



U.S. DEPARTMENT OF COMMERCE

MAURICE H. STANS, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
ENVIRONMENTAL DATA SERVICE

# STORM DATA

Volume 11 No. 10

OCTOBER 1969

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1969

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			None reported						
Alaska Cordova	6				0	0	5	0	Wind Storm
	Winds up to 79 mph and gusting to 120 mph raged in from the Southeast and continued for several hours. Roofs peeled off, power failed, buildings collapsed from the hurricane force winds. Power was out over a large segment of town when the Cordova Hotel roof went sailing away severing power lines. Several small planes flipped over and a helicopter was reported to have flown itself into Eyak Lake. A boat blew off its cradle in dry dock, sailed through the air and did extensive damage to a pickup truck.								
Anchorage	6				0	8	5	0	Wind Storm
	Gusty winds reaching velocities of 80 mph at times streaked through the foothills in the Anchorage area, smashing mobile homes, toppling trees and radio towers, wrecking small aircraft and injuring eight.								
Arizona			None reported						
Arkansas Conway - Faulkner County	6	6:40 p.	8-10	30	1		3		Tornado
	Small rope-like tornado approximately 20 feet in diameter near the ground. Moved west to east about 1 mile east of downtown Conway. Four homes partially damaged in Mill Addition. One man injured in face and one eye by flying glass.								
Sheridan - Grant County	10	7:00 p.	10-15	3000			4		Windstorm
	Trailer demolished, poultry house destroyed and numerous trees and roof damaged. Southwest to northeast path coming within about one mile (southeast) of Sheridan.								
New Jenny Lind - Sebastian County	11	12:55 a.					4		Windstorm
	One home destroyed and one home heavily damaged. Two county roads in area blocked by fallen trees. Heavy rain and some flooding in Fort Smith accompanied this windstorm.								
California San Francisco Bay area	10				0	0	5	0	Wind
	Gusty north winds throughout the greater San Francisco Bay area smashed windows, broke trees, and downed power and utility lines. Highways were blocked by falling trees. Fires were started by downed power lines. A number of moored boats were damaged or sunk.								
Modesto-Stockton	16	Before 3:25 p.m.			0	0	0	0	Tornado and Funnel Cloud
	Pilot flying 20 miles west of Modesto reported "Spout in sight approximately 20 miles west of Modesto picking up dirt from ground. Another spout north." Also reported moderate hail at 7,000 feet 20 miles east of Stockton. No reports of either wind or hail were received from observers on the ground.								
Colorado North Central and Northeast	3-5						5	6	Snow, cold
	Near-record heavy snow for so early in the season began late on the 3rd and continued into the early hours of the 5th. The greatest amounts fell along the eastern slopes of the mountains and adjacent plains areas in the northern part of the state, depths ranging from 8" to two feet or more. Heavy wet snow accumulating on trees in full leaf caused widespread damage from broken limbs and downed power and telephone lines. Snow or rain interrupted harvesting activities throughout the state, and damaged unharvested crops. Freezing caused extensive damage to harvested onions which had been socked for curing. Heavy snow accumulations forced early removal of cattle from mountain ranges.								
Most of State	11-22				0	2	5	5	Snow, wind, cold
	A second storm of near-record severity for the season was accompanied by more wind and colder temperatures than the first storm, and affected most areas of the state. There was additional damage to trees, and power and telephone lines from heavy snow accumulations and icing. Travel was restricted or blocked by drifting snow in mountain areas and in the eastern plains. Two hunters rescued near Pueblo received some freezing injury. Several hundred others were stranded for considerable periods in mountain areas, until roads were opened or they were reached in more remote areas by rescue operations. After this storm, total snowfall for the month was well in excess of previous records for October in many areas.								
Most of State	13-14						0	5	Cold
	Record low temperatures for so early in the season caused additional damage to crops. Snow cover prevented greater damage in many areas to sugar beets and potatoes still in the ground. Minimums ranged from the low 20's to zero or below.								
Mountains and Northeast	29						0	4	Snow
	A third major storm of the month resulted in record high snow accumulations in mountain areas for so early in the season, and caused further delays in harvesting and added to crop damage.								
Connecticut			None reported						
Delaware			None reported						
Florida Carrabelle (8 mis. E) Franklin County	1	5:10a			0	0	0	0	Tornado
	Waterspout came ashore briefly. One home at St. James was unroofed.								
Apollo Beach (18 mis. S. of Tampa) Hillsborough County	1	3:40p							Funnel aloft
Marco Island (41 mis. S. Ft. Myers) Lee County	1	4:35p							Rain and wind
	Torrential rain and strong winds estimated at 80-85 mph moving from southwest to northeast.								
Orange Park Clay County	1	5:30p			1	0	0	0	Lightning
	Construction worker killed when struck while working on a bridge.								
Daytona Beach (vicinity)	2	4:43p							Tornado
	Funnel cloud reported by Highway Patrol as having touched down very briefly. A billboard was demolished.								
Ormond Beach (6 mis. N. of Daytona)	2	6:07p							Funnels aloft (2)
Tropical River Groves (60 mis. SE Tampa, 10-12 mis. E. Arcadia) Hillsborough County	4	5:10p							Tornado and Funnels aloft (2)
Sebring (vicinity) Highlands County	9	All day and evening			0	0	6	0	Flooding Hurricane Jenny
	District Soil Conservationist estimated 500 acres of citrus groves were flooded as well as many homes, trailers and roads. Estimate of damage is approximately \$1,000,000.								
Hollywood Beach Broward County	17	early morning			0	0	3	0	Wind
	Two walls of construction project (30' x 10-12') were toppled damaging a car and a nearby shop.								
Miami (8 mis. WSW)	17	8:25p							Thunderstorm
	Wind gusts up to 50-55 knots.								
West Palm Beach (8 mis. E.)	22	6:38a							Funnel aloft
Ft. Lauderdale (vicinity)	22	9:03a							Funnel aloft
Miami Beach (5 mis. E)	23	4:00p							Funnels aloft (5)
Hiviera Beach Palm Beach County	24	morning			0	0	3	0	Winds
	A house boat sank after being battered by high winds and lashing water. Winds reported at 40-45 mph.								
Boca Raton Palm Beach County	24	4:16p							Winds
	Gusts to 42 mph caused a large crane to slip from a derrick barge. Barge also was swamped.								
Miami (6 mis. E.)	28	3:05p							Waterspout
Miami (10 mis. WSW)	28	2:30p							Funnel aloft
Homesstead AFB (8 mis. WSW)	28	2:21p							Funnel aloft
Miami (10 mis. E)	28	3:25p							Funnel aloft
Boca Raton Palm Beach County	31	afternoon			0	0	3	0	Wind
	Two parked cars were blown into each other with moderate damage. One store window blown in, electric service disrupted.								
Wassau County	31				0	0	5	0	Rain and flooding
	20-30 homes badly damaged in Fernandina Beach. Two hundred miles (50%) of county roads made impassable. Preliminary damage estimate for roads is \$100,000. Approximately 40-50 parked cars swamped. More than 22 inches of rain measured in Fernandina Beach Friday through Sunday, November 2.								
Lower Southeast Coast	31	all day and night							Winds, heavy rain and flooding
	Cruise ship, New Bahamas Star (12,000 ton) ran aground at mouth of Port of Miami. Rainfall amounts varied from 7-11 inches over 24-hour period: Ft. Lauderdale, 9.22 in.; N. Miami Beach, 8.05 in.; Pompano Beach, 10.08 in.; Winds were 25-30 mph in Ft. Lauderdale and Palm Beach areas. No estimate of damages.								
Georgia			None reported						
Hawaii			None reported						

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS		
<b>Idaho</b> Minidoka and Bingham Counties	2	10:00a	Short	Narrow	0	1	4	0	0	Wind
			Gusty west winds following a cold front passage ripped a 150-foot square section of metal roof off a new refrigerated warehouse at Heyburn. The roofing entangled in electric wires causing additional damage. One man was injured when the wind caught a sheet of the roofing and blew it into several men. A potato grower's warehouse roof was also damaged at Aberdeen where strong winds blew off a 50 x 70 foot section of insulation and tar roofing.							
<b>Gem and Ada Counties</b>	12	6:00a-10:00a	40	15	0	0	?	?	?	Snow
			An early morning localized snow storm across the Emmett-Boise area provided new record snow depths for so early in the season. Snowfall of 4.0 inches at Emmett equalled the previous record set on October 29, 1919. Boise recorded only 1.2 inches from this storm. Other Emmett Valley residents unofficially reported up to 6 inches of snow. Snow-laden branches from shade trees broke and fell across power lines causing outages in Emmett. Moderate and scattered fruit tree damage was reported throughout the Valley.							
<b>South Central and Eastern Idaho</b>	12-16	Early mornings			0	1	0	5		Cold
			Intense cold mornings arrived about two weeks early in the potato-producing areas of southern Idaho catching about a third of the crop unharvested. Morning minima ranged from 22 to 14 degrees in the Central Plains with 18 to 9 degrees recorded in the Upper Snake River Plains. Lowest maxima temperatures for so early in the season, based on 20 years of record, were recorded on the 12th and 13th at the Idaho Falls Reservoir Station while the Weather Bureau Office at Pocatello set new record minimum temperatures on the 12th, 13th and 14th. Potato loss due to freezing was estimated at 4 percent of the total state crop. An itinerant laborer near Blackfoot froze his feet when he fell asleep beside the railroad track on the morning of the 14th. Temperature at the time was near 17 degrees.							
<b>Illinois</b> Central Illinois	10-11	5p-2a			0	0	*5			Wind, hail
			Thunderstorms moving across state caused considerable but widespread wind damage and some damage by hail. Falling limbs or trees caused most damage with some mobile homes and small buildings damaged directly. Corn was down in fields in areas of extreme winds.							
<b>Calhoun County</b>	10	7p	1/4	100	0	4	*4			Tornado
			Tornado moved east-northeast to destroy two dwellings at Hamburg. Damage \$20,000. (WBO, St. Louis)							
<b>Tazewell &amp; Woodford Counties</b>	10	8p	1	200	0	0	5	0		Tornado
			First touched in eastern section of Deer Creek with greatest damage in two block area. Minor damage continued to NE. Damage estimated \$150,000. (WBO, Peoria)							
<b>Indiana</b> Clinton (Vermillion County)	11	E.S.T. 2:20a.	?	?	0	0	?	0		Wind
			Public reported light damage to property and some trees downed.							
<b>Greencastle, NW (Putnam County)</b>	11	2:45a.	?	?	0	1	5	0		Wind
			At Van Bibber Lake, 9 house trailers were destroyed, 31 were damaged and one injury resulted when a truck-camper overturned.							
<b>Fort Wayne (Allen County)</b>	11	4:00a.	Short	Narrow	0	2	4	0		Wind
			Two persons injured by broken glass when roof and windows of a hospital were damaged. Three cars were damaged.							
<b>Iowa</b>			None reported							
<b>Kansas</b>			see data at end of table							
<b>Kentucky State</b>	20	Evening			0	0	4	0		Wind, electrical
			In Hardin County wind damaged 7200 concrete blocks of a building under construction in the Madeliff area. Wind downed a few power lines in Jefferson County. In Grant County wind downed 2 barns containing tobacco; in Pulaski County, 1 barn containing tobacco, and some trees. In Madison County lightning killed 3 cattle.							
<b>Louisiana</b> Portions of Southwest, Central, East Central Divisions	6-7				0	0	4	?		Rain
			Heavy rains fell over portions of these divisions, with totals ranging up to 10.50 inches between 7:50 p.m.-6 and 6 a.m.-7 at Oaklolia and 9.68 inches at Greenwell Springs and 4 to 6 inches at numerous places. Some local flooding in many localities.							
<b>Webster Parish</b>	10	4:00 p.	1		0	0	4	0		Tornado
			Tornado dipped down between Springhill and Cullen. Destroyed one building, damaged several others. Sheet metal strewn over one mile area. About 75 phone perrisop lines damaged. One airplane destroyed, two others slightly damaged at Springhill Airport.							
<b>Louisiana (continued)</b>										
<b>Orleans Parish</b>	24-25 & 29-31				0	0	0	0		Tidal Flooding
			Brisk easterly winds combined with normal high tide produced minor flooding from the Rigolets westward to France Road section of New Orleans.							
<b>Maine Southern</b>	21				0	0	4	0		Wind
			High winds caused scattered and mostly minor damage. A building in Newport was toppled.							
<b>Southwestern</b>	22				0	0	4	0		Snow
			Wet snow accumulated in many areas from 3 to 6 inches and locally to 8 inches. It clung heavily to trees still in leaf, causing some limbs to break and resultant utility outages. In many areas this was the heaviest snow so early in the season since those of October 1925 and 1926.							
<b>Maryland</b>			None reported							
<b>Massachusetts State</b>	2-3	Night, A.M.			0	0	4	0		Rain
			Rain with widely varying totals reached flooding proportions in a few local areas. Totals of 2 to 2 1/2 inches in the New Bedford-Fairhaven-Acushnet area caused local flooding of cellars, streets, and an East Fairhaven school.							
<b>Eastern</b>	20	P.M.			0	0	4	0		Wind
			High winds caused mostly minor damage in many communities and in Franklin felled a tree which demolished a car. Some utility failures from limbs breaking wires. Scattered thunderstorms in many areas near midnight, with little damage.							
<b>Eastern</b>	22	P.M.			0	0	2	0		Lightning, hail
			Scattered thunderstorms produced late-season hail in various communities, mostly 1/4 inch or less.							
<b>Michigan</b> Pellston, 13 NW Emmet County	7	10:20 am			0	0	0	0		Waterspout
			Waterspout observed by pilot.							
<b>Minnesota</b> Taylor Township Traverse County	3	Early Morning			0	0	4	0		Lightning
			Lightning struck and burned barn, 50 pigs, 1,000 bales of hay and a truck.							
<b>Hancock 6SSE, Stevens County</b>	3	11:00am			0	0	4	0		Lightning
			Lightning burned barn and tractor.							
<b>Sauk Center Stearns County</b>	4				1	0	0	0		Lightning
			Lightning struck and killed 10 year old boy riding on a tractor.							
<b>Meeker County</b>	4	5:00pm			0	0	4	3		Wind and hail
			Thunderstorm with winds and scattered hail; winds damaged drive-in theatre screen and many farm outbuildings near Litchfield, mostly to the north; winds caused minor damage to farm buildings and major damage to a pickup camper as it was blown off the road east of Cosmos; some crop hail damage to soybeans near Cosmos area.							
<b>Mississippi</b>			None reported							
<b>Missouri</b> Steelville, Crawford County	4	10:30 PM						4		Thunderstorm
			Wind damage to a mobile home. Hail six inches deep following storm, with hundreds of birds killed.							
<b>Lincoln County, Troy</b>	10	late evening						5		Tornado
			A school bus garage at the R-III school was demolished. Metal utility buildings were picked up and rotated before being dropped in a broken condition. Mobile homes, power and telephone lines were damaged. Heavy damage to homes and buildings in Troy. Movement of storm was from west to east, with the last damage on Highway 47, east of Troy.							
<b>Vanzant, Douglas County</b>	10	9:40 PM								Tornado
			Storm hit the Sweden area (15 East of Ava) near Highway 14, and moved toward the northeast, hitting the Vanzant area at 9:50 P.M. An east wall of a home was completely blown out, apparently from the rapid drop in pressure accompanying the storm. A cattle feeder was lifted from a pasture, and one of the supporting legs was twisted about four turns. State Highways 95 and 76 near Ava were blocked by trees that had been blown down.							

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					KILLED	INJURED	PROPERTY	CROPS	
<b>Missouri (continued)</b>									
Much of the State	10-12	Weekend					5	5	Thunderstorms
									Heavy rains, wind, some hail, with flooding over a wide area roughly bounded by Highway 36 on the north and Highway 60 on the south. Many reports of rain exceeding 5.00 inches, with some places getting 8.00 to 12.00 inches of rain over the weekend.
Montana									None reported
Nebraska									None reported
Nevada									None reported
New Hampshire State	22				0	0	4	0	Snow
									Snow accumulated to 2 to 6 inches in many areas and up to one foot or more locally in the White Mt. area. It clung heavily to trees still in leaf, causing some limbs to break, with utility outages resulting. In many areas this was the heaviest snow so early in the season since those of October 1925 and 1926.
New Jersey									None reported
New Mexico	8	7:05 p.							Hail
Dona Ana County									Hail, up to 3/4 inch in diameter, 10 miles west of Las Cruces. No damage reported from large hail.
New York									None reported
North Carolina									see data at end of table
North Dakota									None reported
Ohio	17	9:05a							Waterspout
Painesville, Lake County									A waterspout was reported by radio station WPVL.
Oklahoma	4	Evening	10	*4	0	0	3	6	Wind, hail, and rain
W and N of Straight, Texas County									Strong wind, small hail, and heavy rain struck the area causing considerable damage to the Milo crop and minor damage to farm buildings. Damage to the Milo crop was estimated at about 65% and was caused primarily by hail. Damage to the buildings was due to both hail and wind. Rainfall totaled 1 1/2 inches.
Warner and Webbers Falls area, Muskogee County	10	7:00p.-9:30p.	?	?	0	0	5	5	Wind, rain, and lightning
									Strong winds and heavy rain struck the area causing heavy damage to the cotton crop and several buildings. A cotton gin, high school facilities, and several barns were damaged in the Webbers Falls area. A grain bin was blown across the highway seven miles east of Warner. The loss to the cotton crop was estimated at between 50 and 75%. The roof of the Conders State College gymnasium was blown off. A home in Warner received minor damage when struck by lightning.
Miami area, Ottawa County	10	About 7:45p.			0	0	3	0	Wind, hail, and rain
									Strong winds and heavy rain struck the area causing damage to electric lines and several power line poles. An empty trailer truck on the Mill Rogers Turnpike 5 miles south of Miami was overturned by the wind. The driver of the truck was not injured. Hailstones measuring 1/2 inch in diameter fell. Rainfall totaled 3 to 4 inches.
Newoka and Holdenville area, Seminole and Hughes Counties	10	Evening			0	0	5	0	Tornado, wind, lightning, and heavy rain
									A small tornado touched down about 9:30 p.m. 2 miles west of Holdenville near SH-270 as a line of strong thunderstorms moved eastward across the area. The tornado had a path about 200 yards wide and one-half to three-quarters mile long. Six large mobile homes and several small pick-up campers were destroyed by the tornado and several outbuildings and two residences were damaged just to the south of the trailer-sales lot. Strong straight-line winds caused minor damage to TV antennas, fences, trees, and roofs in the area. A barn full of hay was totally destroyed three miles west of Newoka after being struck by lightning. Rainfall in the area totaled 2 1/2 to 3 inches.
2W Newoka, Seminole County	11	About 6:00a.			0	0	4	0	Lightning
									Residence 2 miles west of Newoka was totally destroyed after being set afire by lightning.
<b>Oklahoma (continued)</b>									
Checotah, McIntosh County	11	6:10p.			0	0	0	0	Hail and rain
									Hail measuring 1 3/4 inches in diameter and heavy rain fell, but no damage was reported.
Hugo, Choctaw County	11	Evening			0	0	7	0	Wind and lightning
									Strong winds and severe lightning struck the area during the evening with the wind causing considerable damage to roofs, porches, trees, signs, and TV antennas. Windows were blown out of two business houses in the downtown area.
Durant area, Bryan County	11-12	Evening, 11th - PM, 12th			0	0	4	?	Wind and rain
									Strong wind caused several thousand dollars damage to a few-block square area in Durant during the evening of the 11th. Damage to a metal building at a peanut company showed a twisted effect, but workers at the plant saw no funnel or heard no unusually loud noise. Heavy rains which followed the wind storm and continued through the following day measured in excess of 6 inches in some parts of the area and caused an unknown amount of damage to the peanut and cotton crop.
Eastern Oklahoma	11-12	AM, 11th - PM, 12th			0	0	7	?	Heavy rain and flooding
									Rain of from 4 to 11 inches during the two-day period caused minor flooding on several streams and rivers in eastern Oklahoma. Damage was reported as light and resulted mainly from washed roadbeds and to some low-lying cropland. High water closed several highways briefly. Several homes were flooded in Henryetta due to surface drainage.
Oregon									None reported
Pacific Mariana Islands	16-18				0	0	0	c	Typhoon
									IDA, first detected as a tropical depression morning of 16th about 50 miles south-southwest of Saipan, where Kobler Field reported gusts of 54 miles an hour and the LORAN station gusts of at least 62 miles an hour and a 24-hour rainfall of over 11 inches. IDA then moved northeast about 35 to 60 miles west of Mariana Island chain, intensifying slowly, and reached typhoon strength early on 18th, passing very near or over Agrihan Island mid-morning of 18th with sustained winds estimated 115 miles an hour. Island apparently severely damaged; Air Force and Navy planes dropped 200 lbs. of food to 94 residents. No other damage reported in Marianas.
Pennsylvania	20	Day						2	Lightning
Ellwood City, Lawrence County									Lightning struck a farm shed causing \$500 damage.
Puerto Rico	6	5:00 p.			1	0	0	0	High Surf
San Juan									Rough seas with strong surf conditions along the north coast of Puerto Rico caused a small boat to capsize and drowned one man.
Culebra Island	7	4:30 p.	1	4	0	0	2	0	Waterspout-tornado
									A small waterspout moved inland over Culebra Island moving from southeast to northwest. The southeast side of a porch was derpoofed. Another small building was overturned and several trees uprooted.
Rhode Island									None reported
South Carolina									see data at end of table
South Dakota									None reported
Tennessee									None reported
Texas	4-5				1	0	5	?	Flash Flooding
Gillespie County									Torrential rains of four to more than seven inches over most of Gillespie County flooded all major creeks and the Pedernales River. Rains began about 8:00 p.m. on the 4th and continued into the early morning hours of the 5th. A total of 7.65 inches fell at Boss and 4.17 inches at Fredericksburg. Jimmy Lee Spangenberg, 25, was swept to his death when his automobile was caught by the sudden rising torrent in Barons Creek. His body was carried almost three-quarters of a mile down stream. Spangenberg's wife managed to escape. Another man, a lone occupant of an automobile, was swept a mile down Crabapple Creek before he was able to grab a tree limb and pull himself to safety. Liveoak Creek flooded the new Lady Bird Johnson Municipal Park in Fredericksburg and caused an estimated \$23,000 damage to the latest dam built in the park. Other damage to the park included erosion to the old dam and to the Golf

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Texas (continued)										
Gillespie County										Course. About 30 head of sheep were reported drowned in the Grapetown community. Fences and water gaps in the county suffered extensive damage. Property damaged was estimated to be in excess of \$100,000.
Llano, San Saba, and Burnet Counties	4-5				0	0	5	?	Flooding	Torrential rains of five to more than 10 inches within 24 hours flooded streams in Llano and San Saba Counties, and caused extensive damage to roads, bridges and lake shore installations. A 24-hour rainfall of 10.50 inches fell south of San Saba in San Saba County. Several bridges were washed out on rural roads. Boats, boat docks and other waterfront facilities received heavy damage when the surfaces of Lake LBJ and Marble Falls Lake rose suddenly. The San Saba River at San Saba crested at 28 feet on the morning of the 5th, and Wallace Creek went on a rampage which forced some San Saba residents to flee. The creek rose into the Garden Club's clubhouse in Mill Pond Park. Streets in San Saba received extensive damage. More than 3,000 sheep were reported drowned throughout San Saba County, and ranchmen also reported some cattle losses. Damage to fences and water gaps was widespread and top soil was heavily eroded. In the lake area, damage appeared to be heaviest at Kingsland facilities on the Llano River arm of Lake LBJ. Total storm damage was estimated at \$1,000,000. Water flooded several homes, washed away some houses and barns and caused extensive damage to some automobiles and farm machinery. Crops, mostly winter small grains, were damaged.
Del Rio and vicinity, Val Verde County	4-5				1	0	4	?	Flash Flooding	A total of 7.60 inches of rain fell in Del Rio in two separate periods on the 4th. Drainage facilities were flooded and the heavy rains forced the closing of the low water bridges across San Felipe Creek. Water poured into the new Neighborhood Center which is under construction. Flooding was reported also on Avenue F and Highway 90 west. Flooded creek waters drowned a truck driver during the early morning hours of the 5th when the truck-tractor and semi-trailer he was driving skidded off the bridge over Sycamore Creek on Highway 277 and jackknifed into the straub with its load of cattle. The vehicle hit the water covering the bridge to a depth of six inches over the railing. Damage to the truck-trailer, and loss of some cattle drowned was estimated at \$28,000.
Southwest Texas	4-9				2	0	5	5	Flooding	Heavy rains occurred over the Upper Nueces watershed on the night of the 4th and moderate rains spread southeastward over most of the lower watershed on the 5th. High intensity rains, with amounts up to more than 12 inches occurred over a 10 mile wide area just south of Uvalde and very heavy rains of six to seven inches extended north and northeastward into the Leakey-Utopia area. The official gage at Uvalde measured 8.28 inches while a 12.7 inch reading was taken at the Texas Highway Department headquarters in Uvalde. Flash flooding occurred from Garner State Park on the Upper Frio southward on the Frio and tributary streams to U. S. Highway 90. On the morning of the 5th all roads out of Uvalde were closed except U. S. Highways 90 and 83. The Frio near Uvalde crested near 19 1/2 feet and the Sabinial crested at 20 1/2 feet, both in the early morning of the 5th. Gail Wells, 50, and Leslie Standifer, 25, both of Sabinial drowned when their automobiles were swept off Ranch Road 2690 by flood waters of the Dry Frio. In Uvalde the downtown flooded streets up to four feet deep on South Getty Street, overflowed curbs into businesses and homes, washed vehicles from roads at water crossings and caved in one roof. Uvalde missed the flooding from the Leona River but the rural areas caught it full blast. South of U. S. Highway 90, Batesville was heavily flooded in the afternoon and evening of the 5th by water from the Leona River, which was higher than it had been since 1952. Moderate flooding occurred along the Frio River in northwestern Frio County on the night of the 5th. Flood waters from the Leona and Frio converged at Derby to cause moderate flooding on the 6th. Minor flooding occurred on the Nueces with the crest passing the station at Uvalde 9 SW in the late morning of the 5th and Crystal City on the 6th. Flooding on the Nueces was added to by water from Turkey Creek from the 7th through the 9th. A second area of heavy rains occurred on the night of the 4th with up to 7.53 inches at Big Wells, and amounts to more than six inches extending northeastward to Derby. Property losses were estimated at \$300,000 and crop losses at \$100,000.
Dallas and Collin County	12	6:50 a-8:00 a	45	200	0	3	6	?	Tornado	A tornado hopped and skipped along a 45-mile path across the Greater Dallas metropolitan area touching ground six or more times. Three persons received minor injuries - two in Garland and one in Oak Cliff. Property damage was estimated at \$600,000 of which about \$100,000 was in Garland, where the path of destruction was about seven to eight miles long and 200 to 300 yards wide. The tornado hit first in South Oak Cliff, east of Red Bird Airport, then skipped along at tree-top level, dipping down again near the Gordith Street Road, just west of the Trinity River. The funnel lifted and passed over downtown Dallas, then hit an apartment house off the 2000 block of Garland Road near White Rock Lake. The funnel lifted then struck again at Kingsley Road and the LBJ Freeway where it spun into an industrial district and caused heavy damage to about five firms and minor damage to 15 others. Most heavily damaged were the Shevlin-Williams Co., King Lumber Co., Schalle Container Co., Trinity Plywood Co., and the Jacob E. Decker and Sons Co. These firms suffered heavy roof, wall and water damage. The tornado left minor roof damage to houses; power and telephone lines were blown down, trees split and uprooted, fences blown down, windows broken and television antennas were blown down. The tornado touched ground in southern Collin County, between Wylie and Murphy,
Texas (continued)										
Near Robstown, Nueces County	12	5:30 p-6:00 p	1/2	100	0	0	0	0	3 Tornadoes, funnels aloft	where it blew down a barn. Near Princeton the tornado blew down several sheds and destroyed some cotton trailers before receding into the clouds. The tornado speed along its northeasterly path was estimated at about 30 miles per hour. Some crops in Collin County were damaged.
Fredericksburg, Gillespie County	12				0	0	4	0	Flooding	Three small tornadoes, and one or two funnels that did not touch ground were observed in open country, three to five miles southwest of Robstown. The path of the largest tornado was one-half mile long and about 100 yards wide. No damage was reported.
1 1/2 N Olton, Lamb County	19	8:00 p	1	10	0	1	4	0	Tornado	Torrential rains ranging from over three inches in Fredericksburg to an unofficial twelve inches in the White Oak community resulted in severe flooding of numerous creeks and the Pedernal River. It was a repetition of the heavy downpour of the previous week. Additional damage, estimated at about \$37,000 occurred to structures in Lady Bird Johnson Park, bringing the total damage for the two storms to an estimated \$60,000. The previous storm occurred on October 4-5.
La Joya, Hidalgo County	27	5:00 p-5:30 p	17	7	0	1	5	0	Windstorm	A small tornado dropped down on the Raymon Carson farm, four and one-half miles north of Olton. Heavy damage was done to the house and outbuildings. Many of the smaller buildings were blown away. The tornado moved northeastward with a path only about 10 yards wide, and blew out the north end of a barn at the Floyd Light farm. According to Mrs. Light, when the tornado struck, it "wasn't loud - it was sort of like a vacuum or like someone threw a blanket over the house". At the time, they were watching television and wouldn't have gone out to check on the storm except for the fact that Mr. Light complained that a sudden pressure change had caused his ears to hurt. At the Carson home windows were blown out both on the north and south sides of their study room; Billy Carson received minor cuts from flying glass when storm windows were ripped off the dining room area. The roof of the Carson home was torn loose. Damage caused by the tornado was estimated at \$20,000.
Laredo, Webb County	28	1:00 p-5:00 p			0	0	4	0	Rain	A violent windstorm ripped off roofs, blew down sheds and garages, uprooted trees, shattered windows and knocked down power lines at La Joya. One person was injured when hit by flying debris. Probably the heaviest damage was to La Joya school buildings. A large number of windows in the schools were broken. The roofs were ripped off the junior high school dressing room and four elementary school classrooms. Approximately 80 to 90 percent of the trees in the school yard were blown down by the wind, estimated at 60 miles per hour. Hall, and an estimated three to four inches of rain fell during the storm.
Val Verde County	28				0	0	?	?	Hailstorm	Rains, totaling 3.05 inches, fell at Laredo between 1:00 and 5:00 p.m. caused a sidewalk at the Gomez and Sons Grocery, at the intersection of Convent and Zaragoza Streets, to cave-in. A basement was being built under the store and water accumulated, moving under adjacent buildings and then pressing against the walls of the basement of Santos and Garza store, which is at the other end of the block. Damage to the business firms in the block was estimated at \$25,000, with most of the damage done to merchandise.
Near Garland, Dallas County	30	Morning			0	0	3	0	Lightning	Hailstones, described as about the size of grapefruit (four inches in diameter) fell on the Mark Ward Ranch in North Val Verde County, about 25 miles north of Del Rio, off U. S. Highway 277. The hail killed small animals and birds and did considerable damage in the area.
Near Farmersville, Collin County	30	Night			0	0	3	0	Lightning	Nine horses burned to death when lightning struck a barn south of a mobile home park on Roan Road during the very early morning hours. Three horses escaped the barn, which burned to the ground. Damage was estimated at \$2,000.
Gilchrist, Galveston County	30	1:00 p-1:15 p	1	Narrow	0	1	4	0	2 Waterspout-Tornadoes	The Carson Dillard home, located on Highway 24 East was severely damaged by fire during the night as a result of being struck by lightning. The lightning strike burned out several appliances (electrical) and the resulting fire destroyed clothes in closets as well as damaging part of the structure of the house itself.
										Two waterspout-tornadoes moved through Gilchrist injuring one person and causing property damage estimated at \$10,000 or more. Several trailer houses were overturned. The path of damage was about one mile long. The storm moved from east to west.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

OCTOBER 1969

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)										
Wharton, Wharton County	30	4:30 p-4:40 p	?	?	0	0	?	?	Hailstorm	
										Hail, ranging in size from 1/8 to 2 inches in diameter fell for about 10 minutes in Wharton. No damage was reported.
Bonham, Fannin County	31	Morning			0	0	3	0	Lightning	
										Fire, started by lightning, destroyed 600 bales of hay and badly damaged a large barn just to the rear of the Jerry Boone Ford Sales Company during the very early morning hours.
Utah										None reported
Vermont State	22				0	0	4	0	Snow	
										Snow accumulated from 2 to 6 inches deep in many areas and up to a foot or more locally in higher elevations. It clung heavily to trees still in leaf, causing some limbs to break, with resultant utility outages. In many areas this was the heaviest snow so early in the season since those of October 1925 and 1926.
U. S. Virgin Islands										None reported
Virginia										None reported
Washington										None reported
West Virginia										None reported
Wisconsin Shawano County	1	am			0	0	4	0	Lightning	
										Large dairy barn at 5 NE Birmanswood burned after being struck by lightning.
Grant County	1	pm			0	0	3	0	Wind	
										Strong gusty winds with thunderstorms uprooted several large oaks, blowing one onto a house trailer at 2 W Besobel.
Bayfield County	5	3 p			0	3	3	0	Wind	
										Wind blows large tree onto car demolishing car and injuring three occupants slightly at Bayfield.
State	9				2	0	5	0	Wind	
										Strong gusty winds throughout state with gusts near 50 mph. Two persons drowned when large waves swept them off breakwater at Algona. Many apples blown down.
State	11-12				0	0	5	0	Wind	
										Strong winds throughout state cause scattered damage mainly to lake property around Lake Geneva and on Green Bay.
Wyoming										None reported
Kansas Kearny Co.	4	4:00 p. (MST)	Short	?	0	0	0	0	Tornado	
										Tornado touched down briefly in open country about 19 mi. NNW of Lakin. Tornado was moving NNE.
Trego Co.	5	early in a.m.			0	0	4	0	Lightning	
										A lightning-caused fire destroyed a barn plus contents.
South central	9-10	Night of 9-10			0	0	4	0	Rain, lightning	
										Heavy rains caused flash flood damage at Pratt; lightning caused damage 8 mi. N of Halstead.
Geary Co.	10	4:09 p.			0	0	0	0	Hail	
										Hail up to 3/4 inch diameter was reported at Ft. Riley.
Johnson Co.	10	afternoon			1	0	0	0	Lightning	
										A man was killed at Overland Park.
Southeast, east central	11-12				0	0	4	3	Rain	
										Locally heavy rains of 2 to 6 inches caused flash flooding in several areas. Major flooding was still reported on Pottawatomie Creek and the Lower Marais des Cygnes River for several days after October 12.
North Carolina										
Anson County	2	4 am						4	0	Windstorm
										Severe winds damaged three houses and uprooted a few trees in a small area of Burnsville Township.
Warren County	2	1 pm	8	100	0	0	5	0	Tornado	
										Moved northeastward on a broken path from Vaughan to Lake Gaston. Funnel seen, sound like jet planes heard. Water lifted "in a sheet about fifty feet high" when funnel moved over Lake Gaston, according to a witness. One church, two homes and several tobacco barns and other outbuildings destroyed, numerous trees twisted off.
Nash County	2	2:30pm	short narrow		0	0	4	3	Tornado	
										Funnel seen, roaring sound heard, but no direction of movement determined. Affected only a small area. One home, several barns and packhouses destroyed 3 miles east of Nashville. Several trees uprooted; one fell on a house.
Martin County	2	2:30pm						4	0	Windstorm
										Wind damaged roof on one home, blew a tree down on another, near Oak City. Several outbuildings also damaged.
Bertie County	2	5 pm	25 narrow		0	0	5	0	Tornado	
										Storm moved along a skipping path from south of Windsor northeastward to near Colerain, touching down only occasionally. Four small areas of uprooted trees and roof damage or barns destroyed along the path. Power and telephone lines broken several places, mostly by falling trees.
South-Central & North-eastern North Carolina	2							5	5	Rain
										Rains up to five inches in 24 hours caused flash flooding in several areas, damaging roadways, drainage facilities, basements, low-lying houses, and crops in low and poorly drained areas.
South Carolina Lancaster County	1	11:45 p.	1/2	15	0	0	0	0	2	Tornado
										A tornado struck a wooded area about 4 miles northeast of Great Falls and just east of the Wateree River. Timber was felled along a narrow path from state road 97 to Cedar Creek road.
Darlington County	2	5:30 a.			0	0	3	0	Tornado	
										A tornado struck a farmhouse and outbuildings at the eastern edge of Society Hill. A porch and part of the roof were torn off the house, one outbuilding was damaged and another demolished. Residents of the house, who narrowly missed injury, heard a loud roar just as the roof disappeared from above their heads. Several trees were twisted off at the base and debris was scattered over a large area. House furnishings were damaged by rain.

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

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

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