

U. S. DEPARTMENT OF COMMERCE
FREDERICK H. MUELLER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

STORM DATA

APRIL 1960

Volume 2 No. 4



ASHEVILLE: 1960

STORM DATA AND UNUSUAL WEATHER PHENOMENA

APRIL 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)		WIDTH OF PATH (YARDS)		NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
			Est.	*Est.	KILLED	INJURED	PROPERTY	CROPS			
ALASKA											
Cordova	6-7	6:00 p.m. to 2:00 a.m.	Est. 100	*Est. 50	0	0	4	0			Windstorm
	<p>The center of a relatively weak low moved into the Prince William Sound area on April 6, and a rather strong front associated with this low, and extending along the coastal area to Yakutat Bay, brought strong winds to that immediate coastal area. Gusts in excess of 60 mph were reported from Cape St. Elias on April 6. The low re-developed in the open Gulf area on April 7 and again moved northward to the coast, this time the center reached the Cordova area. The frontal structure by the 7th was almost perpendicular to the coast. At the Weather Bureau Airport Station (Mile 13) wind speeds ranged from about 30 to near 60 mph, but the U. S. Coast Guard in Cordova reported speeds up to 104 mph. Although wind speeds of 55 to 80 knots were experienced on April 7 at Cape St. Elias and Yakutat, wind speeds of around 100 mph appear to have been confined quite well to the immediate Cordova urban area, and apparently did not extend beyond the ridge of the Chugach Range to the north of Cordova. The strongest winds at Cape St. Elias were from the southeast; at Yakutat the strongest were from the east-northeast. In the Cordova area the strongest were from the east. The strong winds at Cordova were accompanied by rain, combined with occasional sleet and snow, but the damages appear to have been due almost entirely to the strong winds.</p> <p>The roof blew off of a garage belonging to Hoover's Movers; one home was demolished and another badly damaged.</p>										
ARKANSAS											
Montgomery County	14	4:40 PM to 5:00 PM	8	600				4			Tornado, hail
	<p>Tornado moved from southwest to northeast from a point northwest of Black Springs to a point just north of Norman and southeast of Mount Ida. Hail stones up to one-inch in diameter fell over a 10-square mile area in the Mount Ida area of Central Montgomery County. Property damage due to the tornado is estimated at \$10,000 and the damage due to hail is also estimated at \$10,000.</p>										
Crawford County	14	4:45 PM to 5:15 PM	15	880			5	6			Tornado
	<p>Tornado moved east-northeastward from a point between Van Buren and Alma to a point to the north of Mulberry. Heaviest damage was to the west and north of Mulberry.</p>										
Lamar - Johnson County	14	9:00 PM	2	100				4			Tornado
	<p>Tornado moved eastward from Lamar to the Cherry Grove Community in Johnson County. The Lamar High School was severely damaged.</p>										
CALIFORNIA											
Fullerton	8				0	0	2	0			Wind
	<p>Strong winds damaged utility lines.</p>										
Los Angeles Area	12				0	0	3	0			Wind
	<p>Strong winds damaged trees and utility lines.</p>										
San Francisco Bay Area	21-22				0	3	3	0			Wind
	<p>Wind damaged trees, utility lines, and signs. One man was hurt when his car was overturned by the wind; another when a sign was blown from its standard; and a woman was cut by glass blown from a second floor window.</p>										
Sacramento and San Joaquin Valleys	23	aftn.			0	0	0	3			Hail and wind
	<p>Minor crop damage resulted from hail. A funnel cloud was reported 5 miles east of Sacramento, but it dissipated without touching the ground. (Hail was also reported in the San Luis Obispo area, but no damage was reported.)</p>										
Los Angeles Area	22				0	0	2	0			Wind
	<p>Wind tore several boats from their moorings in Santa Monica harbor. Wind damage was also reported to utility lines.</p>										
Southern California	27-28				4	0	4	0			Rain
	<p>Heavy rain closed highways and caused local flooding. One man was drowned, and three were killed in traffic accidents blamed on the rain.</p>										
COLORADO											
Entire State	16	All day					5	*5	C		Wind
	<p>Strong gusty wind rose in the morning, increasing in intensity by the middle of the day, then diminishing by evening. The hardest wind was reported between the hours 11:00AM to 1:00PM. Damage to buildings, power & telephone lines, signs and crops was heavier in northeastern Colorado where winds of 60 to 60MPH with gusts up to 80MPH were recorded. Crop damage was not heavy, although wide areas were affected. Five persons were injured in Metropolitan Denver as a result of the high wind.</p>										
COLORADO (cont'd)											
Mesa, Delta & Montrose Counties	17-25	early morning							6		Freeze
	<p>Freezing temperatures during the early hours of the 17th, did considerable damage to all fruits in the principal fruit growing areas of the state. Freezing temperatures again on the 25th added to the fruit loss. Some localities report from 40% to 60% loss of fruit, while many orchards suffered heavier damage up to a complete loss. A low of 27° on the 25th at the Grand Junction station was the lowest of record for so late in the season. Damage was particularly heavy because of early development following above normal temperatures the latter part of March and first part of April, and warm weather between freezes producing additional development subject to later freezing. There was scattered frost damage in other parts of the state.</p>										
Entire State	30	early morning							5		Freeze
	<p>Eastern slope fruits and some other crops were damaged and there was some additional damage in western slope fruit areas from freezing. A minimum of 22° at the Denver Airport was a record low for the date.</p>										
CONNECTICUT											
New Haven County	23	Evening									Hailstorm
	<p>Hail in Guilford.</p>										
Middlesex County	24	3:00a to 6:00a							3	3	Lightning
	<p>Thunderstorms scattered through state. Several trees hit and small attic fire started in Old Saybrook.</p>										
Middlesex, New London and Hartford Counties	24-25	7:00p to 1:00a							3	3	Hailstorm
	<p>Series of thunderstorms caused several power failures. Moth ball size hailstones in Middletown and Colchester, pellet egg size hail in East Hampton and 1/2 inch hail in Hartford.</p>										
FLORIDA											
West Panama City Beach Bay Co.	3	4:30 AM CST	Short	Narrow	0	0	5	-			Tornado
Mandarin Duval Co.	3	Afternoon	-	-	1	0	-	-			Lightning
Tallahassee Leon Co.	10	Afternoon	1/10	75	0	0	3	-			Tornado
	<p>Tornado damaged Piggah Methodist church which is located just north of Tallahassee</p>										
Punta Gorda Charlotte Co.	19	3:25 PM EST	-	-	0	0	-	-			Funnel cloud
Tampa Hillsborough Co.	21	Afternoon	-	-	0	1	-	-			Lightning
Homestead Dade Co.	23	8:35 AM EST	-	-	0	0	-	-			Waterspout
GEORGIA											
Southern half	1-5						0	0	5	6	Heavy rains
	<p>Heavy rains over the southern half of State caused extensive damage to roads, bridges, farm lands and new planted crops. Some homes and other buildings also damaged by local flooding. Re-planting required of most crops that had been planted. Heavy losses due to leaching of fertilizer. Greatest damage in south-central and southwest sections where rainfall totals exceeded seven inches some areas.</p>										
Attapulgus, Decatur County	4	Early a.	Short	Narrow	0	0	3	0			Tornado
	<p>Small tornado destroyed three tobacco barns and two tenant houses on southeast edge of town.</p>										
Lowndes County SW of Valdosta	4	10:27 a.									Funnel cloud
Alma, 60 miles WSW	27	9:15 p.									Funnel cloud
	<p>Funnel cloud reported by pilot.</p>										
Crescent, McIntosh County	27	4:00 p.			1	1	3	0			Lightning and wind
	<p>A 17 year old boy was killed and his mother injured by lightning on the porch of their home. At about the same time, strong winds unroofed a large equipment shed nearby. The shed roof damaged several cars.</p>										

See reference notes at end of table

STORM DATA AND UNUSUAL WEATHER PHENOMENA

APRIL 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS		
IDAHO Southwestern Valleys	16 23	Early & morning								Killing Freeze
	Extensive damage to fruits and sugar beets as temperatures fell as low as 17 degrees in orchards near Fruitland and at Kuna; 20 at Weiser, Payette, Grand View and Boise on the 16th. (New record low for so late in the spring at Boise) Further damage on 23d as temperatures dipped to middle and low twenties. Latest estimates indicate an almost complete loss of apricot crop; peaches lost except in a few sheltered areas; about 1/2 of cherry crop lost; extensive damage to delicious apples; 20 to 40% loss in prune crop and 10 to 25% of sugar beets killed, necessitating replanting. Orchard firing began as early as 10 P. M. of the 15th and an estimated 100,000 gallons of oil were burned, but winds in many localities made heating ineffective.									
Bear Lake	23	Late afternoon			2					Squall
	Boat in which three men were fishing was swamped by a heavy swell off east shore of Bear Lake. Owner of boat survived by swimming 150 yards to shore, but two companions were drowned.									
ILLINOIS West-central	11	6:30 a. - 10 a.			1	0	4	0		Electrical
	Lightning fires were reported from or near Jacksonville, Quincy, Pittsfield, and Springfield. Utilities were damaged at Peoria and in the Sunmyland area of East Peoria a man was killed while working in his yard at 6:30 a.m.									
Springfield	15	10:45 p.			0	1	3	0		Electrical
	Lightning strikes caused minor damage at about ten places. There was one minor injury.									
Delavan	16	12:05 p.	3	60	0	0	3	0		Tornado
	Whirling cloud sighted while apparently moving toward the north or northeast. Damage at two or three farmsteads near Winkel Station.									
Northeast portion	16	7-10 p.			0	0	4	0		Windstorms
	Heavy thunderstorms moving southeastward caused light to moderate damage at several points. Damage by wind reported near Sheridan at 7:45 p., south of Streator at 8:30 p., in Ottawa at 9 p., west of Morris at 10 p., and south of Strawn at 10 p.m. Some of the times appear doubtful. One or more tornadoes may have occurred.									
Sterling	16	8 p.			0	0	4	0		Electrical
	Lightning strike and fire damaged a church.									
Plainfield	16	9:30 p.	?	?	0	0	3	0		Probable tornado
	Probable tornado wrecked a barn in Eaton Farm area.									
Godfrey	16	10:15 p.			0	0	4	0		Electrical
	Lightning fire destroyed a student cabin at Monticello College.									
Nashville	17	2 a.	?	?	0	0	4	0		Tornado
	Tornado moving toward the northeast wrecked a commercial garage at Nashville. Wind damage reported near Centralia and Salem may have been caused by the same storm system moving toward Effingham County.									
Flora-Newton	17	2:45 a.	?	30	0	0	4	0		Windstorm
	Windstorm moving toward the northeast wrecked an outdoor movie theater 4 miles north of Flora. The storm may possibly have been a tornado. Minor wind damage at Newton from the same storm system.									
Edgewood-Dietrich	17	2:55 a.	20	200	0	0	4	0		Tornado, wind
	Tornado and associated windstorms moved rapidly northeastward through southern Effingham County and damaged about 20 farmsteads. This is probably the same storm complex that struck Nashville earlier and may later have caused the wind damage at Casey.									
Cairo	17	3:56 a.	1	60	0	4	4	0		Tornado
	Tornado moving toward the east-northeast destroyed a commercial garage and damaged a restaurant at the intersection of Highways 3 and 51. No reported activity in Missouri (3 miles west) nor in Kentucky (2 miles east).									
Shelby County	20	8:30 p.			0	0	4	0		Windstorms
	Wind squalls moving toward the northeast caused light damage at about a dozen homes or farmsteads in the Herrick-Cowden-Rolland area.									
Sparta	25	2 p.	1/2	20	0	0	3	0		Tornado
	Small tornado moving toward the northeast with intermittent path damaged an office building and a junk yard.									
ILLINOIS (cont'd) Atlanta	30	7:30 a.	1/4	30	0	0	3	0		Tornado
	Small tornado moving toward the northeast caused moderate damage to a farmstead in the Union area west of Atlanta. Skies were cloudy but no thunder, lightning, nor rain were observed at the time of the storm.									
Champaign County	30	10:30 a.	1	60	0	0	4	0		Windstorm
	Windsquall moving toward the east-northeast wrecked a dozen large, round, empty, steel grain storage bins. Some indications of lifting as by a tornado but not conclusive.									
INDIANA Kokomo, Howard County	16	3:15 P.			0	0	0	0		Funnel cloud
	Off duty meteorologist observed funnel cloud. Hail measured 3/8 inch in diameter. High winds caused scattered damage.									
Anderson, Madison County	16	4 P.			0	0	4	0		Tornado
	Small tornado travelling northeastward struck two farms on U. S. road number 36, 6 miles east of Indiana road number 9. High winds and hail of 1/4 inch diameter pelted surrounding area. A large metal barn was blown several feet from its foundation and badly damaged. Tops of trees nearby were torn off. A five square mile area felt the severe winds.									
Indianapolis Marion County	16	4:10 P.			0	0	3	0		Tornado
	Car port blown away and electric wires cut by funnel cloud which briefly touched ground in the 200 block of David Lane in northeast Indianapolis. Heavy rain and a roaring noise accompanied the disturbance.									
Pulaski Pulaski County	16	10:15 P.			0	0	3	0		Tornado
	A tornado struck a farm located 1.5 miles west of Pulaski damaging a shed, garage, automobile, and house. A couple of miles eastward a shed was damaged and some roofing blown off a barn.									
Terre Haute Vigo County	17	3 A.			0	1	4	0		Wind
	Garages, sheds and porches of five residences in the 700 and 800 block on North Fruitbridge Avenue in northern Terre Haute were damaged by strong winds. Four railroad boxcars were blown off their tracks and overturned. A young girl sustained lacerations when a board flew through a window.									
Chesterton Porter County	30	Afternoon			0	1	1	0		Tornado
	Small tornado uprooted a tree and damaged four automobiles. One person in an auto was injured.									
Kokomo Howard County	30	1:40 P.			0	0	4	0		Wind
	Heavy winds and rain lashed the east side of Kokomo. Three business places and several homes were damaged near the intersection of Markland Avenue and U. S. 51 By-Pass.									
IOWA Monroe	16	11:30 a.					4			Hail
	Hailstones 2 3/4 inch size causing approximately \$25,000 damage.									
Hamilton County	16	12:57 p.					4			Hail & wind-storm
	Hailstones 1 1/2 inch diameter in SW Hamilton County (15% of damage). Windstorm caused 85% of damage to roofs, signs and drive-in theater in Webster County.									
Between Albion & Marshalltown	16	200 p.					4			Hail
	3/4 inch hail, 2 inches deep on ground.									
Blockton	16	2:15 p.					4			Hail
	Hailstones 1 to 2 inches diameter.									
Reinbeck, Grundy County to near Jesup, Buchanan County	16	2:30 p.	35	800	1	5	6			Tornado
	Discontinuous path to NE. 50% of damage due to associated high winds in area. Train partially derailed.									
Chelsea, Tama County to Central Linn County	16	3:15 p.					1	5		Windstorm
	Many buildings damaged, a few demolished, livestock killed. One person injured as wind blew the garage door against her and pushed her over under a car backing from the garage. Damage near \$75,000.									
Mt. Ayr	16	3:35 p.					4			Hail
	Hailstones 1 1/2 inch diameter.									
Waverly	16	3:45 p.					3			Hail
	2 inch hailstones.									

See reference notes at end of table

STORM DATA AND UNUSUAL WEATHER PHENOMENA

APRIL 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM		
					KILLED	INJURED	PROPERTY	CROPS			
IOWA (cont'd)											
Garden Grove, Decatur County	16	350 p.							4	Hail	
	Approximately \$20,000 loss.										
North of Corydon	16	430 p.	8	200					4	Tornado	
	\$35,000 damage. One set of farm buildings demolished.										
South of Stockport to SE of Mt. Pleasant	16	630 p.	20	500					4	Tornado	
	\$25,000 damage.										
Burlington	20	420 p.							1	3	Lightning
	Child struck by lightning.										
Farlin, Greene County	24	Evening								3	Hail
	Hail size of baseballs.										
Ringsted	25	600 a.							1	3	Lightning
LOUISIANA											
Kentwood, Tangipahoa Parish	1	5:40 p.	4	*1	0	0	0	0	0	0	C Heavy hail
	Hail fell over path from 3 miles southwest to 1 mile NE of Kentwood and extended 1/2 mile either side of town. Hailstone covered ground up to 3-4 inches deep with drifts up to 12 inches. Severe damage to roofs, windows and vegetation. Continuous roar overhead.										
Lake Charles 3 SW, Calcasieu Parish	17	9:15 p.	?	?	0	0	?	?	?	?	Hail
	Hail reported 3/4 inch diameter but no details available.										
Milan 8 E, Texas Sabine Parish	25	6:00 p.	?	?	0	0	0	0	0	0	C Hail
	Severe damage over small area.										
Logansport-Zwille area, DeSoto & Sabine Parishes	26	6:00 p.	?	?	0	0	0	0	0	0	C Hail
	Apparently developed near Marshall, Texas, and moved southeast - hail covered ground Logansport area.										
West Cote Blanch Bay St. Mary Parish	26	10:20 a.	?	?	0	0	0	0	0	0	Waterspout
Abbeville 10 S, New Iberia, Loreauville, Vermillion-Iberia-St. Martin Parishes	29	6:00 p.	25	500	0	0	5	0	0	0	Tornado
	Heaviest damage near New Iberia at Naval Air Station Facility, but attendant high winds caused damage at Kaplan, Abbeville and Loreauville. Passed west of New Iberia.										
Hathaway, near Jefferson Davis Parish	29	5:00 p.	10	*1	0	4	4	0	0	0	Tornado
	Destroyed 1 house, badly damaged 7 and minor damage to 12.										
Lafourche, Terrebonne Parish	30	3:00 a.	-	-	0	0	4	4	4	4	Thundersqualls
	Thundersquall damaged property and crops near Houma and Schriever.										
Jefferson & Orleans Parishes	30	3:00 a.	-	-	0	0	5	0	0	0	Thundersquall
	High winds blew down trees, disrupted power, set a ship adrift which sank a yacht and a boatside dock.										
Baton Rouge	30	1:00 a.	-	-	0	1	4	0	0	0	Lightning
	Lightning struck power plant; many industries without power for several hours.										
Cameron, Cameron Parish	30	1:00 p.	-	-	0	0	0	0	0	0	Funnel Cloud
	Reportedly several funnel clouds.										
MAINE											
Greenville	3-4	During night			0	0	0	0	0	0	Glaze
Aroostook Co.	14	Afternoon			0	0	0	0	0	0	Glaze
MARYLAND											
Powhattan Beach, 10 miles east of Glen Burnie, Anne Arundel Co.	26	11:30 p.m. EST	*1000	30	0	0	3				Small tornado
	A small tornado damaged two houses, one automobile, and uprooted two trees. It appeared variously as a black ball, about 80 feet in diameter to one observer and as a funnel-type cloud to others. A noise like an airplane accompanied the storm. Circular motion was evident.										
East of Huntingtown, Calvert Co.	26	afternoon							4		Windstorm
	Strong winds accompanied by rain and hail destroyed eight barns, four full of tobacco and four partly filled with tobacco, and damaged several other barns, some sheds, and some farm equipment.										
MASSACHUSETTS											
Sudbury	7	3:50 p.m.	Short	Narrow	0	0	3	0			Dust Devil
	Dust devil ripped a small plane from its moorings, carried it 40 feet through the air and sent it crashing against a fence. Five other planes on field were not damaged.										
Dunstable	8	Forenoon			0	0	0	0	0	0	Glaze
State	24-25	Evening and night			0	0	4	0			Electrical and hail
	Frequent lightning to ground. Numerous power and communication interruptions from strikes. A number of homes had minor damage from lightning and one home in Marblehead was destroyed by resultant fire. A barn in Westminister was also burned. A church steeple was damaged in Charlemont. Many reports of hail, some up to golf-ball size, in central and western Massachusetts, but no damage was reported.										
MICHIGAN											
Wyoming (Suburb SW of Grand Rapids)	17	12:40AM	1 1/2	300	0	0	4				Tornado
	Tornado moved northeastward through Wyoming damaging 24 houses. Area is sparsely settled otherwise damage would have been high										
Ironwood, Mich.	22	11 PM			0	0	4				
	Area near Ironwood hit by severe lightning setting fire to 4 buildings.										
All Lower Michigan	24	7 PM			0	4	4				
	Severe thunderstorms with local high winds. Several barns near Clare destroyed by high winds plus numerous billboards and signs damaged considerably. Lightning set several fires. Barn with 33 head cattle destroyed near Stockbridge. Eight head cattle killed in barn by lightning near Milford. Hail 3/4" reported near Ludington. Total damage in vicinity of \$50,000.00.										
Southwestern Lower Michigan	30	Afternoon and Evening			0	0	4				
	Thunderstorms with local high winds. Damaged airplane hangar and aircraft at Dowagiac with estimated damage of \$12,000.00. Barn destroyed and 3 cows killed at Leslie in southern Ingham County.										
MINNESOTA											
Minneapolis-St. Paul, Hennepin-Ramsey Counties	24	5:00 p.			2	1	4	0			Electrical, wind, heavy rain, hail
	A tree felled by lightning and wind crushed a car killing its two occupants. Lightning knocked out a power substation disrupting power service to over 1000 homes; two houses and one apartment building also struck resulting in one injury from falling plaster. Heavy rain falling within an hour or so and ranging from 0.20" at Airport Station to 1.57" in central Minneapolis plugged storm sewers and flooded many streets and basements. Marble size hail was general. Several small aircraft at Flying Cloud Airport were turned over; many more were dented by falling hail. The storm moved ENE through the metropolitan area.										
MISSOURI											
Shelbina, Shelby County	15	5:04 p.-5:09 p.					4				Thunderstorm
	Hail stones the size of golf balls, some round, some flat, and some transparent clear ice fell several minutes before heavy rain. Almost covered the ground.										
Cass County	15	5:30 p.-6:30 p.	15	500-1000			1	5			Tornado
	This tornado formed in Kansas, immediately across the border west of Cass County near Louisburg. It dissipated about 5 miles south of Belton, Mo. Several farm buildings damaged. One man slightly injured when porch collapsed. This tornado changed direction several times during its path. Very heavy rains followed the tornado.										
Cass, Johnson, and Pettis Counties	15	6:30 p.-11:30 p.					5				Thunderstorms
	Heavy rains with 8.10 inches at Pleasant Hill, 5.49 at Warrensburg, and 5.60 at Sedalia caused flash flooding.										
Columbia, Boone County	15	10:30 p.									Funnel aloft
	Reported 10 W Columbia. Moved to 10 NE.										
Maryville area, Wodaway County	16	Afternoon					3				Thunderstorm
	Baseball-size hail fell south of Maryville and west of Barnard.										
Gentry and Harrison Counties	16	3:00 p.-3:30 p.	20	300			3	4			Tornado
	Tornado path started 1 1/2 miles south of Gentry and ended 10 north of Bethany. Several farm buildings damaged. Three persons injured hurrying to a storm cave.										

See reference notes at end of table

STORM DATA AND UNUSUAL WEATHER PHENOMENA

APRIL 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM			
					KILLED	INJURED	PROPERTY	CROPS				
MISSOURI (cont'd)												
Lucerne-Unionville area, Putnam County	16	4:30 p.-5:30 p.	20-25					4	Tornado			
Details are not complete, but this storm apparently formed near Lucerne and moved to 10 NE of Unionville. Several homes and farm buildings damaged. Witnesses tell of hearing a roaring noise.												
Orrick, Ray County	16	7:56 p.							Funnel aloft			
Kansas City, Jackson County	16	8:00 p.							Funnel aloft			
Boonville, Cooper County	16	9:25 p.							Funnel aloft			
MISSOURI												
Columbia, Boone County	16	10:30 p.-11:00 p.						2	Funnel aloft			
This was in connection with a thunderstorm that passed just south of Columbia. Several witnesses reported hearing a roaring noise. Buildings on one farm 6 SE of Columbia were damaged.												
McDonald County	29	Afternoon						4	Thunderstorm			
Heavy damage to strawberry crop by hail.												
MONTANA												
Lewis and Clark and Cascade Counties	22	Early Morning	90	* 30	0	0			Heavy Snow			
Snow began early morning of 22nd and continued until the morning of 23rd. Snow especially heavy over Continental Divide. There was no severe damage from the storm. Secondary roads were blocked for two or three days and travel was difficult on main highways, particularly mountain passes. Snow accumulated to a depth of 30 inches on Fletcher Pass near Lincoln.												
Flathead and Swan Valley Areas	22	4:30 p.m.	30	* 2-5	0	0	5	0	High Wind			
High winds blowing from east to west over the Swan Range caused heavy blow-down of timber in the National Forest. It was estimated about 2,000,000 board feet of timber was downed. Much of this will be salvaged. Due to wet soil, most of the trees were uprooted rather than snapped off. Heaviest damage to real property was at Lake Elsinore where trees fell on houses. There was some damage throughout area to roofs, mostly from trees being blown over. Power and telephone service was disrupted for 26 hours in some areas. Estimated damage to power and telephone lines, \$25,000, to real property, \$15,000. Storm ended about 5:00 a.m. on 23rd.												
NEBRASKA												
Western Nebraska	1	afternoon	widespread		0	3	4	4	Windstorm			
Two house trailers blown from course on highway and wrecked, one in path of oncoming car. Considerable blowing of soil from wheat plants.												
Near Lewellen	2		short narrow		0	0	3		Tornado			
New garage demolished and sheep shed blown down.												
Niobrara (5 mi. west)	12	afternoon	spot		0	0	4	0	Lightning			
House struck and burned to ground.												
Near Clearwater	12	afternoon	spot	spot	0	0	3	0	Lightning			
Two cows killed.												
Cozad	12	evening	spot		0	0	3	0	Windstorm			
Portion of roof of alfalfa mill removed.												
NEW HAMPSHIRE												
Dixville Notch-Colebrook	18	Afternoon			0	0	4	0	Heavy rain			
Heavy local rain in Dixville Notch area instrumental in Balsam Reservoir break. Resultant local flooding along Mohawk River with one home destroyed and six others damaged.												
NEW JERSEY												
Cream Ridge, Marmouth County	18	9:30 a.	1/2	50	0	0	2	0	Tornado and rain			
Small tornado tore a newly-laid roof from a shed and carried the galvanized roof over adjacent barn 45 feet high; roof was carried through the air 2/10 of a mile and landed at edge of apple orchard.												
NEW MEXICO												
Lovington, Lea County	26	5:30 p.			1	0	0	0	Lightning			
Farm worker struck by lightning near Lovington.												
Lovington, Lea County	26	3:00 p.			0	0	0	0	Funnel aloft			
A well formed funnel cloud observed over the city. Funnel remained aloft.												
Hobbs (near), Lea County	26	2:00 p.	1/2	20	0	0	0	0	Tornado			
A small tornado sighted on ground over open country, no damage resulted.												
NEW YORK												
Western Counties and Southern Tier	1							5	Moderate rains, local flooding			
Local flooding of streams, confined chiefly to western counties and Southern Tier counties. Moderate rains and warm temperatures caused a rapid snowmelt with considerable localized flooding. Flooding was substantial in the Elmira, Binghamton, Salamanca and Rochester areas but confined chiefly to lowlands with a few highways blocked.												
Statewide	4-8							6	Moderate to heavy rains, flooding			
High waters in most small streams and many large streams, including the Mohawk-Hudson Basin, the Susquehanna Basin, Buffalo area, Syracuse area, and streams draining into the St. Lawrence. Moderate to heavy rains, warm temperatures and snowmelt brought already high level streams over their banks and the Hudson Basin reported highest levels since 1928-49 floods. Heavy damages resulted in the Oneonta area and estimated to be 1/4 million or more. \$15,000 or more damages in the Buffalo area.												
Utica area, Oneida County	12	mid-day						4	5	High wind, hail		
High winds with velocities to 60 mph and softball size hail stones during thunderstorm. One building collapsed, tree limbs and utility wires were downed.												
Saratoga, Oneida and Jefferson Counties	24-25							4		Thunderstorms, heavy rain, wind		
Severe thunderstorms, heavy rain, lightning and winds up to 75 mph. In the Saratoga area 350 homes were without power or telephone service. The Utica area suffered minor landslides. About 700 homes in the Watertown area were without power.												
NORTH CAROLINA												
Edenton area, Chowan County	27	4-5:50p.			0	0	4	4	Rain			
Over five inches of rain in less than two hours flooded storm drains and overflowed into streets and basements in many sections of Edenton. Hospital basement flooded over eight feet deep, with heavy damage to facilities. Similar damage to many businesses and homes. Much washing of shrubbery and gardens as well as farm crops.												
NORTH DAKOTA												
Eastern Section	2									Heavy snow 4 to 12 inches in depth		
OHIO												
Hicksville	16	5:07 PM	3/4	75	0	0	3	0	Tornado			
This storm, obviously a poorly-developed tornado, struck in the southwestern corner of Hicksville and traveled northeastward across the town. Most damage was done to roofs, television antennas, and cretoses. A small church was twisted on its foundation. The wind struck suddenly and lasted less than one minute.												
Massillon; Canton	16	6:30 PM	10	2:00	0	0	4	0	Hailstorm			
An unusually severe thunderstorm moved across the area from southwest of Massillon past the Akron-Canton airport. During its passage heavy hail fell, many stones being of golf-ball size. Principal damage was to trees, windows, automobile tops and aluminum siding on houses. Due to lateness of the season, crops were not sufficiently advanced to sustain damage.												
The above storms occurred in connection with a cold front advancing across the state. Heaviest thunderstorm rainfall occurred in northern counties; and hail fell in numerous places, among them an area between Berea and the Cleveland Airport. Also, an unconfirmed tornado was reported from Van Buren.												
OREGON												
Coastal and Northern Oregon	13	Most of the day						0	7	5	3	Wind Storm
Very high winds which reached highest official velocities at Pendleton Weather Bureau Airport Station with a recorded fastest one minute of 77 mph and gusts up to 90 mph. A large number of trees were blown down in both farm and city areas well distributed over northern, western Oregon. Many buildings suffered extensive damage either from force of wind or from wind felled trees. Widespread interruptions to power and telephone service. Both airline schedules and shipping over Columbia River Bar were interrupted.												
Columbia Basin, Snake and Rogue River Valleys, scattered other areas	16	Early morning			0	0	1	5				Severe Freeze
In the Snake River Valley 8-10 thousand acres of recently emerged sugar beets were lost and had to be replanted as new low temperature records for this late in spring were set at some points; also, first picking strawberries and most of fruit was destroyed. In Columbia Basin considerable acreage barley, lesser amounts some other less hardy grains were frozen out. In Rogue Valley very serious losses in unheated pear orchards. Scattered damage to crops in other areas, but generally not significant to State's agricultural production.												

See reference notes at end of table

STORM DATA AND UNUSUAL WEATHER PHENOMENA

APRIL 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OREGON (cont'd)									
Coquille	28	10:20 AM	None	None	0	0	0	0	Tornado Funnel
			Report received from a witness of tornado funnel which formed and was visible for only a few minutes 2 miles west of Coquille, Oregon. It moved from a north northeast to south southwest direction and at no time touched the ground. Shortly after its brief appearance very dark clouds from which heavy rains seemed to be falling were observed.						
PENNSYLVANIA									
Lancaster County	26	5:00 PM			1	3			Thunderstorm
			One woman was injured when 40 mph winds toppled a sign board which broke with one piece flying through the air striking and breaking shoulder. Property damage was confined to downed billboards.						
RHODE ISLAND									
Statewide	24-25	9:00p to 2:00a					4		Lightning, Hailstorm
			Lightning started fires which destroyed barn in West Kingston and large part of a residence in Middletown. Smaller fires set by strikes on 2 homes in Warwick, 1 in East Greenwich and on a plant in Woonsocket. Marble size hail in many sections including Westerly and Cowsett. Power failures in Portsmouth, West Warwick, Coventry, Burrillville and other communities.						
SOUTH CAROLINA									
Over Myrtle Beach, Horry County	4	1230 E	-	-	0	0	0	0	Extreme turbulence
			Pilot report at 10,000 ft.						
SOUTH DAKOTA									
Eastern half	1-2	Early AM of 1st to Early PM of 2nd.							Snow
			Heavy snowfall totaled 12 to 18 inches in Tripp, Gregory and Charles Mix Counties of the south central division and 4 to 10 inches generally in eastern half of the state. Highways closed or very hazardous due mainly to difficulty of plowing the heavy, wet snow but also to some drifting. Schools closed at Ipswich, Edmunds County and numerous public gatherings postponed in affected areas. A few smaller towns, such as Bonesteel, Gregory County with 18 inches of snow, were isolated for about 2 days. Power and phone failures of short duration were caused by snow-fall in the Aberdeen area. Snowfall with high water content aggravated floods currently in progress on James, Vermillion and Big Sioux Rivers. Benefits of snowfall great because of contribution to soil moisture reserves.						
Extreme southeast	12	12 noon to 4 P.M.			1	3			Electrical
			Lightning: Haystack struck and burned, trailer house struck with minor structural damage, and motor burned out at ice cream store, all in Springfield, Bon Homme County. Man struck by lightning and knocked unconscious at Avon in same county. Power line struck at Beresford, Union County knocking out electrical service to Municipal Building and Fire Department. Lightning was reported to have killed ten wild geese in flight about 300 feet above the ground near Elk Point, Union County.						
Mission, Todd County	23	Early A.M.					3		Electrical
			Lightning killed two cows and struck house and damaged electrical appliances. Telephone and power service disrupted by lightning strikes.						
TENNESSEE									
Nashville, Davidson County	6	Near noon			0	1	0	0	Wind
			A painter, blown from a scaffold, suffered a cut forehead.						
Pulaski, Giles County	21	4:15 a.			0	0	4	0	Wind and rain
			Wind damaged roofs of 8 stores allowing extensive water damage by the accompanying driving rain. Several windows were broken, trees were uprooted and TV antennas were bent or toppled.						
TEXAS									
Friona, Farmer Co.	12	5:30 pm	short	narrow	0	3	3		Tornado
			50-foot house trailer rolled 200 feet; windows & TV antennas broken, high school bleacher seats damaged. During thunderstorm with hail.						
6 1/2 N Muleshoe, Bailey Co.	12	eve			0	0	3	0	Tornado
			Did not quite touch ground, unroofed house & demolished barn.						
Sunnyside, Castro Co.	12	8 pm	5	100	3	32	5		Tornado
			Moved NE about 15 mph. Church, 6 residences, one store, grain elevator, gin, 30 autos, farm machinery, TV antennas completely demolished or heavily damaged, some livestock killed.						
San Angelo area, Tom Green Co.	13	abt 9:30 pm			0	0	0	0	Funnels aloft
Mesquite, Dallas Co.	14	4:40-5:25 pm			0	0	6	0	Hail
			Moved NW; average diameter of stones 2 inches, largest stone 2-3/4 inches. Damage to roofs, windows, autos, trees and gardens, crops, in heavily populated area.						
Mesquite, Dallas Co.	14	btwn 4:40 & 5:25 pm			0	0	0	0	2 funnels aloft
White Rock Lake, Dallas Co.	14	6:50 pm			0	0	0	0	Funnel aloft
5SW Ft. Stockton, Pecos Co.	21	6:40 pm	1/4	200	0	0	4		Tornado
			Moved SW followed by hail. Two homes, some barns & sheds wrecked. Two workers picked up, dropped 250 yards away, unbrnt.						
Ft. Stockton, Pecos Co.	21	6:40-7:20 pm			0	0	4	0	Hail
			Moved SW, damage to roofs, autos, electric signs & windows. Young cotton crop damaged. During heavy thunderstorm.						
McLean area, Gray & Wheeler Counties	22	8-9:30 pm	12	*3 1/2	0	0	4	3	Hail
			Moved NE, average diameter 1/2-inch. Largest stones 1-inch diameter. Damage over approximately 50 sq mi area, SE part of Gray Co. & SW corner Wheeler Co. Accompanying heavy rain.						
Clifton, Bosque Co.	24				1	0	0	0	Electrical
			Man struck and killed by lightning.						
Terrell, Kaufman Co.	25	4:25-4:40 pm	6	*1 1/2	0	0	4	0	Wind
			Strong SE winds struck at airport, unroofed buildings and ripped metal sidings, broke plate glass windows, heavily damaged three house trailers, overturned 3 more. Accompanying heavy rain (0.90 inch in 5 minutes) with hail.						
Terrell, Kaufman Co.	25	4:30 pm			0	0	0	0	Funnel aloft
Glen Flora, Wharton Co.	25	before 7:30 pm			0	0	0	0	2 funnels aloft
Corpus Christi, Nueces Co.	26	12:30 am	1/4	2 or 3	0	0	3	0	Tornado
			Moved SW, struck on beach. One house partly unroofed, carport torn down, 2 trailer homes damaged.						
1 1/2 E Carthage, Panola Co.	26	4:05-4:30 pm	10		0	0	4	4	Hail
			Stones golfball size covered ground to depth of 6 inches, piled in drifts to 3 feet deep; dense fog and accompanying heavy rain, winds estimated to 75 mph. Crops razed to the ground, roofs, windows, autos, siding damaged, timber ruined.						
San Angelo, Tom Green Co.	26	4:20 pm			0	2	6	0	Hail
			Average size 3-inch diameter, some stones 5-inch diameter, fell over city area of 4 to 5 mi diameter; damage spotty but heavy in all sections of city. Broke thousands of windows & windshields, damaged roofs, autos. Injuries not serious. Moved SE.						
Meritt, Winkler Co.	26	5 pm	short	narrow	0	0	4		Hail
			Heavily in south part of town, 1-inch stones covered ground. Storm lasted 40 minutes, damage to roofs and neon signs, trees & shrubbery.						

See reference notes at end of table

STORM DATA AND UNUSUAL WEATHER PHENOMENA

APRIL 1960

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED ¹ DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
TEXAS (cont'd)										
Llano, Llano Co.	26	5-8:15 pm	5*	0	0	4	0	Hail	Stones large as golfballs, about 20 homes, crops, trees & foliage were damaged in 5 mi wide strip of ranch & farm land. Accompanying heavy rain.	
McCamey, Upton Co.	26	6 pm	10	200	0	0	0	Tornado	From NW to NE, struck outskirts of town, open country. During hailstorm reported below.	
McCamey, Upton Co.	26	6:10 pm	20	*3	0	0	4	Hail	Moved from N to SE. Ground covered, to depth of 2 inches in some places. Average diameter of stones 1/2-inch. Roofs, windows, siding, trees damaged.	
LOSE Paint Rock, Concho Co.	26	eve			0	0	3	0	Tornado	Demolished trailer house, following hard rain & golfball-size hail. Skipped on, disappeared over a hill.
SW Marble Falls, Burnet Co.	26	7:50 pm			0	0	4		Hail, wind	At Cottonwood & Spibewood communities high winds, driving rain & golfball-size hail heavily damaged cabins, signs, trees, 3 house boats & 2 smaller boats on lake. Moved NE.
Bosque, Hill, Limestone & McLennan Cos.	27	3 & 9 pm	50	500	0	1	5	5	Hail	South portions Bosque & Hill Cos., NE portion McLennan Co., extreme west central Limestone Co. There were 2 storms, one in afternoon & one at night; second storm about 10 mi N of first & parallel to it. Hail was very spotty and in streaks, ground covered to depth of 2 inches in some places, largest stones 1-inch diameter. Accompanying heavy rains, high winds. Crops, yards, gardens, windows, boats and boat dock damaged, relatively minor damage to about 50 houses. Injury minor.
Ross, McLennan Co.	27	4 pm	short narrow		0	0	0	0	Tornado	Touched ground briefly uprooting several trees, receded into cloud.
LeFrange, Fayette Co.	29	10:30 am			0	0	0	0	Funnel aloft	During heavy thunderstorm, strong winds.
Temple, Bell Co.	29	11 am			0	0	0	0	Funnel aloft	
UTAH										
Entire State								6	Severe freeze	Unusually cold weather over virtually all of Utah several mornings during month caused considerable damage to fruit crops. Damage estimated as 33% of apple crop, 25% of pear, 20 to 40% of peach, 60 to 80% of cherry, and 70 to 90% of apricot crop.
Western portion	22							4	Wind	Strong winds lifted roofs, knocked down walls and fences, tore down signs, turned over vehicles from highways, toppled trees and power lines, and caused other minor damage.
VERMONT										
Southern Portion	24	Evening			0	0	3	0	Electrical and hail	Minor damage from lightning strikes on power and phone lines. Hail mostly moth-ball size or smaller, but one report of 1 1/2 inch diameter hail. No hail damage reported.
WASHINGTON										
West of Cascades	13-14	4 p.m.-3 a.m.			0	0	5	0	Wind	The velocity of the wind ranged from 60 to 90 m.p.h. along the Coast and from 40 to 50 m.p.h. or higher in the interior valleys of western Washington as an intense storm system moved inland. Two small planes were damaged by the wind in the Seattle area, one tugboat sank near Everett, store windows were broken in a few localities, buildings, power and communication lines were damaged over a wide area by falling trees. Rather strong winds were reported in a few localities east of the Cascades, however, damage was rather light.
East of Cascades Grant & Adams counties	25	2 p.m.							Hail	Hail in an area between Moses Lake and Warden caused some damage to sugar beets and other crops.
WISCONSIN										
La Crosse	15	4:30-5:30 p.m.	2	1800			5		Hail	Hail from 3/4 to 1 1/2 inches in diameter damaged roofs, greenhouses, and windows in northern parts of downtown La Crosse and part of North La Crosse. Ground covered with hail from 6 to 8 inches deep near buildings. Small hail fell in a surrounding area 7 miles long and 6 miles wide.
Winter, 27 miles SE, Sawyer County	23	7:00 p.m.							Tornado	At Flambeau River State Park, mostly tree damage.
Northern parts of Douglas, Bayfield, Ashland, and Iron Counties	23-25						5		Rain, Floods	Heavy rains resulted in flooding of many small streams. Washouts and culvert damage to roads and railroads heavy. Water flowed 4 feet deep through village of Odanah.
Chilton, 7 miles E, Manitowoc County	24	late afternoon	short				3		Tornado	Damage to farm buildings.
WYOMING										
Colorado-Wyoming	23	6:30 p.-8:00 p.	50	200	0	1	4	0	Tornado	A funnel cloud was observed forming about 6:30 p.m. near the Front Range between Loveland, Colorado and Ft. Collins, Colorado. The movement was observed toward the north-northwest. At 7:30 p.m. a tornado moved through the building site of a ranch 19 miles west of Cheyenne. Loss of buildings and fences is estimated at \$13,000 while loss and injury of cattle amounts to at least \$7,000. In crossing the highway a few minutes later the tornado caught an empty auto transport and turned it over several times. The driver was seriously injured. The storm then continued toward the north-northwest for an unknown distance. The character of damage definitely corroborates eye-witness reports that this was a tornado.
Five miles south of Cheyenne	28	1:30 p.							Funnel cloud	Funnel cloud of brief duration not touching the ground was sighted by Weather Bureau observers and others.

States and territories not listed in these tables reported no storms or unusual weather phenomena during the month.

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 subscription \$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."

* Miles instead of yards.

** Yards instead of miles.

• Includes crop damage.

C Crop damage.

† Storm damages are placed in categories varying from 1 to 9 as follows:

- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5,000,000
- 7 \$5,000,000 to \$50,000,000
- 8 \$50,000,000 to \$500,000,000
- 9 \$500,000,000 to \$5,000,000,000