

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

STORM DATA

DECEMBER 1964

Volume 6 No. 12



ASHEVILLE: 1965

STORM DATA AND UNUSUAL WEATHER PHENOMENA

DECEMBER 1964

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									
Butler Springs Community, Butler County	24	7:35p	5	?	0	0	4	0	Tornado
Tornado struck first in Butler Springs Community demolishing a frame church and damaging several houses. Storm moved northeast across Highway 10 destroying several barns, chicken houses and blowing down trees and power lines.									
Bullock County	24	8:30p			0	0	4	0	Winds
High winds in northern portion of County caused scattered damage in rural areas. Several barns blown down or unroofed, three houses damaged, trees uprooted and power lines down.									
Foley, Baldwin County	24	9:15p	2	100	0	0	4	0	Tornado
Tornado struck west of Foley moved northeast across northern portion of town to Wilson Airport. Two houses demolished, twelve houses had extensive damage and several minor damage. Several commercial buildings damaged and at Wilson Airport five planes destroyed. Extensive damage to power and telephone lines by uprooted trees.									
Open Pond, Covington County	24	11:30p	20	300	0	0	4	0	Tornado
Tornado cut a swath through Conecuh National Forest and moved northeast toward Opp where high winds caused minor damage to several houses and buildings.									
Crawford, Russell County	26	12:30p	?	?	0	0	1	0	Tornado
Tornado dipped down demolishing one house and damaging several others.									
Brushey Creek Community, Butler County	26	10:00a	?	?	0	0	3	0	Tornado
Tornado dipped down and destroyed numerous farm buildings and damaged one house. A furnace weighing several hundred pounds was carried several hundred feet by the wind.									
ALASKA No report received by printing deadline									
ARIZONA None reported									
ARKANSAS									
Magnolia, Columbia County	2	9:45PM	?	?	0	0	0	0	Funnel Cloud
Funnel cloud moved northeast from the Magnolia area.									
CALIFORNIA									
Sacramento	2	1:23 p.							Funnel cloud
Funnel cloud reported by Air Force.									
Fresno 23 SW	2	1:17 p.							Funnel cloud
Funnel cloud reported by Air Force 23 miles southwest of Fresno.									
Long Beach 13 S	18	5:15 p.							Waterspout
Waterspout reported 13 miles south of Long Beach.									
Northern California	18				18	55	8	4	Floods
- Heavy rains last half of December caused severe flooding on streams draining north coast and northern Sierras. New record stream heights and discharges established. For details see Climatological Data, California, December 1964.									
COLORADO									
Eastern Colorado	15	Morning			1	sev'l	6	5	Wind
Strong gusty wind starting mid-morning caused extensive damage over much of eastern Colorado. Winds were strongest along the foothills adjacent to the mountains. The Jefferson County Airport at Broomfield recorded winds of 80MPH with gusts to 94MPH before measuring gear jammed. Other gust readings were: Rocky Flats 51MPH, Littleton and Pueblo 70MPH and Denver (Stapleton) 67MPH. A man working on construction, in downtown Denver, died from injuries after being struck by a 5x8 ft. section of plank runway blown by strong wind. Several persons were blown down by the wind or hit by flying objects. Buildings, roads, trees and power equipment were damaged. Top soil was blown away endangering the winter wheat crop. Roads were closed due to blowing dust.									
Mountains and Eastern Colorado	21-	Mon. night 2h			0	sev'l	6	5	Wind
Strong gusty wind beginning the night of the 21st, struck various parts of the state, but was strongest in the mountains and near the eastern slope foothills. Winds of 100MPH were reported in Boulder, Jefferson and Larimer Counties on Monday night and Tuesday. On the afternoon of the 23rd, 125 skiers were rescued from the ski lift in Aspen when gusts to 100MPH endangered operations. Heavy damage to power lines, homes and roads was reported at Evergreen, Golden, Boulder, Longmont and Loveland. Roads were closed by dust storms in eastern Colorado, and mountain passes were closed by blowing snow. Several people were injured by wind-caused accidents.									
CONNECTICUT None reported									
DELAWARE None reported									
FLORIDA									
Fort Pierce St. Lucie Co.	4	4:35 pm							Funnel Cloud
West Palm Beach Palm Beach Co.	14	1:17 pm							Funnel Cloud
FLORIDA (Cont'd)									
Fort Walton - Eglin AFB - Niceville area Okaloosa Co.	25	2:30 am	12	50 to 100	0	4	6		Tornado
One tornado and possibly two additional funnel clouds aloft passed near the Alapaha bridge in Fort Walton Beach moving from the southwest to northeast. Bridge tender reports hearing 3 separate storm passages within a short period. Apparently only one reached ground. Storm lifted and lowered along path and caused property damage in Fort Walton Beach where two residences damaged; at Eglin AFB where numerous vehicles and housing units damaged and 9 warehouses damaged or destroyed; in the Rocky Bayou community near Niceville where 8 residences destroyed and 30 damaged. Width of damaged area varied from near 100 feet at Eglin AFB to more than 400 feet wide at Rocky Bayou.									
Fort Landerdale Broward Co.	28	Late Morning							Funnel Cloud
Key West Monroe Co.	29	8:55 am							Waterspout
GEORGIA									
Southern	3-5				0	0	6	4	Rains
Very heavy rains caused widespread damage to roads, bridges, culverts, farm ponds, farm land and other property in several south-central and southwest counties. Some 24-hour totals exceeded 10 inches and storm totals exceeded 9 inches over a four or five county area. Roads were closed throughout the area and some schools closed for two days or more because buses could not run. Houses were flooded and required evaluation in several areas. Dozens of farm pond dams broke, adding to the flood problem. Washed out or weakened roads caused two train wrecks and disrupted rail schedules. Hardest hit were the counties of Berrien, Cook, Brooks, Thomas and Ogle but damage was reported over a larger area.									
Troup to Newton County	24	9:30 - 11 p	75	300 - 100	0	1	5	0	Tornado
Damage reported at several places along a 75 mile SW-NE path from southeastern Troup County to near Covington, in Newton County. Three residences were wrecked, several smaller buildings demolished and utility lines heavily damaged in the Big Spring Community of Troup County. Next major damage was in the vicinity of McDonough in Henry County, where storm hit 7 miles WSW, about 3 miles north and 1 mile NNE. Two orchards and at least ten other buildings were completely demolished and several other houses were heavily damaged. Many peach trees and hundreds of other trees were blown down. One person was injured. A dairy barn and other buildings were destroyed and 46 dairy cows were killed near Covington. Scattered tree damage was reported at other points along the storm path.									
Near Greenville, Meriwether County	24	9:30 p			0	0	3	0	Wind and Hail
Hail the size of tennis balls fell over a small area damaging roofs of several houses and a number of automobiles. High winds with sound of "several jets" also reported. This was near path of previous storm and may have been the same.									
Worth to Irwin County	25	3:30 - 4:15 p	20	300	0	3	5	0	Tornado
Storm first hit in Sumner area of Worth County where several buildings were destroyed or damaged and three people were injured. Trees were uprooted, utility poles snapped off and an automobile and tractor were demolished. About forty-five minutes later the storm hit in the Irwinville area of Irwin County 20 miles to the northeast. Several buildings were unroofed and many trees were blown down in the Jeff Davis State Park. Telephone and electric service was disrupted.									
Cordale, Crisp County	25	7:00 p	1	300	0	0	4	0	Tornado
Roof blown from National Guard Armory and several stores damaged as storm hop-scopped over parts of Cordale. Trees uprooted and dozens of TV antennas blown down.									
Southwest of Atlanta	25	7:55 p							Funnel Clouds
Pilot reported hooks or funnels appeared to be hanging from clouds 25-30 miles southwest of Atlanta.									
Crawford to Hancock County	26	Mid - 1:30 p	60	100 - 800	2	16	6	0	Tornado
Storm hit several points along five county 60 mile WSW - ENE path from near Roberts in Crawford County to the southern part of Hancock County. Two people were killed and several injured 7 miles north-northeast of Macon in Jones County where five house trailers were demolished and a store-service station was wrecked. Heavy timber damage much of the way from this point to Milledgeville where storm apparently passed just above ground. Roofs of several buildings at Woman's College of Georgia and Georgia Military College were heavily damaged. A high school and one department store were also unroofed and many homes suffered roof damage. Hundreds of trees were blown down or snapped off. Damage covered a 3-block wide and 7-block long area in downtown Milledgeville and a larger area in western outskirts. Last damage was reported in southern Hancock County.									
Centerville 15 miles NW	26	2:30 p							Funnel Cloud
Reported by Centerville Police Chief.									

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
GEORGIA (Cont'd)										LOUISIANA (Cont'd)										
Augusta 25 miles N	26	2:52 p							Funnel Cloud	Rapides Parish	10-11				0	0	4	0	Heavy rain	
			Reported over Clark Hill Reservoir by Pilot.																Heavy rains damaged streets, farmland, and property. Houses flooded in two Alexandria subdivisions. About 65 families abandoned homes; 35 other families evacuated. Water up to two ft. deep in some houses; up to six ft. water reported in Fulton Street underpass. Several highways under water for a while, and ditches overflowed across Highway 1 between Alexandria and Marksville to depths up to one foot. Rain totaled 6.18 inches at Alexandria Weather Bureau Airport Station in 24 hours, and 7.75 inches at Forest Hill. At Hinton, the Calcasieu River rose seven ft. in 24 hours with minor flooding.	
Macon	26	3:15 p			0	0	3	0	Hail											
			Hailstones one inch in diameter.																	
Columbus	26	4-5 p			0	1	4	0	Hail and Wind											
			Hail 3/4 to 1 1/2 inches in diameter reported. Also one person injured and several buildings damaged by windstorms in area.																	
HAWAII																				
Northwestern Maui	19	night			0	0	5	5	Rain	MAINE										
			Local flash flooding in the Napili and Honouliuli areas of northwestern Maui caused water and mud damage estimated at \$150,000 to the grounds and buildings of the Napili Kai Beach Hotel and of \$100,000 to the Maui Pineapple Company, half in real property and half in crops.							Southwestern sections	1	Daylong			0	0	4	0	Wind	
Waianae Valley, Oahu	23	early a. -6:30 p.			1	0	0	C	Rain											
			Prolonged rains, especially intense near Waialua and in the Makaha-Waianae area of leeward (western) Oahu, swelled streams, washed out small bridges, inundated 50 homes, and in Waianae Valley, caused the death of a young child by drowning.							Eastern sections	1	Daylong			2	0	4	0	Blizzard	
IDAHO			No report received by printing deadline																	
ILLINOIS																				
East-central	3-4	6p-9a			0	0	4	0	Glaze	Southern	3-6				0	0	3	0	Glaze, sleet and snow	
			Freezing rain and drizzle during the evening of the 3rd and morning of the 4th coated wires and trees from 1/2" to 1". High winds increased damage as both utility poles and wires snapped and tree limbs were broken. In some areas all TV antennas were down. Power and telephone service was disrupted for six hours to two days. Hardest hit were Mahan, Ford and Iroquois Counties and portions of Dewitt, Platt, Champaign and Vermillion Counties.																Periods of glazing from freezing rain or drizzle occurred on the 4th and 5th, with periods of sleet on the same dates. Glazing was most extensive in extreme southwestern Maine. Precipitation was primarily as snow, with storm totals mostly from 10 to 18 inches during the four-day period. Less snow, mostly 4 to 10 inches, and little or no glaze, fell over northern Maine.	
INDIANA			None reported																	
IOWA			None reported																	
KANSAS			None reported																	
KENTUCKY																				
Central	24	evening			0	0	50	C	Wind, electrical, hail											
			Scattered thunderstorms occurred over many of the central counties, those causing reported damage occurring in general between 6 p.m., December 24 and 2 a.m., December 25 in the counties of Fayette, Jessamine, Boyle, Taylor, Green, Russell, Barren and Clinton. High winds with gusts to 52 m.p.h. were reported in Laurel County. In Fayette County, fire apparently set by lightning destroyed a tobacco barn. In Jessamine County, wind blew down a barn killing 38 cattle, partially unroofed a church building, downed a number of utility poles. In Green County two storms, at 6:30 and 9:30 p.m. were responsible for a church building and several barns blown down damage to other structures and trees downed; in one area hailstones nearly the size of golf balls fell for about 5 minutes, covering the ground. Some of the damage caused by high wind in other counties consisted of damage to farm buildings and residences in Russell County; roof off store building in Clinton County; a house trailer destroyed and miscellaneous other damage in Boyle County.																	Periods of glazing from freezing precipitation reported in various portions of state.
LOUISIANA																				
Bossier Parish	2	Before 8:25 p.							Turbulence aloft	MARYLAND										
			Pilot reported extreme turbulence 35,000 - 30,000 ft., 25 N Shreveport (32.9° N. Lat., 93.9° W. Long.) had to use afterburner to get out.							MASSACHUSETTS										
Bossier Parish	2	8:55 p.							Funnel cloud aloft	Coastal and Eastern sections	1	Daylong			0	25	5	0	Wind	
			Funnel cloud reported by aircraft radar 28 NNE Shreveport, then visually sighted by another aircraft, B-52, at 30,000 ft.																	
Webster Parish	2	Before 9:45 p.							Funnel cloud aloft											
			Funnel cloud passed over Springhill, (39 NE Shreveport), 33.0° N. Lat., 93.5° W. Long.; did not reach ground; Chamber of Commerce reported no destruction.																	
Jackson Parish	3	4:53 p.	8	?	0	0	3	0	Tornado											
			Funnel cloud aloft, moving from SW to NE, touched down several times, knocked down trees and power lines. First reported on ground 4-1/2 mi. NW Dodge, in wooded area; next over home several miles to NE; last near Ansley, blew down barn on Vernon-Ansley Road. Otherwise no damage to buildings or residences.																	
Rapides Parish	3	7:25 p.	?	?	0	0	?	?	Tornado											
			Public reported tornado briefly touched ground 1 NW Deville, (31.3° N. Lat., 92.3° W. Long.).																	
St. Landry Parish	3	Night	?	?	0	0	3	0	Tornado											
			Tornado dipped in Plaisance community, 6 NW Opelousas; demolished new metal building 160 x 38 ft. strewn pieces onto highway and damaged fence nearby.																	

See reference notes at end of table.

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					KILLED	INURED	PROPERTY	CROPS		
MASSACHUSETTS (Cont'd) State										
Western portion	11				0	0	0	0	Glaze	
State	27-28				0	0	2	0	Glaze	
State	29-30				0	0	0	0	Glaze	
State	31 P.M.				0	0	4	0	Wind	
MICHIGAN										
MINNESOTA										
MISSISSIPPI Lawrence County	3	6:00 p.								Turbulence aloft
Boliver County	10-11	Night-11 A.M.			0	0	4	0	Heavy rain	
State	17-18-19				0	0	5	?	Sleet, freezing rain	
East Central Division	24	Night			0	0	4	0	Wind	
MISSOURI										
MONTANA										
Turner (112 miles north) Blaine County	1	Late evening			?	?	1	0	0	Blizzard
All Montana	5-16	Early morning	500	*300	1	2	6	0	High wind, blowing snow, severe cold	
NEBRASKA										
NEVADA										
Carson, Susan and Truckee River Drainages	21-22				1	?	5	3	Heavy rain, flood and wind storm	
Humboldt and Elko Counties	22-23				0	9	5	0	Wind storm	
NEW HAMPSHIRE Southern and central sections	1	Daylong			0	0	4	0	Wind	
Central and Southern portions	3-6				0	0	3	0	Glaze, sleet, snow	
State	11				0	0	0	0	Glaze	
Southern portion	17	P.M.			0	0	0	0	Glaze	
NEW JERSEY										
NEW MEXICO										
NEW YORK										
East Central	4-5	early a.m. of 4th to late p.m. of 5th			1		6		Freezing rain	
Saugerties, Ulster County	31	early a.m.					5		Wind	

See reference notes at end of table.

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DELAYED DATA

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					KILLED	INJURED	PROPERTY	CROPS	
TENNESSEE (cont'd)									
Middle-East Tennessee Counties	24-25	p.m.			0	0	?	?	Wind
Numerous localities experienced rain which caused damage to homes, farms and utilities. In the Manchester area; as an example, the strong winds were described to have lasted only a minute or so, and came like a great breath in the middle of a heavy rainfall.									
Nashville Area, Davidson-Williamson County	25	p.m.	Short Narrow	0	0	6	0		Tornado
Tornado apparently first touched down in the Whispering Hills section about 7 miles southwest of Nashville Airport and moving in a northeast direction to the vicinity of One (1 mile southeast of Airport) the storm inflicted damage in a hit and miss fashion and in varying widths along its path, the width varying from less than 1/2 mile to only a few feet. Heavy rains flooded low-lying places in the area.									
TEXAS									
H N Ellington AFB Harris Co.	3	12:56 p-12:58 p							Funnel aloft
UTAH									
Northwestern Utah	23-24				0	1	4	3	Rain, flood, wind
Heavy rains from intense storm resulted in minor flooding in Northern Utah with damage to highways, public utilities and private homes. In Cache and Morgan Counties, lower homes were flooded and fields and highways inundated. Flood waters forced power company to blast diversion dam on Weber River and two large trucks were destroyed by flood. Spotty winds overturned trailers near Wendover and broke windows in highway patrol station. Also overturned trailer near Todele, doing considerable damage, blew down a sheep shed and destroyed 500 bales of hay near Grantsville.									
Mountains Northwest-ern Utah	27				0	0	4	0	Mud slides
Mud and rock slides from rain softened canyon walls in Weber Canyon, destroyed two homes and took out 150 feet of power production pipeline. Other slides blocked highways in Big Cottonwood Canyon.									
VERMONT									
State	3-6				0	0	3	0	Glaze, sleet, snow
Periods of freezing rain or drizzle and of sleet occurred mainly on the 4th and 5th but in a few areas in southern portion on the 3rd and at a few stations on the 6th. Glazing caused very hazardous roads and walks, with many minor accidents resulting. Ice coatings on trees and wires did not reach seriously damaging proportions. Precipitation was mostly as snow. Snowfall totals ranged mostly from 6 to 12 inches.									
Southeastern portion	17	P.M.			0	0	0	0	Glaze
Glazing from freezing rain occurred in several communities.									
U. S. VIRGIN IS.									None reported
VIRGINIA									None reported
WASHINGTON	16-23				1		7		
A series of events, including a cold wave on the 16th and 17th, heavy snowfall from the 19th through 21st in all areas of the State, followed by a rapid rise in temperature and heavy rainfall across the southern section of the State on the 22nd and 23rd, resulted in extensive flood damage in southeastern counties and some losses near the Columbia River in western Washington. Highway and railroad bridges were washed out isolating some communities several days. An estimated ten homes were damaged extensively or destroyed, 40 received major damage and 190 others received minor damage when basements were flooded. Slides occurred in many areas.									
WEST VIRGINIA									
Bruceton Mills	25	3:45 a.m.			0	0	4	0	Tornado
WISCONSIN									
Statewide	4-15	Continuous			0	2	5	0	Windstorm
Very high winds throughout the state did considerable damage to signs, trees, house-trailers, etc. A Cheyenne woman was injured when a tree was blown over onto her car. A man was injured when wind turned over the house-trailer he was pulling south of Laramie. Worst damage was in the Casper and the Lander-Riverton area.									
Statewide	21-22	Continuous			0	1	5	0	Windstorm
Very high winds throughout the state did considerable damage again to signs, trees, house-trailers, windows, etc. A Casper woman was injured when a gust of wind threw her against a retaining wall.									
KANSAS									
Pawnee and Rush Counties	Jun. 14	1964 7:00 p.							Funnel cloud, hail, high winds
Marble sized hail stones driven by tornadic winds took a heavy toll of wheat fields and damaged buildings in northwestern Pawnee County. A funnel cloud was observed in the same area.									
Northeastern Counties	14	8:00 p. to 9:20 p.							1 tornado, hail, 2 funnel clouds, heavy rain
Severe storm conditions resulted in damage at a number of points. Hail destroyed wheat near Cawker City. Near Concordia, hail 3/4 inch in diameter was 2 inches deep on the ground. A tornado at 9:00 p. was reported 1 mile south of Wasego. At 9:20 p. a funnel was sighted 3 miles northeast of Rossville. About 9:30 p. another funnel was reported from 3 miles east of Maple Hill.									
Barton and Reno Counties	14	8:00 p. to 8:20 p.							Funnel cloud, hail, high winds
About 8:00 p. gusts of wind up to 65 mph with hail were reported from Great Bend. A funnel cloud was observed at 8:20 p. near Hutchinson.									
Sedgwick and Harvey Counties	14	11:59 p.				11	4		Severe winds
Three trailer homes were completely wrecked 1 mile east of Maize, and most buildings in the area suffered some structural damage. Eleven persons were injured when the trailer homes were demolished. Utility lines were broken.									
Marshall and Pottawatomie Counties	21	Evening							Funnel aloft, hail, rain, flash flooding
A funnel aloft was reported by the Highway Patrol just north of Wasego. Hail caused considerable damage in the Blue Rapids area. Heavy rain from recurring thunderstorms in the Clay Center - Fack - Centralia - Ravensville area caused flash flooding at Frankfort and Winkler. Soil erosion and crop damage was substantial.									
McPherson County	26	Night							Hail, winds
Hail, accompanied by strong winds caused damage to crops, gardens, and buildings from near Marquette to a point 1/2 way between Imman and Comay.									
Clay County	28	Afternoon and evening							Hail, wind, rain, lightning
Hail up to 3/4 inch or more in diameter fell at Clifton in the afternoon. Several other localities had damage to property, crops, and power and telephone lines from the storm. Heavy rain caused some flooding in and near Clay Center.									
Pinney County	29	5:24 p.					5		Lightning
Lightning knocked out two transformers in Garden City causing \$80,000 to \$100,000 estimated damage.									
Saline County	30	4:00 p.					4		Wind, hail
Strong winds blew down a drive-in movie screen at Salina causing estimated damage of \$15,000. Hail ranging in size from golf balls to as big as baseballs fell north of Salina in a narrow zone 1/4 mile wide causing damage to homes, autos, gardens, etc.									
NORTH DAKOTA									
Wyndmere to Kindred	8	6:30PM	35	?	0	0	5	0	Tornado
Funnel clouds moving across the area touched down intermittently.									
Sanborn	11	7:30PM	2	?	0	0	2	0	Tornado
Tornado damaged a car when it was picked up from the road.									
Sels to Heimdahl	13	Night	20	*3	0	0	0	3	Hailstorm
Hailstones one-half to three-fourths inch in diameter.									
Barnes County	18	1:20PM	10	?	0	0	3	0	Tornado
Tornado observed from five miles southwest of Valley City to five miles northeast.									
Fargo	18	Afternoon			0	0	0	0	Funnel Clouds
Watford City	30	Evening			0	0	0	0	Hailstorm
Golf ball size hail reported in the town of Watford City.									
ALASKA									
KANSAS									
Gray County	19	9:00 p.					1		Lightning

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NEW YORK Central and eastern	Aug 31	1964 3:30 p.m. to 7:00 p.m.				1	5	4	Electrical, hail, wind, rain
	Locally damaging electrical storms occurred in central and eastern sections well ahead of and during passage of a cold front, on afternoon of 30th lightning-caused fire destroyed dairy barn and contents at Lyons, Wayne County, while winds caused local damage to trees and power lines at Baldwinsville, Onondaga County. During afternoon of 31st lightning killed 4 cows in pasture and injured man near Canajoharie, Fulton County and caused structural damage to ski lodge near Richfield Springs, Otsego County. Hail caused severe damage to apple crop in Lake Champlain area. Heavy, local rains on afternoon of 31st caused flooding at Walton and Hancock, Delaware County. Cooperative observer at Walton measured 2.55 inches of rain in 40 minutes.								
TENNESSEE Johnson City	Aug 3	1964			0	0	4		Electrical, wind, rain
	Lightning and wind damaged buildings and trees and caused many utility failures. Property damage to Johnson City Power Company was estimated at \$10,000.								
FLORIDA Lockhart Orange Co.	Sep. 1	1964 After-noon					2		Waterspout
	Waterspout dissipated as it hit the lake shore line but did damage shorefront installations.								
Vero Beach Indian River Co.	1	4:39 pm							Funnel Cloud
Pt. Myers Lee Co.	3	After-noon			1	1			Lightning
Titusville Broward Co.	3	After-noon							Funnel Cloud
North and Northeast Florida	9-12				1	8	0		Hurricane DORA
	Hurricane DORA, the first storm of full hurricane intensity to cross into northeast Florida from the Atlantic since Weather Bureau records have been kept, moved inland over St. Augustine about 12:15 a.m. on the 10th. St. Augustine was in the eye of the storm from 12:15 to 1:30 a.m. and recorded a sea level pressure of 28.52 inches. The storm continued westward across north Florida and reached southeast Alabama on the afternoon of the 11th. The storm center then took a sharp turn back toward the east and crossed southern Georgia on the 12th. This storm produced sustained winds of near or slightly higher than 100 mph and abnormally high tides to almost all coastal points north of Daytona Beach during the night of 9-10. Highest sustained winds, from the southwest, and estimated at 125 mph were reported from St. Augustine. Sustained winds of 82 mph were recorded in Jacksonville and this was the first time in Weather Bureau history that winds of full hurricane force have been observed in Jacksonville. Widespread and very heavy rains fell over the interior sections of north Florida during both the westward and eastward passages of the storm center. The measured rainfall during the 4-day period 9-12 was close to or in excess of the 50-year 4-day storm at almost all measuring points in the area between Madison county and the St. Johns river and from about Alachua county northward. Scattered points in this area measured 4-day totals in excess of the estimated 100-year storm. Strong onshore winds of long duration produced abnormally high tides along the Atlantic coast north of Cape Kennedy. Tides reached 12 feet - 4 feet higher than any others known - at St. Augustine and ranged between 5 and 10 feet above normal at most other points north of Daytona Beach. The highest tides were noted north of St. Augustine. Tides caused extensive beach erosion, inundated many beach communities and washed out or undermined many beach roads and residences. Tides along the Gulf coast between St. Marks and Tampa Bay ranged from 2 to 6 feet above normal as gale force winds from the southwest began affecting that area on the 10th and continued through most of the 12th. Tidal flooding along the Gulf coast was aggravated by the heavy rains which produced widespread flooding on most streams emptying into the Gulf. Widespread flooding occurred throughout north Florida as a result of the heavy rains and there were numerous residents throughout the area forced from their homes by floodwaters. Floodwaters closed many roads and caused widespread damage to roads throughout the area. The Santa Fe river rose to record high levels in all reaches as a result of the heavy rains. Wind and tide damage was extensive along the Atlantic coast north of St. Augustine. High winds in the Jacksonville area caused a massive utilities failure. Structural damage to buildings was limited to the coastal areas and the older frame buildings inland. Agriculture sustained considerable damage as a result of the flooding throughout north Florida.								
West Palm Beach Palm Beach Co.	23	11:28 am							Funnel Cloud
Pt. Lauderdale Broward Co.	25	10:13 am							Funnel Cloud
Miami Dade Co.	25	12:18 pm							Funnel Cloud
NORTH DAKOTA Fargo	Sep. 26	1964 12:15AM			0	0	4	0	Hailstorm
	Hailstones up to baseball size did considerable damage in the Fargo area.								
TENNESSEE Cookeville Area Putnam County	Sep. 28-30	1964			0	0	?	?	Rain, lightning, flooding
	Heavy showers in area with 24-hour amounts up to 6 inches caused some damage to roads and crops. Crop damage limited to fields cultivated on slopes of hills. Scattered minor damage from lightning occurred.								
ILLINOIS KENTUCKY Grayson County	Oct. 29	1964	None reported						Electrical
	During a thunderstorm in the Millerstown community a man received a rather severe electrical shock when lightning ran in on a circuit as he replaced a fluorescent light bulb in a tobacco barn.								
ALASKA Bethany Beach	Nov. 26	1964	None reported						

CORRECTIONS

INDIANA Princeton	Jun. 7, 1964	DELETE FROM JUNE DATA, OCCURRED IN JULY.							Tornado
DELAWARE Bethany Beach	Aug. 26, 1964	This location was omitted from the report in the August issue.							

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

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

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USCOMM-WB-Asheville, N. C. -1/15/65-1200