

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

STORM DATA

NOVEMBER 1964

Volume 6 No. 11



ASHEVILLE: 1965

STORM DATA AND UNUSUAL WEATHER PHENOMENA

NOVEMBER 1964

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	
ALABAMA			None reported						
ALASKA			No report received by printing						Headline
ARIZONA			None reported						
ARKANSAS									
Elaine, Phillips County	19	7:00 a.	5	100	0	0	3	0	Tornado
									Tornado occurred in vicinity of Elaine, 24 miles southwest of Helena, Arkansas. Tornado moved in a northeasterly direction into Mississippi.
Wynne, vicinity, Cross County	27	9:50 p.	?	?	0	0	3	0	Tornado
									Tornado damaged property in the Center Community, ten miles west of Wynne.
Walnut Ridge, Lawrence County	27	9:22 p.	?	?	0	0	?	0	Wind
									Walnut Ridge Municipal Airport reported wind gusts of 70 mph along with thunderstorms and hail.
CALIFORNIA									
Santa Barbara 1 W	1	9:40 a.m.							Funnel clouds
									Pilot reported seeing three funnel clouds.
Off Ft. Mugu	1	9:40 a.m.							Funnel cloud
									Pilot reported seeing one funnel cloud.
Alpaugh 2 W	1	3:20 p.m.	1	50	0	0	2	0	Tornado
									Tornado touched ground twice near this community northwest of Bakersfield; minor damage was done to farm buildings.
San Diego 10 S	9	7:15 a.m.							Waterspout
									Report of waterspout received from Navy.
North of Santa Barbara	9	early a.m.			0	0	5	0	Heavy showers
									Brief but intense rain in mountain area denuded by Coyote fire last fall caused mud slides and washed large boulders down slopes to damage houses and roadways.
Sunset Canyon	9	forenoon			1	1	5	0	Heavy rain
									Flash flooding from fire-denuded hillside area drowned a woman and injured her husband. Homes, roadways, and utility lines were damaged.
El Segundo	9	7:00 a.m.	1	60	0	0	3	0	Tornado
									Small tornado damaged several buildings, uprooted trees, and downed utility lines.
Windsor (Sonoma County)	10	1:34 a.m.	1	30	0	0	3	0	Tornado
									Small tornado damaged buildings, trees, billboards, and utility lines.
Santa Barbara 30 SSW	16	11:05 a.m.							Funnel clouds
									Pilot reports 3 funnel clouds moving westward near southwestern end of Santa Cruz Island.
San Diego 44 W	16	11:35 a.m.							Waterspout
									Pilot reports waterspout 1/4 miles off the coast from San Diego.
Southwest of Los Angeles	16	2:00 p.m.							Funnel cloud
									Pilot reports a funnel cloud southwest of Los Angeles; no further details available.
COLORADO			None reported						
CONNECTICUT			None reported						
DELAWARE			None reported						
FLORIDA									
Miami Dade Co.	1	11:30 am							Funnel Cloud
West Palm Beach Palm Beach Co.	7	10:50 am							Funnel Cloud
Fort Lauderdale Broward Co.	13	8:20 am							Waterspouts (3)
Pensacola Escambia Co.	19	9:50 pm	1/4	Narrow	0	0	3		Tornado
									Tornado hit in the area of the Circle Shopping Center, damaged two stores and several automobiles along the short southwest to northeast path.
West Palm Beach Palm Beach Co.	21	11:05 am							Funnel Cloud
Pensacola Escambia Co.	28	7:38 am							Funnel Cloud
Fort Lauderdale Broward Co.	29	10:00 am							Funnel Cloud
Miami Dade Co.	29	1:02 pm							Funnel Cloud
GEORGIA			None reported						
HAWAII			None reported						
IDAHO			None reported						
ILLINOIS									
Central Illinois	20	6a-6p			0	0	5	0	High winds
									Strong gusty winds, generally from west and northwest, continued during much of 20th. Damage occurred in much of central Illinois but was major along an approximate 75 mile wide path from Moline-Burlington south-east across the state. Wind gusts reached 70 to 82 mph and often continued to gust above 50 mph for five or six hours. Most of damage was to utility lines, buildings or cars from fallen trees or limbs and concentrated in urban areas where trees were most numerous. Western Illinois had most damage in morning and eastern Illinois in afternoon as highest winds moved eastward.
East-central Illinois	27-28	9p-1a			0	0	5	0	High wind, lightning
									Thunderstorms with high winds and lightning caused considerable damage in east-central Illinois. Winds gusting 70 to 75 mph broke some utility poles and caused some building damage. Most damage was from trees and limbs falling on utility lines and buildings. Lightning burned out several transformers. Rainfall amounts were generally 1 to 2 inches east-central and 2 to 3 inches south. Thunderstorms in southern Illinois began about 6 p.m. but damage was more isolated.
INDIANA									
Northwest Indiana	12				0	2	4	0	Wind
									High winds from a low passing through the area damaged several buildings in Lafayette, and aircraft on the ground at South Bend. Two people were injured at South Bend.
IOWA									
Scott, Muscatine, Louisa and Des Moines Counties	12	2:00 a.					5		Windstorm
									Scattered wind damage.
Statewide	20				1	6			Windstorm
									High winds 30 to 50 mph with gusts 60-70 mph. Extreme gust value of 95 mph reported at Muscatine in a cold outbreak spreading across the State beginning shortly after midnight northwest to 9:00 a. m. southeast. Highest winds lasted one to three hours; slowly abating thereafter. Falling temperatures, snow and blowing snow produced near blizzard conditions.
KANSAS									
Pratt County	14	10:30 - 11:00 P.	15	300	0	0	4		Tornado
									A tornado, moving from south to north hit several farms southeast, east, and northeast of Sawyer, causing extensive damage.
Wyandotte County	15	4:30 A.			0	0	4		Lightning
									Lightning did \$25,000 damage to residences in the Kansas City, Kansas area.
Greenwood County	15	5:00 A.	3/4	400	0	0	4		Tornado
									A small tornado, moving from southwest to northeast, hit Rock Ridge Cove on the west side of Fall River Reservoir causing damage to the resort area.
South Central and East Central Kansas	15-17				0	0	4		Rain
									Heavy rains (over 6 inches in some localities) caused significant flooding of the upper Walnut and Whitewater streams in Butler County; damage to roads and bridges was estimated at \$14,000. Record rainfall intensities for periods of 10 minutes to 24 hours for November were established at Topeka on November 15.
KENTUCKY									
LOUISIANA									
Calcasieu Parish	2	12:03 p.							Funnel cloud aloft
									Funnel cloud reported SW of Lake Charles, moving W. Did not touch ground.
Ouachita Parish	19	7:35 a.			0	1	2	0	Thunderstorm
									Monroe: Severe thunderstorm blew oak tree down on automobile, injuring driver
Natchitoches Parish	19	Before 8:00 a.			1	0	0	0	Lightning
									During severe rain, 16-year old boy, while standing beneath large oak tree, was killed when tree was hit by lightning.
St. Tammany Parish	26	Afternoon			0	0	4	0	Lightning
									Covington: Fire started in home when kitchen struck by lightning; spread rapidly before it was discovered; home virtually destroyed.
Avoyelles Parish	27	7:45 p.	5	?	0	1	4	0	Tornado
									Three SE Marksville (Hessmer Community): Tornado blew down trees, damaged garages, and overturned auto; then touched down every 700 or 800 yards over 5-mile path, which curved into Spring Bayou area (NE of Marksville), where house trailer was blown over and 2 fishing camps destroyed. Three houses hit in Marksville area, one girl suffered minor injuries.
Norhouse Parish	27	8:30 p.	?	?	0	0	3	0	Tornado
									One and one-half SSW Bastrop: Sheriff reported small tornado; house knocked from foundation; several surrounding buildings destroyed.

See reference notes at end of table.

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					KILLED	INURED	PROPERTY	CROPS	
MAINE Northern Portion	19-20				0	0	0	0	Glaze
					Icing from freezing rain. No damage reported.				
Southern Portion	26				0	0	4	0	Wind, Rain
					Winds felled trees and limbs, causing power and phone service outages. High waves blown over seawalls at a few coastal locations with some road flooding. Heavy rain, generally 1 to 2.5 inches caused some small streams to overflow their banks. At Bethel washing rains forced a family from their home when its foundation collapsed. Thunder was heard in many places, especially in southwestern Maine, but no damage was reported.				
MARYLAND					None reported				
MASSACHUSETTS State	26				0	0	4	0	Wind, Rain
					Falling trees and limbs broke utility wires in many scattered localities and damaged a home in Haverhill. Many Holiday feasts delayed by power failures. Storm was accompanied by rains varying from less than one to more than two inches. A Route 495 embankment washed out in Andover. Thunder was heard in many localities, but no damage was reported from lightning. At Blue Hill Observatory, in Milton, a 78 mph gust was recorded.				
MICHIGAN Southern and Central Lower Michigan	12	1:00 p. - 7:00 p.			0	4	4		High winds
					High winds estimated up to 75 mph caused heavy damage to numerous buildings under construction. Large plate glass windows in several stores in Battle Creek area blown in and destroyed by high winds. Numerous trees, topped due to high winds caused damage to buildings, cars and homes, and blocked some roads and streets. TV antennas were blown down. House trailers blown over and damaged. Woman injured at Lapeer when her house trailer was capsized by the high winds. Two students at Michigan State University received cuts and bruises when struck by toppled steel grating due to high winds. Construction worker injured while working on wall of new building which was blown down due to high winds at Kalamazoo.				
Southwestern Lower Michigan	15	1:00 p. - 5:00 p.					4		Thunderstorms with high winds and lightning
					Home destroyed by lightning induced fire in Pennfield Township near Battle Creek. House and contents damaged by fire due to lightning in Emmett Township in the Battle Creek area. Large modern farm barn and contents of hay and equipment destroyed by lightning induced fire near Coloma. High winds blew in and destroyed several large plate glass windows in stores.				
Southwestern Lower Michigan	20	Evening				5			High winds
					High winds caused heavy damage to two large apartment housing developments in Benton Harbor. Ten large plate glass windows were blown in and destroyed in the downtown Benton Harbor area. Numerous trees were toppled with resultant damage to buildings and homes in the area.				
MINNESOTA Rochester, Olmsted County	3	11:43A			0	0	3	0	Hail
					Hail up to one inch in diameter fell for several minutes. Reported damage light.				
MISSISSIPPI Coahoma County	19	7:35 a.	?	?	0	0	4	0	Tornado
					Just S of Clarkdale (34°12' N Lat., 90°36' W Long.): Small tornado damaged 3 crop-dusting airplanes and shop building; blew away 1 tenant house, damaged 2 others; partially deroofed farm equipment shed, downed and broke some telephone and power lines.				
Quitman County	19	7:45 a. - 8:00 a.	15	*up to 1/2	0	0	4	3	Tornado
					Damage from tornado in and near Lambert. In most sections, blinding rain preceded storm; no funnel seen but roaring winds heard. Storm moved from SW towards NE. Reported at Belyview Community, 6 SW Lambert. On Highway 3, midway between Vance and Lambert, bus stopped, about 7:45 a., after sighting funnel shaped cloud. Driver said: "It came rolling along the ground, black as soot and a mile wide". Winds lifted bus and moved it some 15 ft. forward and about 8 ft. to the side, to the edge of the ditch. At 6 E Lambert, about 8:00 a., 2 tenant houses blown off blocks and one deroofed, shed blown down. Sheriff reported winds dipped down in Sledge area, taking roof off trailer shed and damaging load of beans. Other minor damage reported in area and utility lines were parted.				
Panola County	19	8:20 a.							Funnel cloud aloft
					Batesville: Funnel cloud observed. Did not touch ground.				
Washington and Sunflower Counties	19	9:00 a.	?	?	0	0	3	0	Tornado
					Tornado touched down at 6 S Shaw, where several houses were damaged, and at Hale Community (12 N Indianola) for 1/2 mile. Tornado funnel was observed moving from SW towards NE; turned school bus sideways on highway; uprooted several trees, and damaged several roofs.				
MISSISSIPPI (Cont'd.) Claiborne County	27-28	p.-a.			0	0	4	0	Thunderstorm, heavy rain, hail
					Sluggishly-moving thunderstorm brought heavy rains, flooding lowlands before daylight. Cattlemen rounded up livestock and drove them to higher ground. Some road damage. Big Black River ferry knocked loose from its moorings by swift current and driftwood. Hail pounded roofs like rocks and many roofs damaged by hail and/or rain. In Port Gibson, 9.73 in. precipitation fell within about 10 hours; several residents in low areas were evacuated.				
MISSOURI Richmond, Ray County	11	10:15 pm							Windstorm
					A three-story brick wall, (remaining after a previous fire) was blown over, damaging two nearby buildings.				
Richmond, Ray County	15	3:00 am					4		Thunderstorm
					Lightning set two store buildings on fire. Several basements flooded. 3.85 inches of rain reported by cooperative observer.				
Kansas City, Jackson County	15	2:00 am							Thunderstorm
					Disk-shaped hail, 3" x 1-1/2" reported falling among pea-sized hail.				
Forest Park, Jasper County	19	early morn					4		Windstorm
					Large barn heavily damaged. Concrete block from damaged wall found lying in hay mow, on ground and on floor of barn. Roof not damaged.				
Camden, Camden County	27	4:30 pm					4		Thunderstorm
					Wind and hail damage to buildings and cars. Some hail stones as large as goose eggs.				
Mexico (near), Audrain County	27	during day					4		Windstorm
					A 10 x 15 foot house trailer blown 75 feet and demolished.				
Bridal Cave, Camden County	27	late afternoon							Thunderstorm
					Hail 2-1/2" diameter.				
Farmington, St. Francois County	27	late evening					4		Thunderstorm
					Wind damage to buildings and trees.				
Houston, Texas County	27	7:12 pm					4		Thunderstorm
					Two house trailers were overturned.				
MONTANA Southeast Corner	11-15		130	*100	0	0	0	0	Heavy Snow, High Wind
					Snow began the afternoon of the 13th and continued through the 15th. High wind caused considerable snow blowing and drifting. Cattlemen and ranchers were unprepared for such an early storm which caused difficulty in feeding and moving cattle to winter ranges. Temperatures were relatively mild considering the severity of the storm so livestock losses were very light. Snow depths up to 24 inches and 4- to 5-foot drifts hampered surface traffic. Many automobiles were stalled in the Broadus area. Most county roads were blocked for several days after the storm.				
NEBRASKA Eastern Nebraska	19-20	Late Night & early morning			0	0	5	0	Damaging Winds
					Strong sustained winds over eastern Nebraska toppled trees, signs, etc. Gusts were measured in excess of 70 MPH. The stronger gusts overturned house trailers, sheds and storage tanks, etc. A number of large masonry walls at various construction sites were leveled.				
NEVADA					None reported				

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS							
OKLAHOMA (Cont'd.) McCurtain and LeFlore Counties	17-19	Noon, 17th - 5:00a., 19th	80	*30					Rain.	TEXAS (Cont'd.) Bono Johnson Co.	19 12:00 a	**100	50	0	0	?	?	Tornado							
									Heavy rains over the southeast provided totals of 3.25 to 4 inches across McCurtain County and 3.25 to 5.75 inches across LeFlore County.									A small tornado cut a path about 50 yards wide through the Bono community about six miles west of Cleburne around midnight. The tornado partially unroofed a barn and two smaller out-buildings on the E. D. Johnson farm. Mr. and Mrs. H. C. Baker, who live just east of the Johnson farm, said they heard the wind roaring "like a freight train, and their windows rattled, and they thought they were going to pop out."							
OREGON PACIFIC AREA Angaur Is. and Peleliu Is., Western Caroline Is., Trust Territory of the Pacific Islands	16-17	Noon 16th -3:00 p. 17th		None reported	1	4	°5	C	Typhoon	9 S Infilin Angelina Co.	19 6:24 a	short narrow	0	0	4	0	Tornado								
									Typhoon Louise formed east of the Palau Islands and moved west northward across Peleliu and Angaur, southernmost of the group, with maximum winds exceeding 120 knots. Angaur (pop. 4300) was within the eye for 45 minutes. Trust Territory and municipal facilities and 90% of homes on that island were leveled, with only a USMC loan station and a church left standing. Peleliu (pop. 600) was even harder hit, with destruction estimated at 97%. Crops and other vegetation on both islands were almost totally destroyed by wind and salt water. On Koror, about 30 miles north of the typhoon center, 15% of the government facilities and 30% of private dwellings were destroyed or severely damaged.												A small tornado gipped into the Beulah community nine miles south of Infilin on Farm Road 58. Several houses were damaged and two or three barns destroyed. The tornado passed between the Thompson and Ellison homes which stand about 150 yards apart. The Ellison home was moved about five feet from its original location. Mr. Ellison's parked car was turned completely around and pointed in the opposite direction. A heavily wooded area separating the two homes was clogged with toppled timber.				
									Typhoon Louise then went on to strike the Philippines a devastating blow, killing hundreds and leaving a hundred thousand homeless.	Normangee Leon and Madison Counties	19 4:45 p	**600	300	0	0	4	0	Tornado							
PENNSYLVANIA				None reported														A tornado cut a swath about six blocks long and three blocks wide through Normangee severely damaging a motel, and destroying one garage completely. Other buildings were extensively damaged. Witnesses reported that it appeared that only the tip of the tail of the funnel touched down with the full strength of the tornado remaining above house top level. The noise accompanying the funnel was described as similar to a jet airplane. Wind damage also occurred at Flynn, Leona, and Centerview. The storm moved from southwest toward the northeast.							
PUERTO RICO				None reported						UTAH Utah, Salt Lake, Davis, Weber, Box Elder and Cache Counties	15-16 p.m. 15 through a.m. 16				0	3	6	0	Wind						
RHODE ISLAND				None reported														Strong canyon winds along the western slope of the Wasatch Mountains from Provo northward to the Utah border caused over \$1,000,000 damage. This was one of the most damaging wind storms ever recorded in the state. Average velocities of 53 mph were reported at the University of Utah with gusts to over 80 mph. Hill Field reported gusts to 76 mph at 4 a.m. Monday morning with damages estimated in the order of \$150,000. Utah State University at Logan reported very heavy damage. A spire on a local church was blown off and fell through the roof doing over \$50,000 damage. Six trailer houses were destroyed or severely damaged and the roof was blown off a new student housing center. Several aircraft were seriously damaged in Box Elder County. Buildings, trees, signs, automobiles and trailers in the Ogden area were damaged to the tune of nearly \$400,000. Schools were closed in Weber County because of windows being broken so badly that schools could not be heated. The highway between Ogden and Salt Lake City in Davis County was closed for several hours to trucks and trailers after a large trailer was overturned. Damage in Salt Lake and Utah Counties was not as extensive as further north but power was disrupted, windows broken and a few buildings damaged.							
Statewide	26-	9:00 p., 26th- 8:00 a., 27th			0	0	4	0	Wind, rain																
									A severe windstorm accompanied by heavy rain caused local power failures. Major wind damage to a building under construction occurred in Coventry, Kent County.																
SOUTH CAROLINA				None reported						VERMONT Northern Portion	16 AM				0	0	0	0	Glaze						
SOUTH DAKOTA				None reported															Icing from freezing rain. No damage reported.						
TENNESSEE				None reported						Northern Portion	18 Early AM				0	0	4	0	Wind						
Lafayette	5	10:00 A			0	0	4	0	Lightning										Gusts to 62 mph measured at Burlington at 12:30 A.M. Many limbs and trees felled, with power and phone lines downed. Autos damaged by falling trees. Some plate glass broken.						
									Fire, presumably started by lightning damaged the home of F. Ferrigo. Damage estimated at between \$6,000 and \$7,000.																
Memphis	19	8:00 A			0	0	?	0	Thunderstorm	U. S. VIRGIN IS.									None reported						
									Thunderstorm winds of 38 mph with gusts to 53 mph measured at Memphis Airport. Strong winds damaged new building construction at the Memphis Metropolitan Airport Industrial Park.	VIRGINIA										None reported					
TEXAS										WASHINGTON									None reported						
Hondo Medina Co.	3	7:00 p- 7:20 p	1	300	0	0	?	?	Hailstorm	WEST VIRGINIA									None reported						
									A hailstorm damaged roofs on about 14 homes in Hondo. Some required completely new roofs. Trees and small vegetation were stripped of leaves, and a few automobiles were dented by the hailstones which averaged about one inch in diameter. Pecan orchards were self-threshed. Winds estimated at 40-50 miles per hour accompanied the storm.	WISCONSIN												None reported			
San Antonio Bexar Co.	3-4	10:00 p- 5:00 a			0	0	?	?	Heavy rains, flooding	WYOMING									None reported						
									Heavy rain caused flash flooding in sections of San Antonio, forcing families from their homes. Flooding occurred at Meadow Wood Acres with water at least three feet deep over a three block area. Four houses were completely inundated. Ten homes along Zavalla Street were partially inundated and several automobiles were submerged. Normally dry Olmos Dam had 17 feet of water at its base. Firemen rescued at least 30 persons from the waters of Alazan Creek during the night. Several families were rescued from the Mayberry Community by boat. The Weather Bureau measured 2.62 inches of rainfall. 4.55 inches was reported unofficially at Las Palmas.																
Denton, Montague, and Tarrant Counties	17-18				2	0	?	?	Heavy rains, flooding																
									Heavy rains brought floods along the West Fork of the Trinity in Denton and Tarrant Counties; two persons drowned in swollen creeks feeding into the West Park. Heaviest rainfall was noted on the Trinity River's Prairie Branch near Bowie in Montague County where 6.25 inches was measured. One woman drowned when her car was swept off the road by the swollen waters of Duck Creek, in northwest Denton County. At Elless, near Fort Worth, a man drowned when swept down Big Bear Creek while trying to retrieve his sister's car which had been washed off a road. There was about a foot of overflow along Big Fossil Creek in the Richland Hills suburb of Fort Worth, but no residences were flooded. Water entered homes, stalled cars, and blocked several streets in Bowie in Montague County. Brushy Creek, near Sunset, flooded sections of Farm Road 2749. Property damage from flood waters was thought to be minor.																

- ° 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 \$5,000,000
 - 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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