

U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

WEATHER BUREAU

F. W. Reichelderfer, Chief

STORM DATA

JUNE 1963

Volume 5 No. 6



ASHEVILLE: 1963

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
ALABAMA									
Atmore, Escambia County	15	2:30 p.m.			0	0	4	0	Thunderstorm
Wind uprooted trees which damaged a house and a house trailer. Hanger at airport damaged and several houses had damage to roofs.									
Alabaster, Shelby County	22-	Night			0	0	4	3	Rain
23d Very heavy rains caused local flooding. Dam for 1 1/2 acre lake broke sending a wall of water into portions of Alabaster. About 32 houses, 20 farm buildings and 12 businesses were damaged by high water. Flooding in Saginaw and Pelham Communities also. Roads and highways were closed for a few hours.									
ALASKA									
No report received by printing deadline									
ARIZONA									
None reported									
ARKANSAS									
Yellville, Marion County	14	Late afternoon	15	* 6	0	0	3	4	Rain and Wind
Storm affected southern half of County, including Bull Shoals Lake where two boat docks were destroyed.									
Cash, Craighead County	19	Mid-afternoon	3	700	0	0	0	4	Hail
Hail of unknown diameter damaged crops in local areas over the County.									
Manila, Mississippi County	19	4:00 p.	9	* 3	0	0	3	4	Hail
Hail one to two inches in diameter moved along a northeasterly path damaging soybean and cotton crops.									
Lake City, Craighead County	20	3:30 p. to 3:40 p.	?	?	0	0	0	0	Funnel cloud
Funnel cloud moved southeast over the eastern section of the County.									
Stuttgart, Arkansas County	20	7:10 p. to 7:40 p.	2 1/2	25	0	0	0	0	Tornado
Funnel cloud along with small hail and heavy rain developed just north of Stuttgart. System moved southwest and just touched ground for a short period.									
Wynne, Cross County	28	5:00 p. to 6:00 p.	1	880	0	0	4	4	Hail and Wind
Storm developed with wind and small hail damaging crops, particularly as it moved southwest.									
Dermott, Chicot County	28	Afternoon	?	?	1	0	0	0	Electrical
Man struck by lightning as he stood under a tree on a farm two miles south of Dermott.									
Royal, Garland County	29	2:50 p.	?	?	1	0	0	0	Electrical
Man struck by lightning as he stood in the doorway of a barn 10 miles west of Hot Springs. Another man was not injured by bolt of lightning.									
CALIFORNIA									
San Francisco Bay Region and San Joaquin Valley	10				0	2	4	0	Wind and rain
Wind and heavy rain disrupted power, caused local flooding, and was responsible for several traffic accidents. A private plane ground looped in the wind while landing at Stockton.									
Lyons Dam	13				2	0	2	0	Lightning
Lightning killed two boys who had sought shelter from the rain under a pine tree.									
Coachella Valley	21-22				0	0	4	0	Wind and sand-storm
Strong wind resulted in a sandstorm that damaged many cars, trucks, and trailers on main highways; several were overturned by the wind.									
COLORADO									
Western Colorado	1-14				0	0			Lightning
Lightning started fires in the San Juan and Uncompaggre National Forests. On the 1st., 5 acres of timber were burned in the Uncompaggre Plateau. On the 6th., 25 acres of timber were burned near Ignacio. On the 13th. and 14th., several fires were started in the San Juan Forest near Dolores and Norwood.									
Frowers County	4	3:25PM-4:25PM			0	0	4		Wind
Gusty wind overturned a 55 foot house trailer on Highway 60, six miles west of Lamar. The trailer was a near total loss. Several REA power poles were blown down by wind near Hasty.									
Phillips County	5	Evening			0	0	3		Lightning
Lightning killed 13 head of heifers in a pasture near Holyoke.									
Phillips County	8	Afternoon			0	0	0	4	Hail
Hail caused heavy damage to crops in an area northeast of Haxtun and destroyed crops southeast of Holyoke.									
COLORADO (Cont'd)									
El Paso, Jefferson and Weld Counties	14	Evening			0	2	* 4	C	Lightning & rain
Electrical storms accompanied by heavy rain and hail damaged streets, roads, and power lines. In Colorado Springs, 6000 phones were put out of order. Greeley had some hail and flood damage. In Lakewood, a woman was stunned by lightning when the chimney to the home was shattered. In Colorado Springs, an 11 year old boy was swept into a culvert by a wall of water. A neighbor boy tossed a lawn hose to him and pulled him to safety.									
Eastern Colorado	15-16	Afternoon			0	1	* 6	C	Heavy rain & hail
Hail and heavy rain driven by high winds occurred in scattered areas from the foothills to the eastern border, the most severe in Denver and adjacent areas. In southeast Denver, heavy rain flooded homes and streets. Hail stripped trees and plants and drifted to depths of 3 to 4 feet in some areas. Flood water on the Valley Highway was 19 feet deep in places trapping many cars. Many creeks were out of their banks. In the Arkansas Valley, from Pueblo eastward, high winds to 75MPH with rain & hail did much damage to property and crops. Lightning struck and injured a man in the area about 16 miles north of Colorado Springs. He suffered first degree burns on his chest, back and legs. In Weld County, sugar beets, corn, grain and alfalfa were damaged by flooding and hail. The storms began in the afternoon of the 15th. and continued through the 16th. Snow fell in the mountains closing Trail Ridge, Mt. Evans and Pike's Peak roads. Estimated damage 70% flooding and 30% hail.									
Eastern border, Yuma to Frowers Counties	21	Evening			0	0	* 5	C	Wind & heavy rain
Strong gusty wind in the Chayenne Wells and Joes areas damaged property and crops. Heavy rain in the Holly area inundated roads, and washed out irrigation ditches, and flooded crops.									
Yuma and Frowers Counties	28	Afternoon			0	0	* 5	C	Wind, hail & rain
Strong gusty wind blow over or moved buildings from foundations and damaged unharvested crops. In northeastern Yuma County. Heavy rain and hail damaged property in the lower Arkansas Valley. Between 2 and 4 inches of rain fell in the Bristol, Granada and Hartman area in Frowers County, inundating bridges and roads.									
CONNECTICUT									
Stafford Springs, Tolland County	14	3:30p - 4:00p			0	0	0	0	Hail
Hail up to 1 inch in diameter. No damage reported.									
Southwestern Connecticut	15	8:00a - 9:00a			0	0	4	0	Electrical, rain
Series of thunderstorms swept area. Torrential rains of 2.76 inches caused road washouts and street flooding in Danbury. Lightning strikes disrupted power and phone services in Westport and set several fires in homes in Westport and Bridgeport.									
DELAWARE									
Entire State	10	11 P.M.			0	0	4		Wind, Rain, Electrical
Barn destroyed by wind at Magnolia. Trees and powerlines down in widely scattered areas.									
FLORIDA									
Piney Grove Holmes Co.	1	Afternoon			1	0			Lightning
Miami Dade Co.	3	Afternoon			0	0			Tornado
Funnel cloud touched down briefly in uninhabited area									
Miami Dade Co.	4	Afternoon			0	0			Funnel Cloud
Forest Grove Alachua Co.	4	Afternoon							C Hail
Hail caused extensive damage to tobacco in an area about 2 miles square.									
Miami Dade Co.	5	Afternoon			0	0			Tornado
Tornado touched down briefly in uninhabited area.									
Key West Monroe Co.	6	Afternoon			0	0	2		Tornado
Waterspout came ashore damaging building slightly									
Tampa Hillsborough Co.	6	Afternoon			1	0			Lightning
Lightning charge killed small child in bath tub.									
Lake Seminole Jackson Co.	8	Afternoon			1	0			Lightning
Lightning killed fisherman standing on lake bank									
Tampa Hillsborough Co.	8	Afternoon			1	1			Lightning
Lightning struck workmen while repairing roof.									
West DeCoy Clay Co.	8	Afternoon			1	0			Lightning
Lightning killed swimmer in St. Johns river									
Winter Garden Orange Co.	8	5:30 pm			0	0	3		Tornado
Waterspout from Lake Apopka moved ashore.									

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
FLORIDA (Cont'd)										
Miami Dade Co.	10	Afternoon								Waterpout
Havana Gardens Co.	10	Afternoon			2	21				Lightning
Lightning killed and injured tobacco workers as they were taking refuge in tobacco barn.										
St. George Island Franklin Co.	10				1	0				Lightning
Lightning killed surf fishermen on Gulf coast.										
Pt. Lauderdale Broward Co.	12				0	1				Lightning
Lightning injured person on yacht deck in harbor.										
St. Teresa Manilla Co.	23	6:00 am	Short Narrow		0	0	4			Tornado
Waterpout came ashore from Gulf of Mexico and damaged several residences										
Miami Dade Co.	24	Afternoon								Funnel Cloud
Pine Island Lee Co.	28	Afternoon			0	1				Lightning
Lightning injured fisherman in boat in Gulf of Mexico										
GEORGIA										
Lowndes County, near Clayatville	6	4 p			0	0	0	5		Hail
Marble size hail fell for 20 minutes, heavily damaging or destroying tobacco and other crops on about 15 farms.										
Vidalia, Toombs County	9	11 p			0	0	4	3		Wind, and hail
Winds damaged roofs, uprooted trees and destroyed one small airplane. Hail damaged crops in parts of the county.										
Pulaski, Turner and Wilcox Counties	11	3:30 p			0	0	5	3		Wind, hail and electrical
A severe windstorm caused heavy damage to roofs, trees and utility lines in the Pineview section of Wilcox County and the Finleyson section of Pulaski County. Hail caused damage to crops and killed chickens on at least one farm. A lightning started fire destroyed a warehouse and 1500 bales of cotton at Rebecca in Turner County.										
Thomasville, Thomas County	11	9 p			0	0	5	0		Wind
A brief, but violent local wind storm caused extensive damage in the business and residential sections of Thomasville. Buildings were damaged by the winds and by falling trees. Plate glass windows were shattered in the downtown area and several large neon signs were blown down.										
Fitzgerald, Ben Hill County	11	6 p			0	2	5	0		Tornado
An apparent small tornado moved through several blocks of the downtown area causing heavy damage to buildings, trees and automobiles. Two warehouses were almost completely destroyed and utility poles and lines were blown down. Two people were cut by glass when the entire front of a supermarket was blown out. Witnesses reported seeing a black funnel moving toward the town with the noise of a freight train. The storm was reported to move from the northeast and then turn toward the south.										
Southeast Area	14	evening			0	0	4	4		Wind, rain and electrical
Severe thunderstorms with heavy rain and damaging winds hit several southeast counties during the late afternoon and evening. Roofs of homes and farm buildings were damaged in Coffee, Charlton, Clinch, Liberty and Ware counties. Trees and utility lines were down in several communities and crops, especially tobacco, were damaged by the wind and heavy rain.										
Brunswick, Glynn County	18	12:30 p					3	0		Waterpouts
At least six waterpouts observed in the bay as squalls hit the Brunswick-St. Simons Island area. Wind gusts to 59 mph observed on St. Simons.										
Savannah Area	22-27						5	0		Rain
Serious flooding in many areas of the city resulted from several consecutive days of heavy rains. A city sewerage plant was flooded and streets and roads were heavily damaged. Many homes were flooded and at least 30 families were evacuated. A large number of automobiles and other property were damaged by high water.										
Athens, Clarke County	26						5	0		Rain
Extremely heavy rains over a period of several hours, following about 10 consecutive days with measurable rain, caused extensive flooding of streets, homes and businesses in the Athens area. Streets and culverts suffered heavy damage and one river bridge was washed away. Many automobiles were flooded and at least two were completely destroyed after being washed from streets. Eight persons were drowned when an automobile ran out of control into the swollen Oconee River.										
Cobb County near Marietta	27	late afternoon			0	0	4	0		Wind and hail
Thunderstorm winds damaged two homes, uprooted several trees and demolished five small airplanes. Four planes were torn from moorings and blown into nearby woods and a fifth was smashed by a hangar door. Hail fell for a short period.										
HAWAII										
Idaho Falls area	4	late afternoon								Funnel Clouds
None reported										
Bingham County	7	2:00 p.	1	?				4		Hail
Hailstones 1/2 to 1 inch diameter										
Plano area (Madison County)	8	?						?		Hail
Alfalfa fields badly damaged by hail in area about 6 miles northwest of Rexburg.										
Southeastern counties	14	Midday					5	6		Hail
Hailstorms covering an area about 6 miles wide and 24 miles long, extending northward from the Oneida County line through the Rockland Valley, devastated about 16,000 acres of wheat and 13,000 acres of barley. A reporter stated that "plants were not simply knocked down, they were chopped off as if mowed and were chopped into bits. Even sagebrush was stripped". The storms began about 11:30 a. At Rocatello, where hail struck about 12:45p.m., there was extensive property damage, the greatest single loss being reported at a greenhouse. At about the same time, but far to the southeast, hailstorms were doing extensive damage to alfalfa and grain fields near Montpelier, both at Bennington to the north and Dingle to the south. Hailstones up to 1 1/2 inches in diameter were reported in both the Rockland and Pocatello areas.										
South-Central counties	19	Afternoons & 20 evenings						5		Hailstorms
Crop damage was reported near Oakley, Roseworth, Richfield and Fairfield with hailstones 1 to 1 1/2 inches in diameter some areas. Largest single area affected was a swath 3 miles wide, beginning about 4 miles north of Oakley and extending eastward about 15 miles. Wheat, mixed grains, hay, corn and beans were stripped or beaten into the ground. Hail to a depth of more than 6 inches was reported in the Roseworth area where automobiles were stuck as if in snow.										
ILLINOIS										
Central Illinois	5	evening						?	?	Hail
Scattered but locally heavy thunderstorms damaged crops in 25 or more counties, mostly in central Illinois.										
Northeastern Illinois	7	6-8p						?	?	Lightning, wind, hail
Heaviest damage in northeastern and north central and especially concentrated in Kane, McHenry, Cook and DuPage Counties. Lightning struck nurses' home, at least 2 houses, numerous trees and power lines. Falling limbs and broken trees damaged houses and utility lines. Hail damaged crops in much of area.										
Northeastern Illinois	8	10-11p						?	?	Wind, hail, lightning
Damage also in other parts of Illinois with some variation in time but greatest damage from Chicago north to Wisconsin line in counties bordering Lake Michigan. Two trailers overturned and 20 buildings struck by lightning in addition to wind damage to trees and powerlines. Some hail damage to crops.										
Macon County	10	4:25 p	2	30	0	0	4	?		Tornado, hail
Two parallel paths of damage about 3 miles apart were found. One observer reported "two funnels chasing each other". From viewing point of observer, this would apparently be true. Southernmost path started near Macon County Fairgrounds just northwest of Beccatur and moved slightly north of east for 2 miles with a path width of about 30 yards. Greatest damage was along northern path, starting with trees on west edge of Forsythe and continuing at about 75° heading for 1 1/2 miles with path about 50 yards wide. Lumberyard and several homes damaged. 1" diameter hail reported almost immediately following tornado. This funnel was viewed by several persons as it touched ground.										
Northern and Central Illinois	10	afn & eve						?	?	Hail
Crop damage in more than 40 counties, nearly all counties in central Illinois, many northern counties and some southern. Hailstones 1" or more in diameter reported from Jersey, Macoupin, Pike, Mason and Jackson Counties. In Jersey County one hailstorm in morning was followed by two more during afternoon.										
Cumberland County	13	5:15p	1	200			3	0		Tornado
A small tornado touched briefly and destroyed farm outbuildings about 1/2 mile SE of Jewett.										
Central Illinois	13	evening						?	?	Hail, wind, lightning
Late afternoon and evening thunderstorms produced several lightning strikes, wind damage to trees and utility lines and hail damage to crops. Most wind and lightning damage was minor but area of damage was extensive. Hail damaged crops in about 40 counties with most concentrated damage in central part of state.										
Rock Island County	19	8-10p						4	?	Wind
Squall line thunderstorm in and near Morris. Four reports of major building damage. Broken trees and limbs damaged utility lines, buildings and cars.										

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
KANSAS (Cont'd)									
Clark, Finney and Gray Counties	14	Evening							Hail, heavy rain, wind, 2 funnel clouds
Thunderstorm conditions over southwest Kansas produced a funnel cloud between Dodge City and Copeland and another in eastern Clark County about 7 miles west of Protection. Occasional hail damage was reported. Baseball sized stones fell south of Garden City which damaged a number of homes. High winds broke limbs and trees and overturned a trailer house. Heavy rains flooded roads and necessitated rerouting of several trains on the Santa Fe line.									
Hamilton, Stanton, Grant, Seward, Gray Counties	15	Late evening							Hail
Considerable crop loss from hail was reported locally over these counties. Wind-driven hail left a zigzag damage path across southern Hamilton County and continued southeastward across Stanton and much of Grant County. More than 200,000 bushels of wheat were damaged in Grant County.									
Graham, Rooks, Ellis and Rush Counties	15	Night							Hail
Hail losses up to 100% were reported locally in these counties where less than half the wheat harvest had been completed. Hail was especially severe over 20 farms southwest of Plainville and also southwest of La Crosse.									
Wilson County, southeastern portion	15	10:30 p.-10:50 p.							Hail and violent wind
Heavy hail, some stones measuring 4 inches in length and driven by violent winds, damaged roofs and siding, broke many windows, neon signs and TV antennas. Most houses in Neodesha showed some damage. Great damage was done to crops in the southeast part of the county.									
Labette County	16	12:30 a.-12:45 a.			3				Hail and violent wind
Heavy hail accompanied by severe winds caused damage to roofs, automobiles, windows, signs, power lines and crops in the extreme southeast part of the county at Bartlett and Chetopa.									
Ellis County	16	2:30 a.				4			Electrical
Lightning struck and destroyed a grain elevator and storage barn at Toulon, 6 miles east of Rays.									
Brown County	20	Afternoon							Hail and wind
Crops were damaged, trees broken and some buildings damaged by hail and severe wind from northeast of Fairview to near Pownhattan.									
Hamilton County	22	7:00 p.							Hail and a funnel cloud
A hail storm over the north part of the county caused local crop damage. Lightning flashes revealed a funnel cloud.									
Washington, Marshall and Nemaha Counties	23	Afternoon							Electrical
Lightning struck an electric substation south of Fairview. The resulting damage later caused an electric outage at numerous towns in these counties.									
Atchison County	26	6:00 p.							Hail
Corn was riddled and soybeans flattened and wheat damaged over a 4-square-mile area northwest of Nortonville.									
KENTUCKY									
Eastern Blue Grass Counties	7	Night			1	4	?		Wind, Lightning, Rain, Hail
Thunderstorms occurred over a wide area - with reports coming from the counties of Madison, Fayette, Clark, Bourbon, Nicholas, Fleming, Bracken, Mason, and Lewis. A man was struck by lightning in Fayette County. Lightning damaged utilities at widely scattered locations. There were reports of damage from lightning strikes or from fires set by lightning to at least 7 houses and 2 barns. Hail at a number of locations caused an undetermined damage to crops. Wind caused major damage to 2 planes in Fayette County, and was responsible for downed trees and power lines in a number of locations. Heavy rain was reported at a number of locations and was responsible for washing out plant beds, a newly prepared roadbed, and at least one local flash flood.									
Taylor County	8	12:15 - 2:00 p.	1500	20*	0	0	5	4	Tornado, Wind, Lightning, Rain, Hail
Thunderstorms moved from south to north the full length of Taylor County. A probable tornado passed through the Palestine community near Campbellville; a witness observed a "dark black roll of a cloud that seemed to dip down" as it struck his barn, pushing it off its foundation. In the same vicinity another barn was scattered over several acres, and at least two other barns in the area were destroyed. At the Campbellville airport, 60 m.p.h. wind damaged several planes, and wind and heavy rain tore down a number of National Guard tents. High wind blew down a number of trees and many TV antennas. Lightning struck several houses and utility lines. Hail heavily damaged field crops.									

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
KENTUCKY (Cont'd)									
North Central Counties and Blue Grass Area	10	Night			0	1	5	?	Wind, Lightning
Heavy thunderstorm activity was reported from practically all Blue Grass counties and from several north central counties. In Fayette County, a man was knocked unconscious by lightning. Numerous trees and utility lines and some TV antennas were blown down, and damage was reported to roofs, windows, and farm buildings. At least one house was destroyed by fire set by lightning. Gusts to 58 m.p.h. were recorded at Standiford Field, Louisville; to 54 m.p.h. at Blue Grass Field, Lexington.									
Western, North Central and Southeastern Areas	13	Night			0	0	4	?	Lightning, Wind
Lightning and high winds associated with thunderstorm activity over widely scattered areas caused damage reported from a number of counties - Union, Hopkins, Muhlenberg, Jefferson, Nelson, Washington, Anderson, Harrison, Laurel, and Whitley. Fires set by lightning destroyed at least three buildings, and lightning killed a number of livestock. High wind downed a number of trees and utility lines and some TV antennas in these counties, and leveled at least one barn. A considerable amount of minor damage to houses and farm buildings was reported.									
Eastern Counties, Central Area	21						?	?	Flash Flood
During early morning and the day of June 20, locally heavy showers occurred in the area from Estill County east to near the state border and from Clay and Perry Counties north to Morgan and Johnson Counties, amounts ranging from 1 1/2 to 4 1/2 inches at a number of locations. Some flooding occurred at Oil Springs, Kentucky with bankfull stages most places downstream on Paint Creek. At Denver, Kentucky on Jenny Creek, two houses flooded, with the creek overflowing banks along the creek. Some crops flooded along Jenny Creek in bottoms. Damage light but no estimates have been received on amount. There were a few reports of some overflow onto bottom land adjacent to the Licking River.									
Sturgis County	30	3:30 p.			1	1			Lightning
A woman in the Wheatcroft community was killed by lightning as she sat on a bench under a large tree. Another woman was knocked from the bench but recovered.									
LOUISIANA									
State	12-15								Hot spell
Maximum temperatures of 100° or higher on 1 - 4 days at many locations not in coastal section. On 15th: 108° Winsboro equaled 108° Lake Providence June 29, 1952. These are the highest June temperatures in the state since June 20, 1936 when Dodson had 110°.									
Terrebonne Parish	20	3:00 a.-5:00 p.			0	0	?	0	Heavy rain
Houma had 4.30 inches precipitation. During preceding 3 days 4.67 inches had fallen. Several sections of Houma were flooded with water that stretched for whole blocks and covered the front lawns of many homes.									
Calcasieu Parish	20	Midday							Funnel clouds
Three funnel clouds reported by crop dusters near Vinton.									
Ouachita Parish near Eros	21	Late a.m.			0	0	?	0	Tornado
Tornado touched down once; no extensive damage.									
Richland Parish	21	Late a.m.			0	0	?	0	Tornado
Touched down between Monroe and Delhi; no extensive damage.									
Orleans Parish	25	2:50 p.-3:18 p.			0	0	4	0	Wind
Thunderstorm winds tilted two large A-frame structures carrying high voltage power lines in Michoud area; passage of railroad trains halted. Some motel rooms partially deroofed and water damaged, windows in nearby parked cars shattered; signs damaged, and limbs broken off some trees.									
Plaquemines Parish	25	3:00 p.-4:00 p.							Waterspouts
Large waterspout seen 2 mi. W Pilottown; 2 smaller spouts; none lasted over 10 minutes.									
State	27								Dry spell
Seven parishes East Central Division and 1 parish Central Division approved by USDA Secretary for emergency livestock program because of forage problem, resulting from lack of rain. Remaining parishes these divisions, and 14 adjoining parishes have been recommended for inclusion in the program.									
LOUISIANA									
Plaquemines Parish	27	3:00 p.-4:00 p.							Waterspouts
Two very large waterspouts seen 2 mi. W Pilottown; 1 smaller spout; none lasted over 10 minutes.									
Evangeline Parish	28	3:40 p.-4:15 p.	4	1,000	0	0	0	3	Hail
From 3 mi SW Ville Platte to 1 mi. E about three-quarters ground covered with hail averaging 1/2", some to 3/4"; preceded by intense but short duration wind. Cotton badly damaged.									
Franklin Parish Gilbert	29		**500	200	0	1	3	0	Tornado
Damaged roofs and wrecked several small outbuildings.									

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS	
MAINE Greenville Junction	1	About 2:45 p.	Short	Narrow	0	0	2	0	Dust devil	MICHIGAN Southern and Central Lower Michigan	6	3:00 p. midnite				4	6		Thunderstorms with high winds heavy rains and lightning
Coastal and south-western areas	6	Afternoon			0	0	4	0	Electrical										Heavy rains flooded streets, roads, buildings and homes and backed up sewers causing heavy damage. High winds felled numerous trees with resultant damage to homes, buildings and cars. Numerous lightning induced fires damaged homes and buildings in the area. High winds and lightning cut power lines disrupting service to estimated 20,000 homes. Two men in the Detroit area suffered burns when struck by lightning. Man injured when struck by lightning at Hosherville in Hilledale County and another man was injured due to lightning strike at Burton Township in Genesee County.
Boulton	18	6:30 p.			0	0	3	0	Electrical										
Hancock and York Cos.	27	Early evening			0	0	4	0	Electrical	Lansing	6	6:00 p. midnite					5		Thunderstorms with heavy rains, high winds and lightning
MARYLAND Eastern Shore-Chesapeake Bay Area	2-3	A.M. 2nd P.M. 3rd			0	0	*4	C	Wind, Rain										Record rainfall of 4.35 inches flooded numerous streets, underpasses, basements and buildings with resultant heavy damage. Several roofs of buildings caved in due to heavy rains. High winds up to 70 mph toppled hundreds of trees damaging homes, buildings and cars. Buildings under construction suffered wind damage also. Lightning and high winds severed power lines disrupting service to estimated 5,000 homes. Several lightning induced fires damaged homes and factories. East Lansing reported similar flood, wind and lightning damage.
North Baltimore City-Southern Baltimore Co.	7	3-5P.M.			0	0	3		Wind, Rain, Electrical	Muskegon	8	10:10 p.							Funnel aloft
Frederick-Howard Co. areas	10	8-10P.M.			0	0	4		Wind, Rain, Electrical	Southern Lower Michigan	8-9	9:30 p. 8th 3:00 a. 9th			1	6		Thunderstorms with high winds, heavy rains and lightning	
Hagerstown area, Washington County	14	5P.M.			0	0	*2	C	Wind, Rain, Hail, Electrical										High winds estimated up to 100 mph caused heavy damage over the area. Numerous trees were felled causing damage to homes, buildings and cars. Likewise, high winds tore roofs off some buildings and destroyed several barns. Window breakage damage reported due to high winds. Heavy rains flooded streets, roads and some basements. Lightning severed power lines disrupting service to hundreds of homes and businesses. Several lightning induced fires damaged homes and buildings. Man killed at Albion when he touched fallen live power line downed by the storm. Southwestern portion received the heaviest damage.
Anne Arundel County Area	29	5-6P.M.			0	0	2		Rain, Electrical	Southern Lower Michigan	9	7:00 p. midnite			22	6	C	Thunderstorms with high winds heavy rains and lightning	
MASSACHUSETTS Cape Ann and Cape Cod	5	Afternoon			0	0	0	1	Hail										Heaviest damage occurred in and around Greater Boston communities and in northwestern sections of the state. Electric power was cut off from the entire town of Braintree when lightning struck the municipal power plant and an engineer was overcome by smoke from burning insulation. Sections of many communities lost power for varying periods. Local torrential rains flooded streets, underpasses, and basements in Needham, Wellesley and Quincy and caused a street cave-in at Braintree. A lumber warehouse in Chelmsford was badly damaged by a lightning-started fire.
Northern and eastern sections	6	Evening			0	1	5	0	Electrical and rain										High winds estimated up to 150 mph spread heavy damage throughout the area. Hundreds of trees were toppled which along with flying debris and tree limbs caused heavy damage to homes, buildings and cars. TV antennas blown down and house trailers blown over. Buildings, barns and houses wrecked and destroyed by high winds. Roads and streets blocked by fallen trees. Heavy rains flooded streets, roads, freeways and underpasses. Basements flooded causing heavy damage to contents. Fires due to lightning damaged numerous homes, buildings and barns and in some instances destroyed the structures. Cattle killed and burned due to fires and high winds. Power lines cut by the storms disrupted service to thousands of homes and businesses in the area. Heavy glass window breakage reported due to high winds. Twenty two persons injured due to various causes but mostly by high winds such as flying debris, tree limbs and falling buildings causing bruises and a few injuries due to lightning strikes. Belmont, near Grand Rapids, suffered the heaviest damage estimated from 1 to 2 million dollars.
Statewide	9	Afternoon to evening			0	0	5	3	Wind, rain	Ingham, Ionia, Kent, Allegan and Montcalm Counties	9	8:00 p. 9:00 p.							Funnels aloft
Somerset to Westport	28	Evening			0	0	4	0	Electrical, rain										Funnels aloft sighted by sheriff's deputies and public.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
MICHIGAN (Cont'd)									
North Dorr	9	8:05 p.	2	(?)	0	0	4		Tornado
									Leland Leonard observed the tornado destroy his home while standing in a garage nearby. A roof was torn off a home a little east and also a farm barn was destroyed 2 miles west of North Dorr. Several cattle within the barn were killed.
Hillsdale	10	2:37 p.							Funnel aloft
									Woman observed funnel aloft 8 miles southwest of Hillsdale.
Southern and Central Lower Michigan	10	3:00 p. 8:00 p.			1	2	6	C	Thunderstorms with high winds heavy rains, lightning and hail
									Winds gusting up to 84 mph caused heavy damage throughout the area. Numerous trees toppled by high winds caused damage to cars, buildings and homes. Streets and roads were blocked by wind felled trees. House trailers upset and damaged also by high winds. Roofs of houses, barns and buildings torn off by high winds and in some instances the buildings were completely demolished. Lightning induced fires damaged homes and barns. Heavy rains flooded streets, roads, freeways and underpasses. Basements were flooded with damage to the contents reported. Power lines were cut by lightning and high winds disrupting service to thousands of homes and buildings in the area. Man killed by lightning in his backyard in Flint area. Woman injured when her house trailer was struck by fallen tree in Nankin Township. Baby injured when struck by wind felled tree limb in Detroit. Goodyear blimp ripped from mooring at Flint Airport and damaged due to high winds.
Jackson	10	3:16 p.							Funnel aloft
									Funnel aloft sighted east side Jackson by Sheriff's Deputy.
Mt. Clemens	10	4:30 p.							Funnel aloft
									Woman reported funnel aloft vicinity Mt. Clemens.
Clio	10	5:00 p.							Funnels aloft
									Two funnels aloft reported vicinity Clio.
MINNESOTA									
Southeastern Minnesota	8	2 p to 6 p			0	5	6		Wind
									A squall line accompanied with numerous heavy thunderstorms formed west of Minneapolis-St. Paul during early afternoon moving east and southeastward into west central Wisconsin. Scattered local damage to buildings, planes, trailers, boats and docks, TV towers and antennas. Falling trees caused considerable dollar damage property and utility lines. Greatest storm fury fell on Winona and smaller communities just northwest of Winona. Cost of storm cleanup over \$40,000. Flying glass caused minor injuries to 3 in Winona. Two men in St. Paul injured when their scaffold collapsed due to wind. Wind gusts observed by the Weather Bureau at Minneapolis-St. Paul up to 47 mph and at Rochester near 70 mph. The Winona Municipal Airport reported gusts to 100 mph. The storm struck the Twin Cities at 2:30 P., Rochester at 4:45 P. and Winona at 5:40 P.
Egerton, Pipestone County	8	6 p					4		Hail
									Hail, up to 2 1/2 inches in diameter, damaged garden and field crops. Storm moved eastward into southwest Murray County.
Pipestone, Pipestone County	8	10:15 p							Funnel cloud aloft
									Deputy sheriff observed two funnel clouds, not touching ground, moving southeast.
Janesville (near) Waseca County	9	5:45 p	9	150			5		Tornado
									Tornado damaged or destroyed buildings on 4 farms wiping out one farm site completely, machinery and truck damaged. Thirty two people observing approaching funnel escaped injury by driving out of its path. Farm wife observed three (3) funnel clouds. Storm moved northeastward. No further damage reported.
Fosston, Polk County	25	2:45 p	9	350			4		Tornado
									Funnel cloud observed by several residents. Funnel touched ground first just south of business district doing partial damage to a 2 x 4-block area. Two garages destroyed, one home partially damaged, TV antennas twisted off, trees uprooted and utility lines downed. Funnel returned to parent cloud, moved northeastward over rest of town again touching down 9 miles northeast of Fosston destroying a 30 x 60 foot barn. Heavy rainfall of 0.97 inch fell in a fifteen minute period.
MINNESOTA (Cont'd)									
Baudette and vicinity, Lake of the Woods County	25	3:30 p					4		Tornado, wind and rain
									Although no funnel clouds observed damage sustained during brief period describes pattern of a tornado. First reported damage one mile west of Baudette where a tool shed demolished and a steel granary lifted from its foundation and returned to the ground with little apparent damage. At Baudette airport a reinforced concrete hangar was demolished. A 2-ton steel glider from its roof was lifted and deposited 100 yards from the hangar. Three aircraft inside were damaged, another aircraft outside also damaged. Numerous farm sites from Baudette to Clementson reported out-buildings down due to high winds. Utility services interrupted due to wind. A few minor fires started by lightning strikes. Rainfall of 1 to 2 inches reported in the area.
Duluth area, St. Louis County	25	7:15 p					4		Wind, electrical, heavy rain
									Rainfall of 1.45 inches fell within 20 minutes flooding numerous residential basements. Wind gusts up to 40 mph blew out plate glass windows and capsized small boats along lake shore. Lightning struck several homes. A fire started by lightning destroyed a large barn along northwest edge of Duluth. Storm moved from west to east.
Waldorf St., Waseca County	25	9:45 p							Funnel cloud aloft
									A funnel cloud was observed. Cloud moved from west to east.
Kandiyo, Meeker, Renville, McLeod, Sibley, Nicollet, Le Sueur, Blue Earth, Waseca, Steele Counties	28	1 p - 4 p			1	1	5	4	Wind, electrical, hail, rain and funnel cloud aloft
									Severe thunderstorms did damage over an area bounded in the north by Willmar to Litchfield then southeastward to Mankato to Medford on the south. Winds with gusts near 80 mph blew down trees, numerous barns and outbuildings, and blew out plate glass windows. Two house trailers and one semi-truck trailer was blown over as they travelled along the highway. Some field crops lodged by wind, rain and pea-sized hail. Storm first felt at Willmar (1 p) and then in the Litchfield area (1:25 p). New construction at Atwater and Litchfield blown about. A farmer riding his tractor in a field struck and killed by lightning near Litchfield. The storm area continued its fury reaching Le Sueur at 2:30 p and Mankato at 2:45 p. At Le Sueur rainfall of near 3 inches fell. Wind and lightning played havoc in these areas. A man injured at Mankato by a falling tree limb. Some hail damage to field crops Cleveland to Madison Lake area and near Alma City. At 3:50 p a funnel cloud observed 1 1/2 miles west of Medford. Cloud moved east and did not touch the ground.
Welch, Goodhue County	29	4 a					5		Electrical
									Lightning strike started fire which destroyed 100 year old church.
MISSISSIPPI									
State	13-15								Hot spell
									Maximum temperatures of 100° or higher reported on 1-3 days at many locations. On 14th 108° Merrill (to NW of Lucedale), was hottest temperature in state since August 9, 1954, when Columbus had 108°, and highest June temperature in state since June 30, 1936, when Greenwood had 111°; 72-year June record was broken at Meridian with 103° and tied at Nattiesburg with 105°.
Alcorn County	20	8:45 p.-11:00 p.			0	0	4	3	Thunderstorm
									Torrential rains halted highway traffic near intersection Highways 45 and 72. Many fields washed away, need to be replanted. Few bridges washed out. Some wind damage to buildings and trees; some roads blocked by debris.
Pike County 1/2 SE McComb	21	6:04 p.-6:30 p.	3	100	0	0	3	2	Tornado
									One funnel touched ground twice, moving from WSW to ENE. No lightning, no thunder; precipitation light at time.
Central, E. Central, SW, S. Central, SE, and Coastal Divisions	21								Dry spell
									State Senator announced U.S. Department of Agriculture designated 28 additional Mississippi counties eligible for disaster aid due to weather.
Lamar County, Talowah Community, Lumberton	29	7:30 p.			0	1	1	0	Lightning
									Lightning struck masonry wall, chipped plaster, burned chair, knocked man unconscious and produced minor burn on one ear.
MISSOURI									
Rich Hill Bates County	5	6 PM to 8 PM					3	4	Hail
									Hail occurred on an area 3 miles wide by 5 miles long. Large hail fell on 100 acres destroying all crops. 2 1/2 inches of precipitation in 90 minutes.
Crane, Cape Fair Stone County	10	8 PM					4		Thunderstorm
									Two boat docks on Table Rock Reservoir were torn loose and blown out into the lake. Both damaged; several boats sunk. At Crane, property damage from large hail.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
MISSOURI (Cont'd)										MONTANA (Cont'd)										
Desloges, Flat River and Farmington St. Francois County	10	6:15 PM	20			2	6		Tornado										round stone measured 9 3/4 inches in circumference, and a rather fine one 10 1/2 inches. The fall of these stones was of short duration and damage was light. The stones were hard ice and tended to shatter on impact. Wind damage was most severe in Daniels, Valley and Roosevelt Counties. Unofficial readings of gusts up to 108 mph, and steady winds of 90 mph were reported near Wolf Point, Roosevelt County, and at Peerless, Daniels County, an unofficial reading of 85 mph was reported. Property damage was mostly from wind.	
Dexter Stoddard County	13	late evening					5		Hail	NEBRASKA										
West Plains Howell County	14	late afternoon							Thunderstorm	Indianola to Bartley	1	Evening	5	1000	0	0	0	0	Hail	
Boonville, Brunswick, Fayette, Carrollton, Howard, Cooper, Carroll and Chariton Counties	28	10 PM					6		Thunderstorm	Eastern Burt County	4	10:00 p.	6	5*	0	0	3	4	Hail and lightning	
									Thunderstorms hit each of these cities within one hour of 10 PM. Direction of movement of storms was northeast to southwest. Extensive wind damage at each city. Principal financial loss caused by felled trees. Roof blown off substantial building at Carrollton.											Over 20 head of cattle killed by lightning.
										Near Arnold	5	4:50 p.	Short	Narrow	0	0	0	0	Tornado	
										15 miles East of Merrillman	5								This tornado touched in range country causing little or no damage.	
										Buffalo to Polk Counties	5	Evening	60	8*	0	0	4	6	Hail	
										6 miles west of Beatrice	5	Evening	1/2	40	0	0	0	1	Hail	
										Near Scribner	5	8:00 p.	1	Narrow	0	0	3	0	Tornado	
										Springview	8	10:45 p.	1/2	35	0	0	3	0	Tornado	
										Springview	8	11:30 p.	1	Narrow	0	0	4	0	Tornado	
										North of Ord	9	2:00 p.	5	Narrow	0	0	3	0	Tornado	
										Cedar and Dixon Counties	9	Afternoon	50	10*	0	0	5	5	Tornado, funnel clouds, hail and damaging winds	
										Furnas, Gosper, Harlan and Phelps Counties	15	2-5 p.	25	5*	0	0	5	5	Hail and high winds.	
										Furnas County	18	5:00 p.	10	1 1/2*	0	0	3	4	Hail	
										Friend to Syracuse	20	Early Afternoon	50	3*	0	0	4	5	Hail and heavy rain	
										Knox and Pierce Counties	21	1-2 a.	20	2*	0	0		5	Hail	
																			Scattered areas. Stones mostly 1/2 to 1" diameter, with some ranging up to 2".	
																			Hailstones up to 3/4" diameter piled up to 3 feet high in ditches near Wausa. Storm traveled from near Wausa to near Randolph.	

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM			
					KILLED	INURED	PROPERTY	CROPS							KILLED	INURED	PROPERTY	CROPS				
NEBRASKA (Cont'd)										NEW MEXICO (Cont'd)												
Farhandle	21	Afternoon			0	0	2	4	Hail, wind and lightning											Some small boats blown inland. Eight miles southeast of Roswell a haybarn was blown down and a 500 bushel steel grain bin was blown across road. Power transformers blown down causing some power outages. One boy cut by flying debris.		
Gering Valley	23		Short	Narrow	0	0		5	Hail	Cloudcroft, Otero County	25	11:00 a.m.			1	3			Lightning	Man struck by lightning, not burned, but hospitalized for severe shock, 2-1/2 miles north of Cloudcroft, while working at radar construction site. Separate bolt possibly caused ignition of truckload of fireworks valued at \$1,000.		
Southeastern and East Central Nebraska	23-24	6 p. - 2 p.	100	75*	0	0			Heavy rain	NEW YORK												
									Large area covered by heavy rains that exceeded 5" most places and ranged upward to an unofficial measurement of 16.50". General area extended from Saline and Johnson counties northward to Platte and Dodge counties. Description of extensive flood damage printed in CLIMATOLOGICAL DATA NATIONAL SUMMARY. No deaths directly from storm but 3 persons drowned in flood waters. Total damage estimated at 13 million dollars, mostly due to flooding.	East-central New York	2					1	4	C			Thunderstorms, hail, lightning	Scattered severe thunderstorms with damaging hail and lightning. Boy killed by lightning in the Stillwater area (Saratoga County). Extensive damage to gardens and crops from hail north of Albany to the Mechanicville area eastward, where a greenhouse received extensive hail damage.
Near Randolph	25	After mid-night	8	2*	0	0	2	4	Hail	St. Lawrence region	6	Late afternoon				5			Thunderstorms, hail, lightning, heavy rain	Severe thunderstorms, some with hail, severe lightning and torrential rainfall. Potsdam area suffered heavy washout damage from rainfall. A home in the Ogdensburg area nearly washed from foundation. Severe hail in Fort Covington area.		
Adams County	25	3-7 p.	18	8*	0	0	4	4	Hail and lightning	Lower Adirondacks	9				1	4			Severe thunderstorms	Hailstones 3/4" diameter accumulated to 1" deep. Scattered light hail damage was reported north-eastward to Platte County.		
NEVADA			None reported							Syracuse area	11	1:30 p.m.	6	20-100	0	0	3		Tornado	Boy killed by lightning in Corinth area.		
NEW HAMPSHIRE																						
Manchester to Derry	9	4 p. to 4:30 p.	15	50-100	0	0	5	3	Tornado	Livingston Manor (Sullivan County)	12				3	8	5		Lightning	Tornado moved eastward except southward at the beginning and near the middle of its path with evidence of zig-zagging along the route. Torrential rain, frequent cloud to ground lightning, and hail attended the storm and visibility was reduced to almost zero. Hailstones averaged 1/4 to 3/4 inch in diameter although one witness in Londonderry described the hail as "resembling chunks of coal" about 1/2 inches long. Storm damage was heavy. Among the major casualties were: Nearly the entire roof of a large furniture building and resultant loss of stock by water; a 13,000 pound mobile home; a 3-story, 100'x36' frame hen-house with loss of about 1,000 birds; and several barns. Trees were ripped from near the tops of their trunks and others were uprooted. Falling trees and limbs damaged homes and cars, and blocked streets and highways. A 1-car garage collapsed and a ferris wheel toppled. Additional less severe damage occurred widespread through the area. In the Derry area, some orchards were stripped and gardens turned to shambles. This storm occurred on the 10th anniversary date of the "Worcester Tornado" that killed 94 persons, injured about 1300, and caused more than \$75 million in property damage.		
Southwest portion	28	Afternoon			0	0	4	0	Electrical, rain, wind	Ringhamton area	28					4			Thunderstorms	Storm damage was minor but widespread. Lightning knocked out power and phone services and torrential rains of brief duration flooded streets, underpasses and other low sections of highways especially in the Hanover-Lebanon area. Lightning strikes set a number of fires particularly in and around Franklin. A wind squall at Keese damaged a greenhouse and littered the area with small branches.		
NEW JERSEY			None reported							Essex County (St. Huberts)	29	Late afternoon				4			Thunderstorms, torrential rain	Late afternoon severe thunderstorms during severe heat, 1.65 inches of rain in 45 minutes; extensive wind and rain damage, power failures to thousands of homes, telephone lines down, surface flooding and general disruption to travel for a short while. Many trees, poles, traffic signs and other structures blown down or struck by lightning.		
NEW MEXICO																						
Artesia, Eddy County	1	4:00 p.m.						3	Hail	NORTH CAROLINA												
									Hail, pea to golf ball size, east of Artesia with damage to young cotton.	Currituck County	2-3					0	5		Rain	Five to ten inches of rain fell in the two days, following consistently wet weather last half of May, causing decay of maturing crops in potato and truck farming area.		
Clovis, Curry County	2	Early a.m.					1		Lightning	Surry, Yadkin Counties	3	4-5 pm				4	3		Electrical, Hail	Switchman knocked from platform between moving box cars to between rails beneath train. Knocked unconscious as lightning travelled through steel frame of car.		
Melrose, Curry County	2	4:00 p.m.							Rain	Franklin, Wayne Counties	5	5-6 pm				3	4		Electrical, Hail	4.07 inches rain with hail to marble size moved east. Heavy row crop damage. Damage to wheat. 75% of grain sorghum to be replanted		
Lea County	8	Daylight	Short	Narrow					Tornado	Cabarrus, Gaston, Surry Counties	6	Aftn			1	1	4	4	Electrical, wind, Hail	Tornado touched ground in pasture 5 miles south of Hobbs and went a little way on the ground. No damage.		
Southeastern New Mexico	18	Evening					5	6	Wind, Hail													
									Dusty winds to a measured 69 m.p.h. at Roswell damaged trees, signs, power lines and poles, and some buildings in Chaves, Curry, Lea, and Roosevelt Counties. Hail to 1-1/4 inch diameter accumulated to 3 to 4 inches deep at Melrose, Curry County, with little damage. Aircraft reported funnel clouds 15 miles east and 65 miles north of Roswell, Chaves County. Unconfirmed tornado funnel northeast of Lovington, Lea County.	Ashe, Buncombe, Swain, Yadkin Counties	7	Evening					3	4			Electrical, Wind, Hail	Lightning killed one man and injured another as they crouched beneath a truck to get out of the rain. Lightning damaged two homes, wind damaged farm buildings. Hail and wind damaged tobacco crop.
Roswell, Chaves County	19	6:10 p.m.	**100	10		1	3		Tornado, Wind													
									Tornado at Lea Lake, 18 miles east of Roswell, approached from north-northwest, skipping from bluff onto garage and back aloft. Garage unroofed, and car lifted and moved a few feet. Occurred during severe thunderstorm and most of path was over pastureland.												Lightning killed several cattle. Hail hit crops scattered areas.	

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM			
					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS				
NORTH CAROLINA (Cont'd)										OHIO (Cont'd)												
Alexander, Buncombe Counties	10	5-6 pm			0	2	3	0	Electrical, Wind	Kirkersville (Con't)									loss. Two other trailers nearby had metal awnings torn loose. While the direction of travel was eastward, some debris was observed both north and south of that line.			
Two persons injured when lightning struck home in Asheville. Wind damaged school property in Alexander County.										Yellow Springs	10	8:30 PM			1	0	4	0	Thunderstorm	A heavy thunderstorm accompanied by strong, very gusty winds visited the Miami Valley around Dayton, Franklin, and Yellow Springs. Widespread damage was done to trees, utility lines, etc. Numerous cars were victims of falling trees. An 11-year old boy was killed as a large limb fell on him.		
Bladen, Brunswick, Columbus, Warren Counties	11	3-8 pm					0	5	Hail, Wind	Similar thunderstorm wind damage was reported from many places over Ohio including such widely separated places as Cincinnati, Troy, Port Clinton, Lorain, and Youngstown as a squall line passed over the state. Winds up to 83 mph were observed at Cincinnati, and doublets were equalled at many other points. Near Columbus there was an unverified report of a funnel cloud; while a barn unroofed during the storm in Delaware County may have been the victim of a small tornado. Because thunderstorms were so numerous on this date it is not feasible to place a dollar value on losses over the state.												
Tobacco crop damaged in several areas.										Lincoln County	14	3:30 pm					4	0	Electrical	Fire caused by lightning destroyed barn with farm machinery.		
Lee County	20	3 pm					4	3	Wind	Duplin, Lenoir Counties	21	4-5 pm			0	4	Hail	Four square miles damaged, mainly tobacco in fields.				
NORTH DAKOTA										OKLAHOMA												
Des Lacs	2	12:30 PM			0	0	2	0	Tornado	Ellis County	2	1:30 p.-11:00 p.			0	0	?	?	Rain, hail			
Lonetree	3	Afternoon			0	0	2	0	Tornado	Squall line moved eastward across area providing heavy rains of up to 3.17 inches at Fargo and 4.12 inches at Arnett. Heavy hail reported in the Cateby area damaged some fields of crops up to 100 percent.												
Glenn Ullin	5	Afternoon			1	0	0	0	Lightning	Leede, near, Dewey County	5	4:30 p.-4:45 p.	10	?	0	0	3	3	Hail			
Sargeant County	8	6:00 AM	10	?	0	0	4	0	Windstorm	Hailstorm battered crops and buildings along a path through the Red Star and Liberty Center communities. Hail the size of golf balls was common with a few up to baseball size. More than 400 acres were damaged on 12 farms with 260 acres of wheat totally destroyed. Most property owners reported roof, siding and window damage.												
Hebron	8	5:00 PM	3	*1 1/2	0	0	0	4	Hailstorm	Sentinel area, Washita County	5	4:45 p.-6:30 p.	18	*12	0	0	4	4	Rains, hail, funnels aloft, and wind			
Devils Lake	9	3:30 PM							Tornado	Heavy thunderstorm cell moved slowly to the east-northeast across area between Retrop, Dill City, Cordell, Rocky, and Sentinel. Unofficial rain gages indicated heaviest amounts of 2.5 to 3.5 inches in Sentinel, with up to 5 inches reported a few miles to northwest of City. Local flooding closed major highways south and west of the City with up to 5 feet of water across road. Hail fell over general area covering up to 65 percent of the ground in some locations with 1-1/2-inch size stones and a few to 2-1/2 inches in diameter. Extensive damage reported to wheat and young cotton. Police sighted two funnels aloft over the west part of Sentinel which moved in and out of town as the cloud circled over the City for 25 minutes. One of these dipped to within 50 feet of the ground. Straight winds destroyed two small barns, overturned two cotton trailers, and downed some power lines. Rain damage about 50% of total, hail 40%, and wind 10%.												
Tuttle	22	7:30 PM			0	0	4	0	Hornado	Alva, Woods County	8	4:53 p.			0	0	0	0	Hail			
Bismarck	23	1:30 AM			0	0	4	0	Windstorm	Few hailstones up to 3/4-inch size fell for two minutes in the City near Northwestern State College. No damage reported.												
Logan and Kidder Counties	26	7:45 PM			0	0	*4	0	Windstorm	Sayre 7N, Beckham County	8	8:30 p.	1	*1/4	0	0	0	0	Hail			
South-central North Dakota	28	5:30 AM			0	0	0	4	Hailstorm	Hailstorm from west-southwest provided a brief fall of hail up to 3/4-inch size which averaged less than 10 stones per square foot. No damage reported.												
OHIO										Cleveland and Pottawatomie Counties	10	5:15 p.-5:45 p.	10	*2	0	0	4	4	Hail			
Cambridge	4-5	Eve-4th to morning 5th			0	Few	*6	C	Thunderstorm rain and flash flood	Hail along a spotted path belted harvest-ready wheat, fruit orchards, and corn fields from Lexington eastward to Hanette. Hail of 1-1/2-inch size covered the ground in places, while larger ones up to 2-1/2 inches in diameter covered up to 25% of the ground and fell locally for about 15 minutes.												
An exceptionally heavy thunderstorm rain occurred during the night of June 4-5 in a county-size area centered over Cambridge. The 24-hour total reported from the official station in that town was 7.18". The average of 55 point measurements obtained by the U. S. G. S. in a "bucket survey" was 7.67" over an area including northern Guernsey County, and portions of Coshocton and Muskingum Counties. The largest amount reported was 20.00" over the period June 3-5, while the largest 2-calendar-day measurement was 13.3" (container overflowed). The 4-inch isohyetal line encloses an area nearly as large as Guernsey County.										South-Central Counties	10	5:15 p.-9:00 p.			0	0	5	0	Wind and hail			
The resulting flash flood inundated portions of all major highways in the area with depths to 5 feet. Most spectacular flooding was by Crooked Creek which stopped traffic on U. S. route 40 west of Cambridge and washed out B & O Railroad Bridge #68. Municipal water services in Cambridge, Pleasant City and Hyserville were interrupted either by breakage of mains or by pollution of sources of supply. Several people were rescued from rooftops by helicopters.										Cold front passage across area produced high wind gusts measured up to 43 MPH at Duncan, 60 MPH at Ashmore and Tishomingo, and 70 MPH at Texma State Park. General widespread damage resulted, with downed trees causing extensive electrical and phone outages. Heaviest damage occurred in northern Marshall County and southern Johnston County. One house was completely unroofed in Madill and 100 TV antennas flattened; also, a 100-foot TV antenna tower was toppled. Damage from Ravin to Milburn was mostly to three homes, five barns, a grocery store, and airplane hangar. Major damage in Durant was limited to a laundry that had a 25-foot section of windows and frames blown out. Up to 20% of the ground was covered with hail of 3/4-inch size in a small area 1-1/2 miles northeast of Duncan about 5:22 p. No hail damage reported.												
Commercial Point	5	6:30-7:00 PM	Short Narrow		0	0	*4	C	Tornado	Kirkersville	5	6:05 PM	Short Narrow		0	0	3	0	Tornado			
A funnel cloud passing overhead dipped momentarily to the ground in a trailer park. Only one trailer was damaged but it was a total loss. Nearby a large tree was blown over toward the south, while a child's swing set was toppled toward the north. Also a small out-building was unroofed. This storm was accompanied by heavy rain and hailstones, some as large as 3/4" diameter.										A small tornado struck in the northern edge of Terrace Trailer Court 3 miles west of Kirkersville during a heavy thunderstorm. Only one trailer was severely damaged as it was seen to be lifted some 20 feet and dropped on its top. It was a total												

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OKLAHOMA (Cont'd)									
Conancho, Stephens County	10	6:00 p.	1	800	0	0	3	0	Funnel aloft and wind
									Cooperative observer watched a funnel aloft pass over northwest part of City, moving southeast. Strong straight winds across City heavily damaged 25 trees and toppled numerous TV antennas.
Pottawatomie and Seminole Counties	10	6:55 p.	9	*1-1/2	0	0	0	7	Hail
									Scattered light hail fell along a path which began 1.5 miles north-east of Shawnee and continued northeast into the extreme north-west part of Seminole County. Hail ranged up to 3/4-inch size and was accompanied by winds estimated up to 60 MPH. Some crop damage was indicated.
Central Okfuskee County	10	7:30 p.-9:00 p.	17	*4	0	0	4	0	Tornado, wind, hail, and electrical
									The tornado was first sighted aloft over Castle about 7:30 p. moving east. It touched down briefly on three farms as it passed along 1 mile north of Okemah. Trees were uprooted, and two homes and a barn were damaged. Damaging straight winds at both Okemah and Henryetta downed numerous large trees, broke several plate glass windows, unroofed a business, and damaged signs and house roofs. Hail up to 1 inch in diameter fell on the north side of Okemah for 10 minutes, and also just east of Henryetta. In Okemah during the storm, lightning struck a house which burned to the ground with all its contents. Tornado damage 10% of total, wind 30%, hail 5%, and electrical 55%.
Hollis, near, Harmon County	11	5:30 p.-6:30 p.	5	*2	0	0	4	4	Hail
									Hail path began 2 miles west of City and continued northwest. Spotty damage mostly to small grain and cotton, ranged from 20% to 100% by hailstones up to 3/4 inch in diameter.
Hocker 6E, Texas County	15	11:30 p.	Short	Narrow	0	0	2	0	Tornado
									A small tornado struck a farmstead and tore up trees, turned over a combine, blew out several windows, and scattered debris and tree limbs for a one-half mile radius.
Ottawa County	16	1:00 a.-2:15 a.	15	*5	0	0	5	5	Hail, wind, and rain
									Large hail, high winds, and rain caused widespread damage over a path from the northwest corner of the county to a point 7 miles east of Miami. Other small communities included were Commerce, North Miami, and the northeast corner of Miami proper. Hardest hit were the Rockdale section of Miami and Commerce. Hailstones averaging 1-1/4 inches in diameter and some up to 2 inches caused heavy damage to many roofs, thousands of windows, many automobiles, corn and bean crops, and lawns. Hail also fell at Chappaw with up to 1-1/2-inch size reported. Winds estimated at 30 to 90 MPH left Miami's tallest smokestack leaning at a 45-degree angle, downed limbs and disrupted electrical services, demolished two 55-foot trailer homes, blew over a freight trailer, damaged scores of TV antennas, wrecked awnings, and damaged signs. Accompanying rains of 1.63 inches at Miami caused additional heavy property loss. Hail damage 55% of total, wind damage 35%, and rain damage 10%.
Elaine, Canadian, Caddo, Grady, McClain, and Garvin Counties	16	3:00 a.-4:30 a.			0	1	4	3	Wind, 2 tornadoes
									Fast moving thunderstorms produced violent winds and hard showers across area which first hit Geary at 3:00 a. and left a wide path of broken trees, downed limbs, and general property damage leading southeast to the Mayesville area by about 4:30 a. Winds estimated up to 70 MPH at El Reno tangled lines which caused 35 electrical outages and put 150 telephones out of order. One downed tree crushed an automobile while streets were strewn with limbs, and many windows were broken. A tornado (#1) was heard aloft by a person two miles northwest of Union City. It later touched down and traveled a 3/4-mile path up to 150 yards wide at Union City about 3:10 a. Cooperative observer said that sound resembled rumbling of an approaching train accompanied by a siren. His cotton crop was damaged and many trees had their tops twisted out, while his home had windows blown out and a porch torn off. One lady was injured at Blanchard when hard wind blew a cellar door out of her hand. Winds also damaged roofs, flattened many highway signs and heavily damaged an orchard southwest of Mayesville where about 500 bushels of ripening peaches were blown off trees. Tornado (#2) occurred 3 miles west-southwest of Andarko where a rural resident was awakened by his barking dog just before the tornado passed nearby his home. It scattered a pile of 2 x 4's which broke windows and doors at his home, and even raged a 2 x 4 through one of the walls. Wind damage 90% of total, and tornadoes 10%.
Buffalo, near, Harper County	22	7:30 a.			0	1	2	4	Electrical
									Lightning struck two places in the community knocking all of the lights out of a home and injured a man working on top of a haystack. The man was knocked unconscious and received some burns, while the stack smoldered and soon after burned to the ground destroying 4,400 bales of hay.
OKLAHOMA (Cont'd)									
Woods, Alfalfa, Major, Garfield, Elaine, Kingfisher, and Logan Counties	22-23	4:00 p. - Noon - 2:30 p.			0	0	5	4	Rain, hail, wind, and electrical
									Heavy thunderstorms provided torrential rains of 4 to 6 inches over the area with heavier amounts of 5.85 inches at Helena, Guthrie 5.56 inches, Alva 5.52 inches, and Orienta 5.26 inches. Heaviest damage occurred in Alfalfa County where flashflooding inundated highways, roads, 18 homes, and several businesses for a few hours. Additional flashflooding occurred near Alva, Enid, and Hennessey. Numerous basements were also flooded from backed-up sewers. Heavier unofficial totals of rainfall ranging from 6 to 8 inches were reported near Garmon. More than 300 damage claims were filed in the Garmon area which also included roofs and windows damaged by hailstones that averaged 1-1/2 inches in diameter, and a few which ranged up to 2-1/2-inch size. Some hauled-out cotton and extensive acreage of washed fields required reworking; this included much small grain land that was killed before the rain in Alfalfa and Major Counties. Extensive power and telephone outages were caused by downed limbs, lightning strikes, and washed-out poles. High winds in the Gentry and Marshall areas demolished a barn and granary, damaged eight outbuildings and a home, and caused general damage on several other farms in the vicinity. Rain damage 50% of total, hail 20%, wind 10%, and electrical 20%.
Cedar Springs, Major County	22	Near 7:30 p.			1	1	0	0	Electrical
									Lightning knocked down a family of three to the ground as they were entering their storm cellar. The son was killed and the father badly burned.
Caddo and Grady Counties	23	3:30 a. - 6:00 a.			0	0	4	0	Electrical and wind
									Lightning struck the Cotton Research Station east of Chickasha at 5:59 a. destroying a combination laboratory and seed storage building. A few other structures received fire damage in area including a barn and contents destroyed 1-3/4 miles north of Fort Cobb. High winds lifted the roof from a vacation cabin at the north end of Fort Cobb Lake about 3:30 a. with the falling roof damaging another nearby cabin and a new car. Some trees were uprooted and tree limbs broken. Electrical damage 75% of total, and wind 25%.
OREGON									No report received by printing deadline.
PACIFIC AREA									None reported
PENNSYLVANIA									
Northern Wayne Co.	5	Afternoon					3		Lightning
									15 cows were killed by lightning while standing under a tree.
Boswell	9	8:30 A.M.					3		Thunderstorms
									A bolt of lightning knocked off the steeple and damaged the roof of a church in Boswell with damage estimated at \$1000. Six cows were killed by lightning near Rockwood.
Aliquippa	10	4:00 A.M.					5		Thunderstorms
									Lightning fired a lumber yard and resulted in \$50,000. damage.
Western & Southern Counties	10	4:00 P.M. to Mt.					5		Thunderstorms
									High wind, rain, hail and lightning caused varying degrees of damage throughout the area. Strong winds blew down a large tobacco barn in Lancaster County, and numerous trees, sign-boards, and TV antennas throughout the area. Heavy rain flooded some streets and underpasses in western counties. Hail, measuring up to 1/2 inch diameter, damaged a number of cars and house roofs. Lightning fired several barns and homes. In McKeesport a large warehouse was destroyed by fire, resulting from a lightning strike, with damage estimated at \$250,000.
Newville area	14	Afternoon					3		Thunderstorms
									Hail, 1/2 inch in diameter, ruined crop in a number of fields near Newville.
Luthersburg	20	Afternoon					1		Thunderstorm
									A 13-year old boy was killed when struck by lightning.
Southern Counties	28	Afternoon					1		Thunderstorms
									One man was injured when struck by lightning near York. Lightning damaged several homes in Gettysburg and West Chester, while a lightning-induced warehouse fire in Johnstown destroyed the building and contents.
Eastern Half of State	29	Late Afternoon					2	5	Thunderstorms
									One man was killed by lightning in Schwenksville, and another near Pottsville. Both men were outside at the time. Nine cows were also killed by lightning near Williamsport. High wind tore

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (Cont'd)									
Lynn County	2		?	?	0	0	?	?	Heavy rain, wind, hail
									Torrential rains washed out virtually all Lynn County crops, damaged farm lands, put highways and farm roads under water, and the accompanying wind and hail damaged many homes and out-buildings. Tahoka received 3.48 inches within one hour and 10 minutes on the southern edge of the storm. Some cotton remained in the Midway, Joe Bailey, O'Donnell, Wells and Newmore areas, but the remaining portions of the county needed replanting.
Graham-Close City Garza County	3	5:45 p-10:00 p	?	?	0	0	?	?	Hail
									Very large hail battered an area from Post westward into Lynn County. Largest stones were reported in the Graham-Close City Community, where average size measured 2 inches in diameter, with largest stones 4 1/2-5 inches in diameter. A few roofs were damaged. Most crops in the area had been destroyed by previous hail and rainstorms. An estimated 200 square mile area suffered damage.
4 N Overton Rusk County	3	7:15 p-7:45 p	2	?	0	0	?	?	Tornado
									A tornado touched ground near Overton on the Don Ferry farm destroying an oil well pump house. Several trees were uprooted. Witnesses reported that "two black clouds met," and that the noise sounded "like two or three freight trains overhead."
Hale & Floyd Counties	3	8:00 p-10:00 p	25	*10	0	0	?	?	Rain, hail, funnels aloft
									A vast plains area of approximately 250 square miles was pounded by hail and deluged by rain. The damaged area was approximately 25 miles long, extending from the Cotton Center area in southwest Hale County to an area north of Lockney in northwest Floyd County. Farmers said this may have been the worst blow crops in this region have received from hail and rain on a single day in many years. Crops in the Hale Center-Cotton Center area were described as a 100 per cent loss. Rain measured up to 4.50 inches. Three funnels were sighted between Cotton Center and Hale Center but did not touch ground.
Port Arthur Area Jefferson County	3	8:57 a-9:05							Funnel aloft
Pecos Reeves County	4	afternoon	?	?	0	0	?	?	Wind, hail
									Violent thunderstorm winds struck the southwest corner of Pecos with an accompanying hailstorm striking area crops. The high winds left a pathway of damage through the airport area, near Pecos cotton-bill mill, and on out the road toward the Davidson Feed Yard. The feedyard's long row of chicken houses was unroofed and utility poles snapped like match sticks all the way down the road toward the pens. Damage was reported at Wortham and Municipal airfields. A Cessna Skyliner at Municipal Airport was flipped over on its back and was reported a total loss. The spray-dryer on the former Estes hanger blew in and damaged an airplane stored inside. The hanger roof was also damaged. The press box at the Jaycee Ballpark was blown into the wire backstop. At the Niagara Chemical Company, a small building lost the roof and the sides collapsed. Nearby farmstead was hit by marble-sized hail. Hail fell on farms west of Balmorea highway for about eight miles south.
1 1/2 N Fieldton Lamb County	4	6:30 p-7:00 p	?	?	0	0	?	?	Tornado
									A tornado caused extensive damage on the Archie Howard and Dickie Lee farms about 1 1/2 miles north of Fieldton. Barns and some out-buildings, together with some trees and fences were destroyed on the Howard farm. The Lee home had shingles torn off the roof, a hole knocked in the bathroom wall, several windows broken, a well-house destroyed, and barns partially damaged. A house on the Buck Fredericksen farm was also damaged.
15 SW Lubbock Lubbock County	4	7:00 p							Funnel aloft
4 SW Plainview Hale County	4	7:00 p							Funnel aloft
8 N Littlefield Lamb County	4	7:28 p							Funnel aloft
5 SW Sudan Lamb County	4	8:32 p	?	?	0	0	?	?	Tornado
4 E Hereford Deaf Smith County	4	8:40 p							Funnel aloft
Olton Vicinity Lamb County	4	9:00 p-10:00 p	?	?	0	0	?	?	Hail, rain, 1/2 tornadoes
									Torrential rains and golfball-size hail resulted in hundreds of thousands of dollars damage to crops in Lamb County near Olton. In some places hailstones were 6 to 8 inches deep. Largest stones were approximately 2 inches in diameter. Four tornadoes touched ground in open country causing little damage other than destroying a well house and equipment 5 miles south of Olton. As much as 5 1/2 inches of rain fell in the area.
2 N. Lubbock Lubbock County	4	9:00 p	?	?	0	0	?	?	Tornado
									A small tornado destroyed a barn and garage and damaged farm machinery and two automobiles on the Dee Hight farm two miles north of Lubbock Municipal Airport. Poles six inches in diameter used to support the barn were pulled from the ground. These poles were three to four feet deep in the ground.

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (Cont'd)									
Olton-Earth Area Lamb County	4	night	?	?	0	0	?	?	Wind, rain, hail
									Wind, rain, and hail battered crops in the Olton-Earth areas of northern Lamb County. Several roads were closed by high water, including U. S. 70 and State 16B. Some power lines to both the north and south of Olton were downed. Crops for five miles south of Olton were destroyed by hail. These had not been hit by previous storms. Golfball-size hail was reported in Olton.
Near Ropesville Hockley County	4	night	?	?	0	0	?	?	2 Tornadoes
									A relatively small tornado destroyed barns at the C. P. Armidine farm four miles east of Ropesville. A well-house was destroyed, and the well motor was lifted and turned over on the Jeffcoat farm, while at the Bradshaw farm another barn was destroyed. Another tornado lifted at the southeast edge of Ropesville, just before smashing into the community. The tornado traveled from southeast toward the northwest.
Bailey & Farmer County	4	?	?	?	0	0	5	?	Hail
									Hail averaging approximately one inch in diameter caused an estimated \$100,000 damage to property in Bailey and Farmer Counties. Young cotton in the area was destroyed or severely damaged. Hail piled on the ground to a depth of 4 inches. In Muleshoe, golfball-size hail broke windows in homes and businesses.
Plainview Hale County	8	afternoon	?	?	0	1	?	?	Wind
									Thunderstorm winds gusting to 45 miles per hour overturned a "digout" at the Little League Baseball Park pinning a man beneath the wreckage. He suffered knee and back injuries. The wind also tore the roof from a concession stand at a drive-in theater.
Near Slaton Lubbock County	8	afternoon							Funnel aloft
Earth Lamb County	8	4:05 p-6:45 p	1 1/2	?	0	0	0	?	Tornado
									Tornado touched ground in open country, causing no property damage. It traveled on the ground for about one and one-half miles.
NW Edmondson Hale County	8	6:00 p	short narrow		0	0	?	0	Tornado
									Small tornado demolished 90 x 30 foot sheet steel building at Farmer's Gin location near Edmondson.
1 W Ropesville Hockley County	8	6:30 p	?	?	0	0	?	?	Tornado
									A tornado touched ground on the James Means farm about 6:30 p.m. destroying several small buildings and damaging the farm residence.
Levelland Hockley County	8	evening	?	?	0	0	?	?	Tornado
									A small tornado touched ground near Levelland, missing the transmitter of a radio station by about 50 yards. Three utility poles were broken off.
Ponder Denton County	10	8:00 p-8:15 p			0	0	3	?	Wind, funnel aloft
									Winds estimated at 80 to 100 miles per hour damaged the roof of a gymnasium in Ponder. Some cotton was burned by the wind and oak in the direct path of the storm were blown out. A few tree limbs were blown off, and a small sheet steel construction house demolished. A funnel cloud was observed, but did not dip completely down to earth. The diameter of the lower end of the funnel was estimated at fifty feet.
Breckenridge Stephens County	11	7:30 p-7:45 p	?	?	0	0	?	0	Wind, tornado
									Winds in excess of 80 mph whipped the Stephens County Airport as Breckenridge and the Stephens County area received up to two inches of rain. The high winds caused some minor damage to facilities. An old wrecked plane was blown more than 100 feet over a barbed wire fence during the storm. A small tornado passed west of the airport manager's home during the storm, uprooting some small trees, but otherwise causing no damage.
Sunray Moore County	15-16	9:15 p-4:00 a	?	?	0	0	?	?	Rain, hail
									Hailstones up to 1 1/2 inches in diameter damaged roofs in all sections of Sunray and damaged wheat crops in the surrounding area. The storm was accompanied by high winds and more than two inches of rain. Hailstones averaged 3/4 to 1 inch in diameter. Residences that were hardest hit were those with older roofs and those homes facing west. Extensive damage to cars and other vehicles parked in the storm also occurred. Roof damage was estimated at 3 1/2% of total value, on an average, and crop damage at 20%.
25 SW Perryton Oohiltree County	16	4:00 a	?	?	0	0	?	?	Wind
									Strong thunderstorm winds toppled an oil drilling rig 25 miles southwest of Perryton, resulting in an estimated \$30,000 damage.
Randall County	16	6:00 p-7:30 p	6	*4	0	0	5	5	Hail, wind, rain
									Hail up to two inches in diameter, strong winds and heavy rain battered Randall County with heaviest damage in a 4 x 6 mile area southeast to northwest of Canyon. Up to six inches of rain fell, and wind gusts were estimated at 85 miles per hour. Roofs were damaged and windows broken by the hail. Property damage was estimated at \$75,000, and damage to ripened wheat at \$100,000.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (Cont'd)									
Near Olton Lamb County	16	night	7	?	0	0	?	?	Tornado, rain A small tornado twisted off the roof on the north side of the Leonard Stamp home 5 miles south and 2 1/2 miles east of Olton. Windows were blown outward, and the noise was described as similar to that of a train. The Stamps family, at home at the time, were not injured. Torrential rains accompanying the storm resulted in 80 to 100 per cent loss to crops on several farms in the area.
N Floyd County	16	night	5	*2	0	0	0	?	Hail, rain Heavy rains and hail severely damaged crops in a 2 x 5 mile area in the north section of Floyd County. Hailstones averaged one inch in diameter.
Hale County	16	night	?	?	0	0	?	?	Hail, rain, wind Hail and heavy rain severely damaged crops in Hale County from the Happy Union Community to just west and south of Aiken, across the Irick community, and into the Pleasant Valley community, five miles south of Lockney. Hail completely destroyed several thousand acres of crops. The main part of the storm covered an area about three miles wide and ten to twelve miles long. At the Widner place, about four miles southwest of Lockney, high winds tore fifteen feet off a quonset barn, destroyed a windmill and a barracks building, moved a full 1000 gallon butane tank some 20 or 30 feet and blew out windows at the house. The high winds also blew four box cars parked on the siding at Murcy Switch down the tracks toward Floydada.
Stanton Martin County	18	11:50 p	7	?	0	0	?	0	Wind Thunderstorm winds blew in the north side of a nearly completed grain storage tank causing \$30,000 damage. A 96-foot replica of an oil derrick was torn away from the Belvue Motel causing about \$5000 damage.
7 SE Premont Duval County	20	8:00 p	2	100	0	0	?	?	Tornado A tornado dipped down on the Charles Hornsby Ranch seven miles southeast of Premont and demolished a large hay barn. Power lines, small trees, and other vegetation in the tornado path or along the edge were heavily damaged.
Castroville Medina County	21	evening	?	?	0	0	0	5	Hail, wind Nearly 100 buildings including homes were damaged by hail and high winds which struck Castroville. Major damage was to roofs, windows and screens. In the area, maize and corn were blown down, vegetable and flower gardens hard hit, and trees and limbs were blown down. Hail the size of golfballs was reported between Castroville and Homdo. Total damage to buildings, trees, crops, and tender vegetation was expected to exceed \$100,000.
West Harris County	22	4:00 p	short narrow		0	0	0	0	Tornado A tornado cut across the W. L. Tweed farm in West Harris County without causing any damage.
Levelland Hockley County	23	8:00 p- 12:30 a	1 1/2	*1 1/2	0	0	4	5	Wind Strong thunderstorm winds caused an estimated \$12,000 damage to one airplane hanger at Levelland Airport and roof of grandstand at rodeo arena near Levelland. 25,000 acres of cotton and grain sorghum crops were severely injured. 15,000 acres were totally destroyed and required replanting. Crop yields were lowered even on those that did not require replanting. Crop loss in the Levelland area was estimated at \$150,000. Wind speed during the storm was estimated at 50 to 100 mph.
2 1/2 NE Alvin Brazoria County	28		short narrow		0	0	?	?	Tornado, wind, hail A small tornado dipped down on farmland 2 1/2 miles northeast of Alvin. A barn was destroyed and several power line poles knocked down. Hail up to an inch in diameter, whipped by winds estimated at 55 mph stripped rice crops in the fields outside Alvin. Three homes received minor damage from lightning.
SE Longview Gregg County	28				1	0			Lightning One person was killed when struck by lightning while sawing down a tree at a construction site just southeast of Longview.
2 S Skidmore Bee County	29	2:10 p	short narrow		0	0	4	0	Tornado Small tornado destroyed two barns on Gil Limerick Farm including \$5000 worth of hay stored in the barns. Several outhouses and chicken houses were destroyed on the Alex Duge Farm. Utility lines and poles in the path of the storm were destroyed resulting in \$1800 loss. 1.2 inches of rain and some hail accompanied the storm.
Lancaster Dallas County	30	afternoon							Funnel aloft
Mesquite Dallas County	30	5:30 p	?	?	0	2	?	?	Wind, rain, hail A massive thunderstorm lashed the Cass Viper section of Mesquite and other parts of north and east Dallas with strong winds, hail, and rain estimated up to six inches. In Mesquite, two persons received minor cuts when glass sliding doors blew in, in the 2300 block of Trade Wind and the 2400 block of Bamboo Streets. A spattering of hail accompanied the downpour.
UTAH									
Sanpete, Salt Lake, and Davis Counties	1	1:45 to 4:00 P.M.			1	6	4	0	Heavy thunder- storms & lightning In a series of thunderstorms over northern Utah, lightning struck and killed a 15-year old sheepherder as he herded sheep along the highway near Indianola. Struck and burned a family of six huddled under a tree at the Spruces Picnic Area in Big Cottonwood Canyon and caused flash floods in Davis County area. The floods washed
UTAH (Cont'd)									
Bountiful, Davis County	3	3:05 P.M.	2	60	0	0	4	0	Tornado out canyon roads, flooded basements including six inches of water in the county courthouse at Farrington. Also washed out a newly seeded golf course, eroding fairways and delaying opening by several months. Shortly after 3 P.M. a tornado ripped roof off Bountiful Elementary School doing \$20,000 damage, then his house across street as it moved in an SSE direction tearing roof off west side and dropping it on automobiles in yard next door. It then skipped a half block and tipped roof off shed, carried it across owner's home and deposited it some 200 yards away in small orchard. It tore limbs off a bonewood tree leaving only trunk standing and broke 3-foot diameter cottonwood off just a few feet above ground, throwing it across a residence. It touched the ground again about 2 blocks away, completely destroying a two-car circle-block garage. The tornado then skipped about a half mile uphill where it completely destroyed one home under construction and damaged several others. Several sheets of 3/4" plywood were peeled from a stack and carried over 300 feet through the air. One sheet was driven 6 inches into telephone pole. Debris from school was scattered over a half-mile area along path. 3/4 to 1-inch hail following tornado broke windows and knocked out a car, but surprisingly no people reported injuries.
Salt Lake County	3	3:00 to 3:15 P.M.			0	0	4	0	Wind Winds with gusts to 34 MPH, the strongest ever recorded at the Salt Lake Airport, accompanied an active cold front across the Salt Lake valley. While there was no evidence of a tornado, several hangars were destroyed and planes inside damaged. Evacuation of the control tower was necessary and a light plane in the process of landing was flipped over. No injuries reported.
Cedar City, Iron County	3	2:45 PM			0	0	4	0	Wind Wind accompanying cold front did extensive damage to livestock pavilion. Destroyed front portion of \$180,000 building.
Western slopes of Wasatch Mountains, northwestern portion	6	7:00 PM			0	0	4	0	Thunderstorms and heavy rain Several severe thunderstorms knocked out power lines, started small fires, flooded basements and washed out yards. Union Pacific tracks near Brigham City damaged by flood.
Haeser, Uintah County	13	10:00 PM			0	0	3	0	Lightning Lightning struck haystack causing it to burn. Fire spread to surrounding tool sheds destroying machinery and buildings.
Salt Lake and Cache Counties	14	Afternoon			1	0	3	3	Lightning and heavy thunderstorms Shortly after noon lightning struck and killed man just south of Logan, knocked horse and another man to ground with no serious injury. Scattered thunderstorms with 1/2 to 3/4" hail did considerable damage to crops and flowers. Local flooding along bench areas in Salt Lake City including university stadium.
Tooele County	17	4:35 PM			0	1	3	0	Thunderstorms and lightning Heavy thunderstorms in Tooele and Grantsville areas knocked out power. Considerable local flooding of basements. Lightning struck car in Tooele injuring man just entering it. As storm moved across Grantsville, a horse was killed by lightning.
Logan, Cache County	21	8:30 AM			0	2	3	2	Thunderstorm and lightning Lightning injured 2 people in southeast area of city, knocked down a boy at play and a man at work in same area. Heavy hail and precipitation caused local flood damage and damage to grain and alfalfa crops.
VERMONT									
None reported									
U.S. VIRGIN									
None reported									
VIRGINIA									
York, Warwick and Hampton Counties	1-2	Afternoon	0	0	0	0	4	?	Heavy rain A coastal storm brought heavy rainfall with amounts for the 36 hour period above 7 inches in most areas causing some flooding. Flooding disrupted traffic flow on primary highways and some evacuation was required in low lying residential areas. Some patients at the Patrick Henry Hospital had to be moved and boats were needed to evacuate a few families from their homes and automobiles. A washout occurred along the Chesapeake & Ohio west bound rail lines near Yorktown and a small dam gave way at Williamsburg.
Norfolk County	14	10 p.m.	0	0	0	0	?	?	Lightning & hail Norfolk and Ocean View had hail up to 3/4 of an inch in diameter. Lightning and hail from scattered thunderstorms throughout the Tidewater Area knocked out electrical power in a few communities. Hail damage to crops was minor.

See reference notes at end of table.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

DELAYED DATA

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
WASHINGTON Whitman & Spokane Counties	16	Afternoon			0	0	1	4	Hail
	A severe thunderstorm accompanied by hail and heavy rainfall caused extensive damage to peas and other crops in a small area near Pullman and Colfax. Minor wind damage was reported in Spokane County.								
WEST VIRGINIA					None reported				
WISCONSIN									
Near Saxon	4	late afternoon			1				Lightning
State	7	morning and afternoon			1	1	5		Squall line
	Fast moving squall line with violent thunderstorms, hail, and strong winds crossed state. Damage to buildings, boats, and thousands of trees. Squall line entered state in northwest in late morning and left state in southeast in late afternoon. Drowning at Madison.								
Central and Southern Counties	8	late afternoon and evening			5	1	5		Squall line
	Line of severe thunderstorms with damaging winds moved southeastward across state. Property and tree damage heavy in La Crosse area, Fox Valley, and southeast. Five drownings.								
Hustiford	8	7:15 P	short	30			5		Tornado
	Traveled from the northwest to the village and then turned and moved eastward.								
Hartland	8	7:45 P							Funnel
Burlington 105W	8	8:00 P							Funnel
	3 funnels observed								
Lomira	13	4:55 P					3		Tornado
	Touched down momentarily, drawing water out of small fish pond. Moved from northwest.								
Madison	26	4:30 P			1				Lightning
Wausau	27	11:22 A							Hail
	Hail of one inch diameter damaged gardens.								
WYOMING									
Hawk Springs 3W	14	6:00 p.	?	?	0	0	4	0	Tornado
	Tornado destroyed and damaged farm outbuildings and damaged equipment. Path of storm unobserved because of heavy rain.								
Park, Sheridan, Big Horn, Washakie, Hot Springs and Fremont counties	15-16				0	0	*6	C	Heavy rains and flash flooding
	Heavy rains in the Wind River, Absaroka, and Big Horn Mountains caused flash flooding during Saturday and Sunday, the 15th and 16th. Considerable damage done to homes, equipment, crops, irrigation canals, roads and bridges.								

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
PUERTO RICO	Dec.	1962	None	reported					
VIRGINIA	Dec.	1962	None	reported					
U. S. VIRGIN IS.	Dec.	1962	None	reported					
HAWAII	Jan.	1963							
Kahului	26	12:27 - 12:35 p.			0	0	0	0	Waterspout
	Waterspout sighted about 8 miles south of Kahului Airport. The location was estimated as 3/4 mile offshore between Kihai Post Office and the Bureau of Standards. Movement was slight but appeared to be northerly.								
Kahului	31	9:01 - 9:15 a.			0	0	0	0	Waterspout
	Waterspout sighted about 10 miles south-southeast of the Kahului Airport, apparently moving northeast.								
NEVADA	Jan.	1963							
Eastern Slopes of Sierras in vicinity of Reno	31		Flooding	along eastern slopes of Sierras in vicinity of Reno which began in 31st, will be included in February report.					
UTAH	Jan.	1963	None	reported					
CALIFORNIA	March	1963							
Wasco 9 ENE	17	4:09 P - 4:23 P							Funnel cloud aloft
Fresno and Tulare Counties	25	afternoon			0	0	4	0	Wind
	Wind unroofed packing plant loading platform, destroyed signs, toppled trees, and downed utility lines.								
Tulare and Kern Counties	27	late evening			0	0	4	0	Wind and rain
	Steel roofing and aluminum awnings damaged; doors and windows broken; trees and utility lines down; oil derrick damaged; signs destroyed; rain damaged interiors where roofs opened.								
OKLAHOMA	Mar.	1963							
Tulsa, Tulsa County	30	Morning			0	1	0	0	Wind
	One construction worker received a broken leg when winds gusting near 30 MPH in southeast part of City blew over a church building frame under construction.								

USCOMM-WB-ASHEVILLE--7-31-63---1000

- ° 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.

SUBSCRIPTION PRICE: 15 cents per copy; yearly subscriptions \$1.50 domestic, \$2.00 foreign. Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to "Superintendent of Documents, Government Printing Office, Washington 25, D. C."