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# STORM DATA

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OCTOBER

1973

Volume 15

No. 10

Asheville, N.C.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1973

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 Argo, St. Clair County	2	3:55p			0	0	0	0	Hail and Wind
					State Troopers reported golf ball size hail with some trees down due to high winds along Interstate Route 59 near Argo.				
ALASKA Ketchikan Area	20	Early Morn	Unk	Unk	0	0	6	0	Heavy Rains
					Heavy Rain caused the Carlanna Creek earthen dam to break. Blockage of highways with mud and slag in the Ketchikan Area. Water carried several cars and trailers into the ocean. Drinking water was cut off.				
ARIZONA			NONE REPORTED						
ARKANSAS Dardanelle, Yell County	12	9:30 p.	3/10	50	0	0	3		Tornado
					Tornado struck 6 miles southwest of Dardanelle damaging two houses, and blowing down 50 trees in a southwest-northeast path.				
CALIFORNIA NORTHERN & CENTRAL			NONE REPORTED						
CALIFORNIA SOUTHERN	27-31				0	0	5	0	Strong Gusty Winds
					Brush fires fanned by strong gusty Santa Ana winds raged out of control in three Southern California counties: Los Angeles, San Diego, and Ventura. The October 27 fire 50 miles east of San Diego was whipped along by gusts estimated up to 70 m.p.h. and caused damages estimated at \$250,000. The second major fire broke out on October 30 in the Topanga Canyon area of Los Angeles County. Santa Ana winds gusting to 50 m.p.h. fanned the fire out of control until 2,500 acres had been blackened.				
COLORADO Morgan County	11				0	0	4	4	Snow
					Heavy, wet snow up to about 6 inches in depth downed a number of utility lines, forced the closing of several schools and damaged some unharvested sugar beets. Heaviest damage was in the Fort Morgan-Brush area.				
Northeast portion	24				0	1	4	0	Wind
					Strong winds along the foothills during the morning caused damage in Boulder, Jefferson, Larimer, and Weld Counties. Heaviest damage was in the Boulder area where 20 to 25 mobile homes were hit, some power and telephone lines were blown down and a store was damaged. Strongest gusts were reported by the National Bureau of Standards as 76 mph about 10:00 a.m. at Boulder.				
Eastern portion	29				0	0	4	0	Wind
					Strong winds caused scattered damage to homes, stores, and utility lines just east of the mountains from Denver to Pueblo.				
CONNECTICUT State	29	Early PM Late PM			3	3	?	?	Heavy Rain Wind
					Heavy rains and near gale force winds hit the state causing washouts, storm drain clogs and flooding in low-lying areas. Three state residents died in automobile accidents during the storm. Strong winds toppled a building in Derby. Falling trees and limbs caused some utility outages.				
DELAWARE Coastal areas	25-26								Tropical Storm "Gilda"
					High tides and strong winds caused some beach erosion.				
FLORIDA FORT MYERS, LEE CO.	7	525 PM-533 PM (EDT)	2	30	0	0	5	0	TORNADO
					A RATHER LARGE TORNADO (FOR SOUTH FLORIDA) DEVELOPED 2 MILES WEST OF PAGE FIELD AIRPORT AND MOVED SOUTHWARD INTO A LARGE RESIDENTIAL AREA IN WESTERN FORT MYERS. AT LEAST 25 HOMES WERE RATHER SEVERELY DAMAGED. THERE WAS ALSO CONSIDERABLE DAMAGE TO TREES, ORNAMENTALS AND POWER LINES. DAMAGE WAS ESTIMATED \$350,000.				
FLORIDA (continued) WEST PALM BEACH, PALM BEACH CO.	9	1:55 PM (EDT)					4		LIGHTNING
					A BOLT OF LIGHTNING STRUCK 4 BOYS IN A SCHOOL PLAYGROUND. 2 OF THE BOYS WERE IN THE HOSPITAL FOR SEVERAL DAYS BUT ALL RECOVERED.				
FORT WALTON BEACH, OKALOOSA CO.	31	11:13AM (CST)	174	20		3	5	0	TORNADO
					A SMALL TORNADO STRUCK THE SHALMAR MOBILE HOME PARK DESTROYING 6 MOBILE HOMES AND DAMAGING 18 OTHERS. DAMAGE ESTIMATE \$90,000.				
LARGO, PINELLAS CO. TAMPA, HILLSBORO CO.	31	10:30PM (EST)	25	100	0	17	6	0	TORNADO
					A WELL DEVELOPED TORNADO DEVELOPED OVER THE GULF OF MEXICO AND MOVED INLAND IN PINELLAS COUNTY PASSING THROUGH LARGO, CROSSED TAMPA BAY, THEN STRUCK THE SULFUR SPRINGS SECTION OF NORTH TAMPA. THERE WAS MAJOR DAMAGE TO A NUMBER OF BUSINESSES IN LARGO AND TO A SCHOOL AND SHOPPING CENTER IN TAMPA. 25 HOMES WERE DESTROYED, 40 HAD MAJOR DAMAGE, AND 100 HAD MINOR DAMAGE. MOST OF THESE WERE MOBILE HOMES. DAMAGE ESTIMATED 1.5 TO 2 MILLION IN PINELLAS COUNTY AND \$50,000 IN TAMPA. ONLY ONE OF THE INJURED WAS HOSPITALIZED. IT WAS REMARKABLE THAT NO LIVES WERE LOST.				
GEORGIA			NONE REPORTED						
HAWAII 15 NW Honolulu Airport, Oahu	30	2:58p-3:26p							Funnel Clouds
					2 northwestward moving cone-shaped funnel clouds extended down about 400 feet from cumulonimbus cloud with base of 2300 feet and top of 29000 feet.				
IDAHO			NONE REPORTED						
ILLINOIS Banner	1	4:23PM	?	?	0	0	?	?	TORNADO
					A tornado was reported near Banner (15 miles SW of Peoria) and moving toward the NW. Reports indicate that the tornado touched down but no damage reports were given.				
Springfield	3	MORNING	?	?	0	0	?	?	HEAVY RAIN, LIGHTNING, FLOODING, HAIL
					Between 1 and 7 AM heavy rain caused flooding in the Springfield area. 3.37 inches of rain fell in a six hour period at the Springfield air port. Power failures occurred from lightning and flooding. Two highways were blocked by high water. 3/4 inch hail was reported in Springfield.				
West central	3	AFT. & EVE.			0	0	5	0	HEAVY RAIN, WIND FLOODING, LIGHTNING
					In the Maconb area, heavy rain caused flash flooding knocking out power facilities and sweeping cars from highways. Trees and power lines were blowing down. Carthage (24 miles south of Burlington, Iowa) also reported flooding. 8 inches of rain in a two hour period in Rustville resulted in flash flooding. Highways were under water as sheets of water rolled down hills causing damage to homes and cars. Lightning was blamed for several small fires and an exploded corn crib. On a farm near Hamilton, seven cows were washed into a creek and found near the Mississippi River all alive except for one. In Hamilton a few bridges, railroads and highways were washed out.				
INDIANA Fort Wayne Allen County	4	Afternoon			0	2	5		Wind
IOWA Plymouth, Sioux O'Brien and Osceola Counties	9	9:00-9:30 p			0	0	5	5	Windstorm
					Trees and lines down, property damage to 4 or 5 farmsteads (hoghouse and barn at one farm, large hog confinement barn at another, plus other out-buildings at several more). Damage at Sibley, Sioux Center, Le Mars, Sanborn, Hoppers, Merrill, Craig, Hintor and near Ocheyedan. Heavy hail near Le Mars; 10% of damage.				
3SE Hinton, Plymouth County	9	9:00 p	5	200	0	0	4	4	Tornado
SESE Sheldon, O'Brien County	9	9:00 p	1	100	0	0	4	4	Tornado
KANSAS McPherson County	3	3-4 p	Short	Narrow	0	0	5	3	Tornado
					Tornado one mile southeast Marquette caused damage to farm buildings and crops.				

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<b>KANSAS (continued)</b>									
Cherokee County	4	3-4 p	Short	Narrow	0	0	4	0	Tornado
			Touched down east edge of Scarmon damaging one house and small out buildings.						
Bourbon County	4	5:00 p	short	Narrow	0	0	5	0	Tornado
			Destroyed two mobil homes and several cabins and homes, near Bourbon-Allen County Lake.						
Central, Northeast, Eastcentral	10-11				0	0	6	6	Heavy Rains, Flash Flood
			Heavy rains developing over central portions afternoon of the 10th continued and spread into northeast and eastcentral counties the following 18 hours. General amounts of 2 to 4 inches and local 5 to 10 inches occurred. Considerable flash flooding developed on many small streams and tributaries with much residential flooding forcing evacuation of several hundred families. Extensive damage to personal property, crops, and road and bridges resulted.						
Ellsworth County	10	12:30 p			0	0	4	0	Lightning
			Lightning ignited a fire which burned out the interior of a restaurant and camping complex at the Kanopolis Reservoir near Kanopolis.						
Harper County	11	1:00 a	Short	Narrow	0	0	4	0	Tornado
			Caused widespread damage to trees, roofs, trailer homes, and porches at Harper.						
Sedgwick County	11	4:30 p	Short	Narrow	0	15	5	0	Tornado
			Tornado touched briefly in southeast section of Wichita destroying 25 mobile homes.						
Cherokee County	16	7:45 a			0	0	4	0	Wind
			Destroyed several garages and storage sheds in Scarmon.						
Harper County	18	1-2 a	Short	Narrow	0	0	5	0	Tornado
			Two tornadoes touched down in south Harper causing total destruction to buildings and trailer homes.						
Sedgwick County	25	2 a	Short	Narrow	0	0	4	0	Tornado
			Touched down two miles west of Doddard. Damaged roof on farm home and buildings.						
Franklin County	26	11:00 p			0	0	4	0	Lightning
			Lightning ignited fire which destroyed a home and contents 5 miles north of Ottawa.						
East Central	26-27	night			0	0	?	4	Hail
			Local hail produced considerable crop damage primarily in Anderson County.						
Harvey County	27	7-8 p			0	0	5	4	Lightning and Hail
			Wind and Hail damage extensive at Newton Municipal Airport, including parked aircraft. Winds in excess of 80 MPH at Newton. Power outages due to lightning strikes.						
Wilson County		4:45 p			0	0	4	2	Hail
			Large hail produced considerable damage to trees, shrubs, and roofs in LaFontaine. Numerous windows broken with water damage resulting from accompanying rain.						
Labette County	29	6-7 p			0	0	0	4	Hail
			Local large hail produced spotty crop damage.						
McPherson County	29	8-10 p			0	0	4	2	Hail
			Killed or crippled 3,000 to 4,000 wild ducks.						
<b>KENTUCKY</b>									
NO STORM DATA REPORT RECEIVED FOR THIS STATE									
<b>LOUISIANA</b>									
Vermillion Parish	31	3:00 AM	2	50	0	0	4	0	Tornado
			Tornado touched down several times as it moved eastward across the southern portion of Abbeville. Several homes and businesses received moderate damage. One witness reported that it looked as if the walls of her house were being "sucked out" as the twister passed nearby.						
FUNNEL CLOUDS REPORTED DURING OCTOBER									
Calcasieu Parish	1	11:20 AM							5SE Lake Charles Airport
Calcasieu Parish	2	10:11 AM							6 SSE Lake Charles Airport
Cameron Parish	4	8:45 AM							Near the eastern edge of Sabine Lake
Jefferson Parish	8	5:25 PM							5 N Mousant Airport
<b>MAINE</b>									
NONE REPORTED									
<b>MARYLAND</b>									
Upper Marlboro	2								Heavy rain
			Rain caused some local flash flooding during a 5-hour period.						
Ocean City area	25-26								Tropical Storm "Gilda"
			40 knot winds and high tides resulted in some beach erosion and flooding during about a 24-hour period beginning the evening of the 25th.						
Hagerstown	28	Night							Thunderstorms
			Storm caused power interruptions in the vicinity						
Annapolis and Cambridge areas	28-29								High tides
			Sustained southeasterly winds caused tidal surge up Chesapeake Bay. Up to 2-1/2 feet flood waters in streets along Annapolis waterfront.						
Hancock area, and central portion of state	28-29	Night to early a.m.							Heavy rain
			Rain resulted in some minor flooding and a rash of traffic accidents.						
Cumberland	29	3 p					3		Electrical, hail
			Chimney and roof of dwelling damaged when struck by lightning bolt.						
<b>MASSACHUSETTS</b>									
Statewide	29-30				0	0	3	0	Wind, Rain
			First strong general "northeaster" of Fall disrupted traffic with 1/2 - 3 inches rain, utilities with scattered wind - felled tree limbs. Some beach erosion from tides 1 - 2 feet above normal. Weather Service Forecast Office at Logan Airport recorded peak gust: 49 miles an hour from the east at 6:39 a.m., 30th.						
<b>MICHIGAN</b>									
Southeast Michigan	9-11								Heavy fog
			Many automobile accidents and one aircraft crash. Nine fatalities, many injuries, and much property damage. Weather was only a contributing factor.						
Northeast Michigan	13	5-8 p.					4		Thunderstorms
			Many trees and power lines down. Boats torn from moorings. Affected area northeast of a line from Whitefish Point to Tawas Bay.						
Munuscong Bay, St. Marys River	16	morning					3		Wind and waves
			Duck hunters drowned when boat overturned.						
Allen Park, Wayne County	24	morning							Heavy fog
			40-car accident on freeway. 16 persons injured. Weather was only a contributing factor.						
Harrisville, Alcona County	27-28						4		Wind and waves
			Docks and boats destroyed or damaged						
Shore of Green Bay, Menominee County	28						3		Lake shore flood
			Two boats and shore installations damaged. Five families evacuated.						
<b>MINNESOTA</b>									
Austin Area, Mower County	4	4:00 p	10	*2	0	0	3	4	Small Hail, Heavy Rain, Lightning
			Hail up to 1/4 inch diameter destroyed bean and corn crops. Rain-fall up to 2 inches reported.						
Eitzen Area, Houston County	4	6:45 p	20	3,000	0	0	3	4	Hail, Wind, Lightning
			Hail up to 1 1/4 inch diameter covered ground up to 2 inches in depth. Bean and corn crops damaged, windows broken.						
Trimont, Martin County	9	11:00 a			0	1	0	0	Lightning
			Lightning bolt hit tree near delivery man knocking him unconscious.						
Blooming Prairie 1NW, Dodge County	9	5:30 p	18	30	0	0	4	0	Tornado
			First touchdown on farm 1 NW of Blooming Prairie with minor damage. Building and tree damage to next two farms. Trailer home overturned at Blooming Prairie gun club. Last touchdown NE of West Concord with damage to farm buildings and machinery.						

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					KILLED	INJURED	PROPERTY	CROPS								KILLED	INJURED	PROPERTY	CROPS		
<b>MINNESOTA (continued)</b>											<b>MONTANA</b>										
Pope, Stearns, Benton, Sherburne, Wright, Pine, Wadena Counties	9	6:45 p			0	5	5	4		Wind, Hail, Lightning	Browning, Glacier County	10/7	Afternoon			0	0	4	0		Wind
Fast moving thunderstorms crossed central Minnesota. Heavy rain, hail and winds in excess of 70 mph damaged farm buildings on several farms. Hardest hit area was St. Cloud and suburbs where many homes and other buildings damaged. On St. Cloud State College Campus wind drove small stones through windows leaving bullet like holes in the glass. Two (2) children injured by flying glass when roof was ripped off their Fernwood home. Three (3) other persons suffered minor injuries.											Missoula, Hamilton, and Superior Mineral, Missoula, and Ravalli Counties										
North central Minnesota	9-10				0	0	4	0		Heavy Rain, Wind		10/31				3	2	4	0		Heavy snow
Rains of up to 7.00 inches in 23 hours from early morning of 9th into the 10th caused basement flooding of homes in numerous small communities. Greatest rainfall reported 00 inches at Remer, Cass County and 6.58 at Hill City, Aitkin County. Mississippi River flooding minor with some overflow Fort Ripley Area, Crow Wing County, crop damage - none.											Heavy snow and falling temperatures caused hazardous driving conditions that resulted in three deaths on icy highways. Snow accumulations in the valleys ranging up to near 12 inches in Hamilton. Several hunters were marooned in the heavy snow in the mountains.										
Rush Lake, Ottertail County	11	6:45 p	3/4	10	0	0	3	0		Tornado	Gage County	2	Afternoon and Evening			0	0	4	0		Heavy Rains and Lightning
Small tornado touched down briefly with minor damage to 3 homes. Power lines downed and trees damaged. Two small woodsheds destroyed.											Ten cattle drowned, and four were killed by lightning near Pickroll.										
FUNNEL CLOUDS REPORTED DURING OCTOBER											Hall County										
County      Date      Time      Location & Remarks											9										
Goodhue      9      6:30 p      Kenyon 4S											9										
Tornado went thru Alda on a southwest to northeast path. Damaged 30 to 35 homes. Campers and mobile homes destroyed. Damage to trees, autos, business places and utilities disrupted.											Colfax County										
<b>MISSISSIPPI</b>											9										
Coldwater Tate County	7	1:30 PM			0	1	1	0		Lightning		9	About 9pm	Short Narrow	0	0	4	2		Tornado	
Lightning struck cold drink box and man was knocked down.											Three and one half miles southwest of Leigh a two story barn along with smaller buildings were destroyed. Cattle killed. Minor crop damage.										
<b>MISSOURI</b>											Kearney, Stanton, Merrick and Webster Counties										
Northern Missouri	11-14									Heavy Rains & Severe Thunderstorms		9	Afternoon and Evening			0	0	4	0		High Winds, Heavy Rain and Hail
A pattern of thunderstorms persisted over much of northern Missouri during and preceding these dates. Heavy rains and severe thunderstorms resulted in widespread flash flooding, record rainfall, lightning strikes, wind damage, and hail damage. Rainfall amounts of over three inches were numerous. The continuation of this excessive rainfall culminated in flooding on the Missouri River and flooding on most of the smaller creeks, rivers, and tributaries in northern Missouri. Some of the locations reporting more than three inches of rain in one day were: Kirksville, Adair Co.; Shelby, Shelby Co.; Warrenburg, Johnson Co.; Sedalia, Pettis Co.; Fulton, Callaway Co.; Euna, Knox Co.; Marshall, Saline Co.; Kansas City, Jackson Co.; Skidmore, Nodaway Co.; Center, Ralls Co.; Columbia, Boone Co.; Smithville, Clay Co.; Trenton, Grundy Co.; Cameron, DeWalt Co.; and Mount City, Holt Co.											Vicinity of Stanton, Wilcox, Minden, and Central City damage to several mobile homes and small farm buildings. In Minden, minor damage to a few business establishments.										
Marshall, Saline Co.	3	3 a.	?	?	0	0	0	0		Severe Thunderstorm	Cuming County	9	9-10 pm			0	0	4	0		Lightning
Golfball sized hail was reported with 3.6 inches of rain.											On south edge of Wisner 21 head of cattle killed by lightning which hit a fence line.										
Montgomery City, Montgomery County	3	1:30 p.	1	1760	0	1	6	?		Severe Thunderstorm	Southeast Nebraska	9-11				0	0	4	0		Heavy Rains
Hailstones the size of baseballs were numerous and one cluster was measured at 7 inches in diameter. Damage was extensive.											Large portion of southeast Nebraska received 3 to 4 inches of rain locally more than 6 inches. Resulted in major flooding.										
Sedalia, Pettis Co.	3	5:58 p.	?	?	0	8	4	?		Severe Thunderstorm	<b>NEVADA</b>										
A camper dealer at Lamont lost an entire inventory at a loss of \$15,000.00. Several mobile homes were damaged or destroyed in and around Sedalia. Six inches of rain fell in three and one-half hours causing local flash flooding. Severe lightning was reported with damage. This storm was called a tornado in the newspaper, but is unconfirmed.											NO STORM DATA REPORT RECEIVED FOR THIS STATE										
<b>NEW HAMPSHIRE</b>											NONE REPORTED										
Brunswick, Chariton County	3	8:15 p.	?	?	0	0	?	?		Severe Thunderstorm	<b>NEW JERSEY</b>										
Widespread hail damage reported.											HUDSON COUNTY										
Kirksville (8SW), Adair County	3	11:30 p.	?	?	0	0	0	?		Severe Thunderstorm	23	Late PM				9	40	?	0		Dense Fog
Winds were reported as 70 to 80 miles per hour with two-inch hail.											Patches of thick dense fog were directly responsible for multiple vehicle collisions on the New Jersey Turnpike. While meteorological conditions favored the formation of fog the unusual density and variability of the fog were due at least partially to smoky swamp and garbage dump fires that had been burning for several days prior to the accidents. Nine persons died and at least 40 were injured in the collision near and around Kearney, N. J.										
Kirksville, Adair County	10	6 p.	?	?	0	0	0	0		Severe Thunderstorm	24	Early PM									Tropical Storm
Severe lightning with wire damage from falling limbs.											Tropical Storm Gilda caused minor beach erosion, moderate tidal flooding at high tide on the morning of the 26th, no significant damage reported. Fastest one minute wind speed at the airport was at 20 MPH from the northeast. Peak gust at 49 MPH from the Northeast at 2033 EST. At the State Marina the highest wind recorded was 31 MPH from the northeast at 2100 EST. The lowest sea level pressure was 29.76 inches at 1455 EST on the 26th.										
Branson, Ozark Co.	26	12:30 a.	?	?	0	0	0	0		Hailstorm	25					0	0	?	?		Rain, Wind
Streets were reported as full of 3/4 inch hail.											A mean northeasterly storm with wind gusts as high as 45 MPH lashed New Jersey, causing highway and local street flooding throughout the State. Rain fall from this storm ended a month long record breaking dry spell. New records were set for total rainfall for the date, mostly in North and Central sections. In Hamilton township, at least one death was attributed to the storm. Scores of minor accidents on rain-slick highways created wide spread traffic jams during morning and evening commuter hours. Wind damage mostly minor and scattered, such as tree limbs felled. Some utility outages.										
Monett, Barry Co.	26	9 p.	?	?	0	0	0	0		Severe Electrical Storm	Atlantic City										
Severe electrical storm with accompanying three inch rainfall. Football games cancelled mid way due to severity of the lightning.																					

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<b>NEW MEXICO</b>										
Springer, Colfax County	10	Day & Night			0	0	?			Ice Storm
										Rain changed to freezing rain and snow with accumulations causing trees to collapse over power lines disrupting communications and power.
<b>NEW YORK COASTAL</b>										
Suffolk County South Shore, Nassau County South Shore	26				0	0	?	0		Tropical Storm
										Tropical Storm Gilda brushed the Island's South Shore, causing some flooding and damage to beach facilities and further eroding beaches.
Extreme Southeastern	29				3	6	?	0		Heavy Rain, Wind
										A record rainfall of 3.67 inches battered the city ending a 26-day October drought that was also a record of consecutive days without measurable rainfall. The storm created havoc for motorists snarling traffic and drenching pedestrians. Many delays were caused on Rapid Transit System and Penn Central by flooding. Beaches on the coastal areas suffered further erosion. Winds were reported gusting to 46 MPH, tore small boats from their moorings. Trees and tree limbs knocked down power lines. In Rye, a tree remover suffered a fractured leg when high winds pinned him between a falling tree and the tree in which he was working. A three car accident in East Norwich left three dead and two injured.
<b>NEW YORK CENTRAL</b>										
Central and Northeastern New York	14									Wind
										Gale force winds caused local damage from fallen trees and downed utility lines.
<b>NEW YORK WESTERN</b>										
Niagara and Orleans Counties	5	1-3 a.			0	0	4	unk		Lightning
										Lightning caused power failures near Lockport and a minor fire at Wrights Corner. A fire in Barre destroyed a 50x40 foot home. A fire near Lyonville destroyed two barns, and a stallion and hay valued at \$20,000.
Erie County, Buffalo	5	3-6 a.			0	1	4	0		Lightning
										Lightning strikes in Buffalo caused fires to 4 houses and a garage with 3 cars. Costs about \$41,000.
Counties in extreme Western New York	14	1-5 a.			0	0	unk	unk		Winds
										Scattered damages occurred due to winds throughout area. A few trees fell on cars and houses or across roads blocking traffic. Also a few limbs downed power lines. One apartment under construction in Cheektowaga was toppled. Peak gusts 45-50 mph were reported.
Niagara County Lockport area	29-	11 p. - 30 2 a.			0	0	unk	0		Wind
										Winds knocked down a few limbs which fell on power lines causing blackouts. One limb fell across a highway.
<b>NORTH CAROLINA</b>										
Surry County	8	7:00 a						4		Thunderstorm
										A thunderstorm hit the Mount Airy area and lightning struck a house which burned. Lightning also damaged other buildings.
<b>NORTH DAKOTA</b>										
					NONE REPORTED					
<b>OHIO</b>										
Western and East Central	4	2:00 p 11:00 p			0	0	4			Wind, heavy rain, electrical
										Several thunderstorms blew down more than 70 trees, many power lines and damaged at least 10 homes. Several cars were damaged and local flooding occurred. Hardest hit counties were Putnam, Van Wert, Butler, Clinton, Huron, Harrison and Tuscarawas. More than \$25,000 property damage occurred in Columbus Grove due to the storm. Several fires due to lightning strikes were reported.
<b>OKLAHOMA</b>										
Tulsa, Tulsa County	4	4:00 a.			0	0	4	0		Lightning
										Lightning caused \$14,000 damage to a home in Tulsa.
<b>OKLAHOMA (continued)</b>										
Near Shattuck, Ellis County	9	2:29 a.			0	0	0	0		Funnel aloft
										A funnel aloft was reported by the public 3 miles west of Shattuck. No damage was reported.
Beckham and Roger Mills Counties	10	7:40 a. - 10:00 a.	Long	Narrow	0	0	5	0		Tornado
										A strong thunderstorm developed in Southern Beckham County and moved north-northeastward and northward 25 to 35 m.p.h. spawning one or more tornadoes. Damages were spotty along a 38-mile path occurring about 5 miles west of Sayre in Beckham County, near Berlin, west of Hammon and near Angora in Roger Mills County. Damages occurred to a number of homes and outbuildings. Several power lines were downed in the vicinity of Sayre and Angora. Heaviest damage occurred in the vicinity of Angora where several farms had extensive damage and a number of livestock were killed. A funnel aloft was last reported 5 miles southwest of Vici.
Near Enid, Garfield County	10	6:05 p.	**176	50	0	0	3	0		Tornado
										A small tornado moving northeastward touched down briefly 3 miles west of Enid, removing the roof from a house under construction, destroyed an old barn and did other minor damage to TV antennas and trees.
Depew, Creek County	10	8:00 p.			0	0	4	0		Strong winds
										Strong winds moved a church in Depew off its foundation and destroyed a canopy over the front entrance. Several other houses suffered window damage or porch damage. Some damage to trees and signs and windows in businesses also occurred.
Bryan County	10, 11	6:30 p, 10th & 4:30 a., 11th			0	2	4	0		Wind
										High winds damaged a house in Durant, destroyed 2 barns and a mobile home near and north of Achille, overturned a mobile home and destroyed a barn near Bokchito. Other damages occurred to signs, trees and smaller sheds. Two people were injured and hospitalized as a result of a mobile home overturning.
North-Central Oklahoma	10-11	3:00 p. - 5:00 a.			9	13	7	7		Heavy rain and flooding
										A record rainfall for Oklahoma occurred in north-central Oklahoma with 4 to more than 20 inches falling in 12 to 15 hours in a narrow swath about 10 miles wide in southern Garfield County on the south and 30 miles wide covering Grant, portions of Alfalfa, and western Kay County on the north. The unprecedented Oklahoma rainfall included an official record of 15.68 inches in about 13 hours in Enid and unofficial rainfall amounts of more than 20 inches over the Boggy Creek drainage area in southern sections of Enid. The rapidly rising creek caused 8 deaths in Enid directly attributed to the flooding. About 300 homes and 46 businesses were destroyed or suffered major damage and several hundred more buildings had minor damage. About 8,000,000 property damage, and \$13,000,000 crop and land damage occurred in Garfield County alone. In addition flash flood damage from heavy rains occurred in Kingfisher, Grant and Kay Counties and main stream flooding in those counties occurred also plus Noble County. Extensive damages occurred in these counties. In Dover, Kingfisher County, all business firms and 125 of the residences (out of 150 homes) had water damage with water 4 feet to 6 feet deep in some places as a result of flooding from Turkey Creek beginning about 8 a.m. October 11. Sixty to 100 cars and trucks in Dover were flooded and hundreds of hogs, sheep and cattle near Dover were lost. In Grant County, Jefferson had the severest flood in its history following 10 inches of rain. One Medford resident was drowned when swept off a road in his automobile south of Medford. Property damage was estimated in the millions in Grant County. Flooding occurred in Cherokee in Alfalfa County briefly as Cottonwood Creek flooded early on October 11. In Kay County main stream flooding caused about \$5,500,000 property damage and about \$23,000,000 agricultural losses (land and crop). Damage in Cherokee was \$85,000 property and \$2,000,000 crop damage.
Oklahoma City, Oklahoma County	11	1:15 - 1:45 a.	5	50	0	0	5	0		Tornado
										An apparent tornado, heard by several persons, moved northeastward through southern Oklahoma City. Spotty, mostly light damage was reported over a narrow path from about 89th SW and May northward to about 22nd SE and Byers. Damages were mostly to roofs, fences, sheds, windows, with little structural damage, but an apartment complex at 59th SW and Lee had about 8 roofs totally removed and some structural damage to walls of a few apartments. No injuries were reported.
Northeast Oklahoma	11	4:00 a. - 6:30 a.			0	0	4	0		High winds
										Strong gusty winds measured at 57 m.p.h. in Tulsa accompanied strong thunderstorms moving through northeast Oklahoma. Spotty damage occurred in Tulsa and 7 miles south of Tahlequah.
Near Mangum, Greer County	26	11:40 p.			0	0	0	0		Hail
										One-inch hail was reported near Mangum associated with a southeastward moving thunderstorm. No damages were reported.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1973

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>OREGON</b>									
NONE REPORTED									
<b>PACIFIC</b>									
NO STORM DATA REPORT RECEIVED FOR THIS AREA									
<b>PENNSYLVANIA EASTERN</b>									
Lycoming County	4	Evening			0	0	2	0	Heavy rain
Heavy rain accompanying thunderstorms washed out drainage areas.									
Montgomery, Berks, Luzerne, Bucks, Wyoming, Lackawana, Cumberland, Dauphin, York, Lebanon, Lancaster, Franklin and Susquehanna Counties	29	all day			2	20	5	0	Wind, electrical heavy rain
An intense low pressure system moved northeast across Eastern Pennsylvania accompanied by strong winds which downed trees, tree limbs, electric and telephone lines. Numerous lightning strikes caused fires and other damage to buildings as well as interrupting electric and telephone service. Several thousand customers experienced power interruptions. Heavy rain over the area caused roadway, stream and building flooding. Storm related automobile accidents claimed 2 lives and injured about 20 people.									
<b>PENNSYLVANIA WESTERN</b>									
Clarion County..Shively's Corners in Salem Township, just outside the village of Ninevah	4	7:10p.	1	7	0	1	5	3	Tornado
Several houses and barns severely damaged, one house and barn destroyed. Trees uprooted and power and communication lines down. Top blown off a natural gas well. Some livestock was killed. Corn fields flattened.									
Allegheny County..Pittsburgh, Homestead, West Mifflin and Whitaker.	4	8p.m.			0	0	4		Electrical, heavy rain, hail, wind
Winds gusting up to 40 m.p.h. Power outages, trees and telephone lines down. Some basement flooding sewer flooding. Numerous flash fires.									
Crawford County..Headville	4	10:45p.			0	1	4		Electrical, wind
Trees blown over, telephone and power lines down. Damage to homes, garages and automobiles. One injury from falling tree hitting an automobile.									
<b>PUERTO RICO</b>									
South/Southeast	11	Afternoon			0	1	*5	0	Heavy Rains
A low level tropical wave system merging with an upper trough in the area of northern windward islands brought in several cloud bands of heavy rains centered along the southern and southeastern coasts of Puerto Rico. In Guayama, the Guayama river swept away the homes of four families in Barrio Borinquen and Barrio Puente Jobos. In Patillas, 2 families were given shelter when local flooding forced them out of their homes. In the La Pica area of the Yabucoa-Rumacao Highway landslides buried one automobile but the driver escaped without serious injury. In Ponce four families were evacuated from low lying areas of Barrio Playa of Ponce. Flood gates of the Carrizal Dam were opened because of the rapid rise in the Loiza river. A number of highways were blocked by flooding in low lying sectors with a total of six towns requiring some portion to be evacuated into Civil Defense shelters. Yabucoa reported the highest rainfall total with 8.41 inches most of which fell in a period of from 8 to 10 hours.									
<b>RHODE ISLAND</b>									
Naugatuck	30	9 p.			0	0	3	0	Wind
Brief but very strong wind associated with thunderstorm struck and slightly damaged several houses, downed power lines in Scarborough section of town. Radar reported intense cell over area. Wind made sound like "whoosh".									
<b>SOUTH CAROLINA</b>									
Union, S. C.	2	p. m.			0	0	3	0	Heavy Rain Flash Flooding
Heavy downpour in connection with thunderstorm caused flash flooding in Union, requiring evacuation of several people.									
S. C. Outer Coast	25	-			0	0	4	0	Beach Erosion
Higher than usual tides in connection with Tropical Storm Gilda's northward passage off the S. C. coast caused some beach erosion, at exposed locations									
<b>SOUTH DAKOTA</b>									
Extreme Southeast	9	Eve. & Early Nte			0	0	0	0	
Heavy rain and hail fell during the late evening and into the night ending before midnight. The 3.79 inches which fell in a two hour period at Sioux Falls established new intensity records. Some areas received hail as large as 1 1/2 inches in diameter.									
<b>TENNESSEE</b>									
Memphis, Shelby County	4	6:20 p.			1	2	0	0	Lightning
A 12-year-old boy was killed and his two companions injured when lightning struck a large oak tree under which they were sitting.									
Humboldt, Gibson County	7	2:25 p.			1	0	0	0	Lightning
A 14-year-old boy was killed when struck by lightning while riding his motorcycle.									
<b>TEXAS EASTERN</b>									
Port Arthur	1	10:02 am							Funnel Aloft
The funnel lasted less than 5 minutes over the Gulf Refinery about 10 miles southeast of Jefferson County Airport.									
Galveston	1	12:40 pm	?	?	0	0	0	0	Waterspout
A very large waterspout formed in West Bay 8 miles southwest of downtown Galveston. The waterspout moved slowly northward from shore and lasted about 20 minutes. Small twin funnels formed around the main funnel for a short time. No damage occurred to boating.									
Trinity Bay, Chambers County	1	1:30 pm							Funnel Aloft
Several funnel clouds aloft were reported from noon to 2:00 pm over northern and eastern portions of Trinity Bay. None were reported to have touched the surface.									
Keith Lake, Jefferson County	1	1:43 pm							Funnel Aloft
The funnel was observed from Jefferson County Airport and was 15 miles to the south near Keith Lake. It lasted 5 minutes and moved very little.									
Bay City, Matagorda County	1	2:35 pm							Funnel Aloft
The funnel was sighted by State Police 10 miles west of Bay City. It moved slowly northward without touching ground.									
Beaumont	1	3:30 pm	15	5	0	0	4	0	Hail, Wind, Heavy Rain
A severe thunderstorm began near China and moved eastward across northern Beaumont. Hail 3/4 to 1-1/2 inches in diameter fell along the path with rain up to 4-1/2 inches in northern Beaumont. Most damage was to roofs, windows, and automobiles by hail with small damage due to winds and flooding.									
Padre Island, Kleberg County	2	9:10 am							Funnel Aloft
Two funnels aloft were reported over Padre Island 6 miles south of the National Seashore ranger station. There was no evidence that the funnels touched the surface as they moved northward.									
Von Ormy, Bexar Co.	4	3:00 pm							Funnel Aloft
State Police observed the funnel 4 miles south of Von Ormy. It moved eastward without touching ground.									
Ingleside, San Patricio County	5	4:38 pm	?	?	0	0	0	0	Waterspout
Coast Guard observed the waterspout in Corpus Christi Bay just offshore from Ingleside. It dissipated rapidly without reported damage to marine traffic.									
Yoakum, Lavaca County	6	12:20 pm							Funnel Aloft
The funnel formed 3 miles northeast of Yoakum and moved northward without touching ground.									
Conroe, Montgomery Co.	10	12:30 pm	1	15	0	0	3	0	Tornado
The tornado was sighted first as a funnel aloft just to the west of the Conroe city limits and on the north side of Highway 105. The funnel moved to the east-northeast and briefly touched ground near the vocational building of Conroe High School where 4 automobiles were damaged as the windows were popped out. The funnel then moved eastward aloft twisting a few trees but causing no more damage.									
Austin	11	5:30 am			2	0	4	0	Heavy Rain
Heavy rains began over Austin at 5:30 am and totaled over 3-1/4 inches by 8:00 am. Severe flash flooding occurred on some Austin streets causing two drownings. A boy was swept off a bridge by rapidly rising waters and a woman was drowned when swept away from her flooded car on a northwest Austin street. Property damage occurred to several homes and numerous flooded automobiles.									

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OCTOBER 1973

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					KILLED	INJURED	PROPERTY	CROPS	
<b>TEXAS (continued) EASTERN</b>									
Waelder, Gonzales Co.	11	8:15 am	6	50	0	1	4	0	Tornado
		The funnel was first sighted aloft over the Stalking oil field 4 miles southeast of Waelder. The funnel formed and withdrew into the clouds approximately 5 times while moving northward until it touched ground at 8:20 am on the west side of Farm Road 1680 about 1 mile southwest of Andrews Chapel. The tornado moved northward on the ground for 0.8 mile heavily damaging a turkey brooder house, uprooting several trees, and finally overturning an automobile and demolishing a mobile home where one person was slightly injured. The funnel then lifted and moved east-northeastward aloft crossing Interstate Highway 10 and moving a short distance in Fayette County.							
Dayton, Liberty County	11	11:50 am							Funnel Aloft
		State Police sighted the funnel 10 miles southwest of Dayton. It moved northeastward without touching ground.							
Woodsboro, Refugio Co.	11	1:45 pm							Funnels Aloft
		Two funnels were observed 10 miles southwest of Woodsboro. They moved northeast at 25 mph while remaining aloft.							
Houston	11	2:30 pm							Funnel Aloft
		Funnel was observed over the eastern part of Houston from Intercontinental Airport. It did not touch ground and probable movement was to the north.							
Freeport, Brazoria Co.	13	Morning			0	0	4	0	Heavy Rain
		Heavy rain fell during the early morning hours of the 13th causing water to back into homes in Freeport. About 50 people were evacuated from a dozen homes as water rose to 4 feet in some of the houses.							
Houston	15	Afternoon							Funnels Aloft
		Numerous short-lived funnels, none touching ground, formed over the Houston area. Sightings included funnels 5 miles south of Ellington Air Force Base at 1:20 pm, over the Houston Ship Channel at 2:15 pm, and over northwest Houston at 3:40 pm.							
Pasadena, Harris Co.	16	10:00 am							Funnel Aloft
		A funnel was observed near Highway 225 on the north side of Pasadena moving slowly to the south. There was no evidence of its having touched ground.							
Palacios, Matagorda County	27	11:16 am							Funnel Aloft
		The funnel was located 4 miles east of Palacios and observed from the airport. It lasted only a few minutes.							
Galveston	31	12:30 am			0	0	4	0	Wind
		A strong squall line moved through southeastern Texas during the early morning hours with winds up to 62 mph recorded at Galveston. Duration of winds was not long with damage mainly broken windows in the Galveston area.							
<b>TEXAS CENTRAL</b>									
Mexia, Limestone Co.	11	11:00p			2	0	2	0	Flash Flood
		Two children were swept from the top of an automobile off the spillway at Lake Mexia in heavy rain.							
14 ENE Dallas Dallas Co.	12	5:30p			0	0	0	0	Funnel cloud
		A funnel cloud was sighted in a heavy shower just northeast of Garland. The funnel withdrew back into the clouds before ever touching down.							
2 NE Roys City Rockwall Co.	12	6:44p	1/4	3	0	0	0	0	Tornado
		A tornado dipped down in an open pasture and returned to the clouds without doing any damage.							
N. Richland Hills Tarrant Co.	13	1:00a			2	0	3	0	Flash flood
		Two people were drowned when their car was swept into Big Fossil Creek which was swollen by a sudden downpour. Two other vehicles were swept into the creek, but no injuries or deaths resulted.							
8N of Mineral Wells Palo Pinto Co.	30	5:00p			0	0	3	0	High wind
		A roof was blown off a house by a gust of high wind.							
<b>TEXAS WESTERN</b>									
Near Perryton Ochiltree County	10	6:20 A - 6:40 AM	?	?	0	0	0	0	Hail
		Hail up to 1 3/4 inches in diameter fell over a small area. Most of the hailstones were smaller.							
<b>TEXAS (continued) WESTERN</b>									
5 miles East of Andrews Andrews County	10	6:40 P - 6:50 PM	?	?	0	0	0	0	Hail
		Hail up to 2 3/4 inches in diameter fell over a small area of rangeland and covered the ground.							
Lubbock, Lubbock County	10	7:20 PM							Lightning
		Lightning set a fire which destroyed a commercial building.							
<b>UTAH</b>									
Cache, Box Elder, Weber, Davis, Salt Lake, Utah, and Iron Counties	23	11:00 A - 4:00 P			0	0	4	0	High wind, rain
		Strong gusty winds, associated with locally heavy rainshowers accompanied a moderate cold frontal passage through Western Utah during the afternoon hours. Numerous power outages were reported, as power lines and trees snapped with wind gusts in excess of 43 mph at Salt Lake City and in excess of 50 mph at Cedar City. Locally heavy rainfall and heavy snowfall over higher mountain summits caused numerous accidents due to hazardous driving conditions.							
<b>VERMONT</b>									
NONE REPORTED									
<b>VIRGIN ISLANDS</b>									
NONE REPORTED									
<b>VIRGINIA</b>									
Norfolk-Newport News area	2	3 p				1			Heavy rain
		Flooding caused numerous traffic tie-ups and accidents, resulting in one pedestrian fatality.							
Yorktown	2	Afternoon					4		Wind
		Cinder block cottage destroyed.							
Gloucester	2	Afternoon					3		Electrical
		Lightning believed to have set fire that destroyed barn.							
Onley-Onancock area	2	Late afternoon							Tornado
		Large chicken house and several other buildings destroyed.							
Coastal sections	25-26						4		Tropical Storm "Gilda"
		Winds and high tides caused some flooding and beach erosion during 24-hour period. Assateague channel bridge washed out.							
Richmond	29	2 a							Electrical, wind
		Lightning struck power substation causing outage. Wind blew down several utility poles.							
<b>WASHINGTON</b>									
Grant, Franklin, Walla Walla, Columbia, Whitman Counties	6-7	10:30 p., 6th - 2:30 a., 7th						5	Wind
		Gusty winds and a few thunderstorms swept across the Columbia Basin. Winds in the Hartline area (Grant Co.) knocked the tops off 31 large steel towers being installed by the BPA. Hanford AEC had wind gusts up to 45 MPH while Walla Walla County Airport reported wind at 50 MPH. Power outages were caused by falling trees and branches in the Walla Walla area. Two pole fires blacked out Dayton. Hundreds of tree limbs were broken in the Pullman area. Several Washington Water Power lines were damaged or downed during the night hours. One small car was reportedly blown off the road 2 miles NW of Pullman.							
<b>WEST VIRGINIA</b>									
NONE REPORTED									
<b>WISCONSIN</b>									
Walworth County	1	0900-1500			0	0	4	4	Rain
		Heavy rain measuring 4 to 5 inches locally flooded basements and fields in Sharon area in southwestern corner of Walworth County.							
Vernon County	3	1830			0	0	0	0	Hail
		Golf ball size hail reported near Viroqua.							
Portage County	4	0200			0	0	3	0	Lightning
		Lightning causes minor fire and destroys wiring on Rosholt farm.							
Fond du Lac County	4	0100			0	0	4	0	Lightning
		Lightning destroys Electric Co. main feeder circuit in Fond du Lac and causes a 5-hour outage for 700 customers.							
Burnett County	8	2130			0	0	4	0	Wind
		Scattered wind damage with severe thunderstorms in Grantsburg area.							

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					KILLED	INJURED	PROPERTY	CROPS		
WISCONSIN (continued)										
Polk County	8-9	Night	Up to 3 inches of rain fell in Atlas area. This heavy rain caused cave-in of a basement at Long Lake. Also some flooded basements at St. Croix Falls and Taylor Falls.		0	0	4	0	Rain	
St. Croix County	9	0015	Bolt of lightning killed 12 Guernsey cows on Town of Forest pasture. Lightning also struck and damaged steeple on St. John's Lutheran Church.		0	0	4	0	Lightning	
WISCONSIN (continued)										
Polk County	9	0100	Tornado moving northeast touched down briefly damaging farm buildings and falling about 100 trees on Ed Harriman farm near Clara Lake in Georgetown Township, 8 NE Balsam Lake.	1	50	0	0	4	0	Tornado
Outagamie County	9	0730	Lightning fire caused loss of \$50,000 barn including 7000 bales of hay, a couple of calves and machinery on Vander Heiden farm north of Kaukauna. Also several other minor fires caused by lightning in Fox Valley and Green Bay area.		0	0	5	0	Lightning	
WYOMING										
NONE REPORTED										

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

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

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