

MAY 1977

VOLUME 19

NUMBER 5

STORM DATA



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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL / NATIONAL CLIMATIC CENTER
DATA SERVICE / ASHEVILLE, N.C.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
ALABAMA									
Mobile County	2	8:30a	0	0	0	0	4	0	Windstorm
		A severe thunderstorm near the community of Grand Bay destroyed several chicken coops and a brick column.							
DeKalb County	7	3:45p	0	0	0	0	0	0	Hail
		A severe thunderstorm 10 miles northeast of Fort Payne produced golf ball size hail that covered the ground and stripped some trees.							
Tuscaloosa County	8	1:45p	0	0	0	0	0	0	Hail
		Golf ball size hail fell at the Tuscaloosa Airport briefly.							
Jefferson County	8	2:25p	0	0	0	0	0	0	Hail
		A severe thunderstorm produced golf ball size hail near the community of Adamsville.							
Jefferson County	8	3:00p	0	0	0	0	3	0	Hail
		Golf ball size hail from a severe thunderstorm fell in the city of Birmingham at the fairgrounds. Slight damage occurred to the roof of the Exhibition Hall and several windows were broken in a shopping area nearby.							
Calhoun County	8	3:43p	0	0	0	0	0	0	Hail
		Golf ball size hail was reported at the Arliston Airport from a severe thunderstorm.							
Jefferson County	8	4:30p	0	0	0	0	0	0	Hail
		A severe thunderstorm near the community of Graysville produced golf ball size hail.							
Jefferson County	8	5:05p	0	0	0	0	0	0	Hail
		Golf ball size hail just east of Gardendale from a severe thunderstorm.							
Geneva County	26	3:40p	75**	20	0	0	3	0	Tornado
		A mini tornado touched down in the city of Geneva destroying a stadium fence and a doghouse. Eyewitness stated "it came down like a ball then lifted and moved east northeast as a funnel cloud."							
Baldwin County	27	1:00p	0	0	0	0	3	0	Windstorm
		Strong winds brought down some power lines and caused minor damage in the Bay Minette community. Lightning from the storm started 4 fires in a 20 minute period.							
Washington County	27	5:00p	0	0	0	0	0	0	Hail
		Several reports of 3/4 inch hail in west central Washington County from a line of severe thunderstorms.							
Mobile County	31	3:30p	0	0	0	0	0	0	Hail
		3/4 inch hail was reported 12 miles north of Mobile during a severe thunderstorm.							
Extreme south and southeast Alabama	1-31		0	0	0	0	0	6	Drought
		A lack of rain during the month of May has destroyed about 30 percent of the early corn crop and delayed the planting of soybeans.							
ALASKA									
Central Yukon River Valley	16-18				0	0	5		Ice jam flooding
		Major flooding due to ice jams during spring breakup occurred in the central Yukon River valley May 16-18. The town of Galena sustained considerable flood damage to buildings. The Yukon River at Galena crested about 5 feet above flood stage late on May 17.							
Kenai Peninsula	17-18				0	?	6		Heavy rain and mudslides; strong winds
		A late winter storm moved northward through the Gulf of Alaska toward the Kenai Peninsula on May 17. Easterly winds unofficially reported at 70 knots in Turnagain Arm literally blew some trucks and campers off the road on the north shore of Turnagain Arm on the evening of May 17. Heavy rains followed later that night and on May 18. About 3 inches of rain fell over most of the Kenai Peninsula mountains. A very large mudslide caused by the rain occurred about 18 miles north of the town of Seward on the night of May 18. The slide buried the tracks of the Alaska Railroad's main line from Seward to Anchorage at this location and carried a 285 foot precast concrete highway bridge 200 feet from its pilings. Both the road and rail line from Seward to Anchorage were closed to all traffic for almost a week.							
ALASKA (continued)									
Lower Kuskokwim River	23-26				0	0	5		Ice jam flooding
		Major flooding due to ice jams during spring breakup occurred on the lower Kuskokwim River during the 4th week of May. Flooding occurred at Bethel from May 23-26; the Kuskokwim River at Bethel crested about 1/4 feet above flood stage late on May 23. The high water and ice destroyed a bridge; there was some damage to buildings in the town due to the high water.							
ARIZONA									NONE REPORTED
ARKANSAS									
Taylor - Columbia County	1	2:55 p.	1 1/2	30	0	0	4	0	Tornado
		A tornado moved through the downtown area of Taylor. Several buildings were damaged or destroyed. Movement was toward the west. Damage was estimated to be 40 thousand dollars.							
Little Rock - Pulaski County	8	12:10 p. to 12:20 p.							Funnel Clouds
		Two funnel clouds moving toward the southeast were reported by the public and local police. Both were sighted near downtown Little Rock. Numerous occurrences of pea to marble sized hail were also reported at the time.							
Near Elaine - Phillips County	8	12:15 p.	1/4	20	0	0	0	0	Tornado
		A tornado moving toward the southeast touched down briefly near Elaine. No damage was reported.							
4 Miles South of Brinkley - Monroe County	8	2:30 p.	**100	15	0	0	0	0	Tornado
		A tornado moving toward the southeast touched down briefly in an open field. No damage reported.							
Little Rock - Pulaski County	8	5:04 p. to 6:33 p.			0	0	4	0	Wind and Lightning
		Very heavy thunderstorms moving southeastward through the area produced winds of up to 60 mph. Two mobile homes were destroyed in North Little Rock and lightning started a home fire which caused 17 thousand dollar damage.							
Near Manila - Mississippi County	22	7:10 p.			0	0	0	0	Hail
		Thunderstorms moving northward through the area produced golf ball sized hail. No damage was reported.							
Lonoke - Lonoke County	23	3:05 p.			0	0	4	0	Wind and Hail
		Intense thunderstorms produced strong winds and one-inch hail. A discount department store under construction sustained major damage with minor damage and flooding reported elsewhere in the community. Damage was estimated at 45 thousand dollars.							
Walnut Ridge - Lawrence County	23	6:40 p.			0	7	5	0	Lightning
		Lightning produced by heavy thunderstorms set fire to a large manufacturing plant. Damage was estimated at 100 thousand dollars.							
Tumbling Shoals - Cleburne County	30	5:30 p. to 6:30 p.			0	1	0	0	Lightning
		Lightning produced by thunderstorms moving through the area injured a thirteen year old girl. Injuries were minor.							
Henderson, Culp, and Cassville - Baxter County	30	6:00 p.			0	0	0	0	Wind and Hail
		Intense thunderstorms moving through the county produced strong winds and hail ranging from 1/2 to 1 inch in diameter. Damage was limited to trees.							
1 Mile North of Tuckerman - Jackson County	30	6:50 p.	**100	15	0	0	0	0	Tornado
		A tornado moving toward the east touched down briefly in an open field. No damage was reported.							
Jonesboro - Craighead County and Marked Tree - Poinsett County	30	7:25 p.			0	0	4	0	Wind
		Strong thunderstorms moving through the county produced winds up to 60 mph. Power lines and trees were extensively damaged along with some mobile homes and store windows.							

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					KILLED	INJURED	PROPERTY	CROPS	
ARKANSAS (continued)									
Blytheville - Mississippi County	30	8:16 p.			0	0	3	0	Wind
									Winds up to 60 mph were produced by thunderstorms moving through the county. Damage was confined mainly to trees and power lines.
Near Nashville - Howard County	31	6:00 p.			0	0	?	?	Hail
									Thunderstorms moving southeastward through the area produced one-half to three-quarter inch hail.
CALIFORNIA									
NORTHERN & CENTRAL									
Napa, Napa County	16	4:00p			0	0	4	0	Wind
									Strong winds uprooted trees and ripped off and lifted a tin roof about 25 x 36 feet, depositing it about one block away. Storm moved south.
CALIFORNIA									
SOUTHERN									
Los Angeles County	7	0745PST							Waterspout
									A waterspout was reported off Palos Verde Point.
	8				2	?	?		Wind, Rain and Lightning
									Heavy winds and rain caused numerous automobile accidents. Lightning knocked out several power transformers leaving sections of the Los Angeles Basin without electricity for short periods.
Long Beach, Calif	8	1000PST	1 1/2	100	0		6	0	Tornado
									A Tornado touched down near 12th and Cedar in Long Beach and moving in a North Westerly direction caused serious damages to several homes and businesses, uprooted numerous trees and power poles and damaged 25 automobiles.
Santa Barbara County	8	1545PST							Waterspout
									A Waterspout was reported south of the city of Santa Barbara.
Ventura, Los Angeles, Orange Counties	9	0825 to 1418 PST							Funnel Clouds
									Numerous Funnel Clouds were reported in the areas of Oxnard, El Monte, Long Beach, Santa Ana and El Toro marine Base. Duration and movement unknown.
COLORADO									
Greeley (Weld Co.)	01	1400	0.1	80	0	0	?	?	Tornado
									Public reported and photographed a tornado 3 miles north of Greeley. A funnel cloud was reported west of Greeley at same time.
Fort Collins (Larimer Co.)	01	1505			0	0	?	?	Hail
									Hail up to golf ball size southeast of Ft. Collins on highway I-25.
Lamar (Prowers Co.)	01	1855	0.1	80	0	0	?	?	Tornado
									Tornado touched down briefly 7 miles east southeast of Lamar.
Lamar	01	1900	0.1	80	0	0	?	?	Tornado
									Tornado touched down briefly 7 miles east of Lamar.
Lamar	01	1900	0.1	80	0	0	?	?	Tornado
									Tornado touched down briefly 7 miles east of Lamar, near preceding one.
Northeast Colorado	01	afternoon			0	0	6	6	Heavy rain & hail
									U.S. Highway from Eaton (5 miles north of Greeley) to the Wyoming border was closed for a time due to heavy rain. Schools were closed the next day after water damage to roads near Ault and Eaton. Six inches of rain fell at Flagler. A 6 square mile area to the northeast of Pierce (10 miles ENE of Fort Collins) had hail to a depth of 2 feet, with damage to 10,000 acres of sugar beets and 1500 acres of onions.
Denver	07	1932			0	0	?	?	Hail
									Baseball sized hail damaged windows in Wheatridge. Hail was 4 inches deep in Arvada. 3/4 to 1 inch diameter hail fell in Westminster and Kittredge (20 miles WSW of Denver).
Northeast Colorado	10	afternoon			0	0	?	?	Hail
									3/4 inch diameter hail at Livermore (15 miles NW of Ft. Collins) and at Grover (32 miles ESE of Cheyenne, WY). Wind gusts of 72 MPH at Ft. Collins.
Northeast Mountains	11,12				0	0			Heavy snow
									Many campers and fishermen were stranded by heavy snow in the mountains west of Fort Collins, where generally 6 inches of snow accumulated. The highest amount was 10 inches at Berthoud Pass, where traffic was stopped for a time.
Nucla (Montrose Co.)	12	afternoon			0	0	3	?	High wind
									Damage to several homes. Wind gusts 70 MPH at airport.
COLORADO (continued)									
Rabbit Ears Pass Gore Pass, Gilpin County and Boulder	14,15	night			0	0	5	7	High winds
									High wind damaged snow-laden trees in a path 2 to 3 miles wide and 30 miles long from Gore Pass to Rabbit Ears Pass and east of the Continental Divide to Coalmont. Falling timber damaged a hotel in Steamboat Springs, and Buffalo Pass road was closed due to fallen timber. Ten million board feet of timber was destroyed. Winds up to 100 MPH felled hundreds of trees in Gilpin County and damaged telephone and power lines extensively. Lumber and steel tanks were blown around in Boulder canyon.
Midway (Baca Co.)	18	1750	9	500	0	0	6	6	Tornado
									Tornado hit 3 farms as it moved from the Cimarron River at a point 24 miles southeast of Walsh. Farm machinery was scattered for half a mile. Eleven outbuildings were demolished, one house and half of another destroyed, and a bunkhouse and corral were destroyed.
Burlington (Kit Carson Co.)	20	1120			0	0	?	?	Hail
									Golfball size hail.
Fort Morgan (Morgan Co.)	23	1450			0	0	4	?	Wind gusts
									Mobile home turned upside down by strong gust.
Las Animas (Bent Co.)	28	2130			0	0	3	4	Wind, hail
									High wind damaged fences, destroyed a garage, and leveled sheds. Hail up to golfball size broke some windows east of Las Animas. Some crop damage as 4 inches of hail accumulated in some places.
Kit Carson (Cheyenne Co.)	29	2310	0.1	80	0	0	?	?	Tornado, hail
									Tornado 5 miles north of Kit Carson, with golfball size hail.
Cheyenne Wells (Cheyenne Co.)	29	2355	0.1	80	0	0	?	?	Tornado
									Tornado touched down 12 miles southeast of Arapahoe (10 miles east of Cheyenne Wells).
Nunn (Weld Co.)	29	afternoon			0	0	3	5	Hail, heavy rain
									Marble to golfball size hail damaged several wheat crops extensively. Some crops were 100 percent destroyed. Some field and roads were damaged by flooding due to heavy rains.
Denver	30	2000-2200			0	0	5	?	Hail
									One inch diameter hail fell near Stapleton airport. One inch to baseball size hail fell in south Denver, damaging some homes and extensively damaging airplanes at Arapahoe County Airport. Hail covered highways to a depth of 6 to 8 inches in south Denver.
CONNECTICUT									
Southern Areas									
	6	3-5 pm			0	0	4	0	Wind
									A strong cold front brought wind gusts to 58 mph causing minor damage. A large tree was struck by lightning in Norwalk and fell upon a house, punching holes in its roof.
Manchester	6	aftern			0	0	3	0	Lightning
									A small hole was blasted into a bedroom wall.
Northern Areas									
	9-10	All Day			0	0	6	0	Heavy snow
									A very late season snowfall caused tobacco crop protective netting to be broken. 8 to 10 inches fell in Norwalk and North Canaan. Much tree and electrical line damage was done because of the full foliage.
Trumbull	12	4 pm			0	0	0	0	Lightning
									A violent blast of lightning blasted a 100 foot pine tree next to the town hall. Town employees felt an electrical current through the telephones and building.
DELAWARE									
Statewide									
	8-9				0	0	4	3	Wind, Sandstorm
									A strong cold front, accompanied by winds of over 50 mph, moved rapidly southward across the state, hitting the northern sections around 9:30 PM on the 8th. A Coast Guard ship near Cape Henlopen reported winds to 70 knots at 11:30 PM (the 8th). Three boats required rescue operations during the early morning hours of the 9th; two of these boats were beached, stranding nine occupants for several hours. Strong gusty winds continued all day on the 9th. Countless trees fell victim, taking down power lines and triggering over 50 power failures over the state. Wind-driven sand damaged young corn and vegetables particularly in central and western Sussex County and portions of Kent County. Visibility dropped to about 20 feet in places, causing some traffic accidents and necessitating the closing of several roads.
FLORIDA									
Miami, Dade County									
	4	11:20 AM EST			0	0	3	0	Funnel cloud
									A small funnel cloud tore the roof off of a house just east of Miami International Airport at 33rd Ave. and 36th Street. Several trees were uprooted, and some power lines and bill boards were blown down. No injuries were reported.
Marion County									
	4	3:30 PM EST			0	1	3	0	Funnel cloud.
									A funnel cloud near Lake Kerr damaged the roofs of two houses. Several trees were blown down, and one minor injury was reported.

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					KILLED	INJURED	PROPERTY	CROPS	
FLORIDA (continued)									
St. Lucie, Indian River, and Brevard Counties.	8	Night			0	0	6	0	Severe thunderstorms.
									A line of thunderstorms moved through the area from west to east. Several of these thunderstorms were severe accompanied by lightning, gusty winds, locally heavy rain and some hail. Lightning struck a fire store in Vero Beach causing a fire resulting in \$750,000 damage. Winds up to 50 mph were reported at Kennedy Space Center.
St. Lucie County	9	11:55 AM EST			0	0	0	0	Waterspout
									A waterspout was reported one mile northeast of Ft. Pierce.
Monroe County	10	9:00 AM EST			0	0	0	0	Waterspout
									A waterspout was reported 5 miles north-northeast of Marathon.
Monroe County	10	2:01 PM EST			0	0	0	0	Waterspout
									A waterspout was reported at Key West.
Monroe County	10	2:38 PM EST			0	0	0	0	Waterspout
									A waterspout was reported at Key West.
Polk County	10	3:20 PM EST			0	0	0	0	Waterspout
									A waterspout was reported on Lake Wales moving rapidly toward the southwest.
Charlotte County	10	Evening			0	0	0	0	Severe Thunderstorm
									A severe thunderstorm was reported 6 miles south of Punta Gorda accompanied by 1/2-inch hailstones, wind gusts estimated at 60 mph, and 3.25 inches of rain. No significant damage was reported.
Miramar, Broward County	11	Unknown			1	0	0	0	Lightning
									A 16-year-old Hollywood boy was struck and killed by lightning while cutting a lawn in the rain.
Sarasota County	11	Evening			0	0	0	0	Waterspout
									A waterspout reported off Lido Key during the early evening hours dissipated before reaching land.
Dade County	12	-----			0	0	0	5	Heavy rain.
									A number of potato farmers abandoned their harvests after several days of rain because they could not get their machines into the soggy fields. Farmers stated that at least 200 acres of high-priced potatoes, yielding up to \$1800 per acre, would be left in the fields.
Palm Beach County	19	7:15 AM EST			0	0	0	0	Waterspout
									A waterspout was reported about 4 miles east of Jupiter.
Palm Beach County	23	9:15 AM EST			0	0	0	0	Waterspout
									A waterspout was reported 5 miles east of Palm Beach.
Highlands County	24	3:30 PM EST	1/10	20	0	0	0	0	Tornado
									Motorists reported that at least two tornadoes (may have been only one) touched down briefly in deserted pasture land about 10 miles south of Lake Placid in the Venas area. The tornadoes were moving toward the southwest.
Highlands County	24	4:53 PM EST			0	0	0	0	Funnel cloud
									A funnel cloud observed about 8 miles south-southeast of Lake Placid was reported moving toward the north-northwest.
Monroe County	26	8:45 AM to 9:00 AM EST			0	0	0	0	Waterspout
									Two waterspouts were reported at the same time south of Long Key. The waterspouts moved northward and dissipated as they approached land.
Henry County	26	2:35 PM EST			1	1	0	0	Lightning
									A 19-year-old Palmdale man was struck and killed by lightning while herding cattle on the Lykes Brothers Little Cypress Ranch, near State Road 846, during a severe thunderstorm. Only one of the six other persons herding cattle at the time was injured by the lightning.
Palm Beach County	26	Mid-afternoon			0	1	0	0	Lightning
									A 20-year-old Riviera Beach man was injured when struck by lightning at Palm Beach International Airport during a severe thunderstorm. Flooded streets, power failures, and stalled cars were evident after more than three inches of rain fell in the airport area. Flooded runways caused the airport to close down for about 40 minutes during the afternoon.
Monroe County	26	7:09 PM EST			0	0	0	0	Waterspout
									A waterspout was reported 4 miles south of Key West.
Broward County	27	7:20 AM EST			0	0	0	0	Waterspout
									A waterspout was reported about 4 miles north-northeast of Fort Lauderdale.
FLORIDA (continued)									
Dade County	27	12:50 PM EST			0	0	0	0	Hail
									Golf ball-sized hail was reported at Flagler Street and 93rd Avenue in the Greater Miami area. Small hail was reported at three different locations in the southwest portion of Greater Miami around 12:30 PM EST. The hail occurred as a line of thunderstorms moved through the area accompanied by strong gusty winds and heavy rain. No damage was reported.
Brevard County	27	2:00 PM EST	1/10	20	0	0	0	0	Tornado
									A small tornado moving northeastward dipped down briefly in Titusville. A pick-up truck was lifted off the ground at the First National Bank parking lot on State Road 50. The woman inside the truck reported that shopping carts were in mid air coming across the lot. The strong winds reportedly lasted only a few minutes followed by hail. No injuries were reported.
Brevard County	27	3:00 PM EST			0	0	0	0	Waterspout
									A waterspout was reported on the Indian River north of Cocoa.
Tampa Bay, Hillsborough County	28	10:00 AM EST			0	0	0	0	Funnel cloud
									A funnel cloud was observed for 3 minutes 5 miles east of Coquina Key.
Hillsborough County	28	4:15 PM EST			0	0	0	0	Funnel cloud
									A funnel cloud, observed for 5 minutes, was reported 2 miles south of Dover and moving northeastward.
Marion County	29	2:35 PM EST	1/10	30	0	0	4	0	Tornado
									A small tornado moving from west to east touched down at Monroe's Corners, at the junction of SR 484 and SR 475. Property damage was confined to a barn, 2 small dwellings, storage sheds, signs and trees. A 25 by 30 foot storage building was blown one quarter of a mile from its location. There were no injuries.
Broward County	29	Late afternoon			0	0	4	0	Severe thunderstorm.
									A severe thunderstorm produced hail described as the size of ice cubes and golf balls in Wilton Manor and Oakland Park. In Ft. Lauderdale a lightning bolt was believed responsible for a fire that flashed through an automobile body and paint shop causing at least \$45,000 damage.
GEORGIA									
Muscogee County	8	5:05 pm			0	0	1	1	Hail
									Golf ball sized hail reported approximately 5 miles northeast of the municipal airport. No damage reported.
Cook County	8	6:45 pm			0	0	1	1	Wind
									60 mph winds reported in northern part of county.
Stevens County	30	3:45 pm			0	0	1	1	Hail
									1 inch hail stones reported in southern part of county.
Brooks County	30	4:00 pm			0	0	1	3	Hail
									Hail damage to corn and tobacco in the area north of Quitman.
HAWAII									
									3 mi. S. of Diamond Head, Oahu
	11	2:27p.							Waterspout
IDAHO									
Grangeville, Idaho County	19	10:45 a			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted by the second-order station observer, and was also observed at the same time at the Grangeville airport. The funnel cloud did not touch the ground but was a long one.
McCarmon, Bannock County	26	10:30 a			0	0	0	0	Funnel Cloud
									A funnel cloud was reported independently by several people. One person reported observing it for one minute.
ILLINOIS									
Central Illinois		4 Afternoon and night			0	1	5	?	Wind, Hail and Lightning
									Strong winds associated with violent thunderstorms battered wide sections of the central part of the state. Large hail was reported in many areas. Several counties reported damage from lightning strikes.

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ILLINOIS (continued)									
Entire State	21	2:00 pm - 10:00 pm			0	0	6	?	Thunderstorms, Wind, Lightning, Hail
		Thunderstorms with winds gusting to 70 miles per hour swept across the state, causing widespread wind damage. Torn roofs, broken tree limbs and power outages from downed power lines were common throughout the area. Lightning hit a number of transformers in the Chicago suburbs, bringing power outages for several hours. Homes under construction in the Shore Heights Manor subdivision in Kendall County suffered major wind damage. In DuPage County, the strong winds blew off a piece of screen from an outdoor theater that hit a parked car. The winds also destroyed a barn, 2 corn cribs and blew off a door on a farm building in Lee County around 3:15 pm. Two metal frame farm buildings were lifted and destroyed in Grundy County around 7:00 pm. Two airplane hangars and 13 single engine airplanes were demolished by 70 mile per hour winds at the Morris Airport, also in Grundy County, around 8 pm.							
		High winds also extensively damaged farm outbuildings in Richland and Wayne Counties in the southeastern part of the state. At 7 pm, sheds were toppled from their foundations. Twelve calves and cows perished in a fire caused when lightning struck a dairy barn 1 mile west of Johnsonville in Wayne County at 5:45 pm. The total damage there was \$50,000.							
		Hail as large as 3/4 of an inch in diameter was reported with some of these storms.							
Northern Third of Illinois	22	Afternoon			0	0	3	?	Wind
		High winds swept across the northern portions of the state during the afternoon, blowing down trees, tree limbs and power lines. Some power outages were experienced in scattered areas. One downed utility line caused small fires in 2 mobile homes near Rockford, Winnebago County. Visibility at the Rockford Airport dropped to 1 mile at times as dust filled the sky. Blowing dust from fields plagued much of the area during the day.							
Central Illinois	25	Afternoon			0	1	4	0	Wind
		Winds hit the central part of the state in mid-afternoon. A woman was hurt seriously when her trailer was hit by the winds, in Lincoln, Logan County. The strong gusts also blew out windows and part of the roof of a building in Downs, McLean County. At about 2:30 pm, a mobile home near Secor, Woodford County was struck by the force of the wind and damaged. Just outside Secor farmhouse windows were smashed by the gusty winds.							
Madison, St. Clair, Perry and Saline Counties	30	6:30 pm - 10:00 pm			0	1	4	0	Wind
		Numerous TV antennas were downed, tree limbs snapped and power outages were common as high winds gusting to as much as 70 miles per hour were observed over portions of southwestern and southern Illinois. In Duquain, Perry County, an overturned camper truck was damaged. At East St. Louis, St. Clair County, the strong winds blew down tree branches at a residence, injuring a man, who was sent to the hospital. In Harrisburg, Saline County, a new store and office buildings were heavily battered by the storm.							
INDIANA									
Cutler Carroll County	4	11:30 PM	1	50	0	1	4	0	Tornado
		Tornado first touched down in a wooded area, demolishing a barn. The storm proceeded northeast causing minor damage to two houses. The tornado lifted in an open area to the northeast.							
Near Wheatfield Jasper County	4	11:45 PM	1/2	20	0	0	4	0	Tornado
		Tornado unroofed one house. Occupants were asleep and were not injured. Storm was moving northeast.							
6 1/2 E Knox Starke County	5	10:00 PM	1/2	Narrow	0	0	2	0	Tornado
		Two storage sheds were demolished by a small tornado moving east/northeast.							
Fishers Hamilton County	19	5:45 PM	--	--	0	0	5	0	Lightning
		Lightning strike resulted in house fire, causing \$60,000 damage.							
Hamilton County	19	5:00 PM	--	--	0	0	3	0	Hail
		Golf ball size hail pelted down for several minutes in the eastern portion of the county. Hail accumulated from 12 to 18" deep in Bakers Grove. Wheatfields and corn were battered by the intense hail. The wheat was destroyed, but the corn may recover.							
4 S New Harmony Posey County	21	7:00 PM	1/2	Narrow	0	0	0	0	Tornado
		A mini-tornado was observed over an open field. Several trees were uprooted. Direction of movement unknown.							
Posey County	22	Afternoon	--	--	0	0	3	0	Rain, Hail
		Heavy rain and hail 3/4" diameter swept through Posey County. Hail damaged corn and wheat crops. Heavy rains washed top soil and seeds from recently planted fields into ditches. Poseyville school roof suffered damage from hail. High school graduation cancelled due to leaky roof. Heavy rain closed some roads for a period and localized urban flooding was reported.							
INDIANA (continued)									
Nappanee Kosciusko County	29	2:07 PM	1/2	Narrow	0	0	0	0	Tornado
		Mini-tornado observed over open field. No damage occurred.							
IOWA									
2E Bloomfield to Pulaski, Davis County	4	2:00 pm	4	20	0	0	4	0	Tornado
		Three farmsteads involved, roof ripped off new home, all outbuildings destroyed at one farm, outbuildings heavily damaged at another.							
Keosauqua, Van Buren County	4	?			0	0	4	0	Thunderstorm (Wind)
		Considerable mobile home and farm building damage.							
Houghton, Lee County	4	2:30 pm	2	60	0	0	5	0	Tornado
		Several homes demolished, damage inflicted on farms and businesses.							
Near Mystic, Appanoose County	4	2:52 pm							Funnel
Mt. Pleasant, Henry County	4	3:00 pm	3	30	0	1	5	0	Tornado
		Woman injured by flying debris when home was demolished, other home and mobile home damage (demolished, unroofed or overturned) - trees down.							
Danville, Des Moines County	4	3:00 pm	2	10	0	0	4	0	Tornado
		Damaged trees and lifted roof off of house.							
3NE Marshalltown, Marshall County	4	3:05 pm							Funnel
Winfield, Henry County to Hyman, Louisa County	4	3:10 pm	20	20	0	0	4	0	Tornado
		Downed electric lines, tore out trees and fences, damaged several barns. Skipped along path.							
Gilbert, Story County	4	3:15 pm							Funnel
Gladbrook, Tama County	4	3:45 pm							Funnel
SW Fort Dodge, Webster County	4	6:22 pm	1	70	0	4	6	0	Tornado
		Intersection U.S. Highways 169 and 20 (near Crossroads Shopping Center) - four injured in retirement home. Damage to dorms and college buildings on Iowa Central campus, motel, church, gas station, elevator, tavern, TV station and tower, all suffered substantial damage. Moved NW. Railroad worker electrocuted (after storm passed) while cleaning debris off of bridge. Golf ball sized hail.							
6W Rockwell City, Calhoun County	4	?							Funnel
4 1/2 N Rockwell City, Calhoun County	4	?							Funnel
Guthrie Center, Guthrie County	4	6:30 pm							Funnel
		Sighted 7 miles west of Guthrie Center.							
2SW Storm Lake, Buena Vista County	4	6:30 pm							Funnels (2)
Near Fonda, Pocahontas County	4	6:30 pm	?	?	0	0	0	3	Tornado
		Touched down in open field - traveled through grove damaging several trees and old machinery.							
NE Fort Dodge, Webster County	4	6:32 pm	2	70	0	14	5	0	Tornado
		Six block wide swath - 50 homes destroyed and 250 homes damaged.							
Yale, Guthrie County	4	?	1	?	0	0	0	0	Tornado
		Touched down near Yale but no damage reported.							
Bayard, Guthrie County	4	7:26 pm	1	30	0	0	4	0	Tornado
		Mobile home turned over, trees uprooted. Several buildings damaged.							
Near Boone, Boone County	4	8:30 pm	?	10	0	0	4	0	Tornado
		Damage to garage, trees, several small buildings.							
Boone, Boone County	4	8:34 pm			0	0	4	0	Severe thunderstorm (Wind, hail)
		Several buildings and trees damaged.							
New Virginia, Warren County	4	9:00 pm							Funnel
Madison County	4	9:00 pm							Funnel
Near Garwin to Dysart, Tama County	4	9:00 - 9:27 pm	20	30	0	0	5	0	Tornado
		First hit farm mobile home court, damaged trees, skipped along to farm near Dysart. Damaged garage and cars in garage.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
IOWA (continued)									
Rural Gladbrook, Tama County	4	10:15 p	1	20	0	0	4	0	Tornado
Lifted roof off of house, damaged barn, garage and several trees.									
Beaverdale Heights, Des Moines County	5	6:06 p	20	100	0	0	0	0	Tornado
Sighted funnel NE of Augusta, became tornado N of Beaverdale Heights, turned east, skipped several times. Crossed Mississippi River into Henderson County, Illinois.									
Fort Madison, Lee County	5	5:00 - 8:00 p			0	0	6	0	Flash flood
Heavy rains flooded streets and basements, caved in retaining walls.									
Between Algona and Whittemore, Kossuth County	14	Aftn			0	0	0	4	Thunderstorm (Hail)
Golf ball sized hail on several farms.									
2 1/2 NE Indianola, Warren County	15	11:00 a			0	0	4	0	Thunderstorm (Wind)
Demolished pole barn on one farm, downed tree which broke into house on neighboring farm.									
Ames, Story County	15	Early aftn			0	0	4	0	Windstorm
Two week setback to K-Mart under construction.									
6N Wesley, Kossuth County	15	4:25 p							Funnel
S of Buffalo Center, Winnebago County	15	Late aftn							Funnel
Also some hail to golf ball size - storm moved NE.									
3 1/2 S Earlville, Delaware County	16	Aftn	?	?	0	0	0	0	Tornado
Touched down in open field - no damage.									
Hopkinton, Delaware County	16	Aftn			0	0	0	4	Thunderstorm
Golf ball size hail on crops and gardens.									
2N Goose Lake, Clinton-Jackson County line	16	6:15 p	?	?	0	0	0	0	Tornado
Yetter, Sac County	18	2:28 p	1	20	0	0	3	0	Tornado
Touched ground briefly in open field - rain, hail and wind damage, downed trees, flooded streets.									
6SE Sac City, Sac County	18	2:30 p							Funnel
2S Kingsley, Woodbury County	18	7:30 p							Funnel
Also hail and high winds.									
Boone area, Boone County	18	Late p.m.			0	0	4	0	Windstorm
Barn collapsed - 25 hogs killed.									
Decatur, Clarke and Keokuk Counties	21	4:00 - 4:45 p			0	0	4	0	Thunderstorm (Wind)
Light farm buildings and tree damage in scattered areas of the counties.									
Greene, Calhoun, Pocahontas, Palo Alto and Emmet Counties	21	5:45 p			0	0	4	0	Thunderstorm (Wind)
Heavy rain, strong winds and some hail hit parts of these counties causing downed buildings, power lines and trees - winds estimated 65 mph.									
Washburn, Evansdale, Elk Run Heights and east Waterloo, Black Hawk County	26	1:00 - 2:00 p			0	0	4	0	Thunderstorm (Rain)
Over 5 inches rain fell in about 2 hours, flooded streets, drowned cars - motel flooded, extensive damage to interior.									
S & SW of Tabor, Fremont County	27	12:30 p			0	0	0	4	Thunderstorm
Heavy damage to early corn, gardens.									
Charter Oak to Ricketts, Crawford County	27	2:00 p			0	0	5	0	Thunderstorm (Hail, wind)
Hail golf ball to 5" diameter thickness battered cars and windows, plus stained glass church windows, damaged roofs and siding - \$150,000 damage - wind caused power outages and blew down trees.									
SW of Mashua, Chickasaw County	29	3:00 p Home struck 6:30 p.m.	at 3 o'clock		0	0	4	0	Lightning
burned to the ground about									
Statewide	31	2:20 p thru aftn			0	0	4	4	Windstorm
Crops were stripped of leaves or blown down (some will have to be replanted) - power outages, tree and roof damage common.									
KANSAS									
Horton, Seward, Stanton, Stevens, and Grant Counties	1	4 - 6 p			0	0	0	6	Hail
Thunderstorms moving northeast across these counties caused hail damage at scattered locations.									
Hamilton, Finney, and Kearney Counties	1	5:45 - 9:30 p			0	0	0	0	Funnel Clouds
Funnel clouds moving northeast were observed at the following places and times: 1 mile west of Holcomb - 5:45 p; 3 miles west of Byrcause - 9:15 p; 8 miles northwest of Lakin - 9:30 p.									
Seward County	3	4:55 p			0	0	0	0	Funnel Cloud
Funnel cloud observed 5 miles north of Liberal; did not touch down.									
Finney County	3	4:55 p			0	0	0	0	Hail
A few hail stones to 1-1/4 inches diameter fell in Garden City during a thunderstorm. No damage was reported.									
Cheyenne County	3	7:15 p	1	133	0	0	4	0	Tornado
Tornado struck 5 miles south of Bird City causing damage to a vacant house, barn, and machinery. The force of the tornado drove 2x4 inch boards into a hard roadway to a depth of about 3 feet. The tornado narrowed as it moved northeast.									
Allen County	4	8:30 a	1/2	50	0	0	3	0	Tornado
Tornado near Petrolia caused damage to sheds, barns, grain bins, and power lines.									
Allen County	4	11:00 a			0	0	3	0	Hail and wind
Gusty wind with thunderstorm and hail to one inch in diameter caused minor damage to trees and utility lines.									
Miami County	4	11:15 a	9	50	0	0	5	3	Tornado
Tornado touched down about 7 miles south-southeast of Paola and moved northeast on the ground 20% of the time before lifting just south of Louisburg about noon. Damage was to mobile homes, rural homes and buildings, and utility lines.									
Douglas and Johnson Counties	4	6:05 p	31	300	0	1	6	4	Tornado
Tornado touched down about 1-1/2 miles northwest of Worden and moved east 12 miles to 2 miles southeast of Vinland. It lifted and touched down again 3-1/2 miles northeast of Edgerton moving north east 34 miles to 3 miles north of Olathe. It was on the ground about 30% of the time. One woman was injured when her mobile home was destroyed. Some hail to the size of baseballs was reported near the tornado. Damage was to homes, mobile homes, buildings, livestock, trees, and utility lines.									
Johnson County	4	7:00 p	8	70	0	0	5	0	Tornado
Funnel dipped down in east Olathe and moved east in a skipping path about 1 to 2 miles north of Highway 150 (Kansas) for about 8 miles into Overland Park. It was on the ground about 20% of the time. Damage was to homes, trees, utility lines, and a golf course.									
Shawnee County	5	3:25 p			0	0	2	0	Hail
A few hailstones to 1-1/2 inches diameter fell with a thunderstorm in southwest Topeka. No significant damage was reported.									
Shawnee County	5	5:40 p	1	30	0	0	3	0	Tornado, funnels
A funnel cloud was observed 10 miles south of Topeka at 5:27 p.m. moving northeast. It touched down briefly at 5:40 p.m. 6 miles south southeast of Topeka and lifted and dissipated about 5 miles southeast of Topeka about 5:50 p.m. Several other funnels were reported in the northeast section of the city for about the next 35 minutes.									
Harper County	5	6:05 p			0	0	0	4	Hail
Intense thunderstorm produced hail to as large as one inch and heavy rain to produce some crop damage with the most significant 6 miles north of Anthony.									
Shawnee County	5	8:10 p					2	0	Hail
A few hailstones to 1-3/4 inches in diameter were reported in central Topeka with a thunderstorm. No significant damage was reported.									
Washington County	7	4:00 p			0	0	4	5	Hail
Large thunderstorm produced local heavy rain and large hail to size of golf balls. Considerable crop damage, especially in Haddan area where hail piled up in drifts.									
Kiowa County	9	1:30 p	1	300	0	0	5	0	Wind
Severe thunderstorm produced high winds, heavy rain and small hail. Damage primarily to farm outbuildings about 6 miles west-southwest of Greensburg.									
Decatur, Scott, Wichita	14	afternoon			0	0	2	5	Hail
Hail up to 1-1/2 inches in diameter fell locally with golf ball size hail at Scott City causing vehicle glass breakage. Up to 100% crop loss occurred 16 to 18 miles southeast of Leoti.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

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					KILLED	INJURED	PROPERTY	CROPS	
KANSAS (continued)									
Sedgwick, Butler, Sumner, Harvey, Greenwood, Neosho, Crawford, Bourbon, and Labette Counties.	16	10 a-9 p			0	0	5	5	Wind, Lightning, funnel clouds
Chase County	16	6:30 p			0	0	3	5	Hail
Montgomery County	17	11:15 a	4	100	0	0	4	3	Tornado
Hugoton	17	7:00-8:00 p			0	0	0	0	Funnel Clouds
Stevens County	17	8:00 p	13	30	0	0	0	0	Tornado
Morton, Stevens, Grant, Finney, Lane Counties	18	2:25 - 10:45 p	128	50-400	0	1	6	0	Tornado
Ulysses	18	7:00 p			0	0	6	0	Hail
Southern Kearney County	19	evening	10	* 1 1/2	0	0	0	5	Hail
Cheyenne, Rawlins, Sherman, Thomas, Counties	20	afternoon			0	0	4	6	Hail
Southeast Ford, Kiowa, Pratt, Barber, southeast Stafford, Kingman, Harper, Reno, Sedgwick, and Harvey Counties	22	late aftn & evng	130	*25-50	0	0	4	7	Hail, Heavy Rain, Wind, Funnels, Flash Flooding
4 miles south Big Bow	24	7:20 p			0	0	0	0	Funnel
Sedgwick County	28	11:15 p			0	0	3	5	Hail
Marion County	29	11:15 p			0	0	0	5	Hail
Chase County	29	12:15 a					5	0	Lightning
Reno, Harvey, Kingman, Sedgwick, Harper, Sumner Counties	30	noon-mid night			0	0	5	6	Hail, wind, heavy Rain, Funnel Clouds
KANSAS (continued)									
									SPECIAL HAIL SUMMARY
									Hail loss clearing house reports indicate severe on the following dates, and in the following counties:
	1	Haskell							
	3	Haskell							
	7	Dickinson							
	9	Edwards, Kiowa, Russell							
	14	Decatur, Kearney, Logan, Scott, Sheridan, Wichita							
	16	Cloud, Ellsworth, Gove, Graham, Harper, Marion, Norton, Ottawa, Reno, Republic, Rice, Saline, Smith							
	17	Stevens, Marion							
	18	Decatur, Gove, Grant, Morton, Sheridan, Thomas, Wallace							
	20	Cheyenne, Hamilton, Rawlins, Sherman, Thomas							
	19	Doniphan							
	22	Barber, Clay, Ford, Harper, Harvey, Kingman, Kiowa, Pratt, Reno, Sedgwick, Stafford							
	27	Pawnee, Reno, Stafford, Trego, Wichita							
	28	Barton, Butler, Edwards, Finney, Harper, Haskell, McPherson, Reno, Rice, Sedgwick, Sumner, Edgeman							
	29	Butler, Harvey, Haskell, Marion, Meade, Reno, Sedgwick, Gray, Wallace							
	30	Clay, Cloud, Cowley, Kingman, Mitchell, Pratt, Reno, Russell, Scott, Sumner, Wichita, Dickinson							
KENTUCKY									
Grayson Cy	6	Evening						3	Hailstorm
									A thunderstorm which moved through an area just west of Elizabethtown produced hail large enough to extensively damage a small airplane.
Hart Cy	6	10:15 p.m. EDT						4	Lightning
									A home in Munfordville burned to the ground after it was struck by lightning.
Lewis Cy	11	11:30 a.m. EDT						5	TSTM
									High winds leveled a 344 ft. by 44 ft. structure containing over 20,000 chickens at Vanceburg.
Christian Cy	21	7 p.m. EDT						4	Hailstorm
									A thunderstorm which moved through Hopkinsville produced hail larger than a quarter, covered the ground and caused considerable crop damage.
LOUISIANA									
Bienville Parish	1	3:45 PM	1 1/2	50	0	0	3	0	Tornado
									First touchdown in eastern limits of Arcadia; uprooted trees; knocked down carport. Crossed I-20, lifted and touched down again near intersection of LA-151 and overturned fishing barge.
Evangeline Parish	1	4:30 PM	3	50	0	0	4	0	Tornado
									Near Pine Prairie, demolished trailer house and garage, moved frame house several feet off foundation. Touched down several places for three miles along Highway LA-13.
Beauregard	1	6:15 PM			0	0	0	0	Funnel
									Reported by police just west of DeRidder.
St. Landry Parish	2	3:15 PM			1	0	0	0	Lightning
									Ricky James Myers, 16, was killed by lightning bolt while tending crawfish nets about six miles east of Eunice.
Washington Parish	2	5:31 PM	B R I E F	0	0	2	3		Small Tornado
									Touched down near Enon Community on LA-16. Minor damage outbuildings. Tore up some trees.
Madison Parish	2	Afternoon							Funnel
									State Police reported funnel near Waverly Community.
Livingston Parish	3	5:10 PM							Hail
									Heavy rain and 3/4 inch hail near Denham Springs.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

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					KILLED	INJURED	PROPERTY	CROPS	
LOUISIANA (continued)									
Richland Parish	8	12:50 PM			1	0	0	0	Lightning
					Mrs. Dianne Straughter of Rt. 1, Mangham was killed by bolt when she was taking clothes off a line.				
Calcasieu Parish	25	4:00 PM	B R I E F		0	0	2	2	Small Tornado
					Minor damage to roadside park and trees along side I-10 near Vinton.				
Terrebonne Parish	31	4:00 PM			0	0	3	3	Hailstorm
					Large hailstones up to two inches in diameter damaged cars and stripped gardens in the Gibson-Huma area.				
Washington Parish	31	7:30 PM	B R I E F		0	0	3	3	Small Tornado
					Minor damage and trees uprooted in Plainview Community. Heavy rain, high winds 50-60 mph and lightning caused power failures in Bogalusa.				
Tangipahoa, St. Tammany, Orleans Parishes	31	4PM-10PM			0	0	5	0	Windstorms and Lightning
					Wind up to 55 mph at Lakefront Airport and lightning knocked out power to about 2000 customers. A 17 ft. boat was capsized in Lake Pontchartrain about 4 PM. A tug and three barges were pushed into the south end of the railroad bridge over Pass Manchac. The tug Little David sank in Mississippi Sound.				
MAINE									
York, Cumberland Counties	10	Daylong			0	0	5	3	Northeaster
					A severe ocean storm with gales and heavy seas caused severe damage to lobstering and fishing gear. York and Cumberland County declared eligible for disaster loans. Storm accompanied by late Spring snow that caused only minimal damage to fruit trees.				
Central	25	Afternoon			0	0	4	0	Line of Thunderstorms
					A line of heavy to severe thunderstorms swept across central part of state causing extensive wind damage. Winds reported 66 m.p.h. at Bangor. Observer at Eastport reported severe thunderstorm.				
MARYLAND & D.C.									
LaPlata, Charles County	5	Afternoon			0	0	2	0	Lightning
					Lightning struck home, burning out some electrical wiring and also knocked out telephone service. Occupant said it was "like a bomb dropping". She smelled smoke, went next door and called fire department - however, no fire developed. The bolt apparently struck the corner of the house, dug a trench in the ground as it followed underground cable and burned out the electrical wiring in the front of the house. Estimate damage was \$200-\$300.				
New Market (near), Frederick County	5	Afternoon			0	0	2	0	Lightning
					Two ponies were knocked to the ground, following lightning strike. One, a 28-year, was killed; the other, a yearling, was only stunned. Several power lines in the area were also knocked out during severe lightning activity.				
Frederick County	5	Afternoon							Lightning
					Man working on drilling rig was shaken up, but otherwise uninjured, when he was apparently struck by lightning. He held on to the rig for "about two or three seconds" and saw "bright blue and white sparks" before he was jolted back.				
Central portion	6	2:00 p.-3:00 p.			0	0	4	0	Lightning, Rain
					Power to more than 25,000 customers of gas & electric company was disrupted as lightning struck in more than a dozen places. In Baltimore City two homes were struck, the roof of one being ignited. Elsewhere, a crane at a construction project was hit, with the charge bouncing off and melting insulation on wiring of adjacent building. In Annapolis brief heavy rainfall caused some local flash flooding. At least six homes were struck in Anne Arundel County; one at Millersville had some fire damage in the attic area. Eight other homes were struck in Baltimore County; none reportedly caused fire.				
Ellicott City, Howard County	6	3:45 p.			0	0	3	0	Lightning
					Brief fire resulted when lightning struck house. Damage estimated at \$500.				
Washington, D.C. and northern Prince Georges County	6	4:00 p.-5:00 p.			0	0	0	0	Rain
					Minor flooding occurred during afternoon rush-hour, following brief heavy rainstorm. As much as a foot and half of water flooded parts of Rock Creek Parkway. Two inches of rain in one-half hour was measured at Rocky Gorge, just north of Laurel.				

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MARYLAND & D.C. (continued)									
Frederick County	6	Afternoon			0	1	0	0	Lightning
					Farmer was holding onto a gate when a bolt of lightning struck. He was treated and released from hospital, apparently receiving only minor shock. He attributed his being saved from more serious injury to the fact that he was wearing crepe-soled shoes.				
Cecil County	6	Late afternoon			0	0	3	0	Lightning
					In two separate lightning strikes, one killed two horses near Conowingo and the other was blamed for killing a palomino horse that was in a small shed near Elkton.				
Statewide	8-9				0	0	5	0	Wind
					Strong cold front moved rapidly southward into the state from Pennsylvania, beginning about 9 PM and continuing into the early morning hours of the 9th. Winds were described by some as "explosive" in the suddenness that it came up. Gusts were estimated at 50-70 mph. Although strong gusty winds continued throughout the 9th, most of the damage occurred during the first few hours. Falling trees contributed for most of the damage, disrupting power lines extensively and blocking roads. In the Baltimore City area alone, some 35,000 customers were without power at various times. In addition to numerous reports of shingles, roofs and siding on houses being damaged, several vehicles were damaged by falling trees in various locations. Near Chestertown, Kent County, a large barn was completely demolished along with a smaller one when the winds roared in "like a train coming through" around 10 PM on the 8th. Some of the homes had considerable interior damage from falling trees. At Bel Air, a large radio tower fell, taking a power transformer and power lines with it. At Willards, Wicomico County, six telephone poles were knocked down, blocking traffic.				
Eastern Shore	9	All Day			0	0	0	4	Wind, Sand/Dust-Storm
					Constant 30 to 40 mph winds "sand-blasted" soft-skinned fruits and vegetables, especially in Caroline County. One farmer estimated the replanting of nearly 40 acres of tomato plants would run around \$400 for the planting process alone. In addition, the loss of soil particles along with applied fertilizers and weed killers were expected to be substantial. Elsewhere, windblown dust was responsible for several automobile accidents in Dorchester County.				
Baltimore (City)	9	8:00 a.			0	0	4	0	Wind
					30-foot oak tree, apparently weakened by strong winds of previous night, fell through the roof of a home, demolishing two-thirds of the kitchen. Occupant was narrowly missed as debris fell within inches of where she was standing. Also, a scaffold blew down, damaging a compact car; the driver was not injured.				
Baltimore (City)	9	12:20 p.			0	1	3	0	Wind
					Wood frame along with cinder blocks attached to it, of a house under construction, blew over at a housing development. Worker was caught underneath and except for multiple bruises was apparently not injured seriously.				
North East, Cecil County	18	6:30 p.			0	0	3	0	Lightning
					Lightning caused fire in garage. Minor damage was done to the building but several valuable antiques stored inside were destroyed.				
MASSACHUSETTS									
Statewide	9-10	All Day			0	0	6	0	Heavy snow
					The unrelenting winter of 77 refused to die and brought one foot of heavy, wet snow to northern portions, 4 to 6 inches in central areas and light snow in south coastal sections. One half million people lost electrical service. There was very extensive tree and power line damage due to snow weighted leaves. Tobacco crop protective netting was broken. 300 power company crewmen worked continuously for 3 days. Fruit growers feared losses. This was the first time in 107 years of weather records that a measurable snowdepth was recorded in Boston during May. Many boats were blown from their moorings, grounded and wrecked.				
Malden	25	9:30pm			0	1	3	0	Lightning
					A moving auto was struck by lightning and subsequently veered off the road striking a telephone pole.				
MICHIGAN									
					NO STORM DATA REPORT RECEIVED FOR THIS STATE				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

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					KILLED	INJURED	PROPERTY	CROPS	
MINNESOTA 4 MI North Murdock Swift County	4	5:18PM	2	15	0	0	4	0	TORNADO
									Tornado moving south to north destroyed 44x90 machine shed leaving machinery within undamaged. Small metal shed in vicinity also destroyed. Some tree and shingle damage to neighboring farms.
1 MI North Ceylon Martin County	4	8:00PM	-	-	0	0	4	0	TORNADO Lightning
									Tornado touched down briefly lifting 40x60 ft. barn from foundation. Mobile home and furnishings destroyed by lightning strike fire 10 MI north Ceylon at Fox Lake.
Brooten Stearns County	5	12:15AM	-	-	0	0	4	0	Winds
									Winds in excess of 80 mph lifted two-car garage from foundation depositing it against house across the street. Two cars and many windows damaged with 2x4 boards penetrating roof of residence. Large fir trees uprooted.
ENW Beltrami Polk County	14	6:00PM	5MI Radius	0	0	4	3		Hail
									Hail to golf ball size accompanied by winds in excess of 50 mph and heavy rain, damaged windows. Screens and shingles of several farm homes also damaged. Minor tree and crop damage.
Hastings-Miesville Dakota County	14	11:30PM	-	-	0	0	5	0	Wind
									Wind in excess of 70 mph almost totally damaged two irrigation systems.
New Sweden Vicinity Nicollet County	15	12 NOON	8	30	0	0	4	0	Wind
									Wind in excess of 70 mph demolished farm machine shed.
1E Eden Valley Meeker County	15	12:15PM	-	-	0	0	4	0	Wind
									Wind in excess of 70 mph picked up barn roof, carried it over silo depositing it on top of two cars 50 yards from barn.
St. Paul Ramsey County	15	1:23PM	-	-	1	0	0	0	Lightning
									21-year old woman killed by lightning strike while taking shelter under tree.
5 MI North Oklee Red Lake County	15	2:00PM	-	-	0	0	4	0	Wind
									Wind in excess of 80 mph destroyed barn and killed a few calves. 10 MI North Oklee roof blown off pole barn and carried 200 feet to north.
8 MI East Arlington Sibley County	15	2:00PM	-	-	0	0	4	0	Wind
									Wind in excess of 70 mph lifted 20x35 foot metal pole barn over a fence into adjacent field destroying building.
SNW Stillwater Washington County	15	3:00PM	-	-	0	0	5	0	Lightning
									Barn and contents, including a number of antiques, burned to ground by fire caused by lightning strike.
1 MI South Goodhue Goodhue County	15	2:30PM	-	-	0	0	4	3	Winds
									Winds in excess of 70 mph severely damaged combination garage and machine shed. Minor window, tree and crop damage. Some damage to powerlines, fences, and trees in Kenyon area.
Waseca Waseca County	15	11:30PM	-	-	0	0	4	4	Wind
									Wind in excess of 70 mph and hail to 3/4 inch damaged mobile home park, lumber yard, and several Waseca residences - minor tree and crop damage.
St. James and Butterfield Watsonwan County	16	4:00PM	4	*2	0	0	0	5	Hail
									Hail to one inch diameter and up to four inches deep in places, accompanied by torrents of rain, caused considerable crop damage from combination of hailstones and wash-out due heavy runoff. Replanting necessary.
Sargeant Area Mower County	16	4:00PM	8	*3	0	0	3	4	Hail-Heavy Rain
									Hail to one inch broke windows in several farm buildings. Heavy losses of topsoil due four to six inches of rain during hour-long storm, necessitating replanting. Several roads washed out by floodwaters.
MINNESOTA (continued)									
Wabasha Olmsted County	16	5:30PM	-	-	0	0	?	?	Hail
									Storms moving through area deposited hail 5/4 inch to golfball size in the areas of Lake City, Chatfield, and Marion. Damage reported minor.
4 MI WSW New Prague- Shakopee Le Sueur & Scott Counties	21	2:36PM	20	100	0	0	5	0	TORNADO
									Mini-Tornado moved north-northeastward from a point 4 MI WSW New Prague to Shakopee. Tornado traveled 600 to 800 feet on ground before raising and continuing as funnel for several miles before descending to ground for 600 to 800 feet more, repeating process several times. Damage mainly to homes, pool sheds, electrical and telephone lines, and several dozen mature trees. Rural damage included two barns and farm equipment.
12NW Canby Lac Qui Parle County	21	6:30PM	-	-	0	0	4	0	Wind
									Wind in excess of 80 mph destroyed barn and moved 16x50 foot silo off foundation. Some tree damage reported.
4SW Hutchinson McLeod County	23	5:00PM	-	-	0	0	0	0	TORNADO
									Tornado touched down briefly in field before returning to cloud. No damage.
8 1/2SE Fairfax Nicollet County	25	5:30PM	-	-	0	0	4	4	Wind & Hail
									Wind in excess of 60 mph destroyed grain bin. Some crop damage one-by-two mile strip due hail up to 3/4 inch. Damage to farm outbuildings and trees also Northeast Fairfax with hail damage three-by-five mile strip. Hail damage \$2,000 property and \$5,000 crops.
6NE Hayward Freeborn County	26	1:00PM	1 1/2	*1	0	0	0	4	Hail-Wind
									Hail mostly pea-sized whipped by 60 mph winds caused up to 50 percent damage to 2400 acres of corn and soybean cropland. Replanting of soybeans necessary.
Crookston Polk County	26	1:30PM	-	-	0	0	4	0	Wind
									Winds in excess of 50 mph blew down wall of medical building under construction - some wind damage to mobile homes in trailer park - a few branches and trees down.
SW Crookston Polk County	26	3:00PM	1 1/2	100	0	0	5	?	TORNADO & Lightning
									Storm traveling northeast caused considerable damage to powerlines, lifted roofs off buildings, and twisted walls, many trees down. Lifted foam spray tank 1/4 mile. Very heavy rain. Crop damage unknown due size of plants.
St. Cloud Stearns County	26	5:50PM	-	-	0	1	4	0	Wind-Lightning
									Winds in excess of 50 mph. Numerous power outages - several trees down - considerable damage to residence due fire from lightning strike - serious burns incurred by carnival employee when wind blew over hot grease at concession stand. Lightning damage \$4,000.
Red Wing Goodhue County	26	7:30PM	-	-	0	1	0	0	Lightning
									18-year old boy injured by lightning bolt.
Royalton Vicinity Morrison County	26	7:30PM	-	-	0	0	4	0	Wind
									Wind in excess of 70 mph destroyed concrete block addition to barn - some trees uprooted - damage to various farm outbuildings.
2NE Opole - 1NW Buckman Morrison County	27	7:00PM	15	300	0	0	4	0	Wind
									Winds in excess of 60 mph destroyed or damaged several farm outbuildings and toppled windmill.
8S Rushmore - 1 1/2SW Rushmore Nobles County	27	4:30PM	8	60	0	0	5	4	TORNADO
									Mini-Tornado moved north on 8-mile path demolishing many farm outbuildings, including barn and at least two machine sheds. Extensive damage to farm equipment and machinery. Many trees uprooted - corn field reduced to six-inch stubs.
Redwood Falls Vicinity Redwood County	27	11:30PM	-	-	0	0	5	0	Lightning
									Farm chemicals building destroyed by fire from lightning strike.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
MINNESOTA (continued)									
2W Dodge Center Dodge County	28	9:30PM	-	-	0	0	4	0	Lightning
			24x45 foot steel pole building and 1900 bales of straw destroyed by fire from lightning strike.						
1N Northrop Martin County	28	3:30PM	4	*2	0	0	3	4	Hail
			Eight square miles of crops damaged as hail covered ground. Average hail size 3/4 inch. Storm moved from WSW to ENE. Three-inch rainfall amounts reported.						
Starbuck & Lowry Vicinity Pope County	28	4:00PM	3	*2	0	0	3	5	Hail
			Hail covered 18 to 20 Sections to a depth of two inches causing considerable crop loss. Hail size 1/2 inch to one inch.						
SSW Climax Polk County	28	4:20PM	2	*2	0	0	0	4	Hail
			Brief hail storm produced golf ball size hail with a few reaching two inches in diameter.						
Good Thunder & Lake Crystal Blue Earth and Nicollet Counties	28	6:00PM	10	750	0	0	0	4	TORNADO
			Tornado traveled north from West of Good Thunder, MN ten miles. Open country only small crop damage due heavy rain, no hail, little wind.						
Eastern Half of Watsonwan County	28	6:00PM	-	-	0	0	3	5	Hail
			Hail to golf ball size and up to three inches deep in places completely wiped out hundreds of acres of corn and soybeans - some damage to wheat, oats, and alfalfa.						
Near Zimmerman Sherburne County	29	1:30AM	-	-	0	0	5	0	Lightning
			Lightning strikes barn causing complete loss of barn and adjacent auto body shop.						
Cyrus and Morris Vicinity Stevens County	29	3:00PM	4	*3	0	0	?	5	Hail
			Snow plows were called out to remove drifts of hail 6 to 8 inches deep on Minnesota Highway 28. Rainfall amounts of three to six inches were reported with considerable erosion of topsoil. .8 miles west of Cyrus a slough had accumulation of ice up to six feet deep.						
NE Benson Swift County	30	4:00PM	2 1/2	*1 1/2	0	0	3	5	Hail
			Hail 1/2 inch to one inch covered ground and damaged a six square mile area of cropland. Two and one-half inches of rain in 30 minutes.						
Eagle Lake Kandiyohi County	30	5:00PM	1/8	20	0	0	4	0	TORNADO
			Mini-tornado damages two camping outfits in a brief touchdown.						
20NE Minneapolis Ramsey County	15	1:42PM							Funnel Cloud
20NE Minneapolis Washington County	15	6:42PM							Funnel Cloud
27SW Mankato Blue Earth County	18	4:10PM							Funnel Cloud
Tracy Area Lyon County	20	1:40PM							Funnel Cloud
SSW Redwood Falls Redwood County	21	3:13PM							Funnel Cloud
2N Elk River Sherburne County	21	4:10PM							Funnel Cloud
Shakopee Vicinity Scott County	21	10:15PM							Funnel Cloud
6N Hector Renville County	23	5:00PM							Funnel Cloud
4N Hutchinson McLeod County	23	5:39PM							Funnel Cloud
Fairfax Area Renville County	23	6:00PM							Funnel Cloud
6SW Hutchinson McLeod County	23	6:20PM							Funnel Cloud
MINNESOTA (continued)									
6SE Wolverton Wilkin County	28	6:00PM							Funnel Cloud
Hendricks City Golf Club Lincoln County	29	1:00PM							Funnel Cloud
Near Rothsay Wilkin County	29	5:00PM							Funnel Cloud
MISSISSIPPI									
Bay St. Louis, Hancock County	2	6:15 AM	2 1/2	20	0	0	4	?	Tornado
			A small tornado touched down about 1/2 blocks from the beach in Bay St. Louis destroying a church and inflicting minor damage to several homes. Trees and power lines were also downed as the tornado retracted and touched down several times. Damage \$20,000, mostly to church.						
Helena, Jackson County	2	7:00 AM	5	440	0	0	4	?	Tornado
			A small tornado barely touched down 1/2 mi. S of Helena and moved NE for 5 mi. not completely on the ground the whole time. One trailer was damaged as was a roof of a paper company. Several small sheet metal buildings were destroyed. Total damage \$16,500.						
Monroe, Lowndes Counties	8	1:40 PM			0	0	?	?	Hail
			An isolated heavy thunderstorm dropped large hail in the Monroe and Lowndes County areas. Columbus PD reported hail between 1/2 and 3/4 inch 10 mi. N of Columbus at 1:40 PM while hail as large as two inches was reported in the Hamilton area in South Monroe County. Crop damage unknown at time of report.						
Hinds, Warren Counties	8	2:30 PM			0	0	?	?	Hail
			a line of heavy thunderstorms oriented NE-SW moved across Central and Southern MS from the Mississippi River and produced hail, heavy rains, and strong winds as the line moved eastward. Numerous reports of marble size hail were received and hail as large as small eggs was reported by the public in SW Jackson at 3:40 PM. Vicksburg received golf ball hail at 2:30 PM.						
Covington, Jones Counties	8	5:45 PM			0	0	4	?	Wind
			The line of thunderstorms that produced the hail earlier in SW and southcentral MS from the Mississippi River and produced hail, heavy rains, and strong winds as the line moved eastward. Numerous reports of marble size hail were received and hail as large as small eggs was reported by the public in SW Jackson at 3:40 PM. Vicksburg received golf ball hail at 2:30 PM.						
Starkville, Oktibeha County	23	5 PM			1	0	?	0	Lightning
			Lightning from a late afternoon thunderstorm struck and killed a male in his late teens 8 mi. S of Starkville. The thunderstorm moved from SE to NW across southern Oktibeha County. The body was found at his home near a barn.						
Greenwood, Leflore County	30	3:30 PM			0	0	?	?	Hail
			Flight Service personnel at the GWO airport reported one inch hail 2 mi. west of the airport. The thunderstorm producing the hail was the southernmost of a cluster of storms.						
Marshall, Benton Counties	30	10:20 PM			0	0	?	?	Hail
			a heavy thunderstorm dropped golf ball size hail 1 mi. S and 1 mi. E of Potts Camp in Marshall County as reported by the MHP. At 10:40 PM the Benton County Sheriff's Office also reported golf ball size hail. 10 mi. north of Hickory Flat.						
Baldwyn, Prentiss County	31	12:20 AM			0	0	0	0	Funnel Cloud
			Tupelo/Lee County Civil Defense reported a funnel cloud near Baldwyn in Prentiss County where a loud roaring noise was also heard. This was part of a large thunderstorm cluster that moved through NE MS between 10 PM and 1 AM.						
Long Beach, Harrison County Dedeaux, Hancock County Pocahontas, Poplarville Pearl River County	31	7:55 PM			0	0	4	0	Funnel Cloud, wind
			An area of thunderstorms moved southeast through SE MS on the evening of the 31st producing small hail and downing pine trees on the south edge of Poplarville at 7 PM. At 7:55 PM Gulfport Police spotted a funnel cloud just W of Gulfport near Long Beach as the thunderstorms continued southeast across the coast. Very high winds knocked down several walls of a new shopping center under construction in Pocahontas and caused minor roof damage to numerous homes in Poplarville. In the Dedeaux community of Hancock County, trees and utility poles were snapped in two and power lines were shredded into the tops of trees. Similar wind damage occurred in Bonx Beach. Total damage approximately \$30,000						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MISSOURI Richmond-Rockingham-Carrollton, Ray and Carroll Counties	4	5:15 p	50	880	0	1	6	6	Tornado
<p>The tornado developed just north of Richmond and moved northeasterly at first but gradually turned to the right so that it was heading almost due east as it left Ray County just north of Rockingham. Damage along the path was very heavy and destruction was nearly total. The tornado continued eastward through the southern part of Carroll County passing north of Carrollton then moved east northeast, dissipating after causing damage in Brunswick just inside Chariton County. The tornado spent its entire life away from populated areas so that damage was confined to mostly rural homes, farms, and outbuildings. Even so, over 200 homes were destroyed or damaged.</p> <p>Aerial surveys showed that the tornado was on the ground continuously during its existence. There were many eye-witness accounts of as many as five funnels visible concurrently. Property damage was estimated around \$4 million with crop losses of about \$500,000.</p>									
Sedalia, Pettis County	4	1:45 p	11	704	0	34	7	3	Tornado
<p>The tornado touched down 9 miles southwest of the center of the city and moved northeast through the center of the city. The maximum damage began in a strictly rural area and continued into the heavily populated southwest section of the city. Less dramatic but continuous damage occurred as the tornado moved through the city, central part of the city then out to a point 2 miles northeast of the center of the city where it dissipated. Approximately 150 homes were destroyed and 300 others were damaged. Several schools were damaged and two elementary schools were not reopened for the remainder of the school year. Five of the injured were hospitalized.</p>									
Saline County, 8 miles north of Marshall	4	amd 1 p	.1	50	0	0	4	0	Tornado
<p>A mini tornado struck the Harvey Farm heavily damaging the house and a two-story barn plus several other buildings and trees.</p>									
Northeast quadrant of Missouri	4	afn &	?	?	0	0	5	0	Severe thunderstorms
<p>Severe thunderstorms with strong winds, large hail, and lightning caused widespread damage in Northeast Missouri. Lightning caused the destruction of a grocery store in Center. Hail ranging up to an inch in diameter damaged gardens and other foliage in Vandalia, and wind caused damage to roofs, trees, power lines, windows, business signs, mobile homes, and outbuildings.</p>									
Drexel-Pleasant Hill area, Bates and Cass Counties	4	11:40 a	28	500	2	15	7	3	Tornado
<p>Tornado started in extreme northwest Bates County about 5 miles southeast of Drexel and moved northeasterly striking Pleasant Hill at 12:20 p. In Pleasant Hill 25 homes were destroyed and 56 damaged, 17 mobile homes were destroyed. The high school and elementary school were heavily damaged, but there were only minor injuries due to excellent warnings. Two fatalities occurred in Pleasant Hill: one in a mobile home, the other in a residence. Before reaching Pleasant Hill, the tornado destroyed or heavily damaged 23 rural homes. There was little damage beyond Pleasant Hill as the tornado dissipated rapidly. Estimates of property damage range from \$10-15 million down to a Corps of Engineers figure of \$3.4 million.</p>									
Odesa-Higginsville, Lafayette County	4	1:15 p	20	100	1	5	6	3	Tornado
<p>This tornado touched down just east of Odesa where a mobile home resident was critically injured and died a few days later. The tornado moved northeastward across Higginsville where about 100 homes and 40 businesses were destroyed or damaged. The tornado lifted in the vicinity of Waverly around 1:45 p.</p>									
Missouri City-Excelsior Spring, Jackson and Clay Counties	4	4:40 p	10	400	0	5	6	5	Tornado
<p>This tornado actually had its birth in nearby Jackson County on the south bank of the Missouri River near Atherton. As it crossed the river into Clay County moving north northeastward, it demolished a small group of residences about 2 miles northeast of Missouri City. Four homes were totally destroyed. The storm continued north northeast, mostly over open country, but still causing significant damage. When it reached the southern portion of Excelsior Springs, it destroyed two dormitories and a home in a church campground. Fortunately, the tornado lifted just before reaching the more heavily populated area of the city, although considerable debris was carried aloft over the city and deposited over a wide area. A total of 28 homes were destroyed or damaged. Property damage estimates ranged from \$1 million down to a more conservative Corps of Engineers figure of \$191,000.</p>									
South Buchanan, Warren, DeKalb, and Harrison Counties	5	afn & eve	?	?	0	0	3	3	Hail
<p>Golf-ball size hail caused damage to windows, roofs, automobiles, and wheat and hay crops.</p>									
Vandalia, Audrain County	6	afn	?	?	0	0	3	0	Wind
<p>Strong winds in a thunderstorm caused property damage in Vandalia, with trees and TV antennas downed, outbuildings destroyed, a mobile home overturned and roofs damaged.</p>									
Central Vernon County	8	2:35 p	?	?	0	0	4	0	Wind
<p>High winds in a thunderstorm blew out shop windows, downed power lines, toppled trees—some onto houses—in Nevada. In Moundville, southwest of Nevada, the south wall of a frame structure attached to a brick building was blown out by the wind.</p>									
Eldon, Miller County	16	amd 4 p	.1	10	0	0	4	0	Tornado
<p>A mini Tornado developed in the central part of town breaking a window in a filling station and scattering tires over the block. The tornado moved northeast through town damaging two mobile homes just northeast of town and scooting another off its supporting blocks.</p>									
MISSOURI (continued)									
Lamar, Barton County	19	10 p	?	?	0	0	4	0	Lightning
<p>Lightning caused a fire that destroyed a barn and 10-15 tons of hay.</p>									
Eagleville, Harrison County	19	afn	?	?	0	1	0	0	Lightning
<p>Two men were stunned and one man injured when lightning struck the third man in the chest while they all worked on a tractor. The man struck sustained a severe burn to the chest and minor burns on the neck and ear.</p>									
Trenton, Grundy County	21	amd 7 p	5	150	0	0	4	0	Tornado
<p>A tornado apparently originated on the northern outskirts of Trenton and moved northeast to 2 1/2 miles east of Tindall where it dissipated. On the May Farm east of Tindall, a machine shed and hog shed were destroyed, and damage was suffered by the barn, the house and numerous trees. South of the May Farm, five fruit trees were broken or uprooted in an orchard.</p>									
Greene County	21	amd 8:30 p	?	?	0	0	3	0	Severe thunderstorm
<p>Lightning and wind caused damage to numerous trees and power lines. A 1973 Vega station wagon was extensively damaged when a large elm tree landed on it.</p>									
West Central Harrison County	21	4:45 p	1	100	0	0	4	0	Tornado
<p>A tornado caused damage to the Boyd Alexander home, then destroyed two barns and uprooted several trees on a nearby farm and two more barns on an adjoining farm.</p>									
Hayti, Pemiscot County	22	bet 2 & 4 p	?	?	0	0	2	0	Wind
<p>Strong winds in a thunderstorm downed a very old tree, destroyed two portable buildings at a Donut Shop and blew the antenna off the roof.</p>									
Missouri Bootheel and Butler County	23	amd 2 a	?	?	0	0	3	0	Lightning
<p>Lightning burned out several transformers, downed power lines, and stripped an oak tree of bark in Poplar Bluff.</p>									
Cape Girardeau and Stoddard Counties	23	7:30 p	?	?	0	0	4	3	Severe thunderstorm
<p>Lightning struck a mobile home which burned to the ground just west of Dudley. Very heavy rain and hail caused severe soil erosion and damage to corn and bean crops.</p>									
Pemiscot County	25	1:30 p	?	?	0	0	3	5	Severe thunderstorm
<p>Very heavy rain, strong wind, and hail accompanied thunderstorms in the bootheel. Pemiscot County reported several tool sheds destroyed and light damage to others, with severe damage to farm buildings and crops.</p>									
Southern two-thirds of Missouri	30	11 a - 10 p	?	?	0	0	5	3	Severe thunderstorms
<p>At 11 am thunderstorms began developing in western Missouri and by late afternoon a well-developed area of thunderstorms began moving across the southern two-thirds of the state. High winds and hail were associated with these storms causing widespread power outages, tree and property damage. Lightning started fires in two buildings in the St. Louis area. Hardest hit were Springfield and Lebanon where mobile homes were destroyed, roofs were blown off or badly damaged, business signs blown down, and windows blown out.</p>									
MONTANA									
Havre - 2 miles east	10	2000 MDT	-	-	0	0	5	1	Single tstm cell. Strong outflow. Wind speed estimated at 60-70 MPH. Demolished 2 mobile homes and damaged another. Movie screen from Drive-In theatre blown down.
Benchland	10	1930 MDT	?	?	0	0	5	1	Tornado with severe tstm - winds estimated 100 MPH. Damage to farm buildings.
Utica	10	2000 MDT	?	?	0	0	4	1	Tornado - damage to farm buildings and auto.
Circle	17	1900 MDT	-	-	0	0	4	5	Hail - golf ball size - windows broken.
Joplin	24	1930 MDT	-	-	-	-	4	1	Tornado - damage to farm buildings, power lines and farm equipment.
Glendive	25	1115 MDT	-	-	0	0	0	0	Hail 1/2" to 1" - No property damage reported.
Ashland	27	1300 MDT	-	-	0	0	0	0	Funnel cloud.
NEBRASKA									
NO STORM DATA REPORT RECEIVED FOR THIS STATE									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
NEVADA			NONE	REPORTED					
NEW HAMPSHIRE			NONE	REPORTED					
NEW JERSEY			NONE	REPORTED					
NEW MEXICO									
Solano, Harding County	14	12:30 a			0	2	4		Tornado
									Tornado touchdown demolished mobile home which was tied down into concrete. Other structures damaged and some livestock injured as well as the two inhabitant of the mobile home. Heavy rain in the area.
Near Clovis, Curry County	16	Forenoon			0	0	?	?	Hail
									Complex of morning thunderstorms dropped hail up to one inch in diameter.
Portales, Roosevelt County	23	5:30 p.			0	0	?	?	Hail
									Brief hail to golf-ball size caused minor damage.
Near Clovis, Curry County	23	6:30 p.			0	0	0	0	Tornadoes
									Two tornado funnels briefly touched down west of Clovis as reported by city police.
Las Vegas Airport, San Miguel County	24	6:37 p.			0	0	0	0	Hail
									Ten minutes of hail up to one-inch diameter. Open country, no damage.
NEW YORK COASTAL									
Westchester County	9	4p - 6p			0	0	?	0	Lightning & Thunderstorms
									Several thousands of hose were left without electricity when lightning struck a substation located in Pleasantville. Also, lightning struck a multiple-family dwelling in New Rochelle. There were no injuries reported in either accidents.
									Local highway floodings were reported throughout the County.
Nassau & Suffolk Counties	9	4p - 7p			0	2	?	0	Lightning and Thunderstorms
									A line of Thunderstorms swept across Long Island at rush hour, flooding roads, and leaving thousands of homes without electricity.
									Lightning set a Hewlett Harbor (Nassau County) home afire and a second bolt stunned two volunteer firemen fighting the fire. They were treated at a nearby hospital and released.
NEW YORK CENTRAL									
LOWER HUDSON VALLEY	6	3 PM			0	0	1	1	HEAVY RAIN-WIND
									A severe thunderstorm accompanied by high winds and heavy rain caused wide spread power outages throughout the Lower Hudson valley. Up to 10,000 homes were without power for as long as 4 hours.
EASTERN NEW YORK									
	8-9	7PM to 5PM			0	0	2	1	HEAVY SNOW
									A late spring snow storm dumped 12 to 14 inches of wet snow over the interior sections of Eastern New York. Hardest hit were the areas of the Catskill and Southern Adirondack mountains. The wet snow remained on trees, which already had leaves on them, resulted in many of the branches falling on power lines and disrupting power and telephone service to many areas for as much as 10 to 12 hours. Numerous schools were forced to close as highway crews battled 35 to 45 MPH winds which caused many of the roads to remain closed due to blowing and drifting snow.
NEW YORK WESTERN									
Steuben County	8-9	Overnight	?	?	0	?	?	?	6-12 inches wet snow over high elevations.
Niagara Falls, LaSalle Section	23	3:20PM	?	?	0	1	?	?	Very strong winds, large hail, heavy rain.
Rochester area--Pittsford, Fairport, and Bushnell's Basin.	23	3:30PM	?	?	0	?	?	?	Severe lightning... 7 homes struck.
NORTH CAROLINA									
Person County	05	5:40 p	1/2	30	0	0	3	3	Tornado
									Tornado touched down six miles southwest of Roxboro damaging some farm buildings and trees.
Edgecombe County	05	6:30 p	1-1/2	25	0	0	4	3	Tornado
									Tornado touched down four miles west of Tarboro near State Road 1205 damaging farm buildings and trees.
Famlico County	05	8:45 p					1		Lightning
									A person was injured at the Cherry Point Marine Station when hit by lightning.
Wake County	07	2:50 p	1	10	0	0	3	3	Tornado
									A tornado touched down about 6-1/2 miles east northeast of the Raleigh-Durham Airport damaging a farm house and some trees.
Columbus County	19	4:00 p					1		Lightning
									A young woman was killed by lightning when running through a field in Sellerstown which is three miles south of Whiteville.
NORTH DAKOTA									
3SS Belfield	3	6:01 pm	--	--	0	0	0	0	Hailstorm
									Golf ball size hail. No damage reported.
North of Bottineau	3	11:20 am	--	--	0	0	1	0	Windstorm
									High winds blew an 8x5 foot aluminum storage shed over a trailer house.
Cavalier	4	5:30 pm	--	--	0	0	4	0	Windstorm Heavy rain
									Barns, buildings and airport hangar were damaged by high winds. Over 4 inches of rain fell West of Cavalier.
13E Linton	4	5:34 pm	--	--	0	0	0	0	Funnel, hail
									Golf ball size hail and funnel. No damage reported.
Lisbon	4	5 pm	--	--	0	0	?	0	Heavy rain
									Roads flooded by heavy rain.
Fargo	4	Evening	--	--	0	0	?	0	Heavy rain
									Roads and basements flooded when over 4 inches of rain fell.
East of Havana	4	9:15 pm	--	--	0	0	0	0	Funnel
20NW Glen Ullin	13	3:40 pm	?	?	0	0	0	0	Tornado
									No damage reported
Grenora	13	4:50 pm	?	?	0	0	0	0	Tornado
									No damage reported
NW Williston	13	6:50 pm	?	?	0	0	0	0	Tornado
									No damage reported
3NE New Salem	15	12:30 pm	--	--	0	0	3	0	Windstorm
									Two barns damaged by wind.
Baldwin	15	4:12 pm	--	--	0	0	4	0	Windstorm
									High winds ripped roof off a barn, blew out windows, tipped over a grain bin, and ruined an auger system on the Donald Bender farm.
Menoken	15	4:25 pm	--	--	0	0	2	0	Windstorm
									Barn damaged and trees uprooted.
Fargo	15	5:15 pm	--	--	0	0	0	0	Windstorm
									Fargo Airport had a wind gust to 52 knots. No damage reported.
McLeod	15	6:30 pm	--	--	0	0	3	0	Windstorm
									Trees uprooted, and farms and buildings damaged.
2E Sheldon	15	6:47 pm	--	--	0	0	3	0	Windstorm
									Trees 6 inches in diameter and a tool shed were blown over by the wind.
Towner	15	7:10 pm	3.1	?	0	0	4	0	Tornado
									Trees and small buildings were damaged.
S Lake Sakakawea	17	5:55 pm	?	?	0	0	0	0	Tornado
									No damage reported.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS ESTIMATED DAMAGE				CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
NORTH DAKOTA (continued)										OKLAHOMA										
7S Tioga	17	7:30 pm	9.5	?	0	0	5	0	Tornado Hailstorm	Near Forgan, Beaver County	1	3:50 p.- 4:10 p.	3	100	0	0	0	0	Tornado	
									Tornado tore the roof off the Myron Iverson farm house, destroyed several sheds and two barns, took the roof off a mobile home, blew out windows, and tore up booths at rodeo grounds. Also golf ball size hail was reported.										Tornado occurred in open country. No damage reported.	
15N Langdon	17	7:45 pm	--	--	0	0	3	0	Hailstorm	East-Central Washita County	1	5:30 p.			0	0	0	4	Hail	
									Golf ball to duck egg size hail damaged or broke out car wind-shields.										Hail up to 1 inch in diameter fell in an area 4 miles west of the intersection of highway 152 and the Washita-Caddo County line causing crop damage.	
10E Max	18	1:40 pm	9.5	?	0	0	5	0	Tornado	Southeast Caddo County	1	6:15 p.- 6:50 p.			0	0	0	4	Hail	
									Tornado destroyed a house under construction at Sawyer.										Reports indicate numerous occurrences of hail 3/4 inch in diameter.	
25SW Minot	18	2:21 pm	?	?	0	0	0	0	Tornado	Near Binger, Caddo County	1	6:20 p.			0	0	0	4	Hail	
									No damage reported.										Hail up to 1 1/2 inches in diameter fell 5 miles north of Binger causing crop damage.	
E Wolford	18	5:30 pm	--	--	0	0	3	0	Windstorm	Near Anadarko, Caddo County	1	6:24 p.			0	0	0	3	Hail	
									Small buildings damaged by wind.										Golf ball to baseball size hail fell in open country east of Anadarko.	
4SK Langdon	18	8:10 pm	?	?	0	0	0	0	Tornado	Near Buffalo, Harper County	1	6:30 p.			0	0	0	4	Hail	
									No damage reported.										Hail 1 1/2 inches in diameter fell 8 1/2 miles north of Buffalo.	
4W Hannah	19	5:47 pm	4.1	?	0	0	0	0	Tornado	Near Strong City, Roger Hills County	1	7:28 p.			0	0	0	4	Hail	
									No damage reported.										Up to 1 1/2 inches diameter.	
NE Elliott	22	12:28 pm	--	--	0	0	0	0	Two funnels	Southeast Corner of Woodward County	1	8:35 p.			0	0	0	4	Hail	
Wyndemere	22	3:00 pm	--	--	0	0	0	0	Funnel										Up to 1 1/2 inches in diameter.	
Abercrombie	22	3:10 pm	--	--	0	0	0	0	Funnel											
Wheatland	22	5:15 pm	--	--	0	0	0	0	Funnel											
Williston	24	7:10 pm	--	--	0	0	2	0	Windstorm	Elk City, Beckham County	1	9:00 p.- 11:00 p.			0	0	5	4	Hail, flash flood	
									Trees knocked down by high wind.										Unofficial measurements of 3 1/2 to 4 inches of rain fell in a short period of time. Extensive window breakage was caused by golf ball size hail. Some schools had 60 percent window breakage. West of Elk City hail up to baseball size fell. Considerable flash flooding occurred causing damage to businesses and cars. An eight car Rock Island train was derailed due to flash flood debris blocking the tracks.	
Tioga	25	7:05 pm	--	--	0	0	0	0	Funnel											
Price	25	6:30 am	--	--	0	0	?	0	Heavy rain	Near Hammon, Roger Hills County	1	10:00 p.							Funnel Cloud	
									Road culvert washed out by a heavy rain.											
5NE Taylor	25	6:53 pm	--	--	0	0	0	0	Two funnels	Near Erick, Beckham County	1	10:40 p.			0	0	0	4	Hail	
10NW Flasher	27	5:55 pm	--	--	0	0	0	0	Two funnels Windstorm	Near Texola, Beckham County	1	10:44 p.							Funnel Cloud	
									Morton County Deputy Sheriff reported funnels and 75 to 80 mph winds. Car moved a couple of feet by the wind.										Up to 1 1/2 inches in diameter.	
SW Horace	27	Evening	--	--	0	1	0	0	Lightning	Altus area, Jackson County	2	2:30 a.			0	0	0	0	Hail	
									Chaig Hofstrand was struck by lightning while lashing an aluminum canoe on his car.										Marble to golfball size.	
9SSW Dickinson	29	12:22 pm	--	--	0	0	0	0	Funnel	Near Tipton, Tillman County	2	3:30 a.			0	0	4	5	Hail	
									Reported by Flight Service Station personnel at Dickinson Airport.										Up to 1 1/2 inch diameter hail fell in an area from west of Tipton to Tipton and northeast of Tipton.	
Near Arvilla	29	3:45 pm	--	--	0	0	0	0	Funnel	Near Hardesty, Texas County	3	4:14 p.			0	0	0	4	Hail	
																			Hail up to 1 1/2 inches in diameter fell 3 miles east of Hardesty causing damage to crops.	
OHIO										Altus, Jackson County	3	6:15 p.			0	0	3	0	Wind	
Northeast	8	Late Afternoon			0	4	4	0	Wind										A wind gust of 72 m.p.h. was recorded at Altus AFB. Damage was minor. Pea Size hail accompanied the storm.	
									A cold front moved across Lake Erie causing wind gusts in excess of 70 MPH to batter the Northeast Ohio shoreline. Four persons were injured and there was a considerable amount of property damage due to the winds.											
Cincinnati	29	Late Afternoon			0	2	4	0	Lightning	Near Tipton, Tillman County	3	6:33 p.			0	0	0	0	Wind	
									An isolated thunderstorm moved through Cincinnati producing heavy rain and numerous lightning strikes. Two ball players in separate games were struck and injured by lightning.										Wind gusts up to 56 knots were measured 4 miles south of Tipton. No damage was reported.	
Entire State	5-30				0	0	0	?	Unusual Dry Spell	Near Erick, Beckham County	3	11:00 p.			0	0	0	4	Hail	
									Very little rain fell during this period. In fact Cleveland Hopkins Airport recorded no measurable precipitation during this 25 day period. Farmers had to replant many crops and many seedlings failed to sprout.										Hail up to 1 1/2 inches in diameter.	
										Near Rocky, Washita County	4	12:30 a.							Funnel Cloud	
										Near Eldorado, Jackson County	5	2:00 p.							Funnel cloud	
																			Approximately 1/2 mile south of Eldorado.	
										Near Hollis, Harmon County	5	2:00 p.								Funnel cloud
										Near Willow, Greer County	5	2:35 p.								Funnel cloud
																			Southwest of Willow.	
										Mangum-Reed area, Greer County	5	2:38 p.			0	0	4	4	Wind, hail	
																			Wind gusts of up to 68 knots were measured near Mangum. Fruit trees were damaged. A barn was also damaged. Two small towers were blown over. Wheat received hail damage.	

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (continued)									
Tipton, Tillman County	5	4:30 p.			0	0	4	5	Hail
			Hail up to 1 1/2 inches in diameter caused windshields to crack and damaged trees just west of Tipton. Areas northwest and southwest of Tipton reported 50% loss of wheat crop.						
Duncan, Stephens County	5	7:30 p.	1/2	50	0	0	4	0	Tornado
			An apparent small tornado touched down in the northeast part of Duncan. Movement was from southwest toward the northeast. The first damage was to a golf club where the top part of trees were damaged. The last damage occurred to a church at the end of the path. The tornado was apparently not completely in contact with the ground.						
Laverne area, Harper County	14	5:30 p.			0	0	4	4	Hail
			Hail ranged up to 1 1/2 inches in diameter.						
Custer and Roger Mills Counties	14	6:30 p.			0	0	0	5	Hail
			Extensive hail damage to crops along the Custer-Roger Mills County line near Hammon. Maximum size unknown.						
Stephens and Garvin Counties	15	6:30 p. - 8:14 p.			0	0	4	5	Hail
			A thunderstorm produced hail of and greater than 3/4 inch in a swath averaging 8 miles wide that extended from 4 miles SW of Alma to Pauls Valley. Hail up to baseball size was reported at Pauls Valley.						
Alma, Stephens County	15	6:38 p.	3/4	180	1	2	5	0	Tornado
			A tornado hit the rural community of Alma. Movement was from south toward north. Three houses and one trailer destroyed. Six homes and one school damaged.						
Near Minco, Grady County	15	7:29 p. - 7:30 p.			0	0	0	4	Hail
			One inch diameter hail fell 5 miles SW of Minco.						
Near Elmore City, Garvin County	15	8:00 p.	1	33	0	0	1	0	Tornado
			Tornado occurred in open country about 1 mile south of Elmore City. Only damage was to trees.						
Near Lindsay, Garvin County	15	8:14 p.	1	33	0	0	0	0	Tornado
			Tornado occurred few miles south of Lindsay. No known damage.						
Wynnewood, Garvin County	15	10:00 p.			0	0	5	0	Hail, rain
			Hail was up to 1 1/2 inches in diameter. Extensive damage occurred to roofs in the business district.						
Near Slapout, Beaver County	16	3:30 p.							Funnel cloud
Near Erick, Beckham County	16	4:55 p.							Funnel cloud
			Southwest of Erick.						
Near Sweetwater, Beckham County	16	5:00p. - 5:10p.	6	800	0	0	4	0	Tornado
			Tornado occurred in open country. Only significant damage was to 1 trailer which was destroyed.						
Near Erick, Beckham County	16	5:01 p.							Funnel cloud
			West of Erick.						
Granite, Greer County	16	5:15 p.			0	0	4	0	Hail
			Hail was up to 2 inches in diameter. Car damage reported.						
Mayfield-Grimes-Cheyenne, Beckham and Roger Mills Counties	16	5:24p. - 6:10p.	22	*3/4	0	0	5	0	Tornado
			Tornado began in rural area near Mayfield. In the Mayfield-Grimes area. Two trailers and several barns were destroyed. Two homes were damaged. The primary damage in the Cheyenne area was to hangars and planes at the airport. Movement from SW to NE. Tornado was not in continuous ground contact.						
Southern Roger Mills County	16	5:45 p.	Short Narrow		0	0	0	0	Tornado
			Tornado touched down momentarily in open country SE of Grimes. No damage.						
Greer and Kiowa Counties	17-18	11:00 p. - 6:00 a.			0	0	5	0	Flooding
			Flood gates of Lugert Dam were opened in anticipation of heavy runoff from upstream rains. This resulted in flooding of areas below the dam. Especially hard hit was a group of 15 homes and 15 mobile homes on south side of SH #44, just west of Quartz Mountain Speedway.						
OKLAHOMA (continued)									
Keyes area, Cimarron County	18	1:50p. - 2:25p.	28	*1/4	0	0	4	4	Tornado, hail
			Tornado touched down about 8 miles SE of Boise City and moved toward the NE until it brushed the west edge of Keyes. From Keyes the tornado continued toward the NE and moved out of Cimarron County into Colorado. Tornado was large and witnesses described seeing two large tornadoes side by side. Damage in Keyes was limited to corrals and a grain elevator. Main damage along rural portion of path was to a farm 4 miles SW of Keyes where some out-buildings were destroyed. Hail up to baseball size fell in a swath that was parallel to and west of the tornado path.						
Near Hough, Texas County	18	2:45 p.							2 Funnel clouds
			West of Hough 5 to 6 miles.						
Northwest Corner of Texas County	18	3:15 p.							2 Funnel clouds
Washita County	19-20	All day			0	0	5	0	Flash flooding
			Heavy rains on the 19th and 20th caused widespread damage to county roadbeds and bridges especially in lowland areas along the Washita River. Several county bridges were washed out.						
Kiowa County	19	12:30 p.			0	0	4	5	Hail, wind
			Hail damage was especially severe from S of Lone Wolf to SW of Hobart. Two to three thousand acres were affected in the Lone Wolf area. Hail broke windows in Hobart and winds were clocked to 62 miles per hour.						
Longdale, Blaine County	19	12:30 p.			0	1	1	0	Lightning
			A woman talking on the telephone was knocked unconscious when the phone lines near her home were struck by lightning.						
Canadian County	19-21	2:30p., 19th - 1:00a., 21st			0	0	5	0	Flash Flooding
			Heavy rains caused considerable flash flooding. Most damages were to county and city roads, sewer lines and bridges. Most home damage was minor.						
Stephens County	19	3:30p. - 10:00p.			0	0	5	4	Flash Flooding
			Three to 5 inches of rain were general across the county. Unofficial measurements of 5.7 inches were measured in the Duncan area. A few basements were flooded. Several county bridges were washed out and others damaged.						
Near Foster, Garvin County	19	4:30 p.	Short Narrow		0	0	3	0	Tornado
			Tornado occurred north of Foster. A house and barn were damaged.						
Garvin County	19-20	4:30p. - 9:00a.			0	0	5	4	Flash flooding
			Heavy rains caused extensive flash flooding. Over 7 inches of rain were measured in a 2-hour period at Maysville. Three to 4-inch amounts were general over the county. Wynnewood measured 6 inches. Most downtown business in Maysville suffered damage due to flood waters 1 foot deep. County roads were flooded. Three county bridges washed out in the Lindsay area.						
Near White Bear, Garvin County	19	5:23 p.	3	100	0	1	4	0	Tornado
			A semi-trailer truck was swept off I-35 and overturned. Driver was injured. Trees were damaged.						
Purcell, McClain County	19	5:30 p.			0	1	4	0	Lightning
			A house was damaged and a man inside was injured.						
Near Paoli, Garvin County	19	5:36 p.	1	100	0	0	4	0	Tornado
			Tornado occurred about 1 1/2 miles SW of Paoli. Several homes sustained roof damage. Trees uprooted and outbuildings destroyed. Heavy rains and minor flooding accompanied the storm.						
Overbrook area, Love County	19	8:45 p.			0	2	4	0	Wind
			Two people were slightly injured when their mobile home was overturned and destroyed. A home, boathouse and trailer camper sustained lesser damages.						
Near Porum, Muskogee County	19	9:30 p.	Short Narrow		0	2	4	0	Tornado
			Tornado occurred about 5 miles NW of Porum. Two of the three occupants of a trailer were injured when it was destroyed. Only other damage was uprooted trees.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

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					KILLED	INJURED	PROPERTY	CROPS		
OKLAHOMA (continued)										
Altus AFB, Jackson County	20	2:20p.-2:36p.	10	*1/2	0	3	6	0		Tornado
										Extensive damage was done to buildings and equipment at Altus AFB. In the community of Altus 3 homes were destroyed and 20 damaged.
Nash area, Grant County	20-21	3:20p.-1:30a.			0	0	0	5		Hail
										A total of 20 farms in the Nash area sustained considerable hail damage to wheat and barley.
Kingfisher County	20-21	3:20p.-6:00p.			0	0	*6	C		Flash Flooding
										Heavy rains produced large runoff causing extensive flooding along Kingfisher Creek. In the community of Kingfisher 150 homes were flooded in a 70-block area. Heavy damage occurred to county roads and bridges.
Near Orion, Major County	20	3:35 p.	5	100	0	0	4	0		Tornado
										Damage was limited to farm buildings and trees.
Chickasha, Grady County	20	3:43 p.	2 1/2	90	0	0	4	0		Tornado
										One hangar was damaged at the airport. One trailer and a house were damaged in a rural area.
Near Snyder, Kiowa County	20	3:50 p.								Funnel cloud
Oklahoma City, Oklahoma County	20-21	4:30p.-1:30a.			0	0	5	0		Flash Flooding
										Excessive runoff caused by heavy rains in a short period of time caused extensive damage to culverts, bridges and storm drains. Flood was particularly bad in the Windsor Hills area of NW Oklahoma City.
Lincoln County	20-21	4:30p.-2:30a.			0	0	5	0		Flash Flooding
										Damage due to flash flooding occurred over all the county but was concentrated in the NW portion of the County. Two bridges were destroyed. Roads and drainage culverts sustained heavy damage.
Near Fort Cobb to Albert, Caddo County	20	4:47p.-5:05p.	13	1100	0	0	5	0		Tornado
										An airport east of Carnegie had damage to hangars and planes. Several buildings and one trailer were damaged near Fort Cobb. One home was destroyed and several buildings sustained minor damage at Albert. Movement was from SSW toward NNE.
Near Cheyenne, Roger Mills County	20	4:59p.			0	0	0	0		Wind
										Wind gusts up to 52 knots were measured. No damage was reported.
Near Sterling, Comanche County	20	5:00 p.			0	0	0	4		Hail
										Hail up to 1 inch in diameter fell 2 miles east of Sterling.
Near Anadarko, Caddo County	20	5:00p.-5:10p.			0	0	0	4		Hail
										Hail ranging from 1 1/2 to 2 inches in diameter fell 10 miles N of Anadarko.
Binger to Near Lookaba, Caddo County	20	5:10p.-5:20p.	8	*1	0	0	5	0		Tornado
										Houses and trailers were damaged at Binger. Farm equipment and outbuildings in the path NNE of Binger were damaged. Movement was from the SSW toward the NNE. An elderly man was killed when he broke his neck in a fall on the steps of his storm cellar.
Near Foster, Garvin County	20	5:30 p.			0	0	4	0		Flash flooding
										The land and buildings on a ranch were extensively damaged when a local lake rose 25 feet in 1 hour due to heavy runoff.
Tipton, Tillman County	20	5:38 p.	1 1/2	200	0	0	5	0		Tornado
										Tornado touched down about 1 mile S of Tipton where a barn was destroyed. Movement was from SSW toward NNE. The tornado then lifted and came down again at the east edge of Tipton along highway 5. Fifteen homes were destroyed and a number had major damage. Numerous trees and outbuildings were destroyed also.
Near Snyder, Kiowa County	20	6:00 p.	3	100	0	0	4	0		Tornado
										Two homes, a pickup and some outbuildings sustained major damage.
Near Waukomis, Garfield County	20	6:15 p.	4	100	0	0	4	0		Tornado
										Tornado occurred in rural area and caused damage to 1 house, 1 trailer and 1 barn.
OKLAHOMA (continued)										
Midwest City- Oklahoma City-Edmond, Oklahoma County	20	6:40p.-7:07p.	15 1/2	400	0	0	6	0		Tornado
										In the Oklahoma City-Midwest City portion of the path damage was confined mainly to an area along Sooner Road from SE 15th street to NE 108th street. Three mobile homes, a service station and 13 homes received major damage. One hundred and five homes received minor damage. Primary damage in Edmond included 3 homes and 3 mobile homes destroyed, 10 homes and 1 school major damage, 1 school and numerous homes minor damages.
Near Arcadia, Oklahoma and Logan Counties	20	7:11p.-7:26p.	9 1/2	400	0	0	5	0		Tornado
										The tornado touched down in a rural area. Four trailers and 1 house were destroyed. One trailer, 8 houses and a number of outbuildings were damaged. Movement of the storm was from SSW toward NNE.
Marshall, Logan County	20	7:20p.-7:25p.	5	100	0	0	5	0		Tornado
										Damage in Marshall included 2 trailers destroyed, a grain elevator with major damage and several homes and businesses with minor damage.
Near Guthrie, Logan County	20	7:30 p.	3	100	0	0	4	0		Tornado
										Tornado occurred approximately 8 miles SW of Guthrie. One travel trailer was destroyed. One house and 1 outbuilding sustained damage.
Near Medford, Grant County	20	7:45 p.	?	?	0	0	5	0		Tornado
										Tornado touched down near the southeast edge of Medford. Main damage was at 2 farms. One barn, 2 granaries, a windmill and a number of outbuildings were destroyed. Trees and fences were extensively damaged. Movement was toward the N. Farm equipment heavily damaged.
Near El Reno, Canadian County	20	8:00p.-12:00 mid			0	0	2	0		Wind
										A wind gust of 61 knots was measured at 8:23 p.m. in the El Reno area. A gust of 59 knots was measured at 11:10 p.m. at the same location. Only minor damage was reported in the El Reno area.
Northwest Oklahoma County	20	8:13 p.			0	0	4	0		Wind
										High winds downed highline utility poles on N. Rockwell Avenue along a 1.2-mile stretch. Several barns were damaged and one school sustained minor damage. Winds estimated far in excess of 50 knots.
Near Lindsay, Garvin County	20	8:33 p.			0	1	2	0		Lightning
										One man was slightly injured when the pickup in which he was sitting was struck by lightning.
Near Elmore City, Garvin County	20	11:16 p.			0	0	4	0		Wind
										Wind gusts up to 56 knots were measured. Minor damage to homes and outbuildings was reported.
Near Goldsby, McClain County	20	11:20 p.			0	0	0	0		Wind
										Wind speeds of up to 61 knots were measured. No damage reported.
Near Elmore City, Garvin County	20	11:30 p.	3	50	0	0	4	0		Tornado
										Tornado occurred in the rural community of Katie, southeast of Elmore City. A garage was destroyed. Three homes, 2 barns, 2 outbuildings and 2 animal trailers were damaged.
Kay County	19-21	All day			0	0	5	0		Flash flood
										Heavy rains caused considerable damage to county roads and bridges.
Pontotoc County	19-21	All day			0	0	5	0		Flash flood
										Extensive flood damage to county roads and bridges. Damage included 5 bridges destroyed and numerous bridges damaged. A 60-inch drainage pipe was washed from under a road.
Shawnee area, Pottawatomie County	21	12:30 a.	9	100	0	0	5	0		Tornado
										Tornado touched down about 3 miles SW of Shawnee. Movement was from SW toward NE. One barn, 3 outbuildings and 1 trailer were destroyed. Two business, 7 homes, 1 outbuilding and 1 trailer sustained damage.
Norman, Cleveland County	21	12:45 a.			0	8	3	0		Rain
										A night club roof collapsed due to heavy rain accumulation. Two of the injured required hospitalization.
Hall Park, Cleveland County	21	2:00 a.	1/2	50	0	0	3	0		Tornado
										Damage occurred to outbuildings. Minor damage occurred to a few houses.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

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					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (continued)									
Claremore, Rogers County	21	2:00 a.			0	0	5	0	Wind
			About 25 businesses were damaged with most sustaining broken windows or blown off roofs. A car dealership sustained damage when a wall was torn apart causing damage to cars. Most other damage caused by falling trees which cut powerlines and crashed onto roofs.						
Near Perry, Noble County	21	8:00 a.			0	0	5	0	Flash flood
			Seventeen cars of a Frisco freight train were derailed due to high water from a nearby flooding creek. The cars were loaded with potash. Accident occurred about 7 miles S of Perry.						
Near Guymon, Texas County	25	5:30 p.- 5:40 p.							Funnel cloud
			Approximately 12 miles S of Guymon.						
Near Cheyenne, Roger Mills County	26	10:45 a.							Funnel cloud
Eldorado area, Jackson County	26	3:45 p.- 4:00 p.			0	0	3	5	Hail
			Hail up to 1 inch in diameter caused extensive crop damage in a swath 10 miles long from N to S and 2 miles wide from E to W. The Eldorado community was included in the hail swath.						
Near Mustang, Canadian County	26	9:35 p.			0	0	0	0	Wind
			Wind speeds of 68 knots were measured. No damage was reported.						
Near Yale, Payne County	27	1:30 a.			0	2	4	0	Wind
			Two men were injured, one seriously when strong winds caused a drilling rig to collapse.						
Near Kiowa, Pittsburg County	28	3:00 p.			0	0	3	0	Wind
			Wind speeds of 60 knots were measured. Minor damage was reported.						
Ringwood-Fairview area, Major County	28	8:05 p.	Short	Narrow	0	0	0	0	Tornado
			Tornado was on ground for a short time 9 miles S of Ringwood. Movement from NW toward SE. No damage reported.						
Near Fairview, Major County	28	8:30 p.							Funnel cloud
			Six miles NE of Fairview.						
Caddo and Washita Counties	28	9:00 p.			0	0	0	4	Hail
			Hail up to 1 1/2 inches in diameter fell along the Caddo-Washita County border 16 miles west of Blinger.						
Blackwell area, Kay County	30	4:00 p.- 4:15 p.			0	0	4	4	Hail
			Largest hailstones were 1 and 1 1/2 inches in diameter.						
Enid area, Garfield County	30	4:30 p.- 6:00 p.			0	0	4	4	Hail
			Largest hailstones were 1 1/2 inches in diameter.						
Hennessey area, Kingfisher County	30	6:30 p.			0	0	4	4	Hail
			Largest hailstones were 1 1/2 inches in diameter.						
Near Dutton, Caddo County	30	8:10 p.- 8:21 p.			0	0	0	0	Wind
			Near the rural community of Dutton in eastern Caddo County winds in excess of 60 knots were measured at 8:10 p.m., 8:27 p.m. and at 8:31 p.m. No damage was reported in this area.						
Near Verden, Grady County	30	8:25 p.			0	0	0	0	Wind
			Winds of 50 knots were measured NW of Verden. No damage reported.						
Near Pocasset, Grady County	30	8:28 p.			0	0	0	0	Wind
			Winds of 52 knots were measured SW of Pocasset. No damage reported.						
Near Verden, Grady County	30	9:00p.- 9:10p.			0	0	0	0	Wind
			Peak wind speeds of 56 and 59 knots were measured at 9:00 p.m. and 9:10 p.m. respectively at a location a short distance SW of Verden. No damage was reported.						
Anadarko, Caddo County	30	9:25 p.			0	0	4	4	Hail, wind
			Hail was up to golfball size. Wind damage occurred in and to the south of Anadarko. One barn and a garage were destroyed. One trailer, 1 warehouse and a pickup were damaged. Tree damage extensive. One home damaged by lightning.						

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (continued)									
Near Cyril, Caddo County	30	9:28 p.			0	0	0	0	Wind
			A peak wind speed of 62 knots was measured a short distance NW of Cyril. No damage was reported at Cyril; however wind damage was reported both in and to the south of Anadarko.						
Southern Comanche County	30	10:10 p.- 11:00 p.			0	0	0	5	Hail
			Hail up to 1 inch in diameter occurred on a scattered basis in an area of southern Comanche County. The path extended from Lawton to 15 miles S of Lawton and width from 15 miles W of Lawton to 15 miles E of Lawton.						
Lawton, Comanche County	30	10:06 p.			0	2	5	0	Wind, lightning
			High winds destroyed 4 trailers. Five businesses sustained major damage. Many houses and trailers sustained minor damage. High winds and lightning caused extensive damage. Damage included 4 trailers destroyed and 5 businesses with major damage. Many homes and trailers were damaged. Fifteen fires occurred during the storm most of which were caused by lightning.						
Near Snyder, Kiowa County	30	11:20 p.							Funnel cloud
			Short distance E of Snyder						
Near Grandfield, Tillman County	30	11:35 p.							Funnel cloud
Gould, Harmon County	31	12:20 a.			0	0	4	4	Hail
			Hail was mostly pea to marble size but largest stones were 1 1/2 inches in diameter in a swath that extended from 10 miles N of Gould to 2 miles S of Gould.						
Stillwater, Payne County	31	3:30 a.			0	0	6		Lightning
			Lightning struck an electronics laboratory and the resulting fire extensively damaged electronic equipment.						
OREGON									
Coastal Oregon	5/26	Unk							Heavy sea kept 9 fishing boats from getting into harbor for 35 hrs.
Medford	5/2	Unk							Hail did minor damage to crops.
Baker	5/4	Unk							Wind did minor damage.
PACIFIC									
American Samoa	10-13	10/afternoon- 13/morning			1	1	6	?	Heavy rain
			Broad and long quasi-stationary NW-ENE line of thunderstorms and cumulus clouds over American Samoa caused heavy rain on island. Women killed in building damaged by landslide. Man injured in fall into drainage ditch. Estimated property damage \$1,250,000. Total rainfall 10th-13th at Pago Pago Weather Service Office 11.19 inches and at Marist Brothers Schobl, Atuu 16.29 inches.						
PENNSYLVANIA									
EASTERN									
Adams, Franklin, Elair, Northampton, and Montgomery Counties	5	3PM to 8PM EDT			0	0	4	0	Electrical, Wind
			Thunderstorms over Eastern Pennsylvania were accompanied by considerable lightning and some wind gusts. The damage was mainly in the counties listed with lightning causing fires in four houses and one theatre and causing damage to another house. A wind gust near Pottstown, Montgomery County took the tops out of two trees and tipped off portion of a barn roof.						
Elair, York Counties	6	11 AM to 3PM EDT			0	0	5	0	Electrical, Hail
			Thunderstorms brought lightning which caused power outages and started a fire which destroyed a barn. The thunderstorms also brought hail up to 1 inch in diameter to the Manchester area in York County.						
Eastern Pennsylvania	8	8 PM to Midnight EDT			0	0	5	3	Wind
			Strong winds following a cold front across the state resulted in considerable damage. Innumerable trees, tree limbs and utility lines were downed. Falling trees damaged some buildings and automobiles. Some buildings under construction were badly damaged, portion of a large cross was blown off a church, a steel roof was blown off a dairy, a canvas covered chain link fence was bent over, and a small plane was flipped over and destroyed even though it was chained down. Over 20,000 customers suffered power outages. Wind gusts were estimated to have reached 50 MPH or more over most of Eastern Pennsylvania with the highest reported gusts being: York 79 MPH, Lancaster 70 MPH, Chambersburg 61 MPH and Milton 50 MPH.						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
PENNSYLVANIA (continued)									
EASTERN									
Eastern Pennsylvania	9	2 AM to 5 PM EDT			0	0	3	0	Snow
									Snow over Eastern Pennsylvania was just a few flurries south but more steady at times north. At lower elevations little snow accumulated, but up to 3 inches accumulated over the higher elevations. The snow on trees combined with gusty winds to down some trees, tree limbs and utility lines.
Eastern Pennsylvania	18	4 PM to 11 PM EDT			1	1	4	0	Electrical, Wind
									Thunderstorms over Eastern Pennsylvania were accompanied by considerable lightning. The lightning caused at least 3 house fires and damaged another house. Lightning striking utility poles caused power outages and lightning striking a flag pole damaged the surrounding lawn. A woman and a 9 year old girl were struck by lightning in North Centre Township, Columbia County. The woman survived her injuries, but the girl died in the hospital 9 days later. Wind damage was somewhat spotty, with trees down in a few locations and one building damaged by a falling tree.
PENNSYLVANIA WESTERN									
Washington	6	1:20 p.m.			0	0	4	0	Lightning
									Apartment building badly damaged by fire following a lightning strike. Also general interruption in radio transmissions after station antenna was struck.
Southwestern Counties	8	Evening			0	0	?	?	Wind
									Widespread minor damage (downed lines and trees, power outages, damaged roofs and other minor structural damage) from wind measuring up to 40-50 mph through Allegheny, Washington, Greene, Fayette, Westmoreland, Indiana and Cambria Counties. Also some damage in Mercer County.
Eastern Washington, Westmoreland, Cambria and Indiana Counties	18	2 - 3 pm			0	0	5	0	Lightning
									Several homes in Peters Township damaged by lightning strikes. Two-story farmhouse in Turkeytown, S. Huntington Twp., struck by lightning and completely destroyed by subsequent fire; also many power outages in area from knocked-down power lines. Barn at Armagh destroyed by fire after being struck by lightning; contents lost included 2 cows, a wagon, a weller and a large quantity of hay, fertilizer and seed. In Johnstown, lightning short-circuited the electric motor on the Inclined Plane, putting it out of service for an indefinite period.
Beaver County	18	5 p.m.			0	0	?	?	Hail
									3/4 inch hail reported near Raccoon State Park and 1/2 inch hail north of Aliquippa.
Butler	23				1	0	0	0	Lightning
									Golfer carrying an umbrella struck by lightning and killed on Butler County Golf Course.
Johnstown	23				0	1	0	0	Lightning
									Man working at the Clearwood Development struck by lightning and admitted to hospital in fair condition with burns of the left leg.
PUERTO RICO									
									NONE REPORTED
RHODE ISLAND									
Northwest	9-10	All Day			0	0	5	4	Heavy snow
									6 to 8 inches of heavy wet snow fell - the most so late in the season in the history of records. Extensive tree and shrub damage was done about 100,000 homes were without power due to broken electrical lines.
SOUTH CAROLINA									
Spartanburg and Cherokee Counties	5	P.M.					3	5	Hail, severe thunderstorms
									Severe thunderstorms accompanied by heavy wind, rains, and hail damaged approximately 1500 acres of peaches with lesser damage to other crops.
Laurens County (1 1/2 miles east of Laurens to Laurens Airport)	8	7:40 P.M.	1.5	50	0	5	5	2	Tornado
									The first touchdown was at a trailer park 1.4 miles east of the city limits of Laurens, S.C. and north of Old Clinton highway. The tornado touched down briefly, or was near the ground, at three other areas either side of Old Clinton highway damaging or destroying 10 mobile homes and doing damage to buildings and trees. The last touchdown, or near touchdown, was at the Laurens, S.C. Airport where planes were destroyed.
Murrells Inlet (Horry County)	24	1:00 A.M.			0	0	4	0	Severe thunderstorms
									Strong winds and heavy rains in severe thunderstorms damaged 2 mobile homes, car, marina, and sports shop.
SOUTH DAKOTA									
Sully & Hughes Counties	4	Evening							High Winds
									Winds with gusts estimated up to 70-80 mph per hour were reported in the Hayes and Pierre area about 6 PM. Marble sized hail occurred during the thunderstorms.
Brown, Edmunds, Walworth Counties	4	Evening							Large Hail, Funnel Clouds
									Between 3:15 and 3:45, golfball and larger sized hail was reported four miles north and four east of Java. Some funnel clouds were observed during the thunderstorms in this area. Funnel clouds were also reported in the vicinity of Roscoe and Moberly. Four funnel clouds were reported in the Aberdeen area. One at 8:45 PM - 15NW; the second at 9:07 by the highway patrol - 14W and 3W; the third, 9:35 PM by the County Sheriff - 9N; the fourth at 10:15 by the highway patrol north of Britton, SD.
Todd County	9	Morning							Heavy Rain, Large Hail
									Heavy rain from thunderstorms with amounts varying from one and one-third to two and one-half inches, mixed with thumb sized hail, fell in Mission, SD.
Bon Homme County	16	4 AM					4		High Winds
									Gusty winds from a thunderstorm near Springfield were estimated to be over 60 miles per hour. Most damage was to farm buildings and trees.
Brown County	16	9PM, CDT							Hail
									Hail, three inches deep, was reported in city of Doland. No damage reported.
Bennett County	16	6 PM					4		Tornado
									A tornado struck several buildings on a farm about five miles southeast of Martin. Some sheds and wind breaks were lost. No stock nor crop damages occurred.
Perkins County	17	Morning					4		Strong Winds
									A steel grain bin was blown off its base east of Meadow, SD. Strong winds damaged buildings on two ranches. No damage to crops.
Brown County	17	Early AM					4		High Winds
									High winds destroyed three buildings on farm near Barnard early Tuesday morning.
Dewey County	18	8:25 PM					3		Tornado
									Tornado occurred just south of Isabel. It was on ground for about five minutes in open country. A roof blown off a barn was the only damage reported.
Corson County	18	9:23 PM							Tornado
									A tornado existed momentarily about six miles east of McLaughlin. Length and width of path unknown. No damage reported.
Lyman County	18	7 PM					3		High Winds
									Winds estimated at approximately 80 mph occurred near Presho, SD. Destruction was mainly trees and old farm structures.
Haakon County	18	5PM MDT					4		High Winds, Large Hail
									Golf ball sized hail, winds gusting to 87 mph and one and one-half inches of rain were a part of the thunderstorm activity which occurred at Philip, SD. Several aircraft were damaged as a result of the hail and high winds. Sixteen windows at the airport were broken and some of the hail drifted one to one and one-half feet deep in the vicinity of the airport.
Bennett County	18	Evening					4		High Winds
									There was considerable thunderstorm activity in this county. In the Harrington area, baseball sized hail was reported and winds were believed to be gusting 50 to 60 mph. Strong winds in the Martin area did minor property damage.
Stanley County	18	7 PM					5		High Winds
									Strong winds damaged a farm building and a hangar on a farm, ten miles north and eleven and one half miles east of Midland. Winds were estimated to be near 70 mph.
Hughes County	19	Evening					4		Strong Winds
									Winds reaching to 66 mph destroyed many trees in Pierre, SD. Four transformers burned. Quite a few houses throughout the city experienced damage as a result of high winds and rain.
Washabaugh County	20	10:30 AM MDT							Tornado
									A tornado and several funnel clouds were observed about four and one-half miles north and two miles west of Hisle, SD. Some hail and heavy rain were in the area. No damage occurred as the tornado touched down in open fields.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM			
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS				
SOUTH DAKOTA (continued)										TEXAS (continued)												
Deuel County	21	7 PM					4		Tornadoes	Southern Wichita County	5	6:15 p-7:00 p	10	Narrow	0	0	4	0	2 Tornadoes			
									Five tornadoes were seen by observers south of Clear Lake, SD. One was five miles south of town moving northeastward. Another was four miles south and one mile west of Clear Lake. Both destroyed trees and some small buildings. Three other tornadoes were sighted about two miles south of town. These touched only momentarily and no material damage occurred.											Two weak tornadoes moved across the southern portion of Wichita County. The first tornado touched down about 10 miles west-southwest of Iowa Park destroying a garage. The twister moved east-northeast damaging a mobile home and uprooting or damaging a number of trees. The tornado dissipated after causing considerable roof, TV-antenna, and tree damage in Iowa Park.		
Codington County	21	8:30 PM							Tornadoes													
									Two tornadoes and several funnel clouds were observed in the southern portion of the county. One was seen at Grover. The other tornado with several funnel clouds were observed five miles south of Watertown.											The second tornado caused its first damage in Kadane Corners where a patio roof was blown off and a metal storage shed was destroyed. The tornado moved east-northeast for six miles before lifting. Other damage included uprooted trees 1/2 mile north of Kanay, barn damage 2 miles northeast of Kanay, and mobile home and tree damage 3 miles northeast of Kanay. Residents of the mobile home reported that heavy rain and small hail preceded the tornado. Within seconds after the rain stopped they heard a loud roaring sound and the damage occurred. Both tornadoes followed a gently leftward curving path toward the east-northeast and finally the north-east.		
Grant County	21	8:30 PM					3		Tornado													
									A tornado was on the ground in the vicinity of Revillo, SD. A few barns, some out buildings and trees were damaged.											Wichita County		
Brule County	27	3:30 PM MDT							Tornado		5	Evening								Windstorm		
									A tornado was observed by the public three and one-half miles north and one-half mile east of Academy, SD. There was no damage as the tornado touched down in pasture land.											Scattered reports of straight-line wind damage were received from Wichita County from the same thunderstorms that produced the tornadoes. Several trees and electrical poles were downed in Electra. Other wind damage, mostly minor, was reported in Wichita Falls and Iowa Park.		
Brookings County	30	1 PM CDT							Tornado	3.5 SW View, Taylor County	5	7:07 p			0	0	4	0	Lightning			
									A tornado was seen in open fields, five miles east of White, SD. No damage occurred.											Lightning set fire to an oil storage tank. Storm spotters reported the incident and quick work by the Abilene Fire Department kept the fire from causing more extensive damage. Sixteen barrels of oil were lost.		
Roberts County	30	Evening					5		Hail, Heavy Rain	3 NW Marshall, Harrison County	8	1:05 p			0	0	0	0	Funnel Cloud			
									Golf ball sized hail, high winds and rains of up to two and one-half inches in some locations moved from Sisseton, SD eastward into Minnesota. Many farmers in this area reported that row crops will have to be replanted.											The funnel cloud did not touch down.		
TENNESSEE										Longview area, Gregg County	8	1:15 p			0	0	?	?	Windstorm and Funnel Cloud			
Kingsport, Sullivan County	5	3:00 p.					5		Large hail 2 1/2 in. diameter											Thunderstorm winds uprooted trees across scattered portions of Longview. A funnel aloft was sighted 8 miles east of Longview.		
									Hailstones, some the size of marbles, others as big as baseballs, pelted parts of the Kingsport area during the afternoon. The large hailstones broke windows, dented cars, and damaged roofs of several homes.	7 NE Longview, Gregg County	8	4:40 p	Short Narrow	0	0	0	0	0	Tornado			
Morrisson, Warren County	7	4:30 a.					4		Lightning											The tornado touched down near the Gregg-Marion County line. The short-lived tornado produced no known damage.		
									A lightning bolt during a thunderstorm was blamed on the complete destruction of a nursery stock bagging business.	Anna area, Collin County	8	4:15 p-5:00 p			0	0	?	?	Hailstorm			
Etowah, McMinn County	22	1:00 p.					1		Lightning											At 4:15 golf ball size hail was reported near Anna. A second thunderstorm cell produced 1/2 to 3/4 inch hail in Anna at 5:00 p.m. Damage was negligible.		
TEXAS										Tolar, Hood County	9	2:00 p	Short Narrow	0	0	3	0	0	Tornado			
NORTHERN Wichita Falls, Wichita County	2	Morning					0	0	4	0	0	0	0	0	0	0	0	0	0	A small tornado dropped out of a heavy thunderstorm near Tolar. A barn was damaged and telephone lines were downed in the area.		
									Thunderstorm winds caused considerable damage at the Lockwood Corporation industrial plant in Wichita Falls. An overhead door covering a craneway was damaged and the plant's northwest wall was ripped from the foundation.	Glen Rose, Somerville County	9	2:15 p			0	0	?	?	Hail and Rainstorm			
Palo Pinto County	2	10:30 a-11:00 a					0	0	0	3										A heavy thunderstorm produced heavy rain and golf ball hail at Glen Rose. Damage was light and mostly due to street flooding.		
									3/4 inch to 1-1/2 inch diameter hail was reported by civil defense 3 miles west of Graford and 8 miles north of Mineral Wells. The only reported damage was to gardens in northern Palo Pinto County.	Jones-Taylor County Line	9	4:10 p			0	0	0	0	0	Hailstorm		
Gatesville, Coryell County	2	3:40 p	Short Narrow	0	0	0	0	0	0											Golf ball size hail fell on the Jones and Taylor County line on Highway 351. Damage was apparently negligible, as the hail fell in an unpopulated area.		
									The tornado touched down briefly near Gatesville. The storm lifted without doing any damage.	Northern Wilbarger County	9	6:00 p			0	0	?	?	Flash Flood			
8 N Iowa Park, Wichita County	4	3:25 p					0	0	0	0										A slow moving thunderstorm dropped over 2 inches of rain in the Vernon area. Street and highway flooding was reported in Vernon, on Highway 287 west of Vernon, and on Highway 283 north of the town.		
									Golf ball hail fell 8 miles west of Iowa Park. No damage was reported.	Killeen, Bell County	9	6:10 p			0	0	?	?	Hailstorm and Flash Flood			
8 W Crowell, Foard County	5	1:30 p					0	0	0	0										A heavy thunderstorm produced marble to isolated golf ball size hail at Killeen. Heavy rain produced street flooding. Little or no damage resulted.		
									The funnel cloud was moving north-northeast.	8 NE Electra, Wichita County	14	10:30 p			0	0	0	0	0	0	Funnel Cloud	
Quanah, Hardeman County	5	1:50 p					0	0	3	0										Electra Police reported the funnel aloft. The parent storm moved northeast at 25 mph.		
									A funnel cloud developed from the same storm that produced the funnel aloft in Foard County. The Quanah funnel briefly became a tornado and caused roof damage to a mobile home in south Quanah. Another tornado was reported in open country southwest of Quanah. It lifted before reaching the town.	5 SW Lawn, Taylor County	15	2:15 p			0	0	0	0	0	0	0	Hailstorm
										7 E Jacksboro, Jack County	16	7:23 p			0	0	0	0	0	0	Funnel Cloud	
																				The funnel aloft was sighted near Highway 380, moving northeast.		

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

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					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (continued)									
NORTHERN									
7 NE Trent, Taylor County	18	3:45 p			0	0	0	0	Funnel Cloud
									The Merkel Sheriff's Office reported the funnel which moved northeast at 25 mph.
20 N Dyess AFB, Jones County	18	4:34 p			0	0	0	0	Funnel Cloud
									The same thunderstorm that produced the Trent funnel dropped a funnel aloft that was observed by a pilot 20 miles north of Dyess AFB.
Fargo, Wilbarger County	20	6:00 p	7	?	0	0	3	0	Tornado
									Charles Jones of Fargo reported the tornado on the ground about 1/2 mile south of the Baptist Church. The tornado narrowly missed Fargo when it moved north-northeast to the Red River. Power lines were downed in the path of the tornado. The same thunderstorm cell spawned at least one more tornado in the vicinity of Tipton, Oklahoma.
Archer City area, Archer County	20	7:35 p-10:00 p			0	0	3	0	2 Funnel Clouds and Windstorm
									The Archer County Sheriff reported funnels aloft 5 miles north of Archer City and over Lake Kickapoo. The funnels moved northeast at 30 mph. A second thunderstorm with strong straight winds took the roof off of a Texas Highway Department building about 10 p.m.
Noodle, Jones County	20	8:42 p			0	0	0	0	Hailstorm
									One inch diameter hail fell from a heavy thunderstorm at Noodle. Damage was apparently negligible.
Wichita Falls area, Wichita County	20	9:00 p-9:35 p	Short	Narrow	0	0	0	0	Tornado and Funnel Clouds
									A series of strong thunderstorms produced numerous funnel clouds in the Wichita Falls area. One funnel cloud touched down and was briefly a tornado between Iowa Park and Holliday about 9 p.m. Two funnels aloft were confirmed over Memorial Stadium in Wichita Falls at 9:12 p.m. Shepard Air Force Base personnel spotted another funnel cloud one mile east of the base at 9:35 p.m.
20 W Abilene, Taylor County	20	9:10 p	?	?	0	0	0	0	Tornado
									A SKYWARN spotter reported the tornado which occurred over open land 20 miles west of Abilene. There was apparently no damage. The parent thunderstorm moved northeast at 20 mph.
Stamford, Jones County	20	9:20 p			0	0	3	3	Windstorm and Flash Flooding
									Thunderstorm wind gusts of 63 mph were recorded at radio station KDW in Stamford. Minor property and crop damage was reported across much of Jones County from wind and heavy rain.
Punkin Center, Quannah	20	Evening			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted near Punkin Center moving northeast.
Belton area, Bell County	22	6:00 p			0	0	?	?	Hail, Wind, and Funnel Cloud
									At 6:00 p.m. a funnel cloud was observed by the Sheriff's Department near Nolanville. The same parent thunderstorm produced lemon-size hail and high winds southwest of Belton. Damage was negligible.
Streetman, Freestone County	22	7:30 p			0	0	0	0	Hailstorm
									Golf ball hail produced no known damage.
Johnson County	22	9:50 p-11:00 p	20	*10	0	0	5	4	Hail, Wind, Rain and Electrical Storm
									An intense thunderstorm moved from west to east across Johnson County causing considerable damage. Damage was heaviest along a line from west of Joshua through Keene to the Buel community. 60 mph winds uprooted trees and unroofed barns and sheds on the south side of Joshua. An elderly couple in north Cleburne narrowly escaped death when lightning struck and burned their home. Up to one inch diameter hail and high winds caused considerable garden and crop damage in Joshua, Keene, Grandview, Buel, and north Cleburne. At Keene, wind gusts to 75 mph destroyed a hanger at the airport. Up to 2.75 inches of rain fell within one hour in the Keene area.
Maypearl, Ellis County	22	11:00 p			0	0	?	3	Hailstorm
									The Johnson County storm moved east into Ellis County and produced one inch diameter hail at Maypearl before weakening. Damage was limited to garden crops.
Nichita County	26	9:50 p-10:20 p	20	?	0	0	4	?	Windstorm
									Strong thunderstorm gusts of about 60 mph were first reported by a storm spotter 20 miles west-southwest of Wichita Falls. The storm tracked east-northeast and entered southern Wichita Falls shortly after 10 p.m. CST. A roof was torn off of a mobile home and an empty water tank was blown 400 yards from its original site. Flying debris broke some home windows in southwest Wichita Falls.
TEXAS (continued)									
NORTHERN									
Hamlin area, Jones County	29	5:00 p			0	0	3	6	Hailstorm
									A severe thunderstorm with considerable window damage in Hamlin. The hail ranged up to 1.5 inches in diameter 7 miles north of Hamlin. Crop damage was severe in the Hamlin area. Roughly 750 acres of wheat, cotton, and maize received approximately \$500,000 damage.
12 SW Merkel, Taylor County	29	8:00 p	4	*4	0	0	3	3	Windstorm and Hail
									Thunderstorm winds and 3/4 inch hail resulted in scattered crop and outbuilding damage in the Mulberry Canyon area. A telephone pole and several trees were blown over.
Arlington area, Tarrant County	31	1:25 p-1:43 p			0	0	0	0	Funnel Cloud
									A funnel cloud was sighted at 1:25 p.m. by observers at the Dallas-Fort Worth Airport. The funnel aloft was west of the airport, moving toward the southeast. A second funnel aloft was spotted northeast of Arlington at 1:43 p.m.
Center area, Shelby County	31	7:00 p	10	?	0	0	4	4	Hail and Windstorm
									A severe thunderstorm produced marble size hail and estimated 70 mph winds in Center. The storm lasted for about 15 minutes while producing considerable tree and power line damage. Larger hail was reported northeast of Center as the storm moved east-southeast toward Shelbyville. Trees were blown down northeast through southeast of Center, up to 8 miles away from the town.
TEXAS SOUTHERN									
Kimbro Travis County to 5 NW Bastrop Bastrop County	2	4:50p-5:23p	?	?	0	0	3	4	Tornado, hail
									A tornado was sighted at Kimbro moving south southeast over open country. Damage to the cotton crop resulted from a hailstorm which fell over an area 12 miles long and 5 miles wide with hail varying from 3/4 inch to 1-3/4 inch in diameter. Three cows were killed near Elgin as a result of the tornado but all other damage was due to the hail.
Sheldon Harris County	2	6:30p	short	narrow	0	0	0	0	Tornado, hail
									A small tornado touched down briefly near Sheldon. Hailstones 1 inch to 1-1/2 inch in diameter fell for a short time. Law enforcement officials investigated the area immediately and found no damages.
Pasadena Harris County	2	7:00p			0	0	0	0	High wind
									Wind gusting to 60 mph (52 knots) was reported over the north ship channel. No damages indicated.
Houston area Harris County	2	Evening			0	0	?	0	Hail
									Hail fell over various locations in and around Houston. 1 inch to 1-3/4 inch diameter hail fell briefly at Alief and in NE Houston. Smaller sized hail fell at Humble, Hobby Airport, Friendswood, Spring Branch, Pasadena, and Alvin.
McAllen Hidalgo County	9	2:28a			0	0	0	0	Funnel cloud
									Reported by public through the Department of Public Safety.
15 NW Hondo Medina County	9	6:00p			0	0	4	4	Hailstorm
									1 inch to 1-3/4 inch diameter hail fell for a short time damaging a parked aircraft, roofs of houses and barns, and destroying fruit trees and a grain crop.
Hare Williamson County	9	6:45p-7:05p			0	0	3	5	Hailstorm
									The cotton crop in the vicinity of the small community of Hare was severely damaged by 3/4 inch to 1 inch diameter hail that covered an area 10 miles in diameter. The storm moved from north to south with wind gusts to 45 mph.
Lake Hills Bandera County	11	1:00a	?	?	0	0	4	?	Tornado
									The storm moved from Medina Lake northward to Lake Hills, destroying numerous barns and twisting trees south of Lake Hills. Two mobile homes in Lake Hills were overturned and destroyed before the tornado dissipated.
NW of Mathis Live Oak County	11	6:25a			0	0	0	0	Funnel cloud
									Sighted near F M 534.
Banquette Rueses County	11	7:00a			0	0	0	0	Funnel cloud
									Moved to the southeast
Near Aransas Pass San Patricio County	11	7:15a			0	0	0	0	Funnel cloud
									Observed moving northeast.
SSE Rockport Aransas County	11	7:55a	?	?	0	0	0	0	Waterspout
									Moved across Aransas Bay.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (continued)									
TEXAS SOUTHERN NE Rockport Aransas Co.	14	745a			0	0	0	0	Funnel cloud
		Sighted over Aransas Bay							
Corpus Christi Nueces County	20	7:00a	?	?	0	0	0	0	Waterspout
		Sighted in Corpus Christi Bay to the east of the City Coliseum.							
Eagle Pass Maverick County	22	4:00p			0	0	4	0	Windstorm and hail
		5 houses on the southside of Eagle Pass were damaged by high winds. Corrugated steel roofs were ripped off and windows were knocked out by flying debris. One mobile home was destroyed, another rolled over, and 4 others sustained damage to the roofs. The mobile home that rolled over was not tied down. Large hail, 1 inch to 1-3/4 inch diameter, fell briefly but damage was due to high winds.							
9 S Laredo Webb County	22	5:30p- 5:42p	?	?	0	0	0	0	Tornado
		Sighted by Department of Public Safety Officer moving north eastward and sighted again 6 S of Laredo a few minutes later.							
Laredo Webb County	22	5:30p			0	0	5	?	High wind
		81 mph (70 knots) winds with gusts to 104 mph (90 knots) from a severe thunderstorm damaged 2 aircraft and destroyed a hangar roof at the Laredo airport. Other damage included felled trees and fences, downed telephone lines, and destruction of a corrugated steel roof at a carwash near the airport.							
25 NE Laredo Webb County	22	6:50p- 6:55p	?	?	0	0	0	0	Tornado
		Observed over open country by Webb County Sheriff's Deputy at 6:50p and sighted 5 minutes later by Department of Public Safety patrolman about 27 miles NE of Laredo.							
E of Calallen Nueces County	24	10:00a			0	0	0	0	Funnel cloud
		Moved northward.							
TEXAS WESTERN									
about 20 miles north of Miami, Roberts County	1	6:07P-							Funnel Cloud
		Funnel cloud reported by Canadian Sheriff's Office.							
Canadian, Hemphill County	1	8:15P-			0	0	0	0	Hail
		Hail to 1 3/4" in diameter reported. No damage reported.							
just southeast of Shamrock, Wheeler County	1	9:30P-							Funnel Cloud
		Funnel cloud reported by the Department of Public Safety.							
10 miles east of Colorado City, Mitchell County	2	10:50P							Funnel Clouds
		Two funnel clouds reported by the Department of Public Safety.							
just Northeast of Lorenzo, Crosby County	3	2:30P-	1	20	0	0	4	0	Tornado
		Tornado dipping up and down destroyed a 20 by 50 foot barn, an overhead water storage tank and two hog sheds.							
just north of Amarillo, Potter County	3	3:03P	?	?	0	0	0	0	Wind
		Gust to 70 mph in thunderstorm just north of Amarillo, no damage reported.							
Marfa, Presidio County	3	4:45P	?	?	0	0	0	0	Wind
		Wind to approximately 70 mph observed. No damage reported.							
Maple, Bailey County	3	7:30P-	1/2	30	0	0	5	0	Tornado
		Tornado hit the Three Way School demolishing an Agriculture Building; several converted barracks buildings, a school vehicle and the football scoreboard and field house. Tornado also damaged two homes and one mobile home.							
Lubbock, Lubbock County	3	10:00P	?	?	0	0	0	0	Hail
		Public reported hail up to 1" in diameter in the southern half of the City of Lubbock. No damage reported.							
3 miles north of Wellington, Collingsworth County	3	11:05P-	?	?	0	0	0	0	Hail
		Hail some as large as 2 3/4" in diameter fell 3 miles north of Wellington - Reported by the Sheriff - no damage reported.							
Pecos, Reeves County	5	11:15A	?	?	0	0	0	0	Hail
		Hail to 1 3/4" in diameter reported by the Department of Public Safety. No damage reported.							
just west of Slaton, Lubbock County	5	12:42P-							Funnel Cloud
		Funnel cloud reported, no damage.							
TEXAS (continued)									
WESTERN just south of Crosbyton, Crosby	5	1:30P	?	?	0	0	0	0	Hail
		Hail up to 1 3/4" in diameter reported. No damage reported.							
Midland - Odessa Area, Ector and Midland Counties	5	2 PM	?	?	0	0	0	0	Hail and Wind
		Hail to 3/4" in diameter and winds to 83 MPH observed. No appreciable damage reported.							
10 miles east of Crosbyton, Crosby County	5	2:10P-	?	?	0	0	0	0	Hail
		Hail to 1 3/4" in diameter reported by public. No damage reported.							
Grassland, Lynn County	5	2:50P-	?	?	0	0	0	0	Hail
		Hail with a few stones to 2 3/4" in diameter reported by public. No damage reported.							
5 miles south of Ackerly, Martin County	5	2:55P-	1/10	10	0	0	3	0	Tornado
		Tornado touched down briefly and lifted back up. The tornado struck an abandoned garage and "scattered around in a field, shredded some mesquite trees and did some damage to the high wires."							
4 miles west of Raby, Fisher County	5	4:40P-							Funnel Cloud
		Funnel Cloud reported by Sheriff's Department.							
1 mile west of Dickens, Dickens County	5	4:45P-	?	?	0	0	0	0	Hail
		Hail to 1 3/4" in diameter reported by County Sheriff. No damage reported.							
1 mile west of Dickens, Dickens County	5	4:45P-	1/10	10	0	0	2	0	Tornado
		Tornado touched down briefly damaging a hog shed and killed one hog.							
12 miles west of Aspenmont, Stonewall County	5	5:00P-	1/10	10	0	0	2	0	Tornado
		Tornado touched down briefly. Only damage reported was to a fence.							
Bovina, Farmer County	7	9:05P-	?	?	0	0	0	0	Hail
		Hail to 1 3/4" in diameter reported by weather service observer. No damage reported.							
Lubbock, Lubbock County	8	6:00P-	?	?	0	0	0	0	Hail
		Numerous reports of hail in Southern portions of the city. Most of the hail has been reported as pea size in isolated instances of hail up to 3/4" in diameter. No damage reported.							
just north of Ralls, Crosby, County	8	6:35P-	?	?	0	0	0	0	Hail
		Department of Public Safety reported hail to 1 3/4" in diameter. No damage reported.							
Odessa, Ector County	8	7:20P	?	?	0	0	0	0	Hail
		Hail to 1 1/4" in diameter reported in Odessa. No damage reported.							
5 miles east of Brownfield, Terry County	8	8:40P-	?	?	0	0	0	0	Hail
		Hail to 1 3/4" in diameter was reported by the Sheriff's office. No damage reported.							
2 miles northeast of Brownfield, Terry County	9	7:35P-							Funnel Cloud
		Funnel cloud reported by Brownfield Police Department.							
Buford, Mitchell County	9	7:40P	?	?	0	0	0	0	Hail
		Hail to 1 3/4" in diameter report by Mitchell County Sheriff's Department. No damage reported.							
4 miles west of Alpine, Brewster County	10	3:00P	?	?	0	0	0	0	Hail
		Hail to 1 3/4" in diameter reported. No damage reported.							
Rio Grande Village and Panther Junction, Brewster County	10	3:00P-	?	?	0	0	0	0	Wind
		Big Bend National Park Rangers reported wind exceeded 60 mph from a thunderstorm. No damage reported.							
9 miles northwest of Dalhart, Dallas County	14	12:01A	1	20	0	0	4	0	Tornado
		Tornado reported by Dalhart Police - one house destroyed. No injuries. Estimated damage \$40,000 to \$50,000.							
just east of White Deer, Carson County	14	2:23P							Funnel Cloud
		Funnel cloud reported by Department of Public Safety.							
White Deer, Carson County	14	2:25P- 2:27	1	20	0	0	0	0	Tornado
		Tornado on south side of town, on the ground for about 2 minutes. Reported by the Department of Public Safety. No damage.							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

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					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (continued) WESTERN									
20 miles southwest of Pampa to 4 miles northwest of Pampa, Carson and Gray Counties	14	2:36P-2:50P							Funnel Cloud
									Funnel cloud reported by Department of Public Safety.
Rankin, Upton County	15	10:50P	?	?	0	0	0	0	Hail
									Hail to 1 3/4" in diameter reported by Upton County Sheriff's Office. No damage reported.
12 miles west and 20 miles north of Hereford, Deaf Smith County	16	11:33A	?	?	0	0	0	0	Hail
									Hail to 1 3/4" in diameter reported. No damage.
1 mile west of Wildorado, Oldham County	16	12:01P	?	?	0	0	0	0	Hail
									Hail to 1 3/4" in diameter reported by the Department of Public Safety. No damage reported.
8 miles west of Hereford, Deaf Smith County	16	12:12P							Funnel Cloud
									Funnel Cloud reported.
Near Bushland, Potter County	16	1:14P	?	?	0	0	3	5	Hail
									Hail to 2" in diameter reported. Crops in the Bushland area have suffered severe damage and damage also reported to cars.
Pampa, Gray County	16	1:37P	?	?	0	0	0	0	Hail
									Hail to 1 3/4" reported by radio station KFDN. No damage reported.
just southwest of Amarillo, Randall County	16	2:05P	?	?	0	0	0	0	Hail
									Hail with a few stones to 2 1/2" in diameter reported. No damage reported.
Amarillo Airport, Potter County	16	2:15	?	?	0	0	0	0	Hail
									Hail with a few stones to 2 3/4" in diameter reported at Weather Office. No damage reported.
Northeast of Wayside, Roberts County	16	2:15							Funnel Cloud
									Funnel cloud reported.
3 miles south of Quail, Collingsworth County to about 17 miles	16	3:10P-3:50P	20	500	0	0	6	4	Tornado
									A tornado touched down about 3 miles south of Quail, Texas and traveled northeast about 20 miles. Most damage
Northeast of Quail Collingsworth County	16								occurred at Quail although some minor fence and crop damage was sustained between Quail and Shamrock. The Quail School, cateteria, homemaking cottage, three houses, two school buses and eight cars or pickups were destroyed. Damage estimate is almost 3/4 million dollars.
5 miles southwest of Shamrock in Collingsworth County to about 10 miles northeast of Shamrock in Wheeler County	16	4:05P-4:40P	15	500	0	0	5	4	Tornado
									Tornado touched down again about 5 miles southwest of Shamrock and traveled to about 10 miles northeast of Shamrock to near the Oklahoma border. At about 4:15 PM the tornado hit the Ashland Chemical Co. Carbon Plant, continued northeast and destroyed a gas station, one house, three mobile homes, and a couple of barns. No estimate of damage to the plant was available, however, other damage in the Shamrock area is estimated at 80 to 100 thousand dollars.
9 miles north of McLean, Gray County.	16	5:09P	?	?	0	0	0	0	Hail
									Hail to 1 3/4" in diameter reported by McLean Fire Dept. No damage reported.
just west of McLean, Gray County.	16	5:09P							Funnel Cloud
									Department of Public Safety reported funnel cloud.
8 miles south of Panhandle, Carson County	17	3:25P	?	?	0	0	0	0	Hail
									Hail to 1 3/4" in diameter reported. No damage reported.
Lubbock, Lubbock County	17	5:35P	?	?	0	0	0	0	Hail
									Hail to 1" in diameter reported in southeast portion of the City. No damage reports.
Plainview, Hale County	17	5:35P							Funnel Cloud
									Funnel Cloud reported by the Hale County Sheriff over the City of Plainview.
TEXAS (continued) WESTERN									
8 to 10 miles south of Fritch, Carson County	17	5:44P							2 Funnel Clouds
									Two funnel clouds reported by the Department of Public Safety.
Borger, Hutchinson County	17	6:05P-6:35P							Funnel Clouds
									Numerous reports of funnel clouds in Borger area.
Plainview, Hale County	17	6:10P	1/2	60	0	0	5	0	Tornado
									Tornado struck northwest section of the City of Plainview. One-half mile section of the City hit by tornado winds with damage estimated between one hundred fifty thousand dollars and two hundred thousand dollars. One mobile home damaged, 25 homes damaged - mostly roof damage - KWOP Radio Station antenna snapped off, Lakeside Grade School received extensive roof damage and numerous fences and utility lines down.
1 mile northeast of Lubbock Airport, Lubbock County	17	6:16P							Funnel Cloud
									Funnel cloud observed by weather service observer moving north-northeast about 25 mph.
8 miles south of Washburn, Armstrong County	17	6:30P	2/10	20	0	0	0	0	Tornado
									Tornado touched down briefly. No damage reported.
3 miles east of Abernathy, Hale County	17	6:36P							2 Funnel Clouds
									Public reports two funnel clouds.
Tulia, Swisher County	17	6:55P							Funnel Clouds
									Several funnel cloud reports.
just west of Borger, Hutchinson County	17	7:00P	1	20	0	0	5	0	Tornado
									Two houses, two mobile homes, a drive-in theater, fences, trees, and storage sheds damaged--Estimated damage \$150,000.
7 miles west to just of Petersburg, Hale County	17	7:09P	7	?	0	0	0	4	Hail
									Hail to 2 3/4" in diameter damaged young cotton crops.
Randall and Armstrong Counties	17	7:15P							Funnel Clouds
									Numerous funnel cloud reports from just southeast of Amarillo to South of Washburn to south of Claude.
4 miles east of Claude, Armstrong County	17	7:27P	7	20	0	0	0	0	Tornado
									Tornado hit in open country. No damage reported.
Washburn, Armstrong County	17	7:27P	?	?	0	0	3	3	Hail
									Hail to 1 3/4" in diameter reported by Civil Defense spotter. Damage reported to area wheat crops and residents reported a number of broken windows.
Petersburg, Hale County	17	7:35P							Funnel Cloud
									Public reported funnel cloud.
Lark, Carson County	17	7:50P	1	20	0	0	5	0	Tornado
									Tornado touched down briefly destroying a grain elevator. Estimated damage \$150,000.
Conway, Carson County	17	8:10P-8:18	?	?	0	0	3	4	Hail
									Hail to 1 3/4" in diameter broke numerous window and damage area wheat crops.
South of Panhandle, Carson County	17	8:18P	?	?	0	0	0	5	Hail
									Hail to 2 3/4" in diameter damaged area wheat crops.
8 miles southeast of Plainview, Hale County	17	8:20P	1	20	0	0	0	0	Tornado
									Tornado touched down briefly. No damage reported.
10 miles northeast of Plainview, Hale County	17	8:37P							Funnel Cloud
									Funnel cloud reported by public.
20 miles southeast of Claude, Armstrong County	17	8:40P	1	20	0	0	0	0	Tornado
									Tornado touched down in open country. No damage reported.
5 miles south southeast of Goodnight, Armstrong County	17	10:00P	?	?	0	0	0	0	Hail
									Hail to 2 3/4" in diameter fall in open range land. No damage reported.
Kingsmill, Gray County	17	10:10P	1/2	20	0	0	4	0	Tornado
									Tornado touched down briefly damaging a grain elevator. Estimated damage \$30,000.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
TEXAS (continued)										VIRGINIA										
WESTERN										Norfolk	4	Evening				0	0	0	0	Rain
Amarillo, Potter County	25	6:05P	?	?	0	0	0	0	Hail											
									Hail to 3/4" in diameter reported at Airport.											Heavy downpour resulted in local urban flooding, disrupting traffic on some roads for a brief period of time.
Hale-Swisher County line southwest of Tulia	25	7:07P-							Funnel Cloud	Henry and Pittsylvania Counties	5	4:00 p-4:30 p				0	0	3	0	Wind, Rain, Hail
									Funnel cloud reported by public.											Storm hit first in the Fieldale, Whitwell, Brosville and Martinsville areas where 45 mph winds broke trees and power lines. Some roof damage reported as shingles and roofing material were blown off or fallen trees caused punctures. Some 20,000 power company customers affected in the Martinsville area and there were several hundred power failure calls in the vicinity of Danville. Some hail reported but apparently did not cause damage.
8 miles southeast of Littlefield, Lamb County	25	7:50P	1	20	0	0	0	0	Tornado	Prince William County	6	4:00 p-9:00 p				0	0	3	0	Lightning, Wind, Rain
									Tornado touched down briefly. No known damage.											Local fire departments were kept busy because of lightning strikes or downed power lines. Lightning destroyed the chimney of one home in Dale City - while little, if any, damage done to two other homes and a school. Some basement flooding also occurred in a few locations. Two main circuits knocked out affecting some 6,000 power company customers. Total damage estimated at about \$2,500 of which \$1,000 attributed to lightning and the rest to wind.
5 miles north of Lubbock Regional Airport, Lubbock County	25	9:43P-							Funnel	Blackstone area, Nottaway County	6	Late Afternoon				0	0	4	0	Lightning
									Funnel cloud sighted by weather service personnel.											Two-story cinderblock home badly damaged by blast ignited by a lightning strike. All possessions of family destroyed in the fire.
6 miles west of New Deal, Lubbock County	26	12:25A-	?	?	0	0	0	4	Hail	Richmond City and Nottaway, Goochland & Amelia Counties	7	Abt 3:00p				0	0	4	3	Wind, Hail
									Hail some as large as 1 3/4" in diameter did minor crop damage.											Wind blew over large oak, five feet in diameter at base, and portions broke through roof of home and into attic. One large limb crushed 1956 car parked in driveway of Richmond home. Cinderblock porch valued at \$15,000 collapsed in Goochland County, and a mobile home worth \$10,000 was a complete loss. In Blackstone area hail up to golfball-size fell for as long as 45 minutes, causing an estimated \$5,000 damage to siding and roofs of a house and \$1,000 each to two mobile homes. Hail also caused an estimated \$2,000 damage to local barley, wheat and tobacco crops.
Near Hale Center, Hale County	26	12:30A	?	?	0	0	0	4	Hail	Northern Portion	8-9					0	0	4	0	Wind
									Hail with some as large as 1 3/4" in diameter did minor crop damage.											Winds suddenly increased to gusts of 50-70 mph as a strong cold front moved into the area from the north, beginning around 9PM on the 8th and continuing into early morning of the 9th. In Prince William County local fire companies were kept busy responding to calls related to downed trees or power lines. Fallen trees also caused some damage to homes and automobiles, as well as clocking roofs. At the Manassas Airport a single-engine airplane was torn loose from its moorings and demolished with loss estimated about \$5,000.
Western Lubbock County including the City of Lubbock	26	4:00P-5:30P	?	?	0	0	4	5	Hail	Falls Church	9	11:00 a				0	0	3	0	Wind
									Hail up to 1 3/4" in diameter damaged young cotton, gardens, trees, broke windows and damaged automobiles and roofs.											Winds, following frontal passage the previous night, continued quite gusty. A tree fell on and caused heavy damage to a 19th century barn that just had "several thousands of dollars" spent in restoration.
just south Midland Odessa Airport, Midland County	26	5:55P-	?	?	0	0	0	0	Hail	Central Portion	29	Afternoon				0	0	3	0	Wind, Hail
									Hail up to 2" in diameter reported. No known damage.											Gusty winds during a thunderstorm caused roof damage to homes in the Richmond area, along with power outages. Marble-sized hail fell between Charlottesville and Richmond, but apparently no damage done.
just south Midland Odessa Airport, Midland County	26	5:59P-	1/2	20	0	0	0	0	Tornado	Albemarle County	29	Night				0	0	0	0	Lightning
									Tornado on the ground briefly. No damage.											Small herd of cattle standing under a tree were struck and killed.
White River Lake, Crosby County	26	6:45P-	?	?	0	0	0	0	Hail	City of Radford and Montgomery County	29	Night				0	0	0	2	Wind, Lightning
									Hail up to 1 3/4" in diameter reported. No known damage.											Violent thunderstorm caused power failures in the area. In Blacksburg some minor flooding reported along with quarter-sized hailstones. Some gardens damaged.
Northeast Fisher County	29	4:45P-	?	?	0	0	0	5	Hail	VIRGIN ISLANDS										
									Hail up to 1 1/2" in diameter did an estimated \$500,000 damage to wheat, cotton and maize.	NONE REPORTED										
just north of Orient, Tom Green County	29	7:35P-	2	30	0	0	0	0	Tornado	WASHINGTON										
									Tornado on the ground reported by Department of Public Safety. No visible damage.	NO STORM DATA REPORT RECEIVED FOR THIS STATE										
12 miles northeast of San Angelo, Tom Green County	29	8:35	?	?	0	0	3	5	Hail	WEST VIRGINIA										
									Hail to 1 3/4" in diameter reported resulting in windshield and heavy crop damage.	Month										
8 northwest of San Angelo, Tom Green County	29	8:58P-							Funnel Cloud	Berkeley, Clay, Fayette, Grant, Greenbrier, Hampshire, Hardy, Jackson, Jefferson, Kanawha, Mason, Mercer, Mineral, Monroe, Morgan, Pendleton, Pocahontas, Putnam, Raleigh, Roane, Summers, Wyoming counties						0	0	0	7	Drought
									Funnel cloud reported by sheriff's department.											Record drought across these counties caused an estimated hay loss of \$33 million and an estimated loss in pasture forage of \$9 million.
Near Kerrick, Dallam County	31	1:18A-							Funnel Cloud											Many monthly record low rainfall totals were broken. Total precipitation at Kanawha Airport, Charleston, was .84, breaking the old record of .95. Beckley reported 1.03 inches, lower than the record of 1.31. Elkins measured 1.83 inches, approaching the record of 1.35 inches set in 1939.
									Funnel cloud reported by Sheriff's office at Stratford.	UTAH										
									Several funnel clouds reported by Sheriff's Office at Stratford.	NONE REPORTED										
VERMONT										SOUTHERN VERMONT										
	8-9	9PM-6PM			0	0	1	1	HEAVY SNOW											
									Heavy wet snow clung to trees, which already had leaves on them. The weight of the wet snow caused many of the branches to fall across power and telephone lines, disrupting service to more than 1500 homes in Southern Vermont. Schools were forced to close as highway crews battled the heavy snow that was accompanied by 35 to 40 MPH winds.											

STORM DATA AND UNUSUAL WEATHER PHENOMENA

MAY 1977

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					KILLED	INJURED	PROPERTY	CROPS	
WEST VIRGINIA (continued)									
North and Eastern Panhandle	8th	Evening			0	0	5	0	Wind Storm
			Wind in excess of 50 mph swept across northern areas of the state Sunday evening. Jefferson County in the Eastern Panhandle received gusts to 60 mph. Numerous trees and telephone lines were downed. Considerable minor property damage was reported. A single-engine Cessna airplane was turned over at Monongalia County Airport. Nearby, parts of a drive-in theater screen were blown approximately 30 feet.						
Statewide	10th	Night			0	0	0	6	Frost
			Widespread frost hit the state on the 10th with scattered frost occurring on the 9th and 11th. Damage to apple and peach crops around the Martinsburg region was estimated at \$3 million. Damage to flowering trees resulted in \$25,000 to \$50,000 losses to the honey industry. Small gardens in the southern part of the state suffered about \$1 million in damages. Potato and tomato plants were ruined in Beckley. Growers in Putnam County lost 850 potted tomato plants.						
Lincoln and Putnam counties	31st	Aftn.			0	0	?	?	Hailstorm
			Hail as large as golf balls fell seven miles northwest of Winfield in Putnam County. At the same time golf-ball-size hail was reported in West Hamlin in Lincoln County.						
WISCONSIN									
South part of state	9	Morning			0	0	0	?	Frost
			Frost and freezing temperatures did considerable damage to fruit trees that had already blossomed. Some apple orchard growers reported up to 90% of their crops damaged. One grower said the frost was the worst since 1945.						
Centerville, Trempeleau County	15	4:25 p			0	0	?	?	Hail
			One and one-quarter inch hail hit Centerville in southwest Trempeleau County.						
Lancaster, Grant County	16	1:20 p			0	0	6	?	Hail
			One and one-quarter inch hail did considerable damage to the town of Lancaster in Grant county. The hail dented and broke windows on many cars. Many homes in the area received damage to roofs, aluminum siding and windows. Nearby crops were spared as they were not far enough along to be affected.						
Winnebago County Near Wittman Airfield	16	3:40 p			0	0	5	0	Lightning
			A fire started by lightning caused \$100,000 damage to the headquarters building of the Experimental Aircraft Association near Wittman Airfield.						
Marathon County	20	7:00 p			0	0	4	0	Thunderstorm High winds
			Winds up to 55 mph were reported in the county and caused scattered power outages. Trees were knocked down in some areas. Near Little Chicago, winds damaged boats and knocked down power lines.						
Hixton, Jackson County	21	9:02 p			0	0	?	?	Hail
			Three-quarter inch hail south of Hixton in southwest Jackson county did little damage.						
WISCONSIN (continued)									
Madison area, Dane County	22	Afternoon			1	?	?	0	Thunderstorm, High Winds
			Strong winds caused by thunderstorms forced rescues of dozens of boaters in the Madison area lakes. One fisherman drowned when his boat capsized on Lake Kegonsa. A car carrying two canoes strapped on its top crashed into a concrete bridge railing at the edge of Marxville. One person was killed and four persons were injured in the accident.						
Dodge County, Near Juneau	31	2:15 p- 2:29 p	2	100	0	0	4	0	Tornado
			A tornado hit a farm on South Grove Road about 1 1/2 miles southeast of Juneau at 2:25 pm. A roof was taken off a barn and a machine shed was destroyed. An eyewitness 2 miles to the east of the farm saw debris 1000 feet up in the air under a dark funnel cloud. The tornado was last seen on the west side of Lake Winnebago near Westford where it uprooted trees and damaged mail boxes.						
Columbia County, Northeast of Portage	31	2:30 p	1/10	50	0	0	3	0	Tornado
			A tornado briefly touched down in a marshy area on a farm along county highway CW about 8 miles northeast of Portage in the northern part of Columbia county. A corncrib was destroyed on the farm.						
Dundee Township, Monroe County	31	3:00 p			0	0	?	?	Hail
			One and one-quarter inch hail caused damage to bean and cornfields in Dundee Township.						
WYOMING									
Buffalo 8 S	9	5:00 p.	6	27	0	0	0	2	Tornado
			Tornado touched down on Kelly Creek, moved south, then west, then north to Bull Creek, then west towards the mountains and dissipated. All travel was over open range.						
Douglas 5 N	9	Night	?	?	0	0	0	3	Tornado
			Tornado touched down during the night and destroyed a cattle shed.						
Cheyenne	10	4:25 p.			0	0	0	0	Hail
			A small amount of 3/4 inch hail fell with no reported damage						

STORM DATA AND UNUSUAL WEATHER PHENOMENA

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	ESTIMATED ¹ DAMAGE				CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
THE FOLLOWING ARE LATE REPORTS, CORRECTIONS, AND DELETIONS:									
LATE REPORTS					LATE REPORTS				
IOWA					WEST VIRGINIA (continued)				
APRIL 1977					APRIL 1977				
Larrabee, O'Brien County	18	4:00 p							Funnel near Larrabee, moving NE.
Keokuk, Lee County	20	2:42 p			0	0	4	0	Severe thunderstorm (wind, lightning) roof on one and living room. High winds damaged roof of Wright Field House and blew out several window panes in city schools.
SOUTH CAROLINA					WEST VIRGINIA				
Statewide					Mingo, Logan, McDowell, Raleigh, Wyoming, Greenbrier, Summers, Lincoln, Mercer counties				
	4	P.M.	-	-	0	0	4	3	Strong Winds
									Strong winds 40-50 mph over the state caused widespread damage but mostly minor damage to trees, utilities, farm buildings, and roofs.
Near Clemson, SC (Pickens County)	19	P.M.	-	-	0	0	4	3	Hail, Lightning
									Thunderstorm accompanied by hail damaged some homes. Lightning destroyed one home.
	3-4	Both days			2	0	8	0	Major flooding.
									Major flooding occurred across southern West Virginia on April 3 and 4.
									A series of disturbances from the southern plains moved across the Appalachians.
									Heavy thunderstorms formed ahead of the disturbances then moved northeast along a stationary front across southern West Virginia, Eastern Kentucky and Tennessee.
									Flooding occurred along the Ohio, Big Sandy, Guyandotte, New, Greenbrier, Coal, and Tug Fork rivers in West Virginia. Record flooding occurred along the Tug Fork. Some crests include:
									Record flooding also occurred along the Guyandotte River at Pineville. Along the Tug Fork River, the towns of Matewan, Thacher and Lobata were virtually washed away.
									An enormous amount of property was damaged or destroyed. Some of the damage is listed below. Data was extracted from Disaster Report Appalachian Flood April 2-5, 1977
									Mingo County
									6,900 families displaced
									2,000 homes with major damage
									3,000 homes with minor damage
									350 homes destroyed
									50 trailers destroyed
									400 businesses with major damage
									900 automobiles destroyed
									Central & North
									5th
									Thunderstorms accompanied by high winds swept across the state. Gusts to 60 mph were reported at Kanawha Airport, Charleston, and at the Weather Service Office at Elkins. Scattered wind damage to trees and mobile homes was reported. One tractor-trailer blew over on I-79 injuring the driver.
CORRECTIONS									
ALABAMA									
Etowah County									
	4	2:30p	5	150	0	4	5	0	Tornado
									Small tornado touched down near the Southside community destroying 3 houses, 6 mobile homes, and 17 farm buildings. Nine homes had major damage. Southside is located 7 miles south of Gadsden.
NORTH CAROLINA									
Onslow County									
	20	5:00 p	1/2	20	0	0	4	0	Tornado
									A small tornado touched down near the shore in Jacksonville. There was damage to new cars and boats when it hit a car dealer and marine. Total damage about \$20,000.
									This was reported as Pender County, but should have been Onslow County.
VIRGINIA									
									The county damage summary listed on Page 13 of the April 1977 Storm Data should follow the text of the Flash Flood and Flooding storm of April 3-5.

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

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

SUBSCRIPTION PRICE: \$3.60 a year; \$4.80 additional for foreign mailing; 30¢ single copy. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, NC 28801. Attn: Publications.

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