado											
Vicinity of Grand Island	23	8 p	Short	Narrow	0	0	3	0	Tornado											
Near Geneva	23	8:40 p			0	0	0	0	Funnel Cloud											
Near Duncan	23	9 p			0	0	0	0	Funnel Cloud											
Seward County	23	9 p	10	50	0	1	5	0	Tornado											
Eastern Nebraska	25	7 - 11 p	?	?	0	0	4	4	Hail, Heavy Rain											
Near Elgin	25	9:50 p			0	0	0	0	Funnel Cloud											
Northeast of Rising City to Valparaiso	25	9:10 p	25	Narrow	0	0	0	0	Tornado											
Washington to Sarpy Counties	25	10 p	Spots	Spots	0	0	4	0	Damaging Winds											
NEVADA Vicinity of Fallon	26	Noon	Unk.	Unk.	0	0	0	0	Tornado											

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

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					KILLED	INJURED	PROPERTY	CROPS	
NEW YORK (Cont'd) Eastern half (Cont'd)									
State, except western third	19	p.m.			2	1	5		Electrical, wind, hail
Westfield, Chautauque County	23	7 p.m.					5		Hail
NORTH CAROLINA									
Southeast Coast	3				0	0	4	0	Wind, Rain
Durham, Franklin, Guilford, Surry, Wilkes Counties	12	afn			0	1	4	0	Electrical, Wind
Rockingham, Stokes, Surry, Wilkes Counties	13	2 - 4 pm			0	0	4	4	Wind, Hail
Burke, Cabarrus, Chowan, Columbus, Duplin, Hertford, Hyde, Johnston, Pasquotank, Pender, Pitt, Rowan, Stanly, Wake, Washington, Wilson Counties	20	afn & eve			1	0	5	5	Electrical, Wind, Hail
Jackson County	21	afn			0	0	4	4	Electrical, Hail
Columbus, Cumberland, Davidson, Davie, Duplin, Harnett, Lee, Lenoir, Montgomery, New Hanover, Pender, Robeson, Sampson, Wayne Counties	28	afn & eve			1	2	6	5	Electrical, Wind, Rain, Hail
NORTH DAKOTA									No report received by printing deadline
OHIO									
Columbus	13	12:35 PM							Funnel Aloft
Delaware	16	Afternoon			1	0			Lightning
OHIO (Cont'd)									
Pestoria	19	6 PM	Short	Narrow	0	0	4	0	Tornado
Chardon	23	Afternoon			1	0			Lightning
Lima	24	Afternoon					5	0	Thunderstorm Wind
OKLAHOMA									
Goitry, near, Alfalfa County	1	2:30p.-2:40p.	?	?	0	0	0	0	Hail
Woodward, Woodward County	1	Afternoon	?	?	0	0	?	?	Hail
Blackwell area, Kay County	1	3:30p.			0	0	5	5	Hail, wind, tornado, and funnel aloft
Elaine and Dewey Counties	1	3:30p.-3:40p.-5:00p.-6:00p.			0	0	4	4	Tornado, hail, wind
Waukonis, near, Garfield County	1	4:20p.-4:28p.	?	?	0	0	0	?	Hail
Canadian and Oklahoma Counties	1	4:20p.-6:00p.			0	0	4	4	Tornado, funnels aloft, and hail

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

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)									
Hennessey, Kingfisher County	1	4:45p.-5:15p.	6	*1	0	0	2	4	Hail
<p>Followed the same approximate path across the central part of Canadian County with 1/2-inch size hail covering the ground at El Reno. Hail damage was 50 percent of \$14,000 total and tornado 40 percent.</p> <p>Hail averaging 3/4- to 1-inch size covered the ground up to 1 1/2 inches deep with largest stones up to 2 1/4-inch size. Six sections of wheat were damaged for a 75 to 100 percent loss along a path just to the northwest of the City. Some windows were also broken in Hennessey by smaller hail as the storm moved northeast.</p>									
Redland area, Sequoyah County	1	5:30p.	2	2,000	0	0	3	4	Hail
<p>Hail averaging 1-inch size and with some up to 2 5/8-inch size covered the ground three to six inches deep in places along path. Storm moved northeast damaging some fruit trees, truck crops and 260 acres of wheat.</p>									
Wetumka, Hughes County	1	8:00p.-8:05p.	?	?	0	0	0	0	Hail
<p>A severe storm observer reported that 1/2- to 3/4-inch size hail fell in Wetumka with no damage received.</p>									
Woodward and Woods Counties	5	5:00p.-7:30p.			0	0	6	4	3 Tornadoes and hail
<p>A line of thunderstorms moved eastward across Woods County and the northern half of Woodward County. Three small tornadoes hit in Woods County. Tornado #1 struck briefly without damage in the Whitehorse area 18 miles west of Alva about 5:20 PM. Tornado #2 was on the ground briefly 6.3 miles west of Alva downing highline poles about 6:00 PM. Tornado #3 touched down at a farm 5 miles southeast of Alva where a swing set was dug across the yard and walls were ripped from an old building. Hail averaging 3/4- to 2-inch size broke 20 percent of the glass at the Woodward Field Station greenhouse, smashed windows and dented automobiles between 5:00 PM and 5:30 PM. This 4-by-12-mile path extended east-northeast with hailstones up to 2 5/8-inch size falling north of Mooreland. Damaging hail also fell in Woods County where 1 1/2-inch size stones fell at Freedom and just north of Waynoka. Field crops had little loss since the severe damaging hail was concentrated in the Alva area between 6:05 and 6:35 PM with an \$850,000 loss from 2,500 claims mostly within the city limits. Hailstones averaged 1 1/2-inch size and covered the ground 2 inches deep. A large percentage of 3 1/2-inch size hail inflicted nearly complete loss of glass in 3 greenhouses, shattered windows and nearly all neon signs, dented automobiles, damaged roofs, and killed at least 2 colts.</p>									
Roger Mills County	5	9:00p.-10:20p.	30	440	0	0	4	3	2 Tornadoes
<p>Strong thunderstorms moved northeastward across the County. Tornado #1 struck in the Dempsey-Greer area about 9:00 PM and damaged 4 farmsteads along a skipping 3-mile path. Several outbuildings were destroyed, trees uprooted, and windows exploded in 4 automobiles and 2 homes. One new home was moved 6 inches on its foundation and heavily damaged while the older home had its roof and porch ripped off. Tornado #2 skipped northeast and damaged 8 farmsteads along a 10-mile path 12 miles northwest of Hammon about 10:40 PM. Barns and outbuildings were demolished, one cow and three calves killed, trees uprooted, and telephone and electrical lines downed. One farm lost most of its buildings while the house was heavily damaged from buckled walls, caved-in ceilings and a partial loss of roof.</p>									
Custer County	5	Late Evening			0	0	0	0	Wind, hail, and rain
<p>Clinton-Sherman Air Force Base reported winds gusting to 70 MPH and 3/4-inch size hail at 11:40 PM while general rains over the County totaled 1 1/2 inches. Unofficial reports indicated a 4-inch downpour north of Weatherford and up to an estimated 5 inches in an area about 3 miles northeast of Clinton. No damage was reported.</p>									
Dewey County	5	11:15p.	1	300-500	0	0	3	0	Tornado and funnel aloft
<p>A tornado touched down on a farm near the Selling-Canton "Y" and moved northeast across 6 farms. It destroyed 3 garages, caved in a silo, twisted lots of trees, and damaged a granary and barn doors. The last farm hit lost two steel granaries, a hay shed and a brooder house. A funnel aloft was also observed along part of the path.</p>									
Grant County	5-6	11:30p.-5th - 12:40a., 6th			0	0	4	2	Wind, 2 tornadoes, and a funnel aloft
<p>A line of heavy thunderstorms moved eastward across Grant County with tornado #1 indicating several touch-downs along a 3 1/2-mile path by 250 feet wide as it moved northeastward across the Jefferson area between 11:45 and 11:55 PM. A cooperative weather observer reported spindly like a locomotive moving overhead while he recorded 80 MPH winds for half a minute. High wind about midnight in the Nash area destroyed a round top barn, chicken houses, outbuildings, and downed several trees on 2 farms southwest of Nash. Tornado #2 was believed to have struck a farmstead in the Hawley area at 12:10 AM when a loud roar was heard and a 50- by 60-foot barn was lifted over a 50-foot elevator and trees were lifted over.</p>									
OKLAHOMA (Cont'd)									
Fort Cobb, near, Caddo County	6	1:00a.-1:30a.	7	300	0	0	3	2	Tornado
<p>the house. A machine shed was unroofed and several outbuildings destroyed with some of the debris carried for half a mile. County-wide wind damage was most extensive in the Madford area about 12:30 AM. A funnel aloft was believed to have moved across the southeast edge of the Madford city limits. The winds blew down at least a dozen barns, chicken houses and other outbuildings, damaged power lines and roofs of several residences along a 1/2-mile wide path extending from 1 mile south to 4 miles northeast of Madford. Wind and tornado damage each 50 percent of \$30,000 total.</p>									
Tipton, near, Tillman County	7	4:55p.-5:10p.	9	*1	0	0	0	?	Hail
<p>A small tornado was sighted 5 miles northeast of Fort Cobb as it moved along a north-south path. It struck the ground in about 4 places causing only minor damage to 1 house, a barn and a small amount of crops.</p> <p>Hail fell along a path from 4 miles south of Tipton to 4 miles north-northeast of the City. A spotty coverage of 3/4-inch size stones damaged some wheat northeast of Tipton where stones were 2-inch size.</p>									
Mountain Park-Snyder Area, Kiowa County	7	5:10p.-5:20p.	5	*2	0	0	?	?	Hail
<p>Hail averaging 3/4-inch to 1 1/2-inch size fell in both communities with some hail up to 2 5/8 inches in diameter reported northwest of Snyder and west of Mountain Park.</p>									
Weatherford, Custer County	7	About 6:15p.	?	?	0	0	0	0	Hail
<p>Clinton Highway Patrol reported hail up to 1-inch size in the areas just west of Weatherford. No damage was reported.</p>									
Most of the State	7-8	7:00p.-7th - 1:00a., 8th	300	*100	0	0	?	?	Wind
<p>A 50-mile wide band of thunderstorms extending from the southwest to the northeast part of Oklahoma moved northeast causing widespread wind damage. Most communities experienced limited electric outages as numerous broken trees downed power lines. A large brick and concrete block wall was blown over at a new church under construction in Lawton and a barn was blown down east of the City. Several barns and sheds were blown down or destroyed in the Chickasha area between 9:45 PM and 10:15 PM. Winds at Pauls Valley blew away the roof of a new service station nearing completion. The Oklahoma City area received gusty winds up to 45 MPH between 8:00 PM and 1:00 AM and a maximum gust of 56 MPH at 10:15 PM. The wind blew in two large windows at a northeast-side shopping center, downed trees and limbs blocking streets, put street lights out of order, and placed two northwest- and northeast-side areas in darkness for more than an hour. Winds estimated at 60 MPH hit in Nowata County after 10:30 PM and broke out five large double plate glass windows, unroofed a building, and caused power outages up to two hours as lines were cut by many downed limbs and trees. A barn was also blown down at nearby Matova.</p>									
Wilson, near, Carter County	8	5:05a.-5:06a.			0	0	0	0	Hail
<p>A brief hailstorm provided a small area 4 miles south of Wilson with a 10 percent coverage of 3/4-inch size hail. No damage was reported.</p>									
Greer, Kiowa, Comanche, Caddo, Grady, and Garvin Counties	9	6:00p.-12:00 mid night	135	*12	6	0	6	5	Thunderstorm, hail, and wind
<p>Severe thunderstorm forming in eastern Greer County moved eastward with extensive hail damage to crops and property along a variable path through central Kiowa County, northern Comanche County, southern Caddo and Grady Counties, and into the central part of Garvin County. Hail up to 1-inch size damaged small grains along a 12-mile path east from Mangum. Up to 6,000 acres of wheat were hailed out by a coverage of hail varying from 3/4- to 1 1/2-inch size along a 2-mile wide path across central Kiowa County between 6:00 and 7:00 PM. Another hailstorm averaging 3/4- to 2-inch size stones moved from 5 miles southwest of Mountain Park northeastward into the Copperton area by 7:00 PM where hailstones varied up to 2 5/8 inches in diameter and joined the main thunderstorm which then took an eastward course. An Air Force C124 Globemaster flew into the storm just south of Copperton shortly after 7:00 PM and exploded with loss of all six persons aboard and the 1.7 million dollar aircraft. Cause of the crash was described as massive disintegration due to a severe thunderstorm. A large wheat field was hailed out between Sedan and the Wichita Mountains Wildlife Refuge as the storm moved east. Greatest hail loss over a 36- by 8-mile path was in the Eigh-Fletcher area by 8:15 PM when hail averaged 2-inch size and some measured up to 3 inches in diameter. A 100 percent replacement of roofs required at Fletcher, hundreds of windows broken and crops and trees heavily damaged by hail and high winds. Hail varied from 3/4- to 2-inch size over the rest of the path. Rains along the path varied from 2 to 3 inches with an unofficial report at Rush Springs indicating 3 inches falling in an hour. Thunderstorm damage 75 percent of \$2,219,000 total, hail 24 percent, and wind 1 percent.</p>									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

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) Snyder, near, Kiowa County	9	8:00p.- 8:30p.	8	*4	0	0	?	?	Hail
Greer County	10	10:00a.- 10:15a.	7	*2-3	0	0	4	5	Hail
Caddo, Comanche, and Grady Counties	10	10:00a.- 9:00p.			0	1	5	0	Rains, hail, tornado, and 2- funnels aloft
Wallville, Garvin County	10	2:15p.- 2:25p.	2	*1	0	0	4	4	Hail
Cimarron County	10	3:00p.- 4:00p.			0	0	4	0	Electrical
Cimarron County	10	After- noon			0	0	0	0	Tornado and funnels aloft
Texas County	10	After- noon			0	0	?	?	Funnel aloft, wind, and rain
Turpin, near, Beaver County	10	4:00p.- 4:30p.	6	*3	0	0	?	?	Hail
Gotebo, Kiowa County	10	4:50p.- 5:30p.	6	?	0	0	?	?	Hail
OKLAHOMA (Cont'd) Canadian, Oklahoma, Logan, and Lincoln Counties	10	6:00p.- 7:30p.			0	5	*6	C	Rain, hail, wind, and 3 funnels aloft
Havia, near, Johnston County	10	6:15p.- 6:30p.	8	100	0	0	2	0	Tornado
Shattuck, near, Ellis County	10	About 6:45p.	?	?	0	0	0	0	Tornado
Earlsboro, near, Pottawatomie County	10	7:30p.- 7:45p.	?	?	0	0	0	0	Hail
Garvin and Cleveland Counties	10	7:30p.- 8:10p.	6	*4	0	0	?	?	Hail
Natura, Okmulgee County	10	8:40p.	Short	Narrow	0	0	3	0	Tornado
Tahlequah, near, Cherokee County	10	About 10:15p.	2	*1/4	0	0	4	0	Tornado
Okfuskee County	10	10:35p.			0	0	0	0	Tornado

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

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					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (Cont'd)									
Claremore, near, Rogers County	10	About 11:45p.	?	?	0	0	0	0	Tornado
Cache, Comanche County	14	About 9:30p.			0	0	?	?	Wind
Pawnee, 7 N, Pawnee County	27	About Noon			1	0	0	0	Electrical
Enid, near, Garfield County	27	12:40p.-12:55p.	1	50	0	0	3	0	Tornado and funnel aloft
Ashland-McAlester area, Pittsburg County	27	7:30p.-8:00p.	10	440	0	0	0	0	Tornado
Blair, Jackson County	28	Evening			0	1	2	0	Electrical
OREGON									None reported
PACIFIC AREA									None reported
PENNSYLVANIA									
Crawford County	8	Noon					4		Thunderstorms
Central Counties	9	Afternoon					3		Wind
Near Montrose	19	Afternoon					4		Thunderstorm
Western Counties	24	Night					4		Thunderstorms
PUERTO RICO	1-31				0	0	0	7	Dry spell
RHODE ISLAND									None reported
SOUTH CAROLINA									
Hampton, S. C., Hampton County	21	2:55 pm-3:25 pm			0	0	4	4	Hail
Charleston (4 miles southwest) Charleston County	28	2:05 pm 3/4" hail reported.			0	0	none reported	none reported	Hail
Myrtle Beach (10 miles north), Horry County	28	3:30 pm Pilot reported 3/4" hail.			0	0	none reported	none reported	Hail
SOUTH DAKOTA									
10 NW Huron	1	11:00 A							Funnel cloud
16 SW of Philip To Philip	2	About 3:00 P	16	?	0	0	4	?	Tornado
37 W Pierre	2	6:10 P			0	0	?	?	Tornado
Most of state	5						5	?	Strong winds, hail
North Central Campbell County	5	9:10 P 3/4" #2 1/2"			0	0	5	4	Tornado
Mission Hill	5	PM					3		Tornado
Waubay-Ortley Area	5	9:00-10:30 A	10	?	0	0	3		Hail
50 S Sioux Falls	5	11:00A							Funnel aloft
Clark County	5	5:10-5:25 P	30	#10	0	0	4	?	Hail
65 NE Huron	5	2:50 P							Funnel aloft
Pickeral Lake	5	3:00 P			0	0	0	0	Tornado
Hobridge	5	Evening					3		Hail
15 SE Sisseton	5	3:00 P							Tornado
4 SW Webster	5	PM							Tornado
14 NE Sisseton	5	4:20 P					4		Tornado
Near Pierre	5	PM							Funnel aloft
SE Marshall County	5	PM							2 funnels aloft
Northern Codington	5	2:50 P							Funnel aloft
Memmo-Marion	8	9:15-9:30 P	18	?	0	0	4	4	Tornado
Near Emery	8	AM			1	0	0	0	Lightning
Near Alcester	8	AM			0	0	3	?	Tornado

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

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					KILLED	INJURED	PROPERTY	CROPS	
SOUTH DAKOTA (Cont'd)									
Near Vermillion	8 AM				0	0	0	0	Tornado
		Pilot reported funnel cloud touching ground NE of Vermillion. No damage reported.							
15-20 N Camp Crook	11	3:00 P			0	0	0	0	Tornado
		Tornado sighted but no damage reported.							
TENNESSEE									
Lake County	11	Night			0	0	4	3	Wind and hail
		A wind and hail storm struck an area extending from a mile north of Tiptonville city limits to the Kentucky line. Farm houses and out-buildings were damaged, trees uprooted, and TV antennas destroyed. Thousands of acres of cotton damaged by hail required replanting.							
Near Lafayette, Macon County	20	3:30 p.			1	0	0	0	Lightning
		A man was killed instantly when struck by lightning during a sudden electrical and rainstorm while stacking hay on a truck in a field.							
Nashville, Davidson County	27	2:30 p.			0	0	4	0	Wind
		Strong winds during a thunderstorm damaged the Ford glass plant interrupting production, and did minor damage to trees, utility lines, and signs.							
East Tennessee	27	Night			0	1	4	3	Lightning and wind
		Lightning during severe thunderstorms damaged houses and other buildings, utilities, and killed several livestock in scattered portions of the Cumberland Plateau and Middle East Tennessee. At Knoxville a youth was struck by lightning and knocked unconscious but not seriously injured while cleaning a car with a vacuum cleaner. Wind did minor tree damage.							
Livingston, Overton County	28	11:15 a.			0	1	0	0	Lightning
		A 10-year old boy suffered multiple cuts around his face, head, and upper parts of his body when struck by lightning while playing in the backyard at his home.							
TEXAS									
Near Derby Frio Co.	1	12:30 a	15	*7	0	0	3	5	Hailstorm, wind
		Homes, automobiles, crops, and other property were damaged by a hail and windstorm that struck an area between Derby and Divot, in a strip about seven miles wide and 15 miles long. Hailstones as large as tennis balls damaged some homes. Windows were broken and some roofs virtually destroyed. Peanuts, corn, watermelons, cantaloupes, maize, and grazing crops were heavily damaged. Seventeen acres of bantaloopes nearly ready for harvest were destroyed on the Howard Bennett Farm at Derby. Property damage from hail was estimated at \$5000; crop damage at \$0.5 million. High winds blew over a few outbuildings.							
Near Bellevue Clay Co.	1	6:49 p							Funnel aloft
Temple Bell Co.	1	1:30 p-1:50 p	?	3000	0	20	6	?	Windstorm
		Strong thunderstorm winds cut a 30-block-wide swath of damage through Temple injuring 20 persons. It appeared from eyewitness accounts that a micro cyclone moved across the city without actually dropping a tornado. One witness, west of Temple, said "the clouds gathered into a whirling mass about a mile wide, white on the fringes, and moved across town to dissipate to the east of Temple." There were no known witnesses within the city who actually saw a tornado funnel although one reported hearing a loud roaring noise. Personal injuries ranged from broken bones to superficial cuts which required only minor treatment. Among the worst hit buildings was Emerson Elementary School, where the cafeteria - roughly 20 per cent of the building - was demolished. The most severe damage ranged from French Avenue on the north to about Avenue T on the south. Plate glass windows in many businesses were blown out. Automobiles were blown off streets and trees blown down on buildings and parked cars. Four homes were destroyed, nine homes and buildings received major damage, and 180 homes received minor damage. Property damage was estimated at \$1.0 million. Only six persons were hospitalized. Small hail and an estimated two inches of rain accompanied the storm.							
13 NE Brenham Washington Co.	1	4:30 p-4:35 p	5	*1/2	0	0	4	0	Tornado
		A tornado struck in a rural section of Washington County about 13 miles northeast of Brenham along the Navasota highway. One house was destroyed, four received major damage, and 10 others received minor damage. The house destroyed by the tornado was vacant. According to an eye witness, the house "just seemed to explode" when struck by the tornado. Twenty-two farm buildings were destroyed and twelve others received major damage. Total property damage was estimated at \$25,000.							
Westphalia Falls Co.	1	afternoon	?	2	0	0	?	?	Hailstorm, windstorm
		High thunderstorm winds demolished several barns and sheds in a two-mile wide strip in the Oensville, Westphalia, and Roesbud communities. Two large grain bins were blown from their foundations and destroyed. Hardest hit were farmers in the Westphalia section who had much of their crops entirely destroyed by hail and driving rain.							
TEXAS (Cont'd)									
Near Athens Henderson Co.	1	night	?	?	0	0	?	?	Windstorm
		High thunderstorm winds battered Athens, Eustace, and Baxter. Some houses were unroofed, trees blown down, several barns and sheds were demolished, and dozens of television antennas were flattened. In the Baxter Community, a service station was demolished, and the bed of a dump truck was lifted from the truck and set down in a field; about 6 utility poles were broken in half.							
Yoakum Lavaca Co.	2	?	?	?	0	0	?	?	Hailstorm
		Baseball-size hail pounded the Yoakum area in one of the most severe hailstorms recalled by local residents.							
Electra, and Wilbarger Co.	7	3:30 a	11	*3/4	0	0	?	?	Hailstorm
		Hailstones damaged most buildings in the downtown section of Electra. Most of the damage was to roofs and windows of buildings, and to automobiles. Two school buildings suffered heavy window damage. Hailstones ranged up to the size of lemons. Wheat was damaged by hail northwest of Vernon in the White City community. On the Burt Dockery farm about 10 miles from Vernon, the damage was estimated to run from 60 to 75 per cent of the crop.							
Old Glory Stonewall Co.	7	?	?	?	0	1	?	?	Windstorm
		High thunderstorm winds struck the Old Glory community causing some damage to barns and outbuildings. One man was injured when he was blown into the wall of a barn.							
1 NW Rotan Fisher Co.	7	3:50 p-4:05 p	2	250	0	0	2	0	Tornado
		A tornado struck an implement shed about one mile northwest of Rotan and scattered it for one-half mile. It skipped about 3/4 mile, turned northeast, and destroyed a vacant house and a wind-mill tower.							
Roby Fisher Co.	7	5:30 p-5:40 p	1	narrow	0	0	3	0	Tornado
		A small tornado touched ground on highway about 4.4 miles west of Roby. Several utility poles were blown over.							
7 W Big Spring Howard Co.	7	5:30 p-	?	?	0	0	?	?	Tornado
		A tornado touched ground on the Cowden farm, about seven miles west of Big Spring destroying a barn and several outbuildings.							
Colorado City Mitchell Co.	7	5:45 p-6:15 p	8	*1/2	0	0	4	0	Tornado
		A tornado moved through the north edge of Colorado City. The north side of a Latin American church was ripped away and many outbuildings were destroyed. Some rooftops were damaged, and windows blown out of houses in the north section of town. Several barn roofs were blown off northeast of town. Property damage was estimated at \$50,000. The tornado moved from west-southwest to east-northeast.							
Fort Stockton, 4 NW Pecos Co.	8	5:50 p	short narrow	0	0	0	0	0	Tornado
		A tornado churned harmlessly across ranchland about four miles northwest of Fort Stockton. It moved from west to east, and touched ground for only a short time.							
2 W Ineders Jones Co.	9	6:45 p							Funnel aloft
Spring Creek Hutchinson Co.	10	1:30 p	?	?	0	0	5	?	Hailstorm
		Hail the size of hen eggs fell in the Spring Creek community near Borger breaking out over 3,000 panes in the glass greenhouses and doing considerable damage to building roofs in the area. Damage to property and stock at the Borger Greenhouse and Nursery was estimated at \$75,000. At least one automobile windshield was broken out by the hail, and a number of other vehicles were damaged. Hail stacked up in drifts up to a foot deep in some places.							
Gordonville Grayson Co.	10	5:30 p-6:00 p							2 funnels aloft
		One funnel was observed aloft over the east edge of Gordonville; another was observed about three miles northwest of town. The funnels moved in a northeasterly direction.							
Eagle Pass Maverick Co.	10	9:15 p-10:30 p	15	*2	0	6	4	3	Windstorm, funnel aloft
		Six persons were injured when high thunderstorm winds destroyed several trailer houses, caused major damage to nine houses, and minor damage to 103 other houses in Eagle Pass. Four persons were injured when their 35-foot house trailer was lifted, spiraled by the wind, and dumped upside down 200 feet from its base. A fifth person in the trailer was apparently unhurt. Two light aircraft were destroyed and bleachers at a ball park wrecked. A funnel cloud was sighted in the area but did not touch ground. The storm moved from north-northwest to south-southeast. Heavy rains, up to 1/2 to 7 inches unofficially; and hail 1/2 to 3/8 inches in diameter accompanied the storm.							
Near Crawford McLennan Co.	11	3:12 p							3 funnels aloft
		Three funnel clouds observed aloft moving from west to east.							
Iowa Park Wichita Co.	12	4:00 a	?	?	0	0	?	?	Hailstorm
		Hailstones measuring 1 3/4 to 2 3/4 inches in diameter fell in Iowa Park. Damage was not thought to be heavy.							
Near Littlefield Lamb Co.	14	afternoon	short narrow	0	0	0	0	0	Tornado
		A tornado touched ground briefly in open country south of Littlefield but caused no damage.							

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STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

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					KILLED	INJURED	PROPERTY	CROPS				
TEXAS (Cont'd)												
Borger Hutchinson Co.	15	evening	?	?	0	0	4	0	Windstorm High thunderstorm winds blow over a sign which knocked a 15 by 30-foot hole in the roof of the Holt Food Store. Twenty-five customers in the store all escaped injury. Damage was estimated at \$10,000.			
Calhoun Co.	20	9:45 a							Waterspout A waterspout was observed about 45 miles west-southwest of Palsios moving northwest.			
10 SE Jacksboro Jack Co.	22	3:28 p	short narrow		0	0	0	0	Tornado A tornado touched ground briefly in open country about 10 miles southeast of Jacksboro.			
23 SE Corpus Christi Nueces Co.	25	afternoon							Waterspout A waterspout was observed in the Gulf of Mexico about 23 miles southeast of Corpus Christi. It was visible only a few minutes and moved out to sea without causing damage.			
13 S Beaumont Jefferson Co.	25	afternoon							2 funnels aloft			
Frio, LaSalle, Uvalde, and Zavalla Counties	29	8:30 p-12:00 a	65	*20	0	0	5	5	Hailstorm, wind Hail pounded crops in the Nueces Valley between U. S. Highway 90 in Uvalde County and Cotulla in LaSalle County. Heaviest damage was to crops in the Batesville area of Zavalla County and between the Frio River and Millet in Frio and LaSalle Counties. An estimated 75 per cent of the crops were destroyed in a zone between the Frio River and Millet. In the Batesville area, between 25 and 100 per cent of the cotton, corn, and feed grain crops in an area seven miles long and five miles wide were destroyed. Crops of blackeye peas and watermelons suffered the greatest damage. Hailstones averaged 1 1/2 inches in diameter with largest stones 3 inches. Hail entirely covered the ground in places, and was stacked up in drifts two feet deep. Large numbers of birds, and many turkeys, deer, goats, and sheep were killed by the hail and heavy rain. In the city of Uvalde, windows were broken on the west side of buildings. Winds were estimated at 75-80 m.p.h., and rainfall measured unofficially at 3 to 5 inches.			
Ellis Co.	29	3:30 p-5:00 p	20	*10	0	0	5	5	Hail, windstorm, heavy rain A hail, wind, and rainstorm stripped cotton and corn, shredded maize and hogear, and flattened wheat in a 10 x 20 mile area of Ellis County. There was considerable property damage to roofs and windows of buildings; large trees were blown over, and utility lines blown down. Heaviest damage was apparently centered on Rockett, Sterrett, Palmer, and near Middlethian and Kirven Gin. Heavy damage was also reported between Alpha and Oak Grove, and at Crisp. Hailstones averaged 1/2 inch in diameter, with largest stones about one inch. Hail covered the ground, and piled up in drifts four feet deep. Three truck trailers, parked along the highway were blown over by the wind, resulting in an estimated \$50,000 damage. Total damage from wind was estimated at \$70,000; from hail, \$84,000; and from rain, \$5,000.			
Near Lona Alta Val Verde Co.	29	8:00 p	?	?	0	0	?	0	2 tornadoes Two tornadoes touched ground in the Devil's Lake area about 15 miles north of Del Rio. One struck on the Bob Mayer Ranch near Lona Alta causing some damage to the ranch house. Windows were blown out of the house and there was some structural damage.			
20 E Del Rio Val Verde Co.	29	evening	?	?	0	0	0	0	Tornado A tornado touched ground on open ranch land about 20 miles east of Del Rio causing no apparent damage.			
3 S Whitharral Hockley Co.	29	7:25 p	1/4	?	0	0	0	0	Tornado Tornado observed on the ground for about one-quarter mile in open farmland. It caused no apparent damage.			
9 SE Snyder Scurry Co.	29	?	?	?	0	0	0	0	2 tornadoes, 2 funnels aloft Two tornadoes touched ground near the Dunn community about nine miles southeast of Snyder. No damage was reported. Two additional funnels were sighted aloft in the same area.			
Clyde, and Callahan Co.	30	9:30 p-10:00 p	?	?	0	0	4	5	Hailstorm Hailstones up to about one inch in diameter damaged roofs to about 200 homes and business houses in Clyde. Hail damage was extensive in other isolated areas over Callahan County. A number of wheat and oat crops were totally destroyed. Fruit crops and gardens in the hail areas were also destroyed. The ground was entirely covered by hail in places. Property damage was estimated at \$35,000 and crop damage at \$145,000.			
15 WSW Eldorado Schleicher Co.	30	2:00 p	?	?	0	0	0	0	Tornado A well developed tornado moved east-northeast across open ranchland about 15 to 20 miles west-southwest of Eldorado. It caused no damage.			
Hardeman Co.	30	6:20 p-6:40 p	10	*5	0	0	?	?	Hailstorm, heavy rain Hail damaged ripened wheat and young cotton in the western portion of Hardeman County from about Lake Pauline to Goodlett. Some wheat fields were damaged 50 to 80 per cent, and a few sustained 100 per cent damage. Hailstones averaged one inch in diameter and completely covered the ground in places. Largest stones were two inches in diameter. Unofficial measurements of 3 1/2 to 4 inches of rainfall were reported in the area.			
Bastrop Bastrop Co.	30	night			0	0	?	0	Lightning The Katy railroad depot in Bastrop was half destroyed by a fire that was believed to have been started by lightning.			
UTAH												
Northern Utah	1	P.M.						3	Heavy snow. A heavy, wet snowstorm caused numerous power failures. Two Boy Scout troops on an overnight camp were stranded near Mueller Park and had to be rescued by Jeep posse. More than 14 inches of snow reported on east bench area of Salt Lake City, breaking trees and damaging automobiles. Melting snow caused local flood damage.			
Salt Lake Valley	7	Afternoon						1	Lightning A telephone lineman was knocked unconscious when struck by lightning near Midvale. No other damage.			
VERMONT												
Northern Portion	9	P.M.			0	0	4	0	Wind, Hail, Rain Trees and limbs felled with damage to utility lines in many communities. Hardest hit was Newport and vicinity where one trailer home was demolished and another damaged. Hail, mostly 1/2 to 1 inch but ranging up to over 1 inch diameter, covered much of the ground and broke some windows. Many cellars flooded by excessive rain at Newport. Many phones knocked out of service.			
State	19	Midday and P.M.			0	0	4	0	Lightning, Wind, Hail Scattered lightning and wind damage during thunderstorms. Trees, utility lines and some buildings were affected. Most cases were reported in northern half of State. Hail also accompanied storms in some areas, with two separate hailstorms observed at St. Johnsbury. Little or no damage by hail.			
North Enosburg	22	10:45 A.M.	1/4	100	0	0	3	0	Vortical Wind? An apparent vortex had strength sufficient to top a pine tree, damage a barn, and remove the roof of a building under construction. The general wind was light, with light rain or drizzle. Thunder, loud roaring, or any visible funnel were not reported. Some thunderstorms were reported elsewhere in northern Vermont however. Though locally called "some kind of a tornado," available evidence is insufficient to definitely label this a tornado.			
U. S. VIRGIN IS.	1-31							0	0	0	6	Dry spell See Puerto Rico
VIRGINIA												
Prince George, James City Counties	12	PM							4			Wind & electrical Thunderstorms originating near Hopewell moved eastward and brought extensive wind and electrical damage to the two counties. Moderate to strong gusty winds destroyed 4 farm outbuildings and 1 car garage. Electrical power was disrupted at Hopewell as cables were downed by fallen trees. Fire from lightning destroyed 1,000 bales of cotton in storage near Hopewell.
Pittsylvania County	13	PM	5					4	C			Wind & hail A thunderstorm moved in a northeast direction between Collands and Gretha. Minor hail damage to tobacco crops reported and a 1,000 foot wall section of a tobacco warehouse was blown down.
Augusta County	13	PM							5			Lightning Lightning fire destroyed church at Fishersville with \$100,000 estimated damage.
Pittsylvania County	17	PM	10	1/2					4			Hail Marble sized hail up to 2 inches in depth destroyed some tobacco plant beds near Gretha. Other crops were damaged and strawberry patches and early gardens ruined.
Culpeper County	17	PM			1	0						Lightning Man struck and killed by lightning at Elkwood.
WASHINGTON												
Spokane County	16	1715 PST	3/4	300	0	0	3	0				Wind. High wind associated with thunderstorm activity resulted in minor damage to the control tower at Spokane International Airport and several telephone poles near the field were blown down.
Walla Walla County	22	1419 PST			0	0	0	0				Funnel cloud. A funnel cloud was reported 20 miles southwest Walla Walla. Funnel appeared to touch the ground briefly in a barren area causing no damage.
Spokane County	22	1335 PST			0	0	0	0				Tornado. A funnel cloud was observed 8 miles west of the Spokane International Airport. The funnel touched the ground for a period of approximately 4 minutes in a barren area causing no damage.
WEST VIRGINIA												
New Martinsville	19	1830E.			1	0	2					Thunderstorm and lightning. Golfer was killed by lightning on 9th hole. Lightning also damaged some roofs and caused power outages.
WISCONSIN												
Superior	4	12:30 PM			0	0	4	0				Wind Damage to buildings, signs, trees.
Brule	4	2:30 PM										Hail From 1/4 to 1 1/8 inch diameter.
Glidden	4	3:00-3:15 PM										Hail 1 1/4 inch diameter.

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS		
WISCONSIN (Cont'd)										
Eau Claire	4	4:32-4:36 PM		3/4 inch diameter.	0	0			Hail	
Park Falls	4	5:00 PM		Diameter to 1 1/2 inches.					Hail	
Jackson County	4	5:00 PM	9	200	0	1	5	0	Tornado	
									Started 2 miles southeast of Melrose and traveled to northeast. Damage to farm buildings and trees.	
Crawford County	4	8:00-8:45 PM	25	200	0	2	5	0	Tornado	
									Entered Wisconsin from Harper's Ferry, Iowa, at Lynxville. Moved to northeast, west of Eastman, Mt. Spering, Fairview to Rising Sun. Minor crop damage. Hail along path, up to 2 inches in diameter in northern Crawford County.	
Juneau County	4	8:00-8:20 PM	6	100	0	0	4	0	Tornado	
									In towns of Fountain and Orange in northwest part of county. Farm buildings and swath through wooded area. Moved toward northeast.	
St. Germain	4	6:00 PM		125	0	0	4	0	Tornado	
									1/2 mile from St. Germain. Touched down twice. Crossed over Big St. Germain drawing water to a height of 200 feet. Damage to resorts and woods.	
Juneau County	4	8:30 PM		25	0	0	3	0	Tornado	
									Touched down at least 2 times 3 miles west of Necedah.	
Blair	4	early evening			0	0	3	0	Hail	
									3/4 inch in diameter.	
Whitehall	4	early evening			0	0	3	0	Hail	
									1 1/4 inch diameter.	
LaCrosse County	4	early evening			0	0	4		Wind	
									Major damage to buildings on two farms.	
Burnett County	5	12:15 - 12:45 PM	6	1500	0	0	3	0	Hail	
									Webb Lake area. Hail up to 1 3/4 inch diameter stripped leaves from trees.	
Cumberland 7W	5	2:15 PM		100	0	0	4	0	Tornado	
									Destroyed buildings and trees on farm.	
Eau Claire	6	12:33 - 12:40 PM			0	0	4	0	Hail, wind	
									Hail up to 3/4 inch diameter. Wind gusts to 69 m.p.h.	
LaCrosse	7	2:02 - 2:45 PM			0	0	0	0	Hail	
									Three periods of hail with diameters up to 3/4 inch.	
Sparta	7	2:30 PM							Hail	
									Hail up to 1 inch diameter.	
Juneau County	7	2:30 PM	4	30	0	1	3	0	Tornado	
									Began 1 mile north of Meadow Valley, traveling ENE. Destroyed some of the buildings on one farm.	
Juneau County	7	3:30 PM			0	0	3	0	Hail	
									South of Necedah. Hail diameters up to 1 1/4 inch covered ground to 3 inch depth.	
Washara County	7	3:30 PM			0	0	3	0	Hail	
									Hail up to 1 1/2 inches diameter fell for 8 minutes in Bancroft area.	
Oshkosh	7	5:15 PM			0	0	4	0	Hail	
									Up to 3/4 inch diameter and 1 inch deep.	
Berlin	7	5:30 PM			0	0	5	0	Hail	
									Up to 2 inch diameter	
Wisconsin Rapids	7	6:00 PM		100	0	14	5	0	Tornado	
									Touched down for three blocks, through trailer court in southwest suburb. Moved to east.	
Chilton	8	10:30 AM			0	0			Hail	
									Diameter to 1 1/2 inches.	
Coddington	8	5:00 PM			0	0			Hail	
									Diameter to 1 1/2 inches.	
Vernon County	8	5:30 PM	35	300	0	1	5	0	Tornado	
									First sighted near 2 1/2 miles southeast of Readstown, followed highway 131 to Elk River, through Hopewell Ridge, through West Lima area to 3 miles southwest of Hillsboro. General direction to northeast.	
Marathon County	8	4:50 PM	12	5000	0	0	5	0	Tornado	
									Through towns of Bevent, Reed, Guenther and Elderon in southeastern Marathon county. Moved to northeast.	
Clintonville 1 W	8	5:00 PM	3	200	0	1	5	0	Tornado	
									First touched down near Iola destroying a farm, then for a three-mile stretch west of Clintonville where buildings on three farms destroyed. Traveled northeast from Manawa to west of Clintonville	
WISCONSIN (Cont'd)										
Juneau-Adam County	8	5:15 PM	25	150	0	0	5	0	Tornado	
									First sighted in town of Kildare in Juneau county crossing over to Adams county 12 miles south of Adams. Traveled to northeast.	
Fox Cities area	8	6:30 PM	35	25-100	0	5	6	0	Tornado	
									From Winneconne through Fox Point shopping area, skirting southeast limits of Appleton to Wrightstown. Apparently lifting and touching down along route. Traveled to northeast.	
Marinette	8	afternoon						4	0	Hail
									Up to 3/4 inch diameter.	
Milwaukee 24 NE	8	8:37 PM			0	0			Waterspout	
Mauston	9	6:00 PM			0	0			Hail	
									Diameter to 3/4 inch.	
State	23	afternoon-evening						6	0	Wind
									Squall line covered over state.	
Fierce County	23	6:00 PM							Hail	
									Diameter to 2 inches. 2 mile swath from Esdaille to Rush River.	
Buffalo County	23	7:30 PM	2	100	0	0	4	0	Tornado	
									Began 5 miles southwest of Gilmanston, moved NE for 2 miles, touched down several times.	
Trempealeau and Jackson County	23	7:30 PM	10	100	0	0	5	0	Tornado	
									Touched down several times. Began southwest of Pleasantville, moved through that town and northeastward ending in the northwestern part of Jackson county.	
Mauston	23	10:00 PM			0	0			Hail	
									Diameters to 5/4 inch.	
Grantsburg	23	evening							Hail	
									Diameters up to 1 inch.	
Belleview	30	13:28 C			0	0	0	0	Tornado	
									Touched down momentarily in field northeast of Belleview. Apparently family of funnels as 7 reports of cloud form at different locations.	
WYOMING										
Lagrange 10 E	2	11:20 a.	?	?	0	0	0	0	Tornado	
									Public reported a tornado ten miles east of Lagrange but no movement was reported and no damage reported.	
Lander 20 SE	27	11:00 a.							Funnel aloft	
									Funnel cloud observed by public and two Lander Weather Bureau personnel; funnel did not touch ground.	
Rawlins 15 N	29	1:00 p.	?	?	0	0	0	0	Tornado	
									Tornado appeared to touch down in the Separation Flats area fifteen miles north of Rawlins. No damage was reported.	
Casper 30 SW	29	1:40 p.			0	0	?	?	Hail	
									Two to three-inch diameter hail 8 to 10 inches deep reported by public to Casper Weather Bureau. Amount of damage unknown.	

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1964

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
FLORIDA Jacksonville Duval Co.	2	2:25 pm	Short	Narrow	0	0			Tornado
			Tornado observed about 2 miles northwest of Ineson airport moved southwestward touching down briefly in uninhabited area.						
NORTH FLORIDA: Madison, Hamilton, Baker, Union, Clay, Columbia, Duval, St. Johns, Putnam and Bradford Counties.	2	Entire Day			2		1	1	Rain and Flood
			Heavy rains extreme northern peninsula counties caused considerable local flooding on most streams and forced evacuation of some residential areas. Maxwell and Middleburg communities hardest hit. Two persons drowned at Maxwell while fleeing rising waters. Hail fell in scattered areas and caused some crop damages.						
Miami Dade Co.	3	2:15 am			0	2	5		Wind
			Storm affected north Dade county with major portion of damage located in vicinity of N.W. 195th St. and 11th Avenue.						
Roseland Indian River Co.	3	Early Morning			0	0	4		Wind
			High winds in area unroofed 2 residences and damaged several additional residential and commercial buildings in the area.						
Fort Lauderdale Broward Co.	12	10:00 am							Funnel Cloud
Key West Monroe Co.	14	12:27 pm							Waterspouts (2)
West Palm Beach Palm Beach Co.	16	12:07 pm							Waterspout
Opa Locka Dade Co.	18	9:20 am							Funnel Cloud
Miami Dade Co.	22	4:15 pm							Funnel Clouds (3)
Carrabelle Franklin Co.	25	10:30 am							Waterspout

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

* Miles instead of yards.

¹ Includes crop damage.

C Crop damage.

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

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

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

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