

U. S. DEPARTMENT OF COMMERCE

LUTHER H. HODGES, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

# STORM DATA

JUNE 1961

Volume 3 No. 6



ASHEVILLE: 1961

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

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		
ALABAMA																				
Madison County	6	2:45p-4:00p			0	0	3	3	Tornado, wind, hail, rain											
<p>Hail averaging 3/4 inch in diameter with some up to 1 1/2 inches reported at Huntsville and Monrovia. Funnel cloud dipped down briefly touching ground 1 1/2 miles east of New Market unroofing a barn and breaking trees off at the trunk. All of property damage due to tornado. Crops damaged by wind 50% of total, by rain 25%, by hail 25%.</p>																				
Decatur, Morgan County	13	2:30 p			0	2			Electrical											
<p>Lightning hit ground near crew working on telephone lines injuring two persons.</p>																				
Morgan County	13	4:16 p							Funnel aloft											
<p>Funnel aloft observed for about a minute by pilot flying about 20 miles south-southwest of Huntsville airport.</p>																				
Chickasaw, Mobile County	15	3:00 p			1	0			Electrical											
<p>Youth killed while standing among trees, killed by lightning.</p>																				
Cowarts, Houston County	20	1:30 p			0	0	4	3	Tornado											
<p>Two houses were unroofed and several other houses and farm buildings damaged.</p>																				
ALASKA																				
<p>None reported</p>																				
ARIZONA																				
Salt River Valley, Maricopa County	17	3:30 p.-8:30 p.			1	0	5	0	Wind											
<p>Strong winds accompanied by blowing dust hit the Salt River Valley from Tempe to about Tolleson, with heaviest property damage in the western sections of Phoenix. One man was killed in downtown Phoenix by flying debris. Only light, widely scattered precipitation accompanied the storm.</p>																				
ARKANSAS																				
Union County	9	7:00 p.							Funnel cloud											
<p>Pilot reported funnel cloud to east-southeast of El Dorado.</p>																				
Blytheville, Mississippi County	10	6:45 p.							Funnel cloud											
<p>Funnel cloud reported to the southwest of Blytheville, moving south-eastward.</p>																				
CALIFORNIA																				
Central California	13-17							6	Heat											
<p>Abnormally high temperatures burned fruit and vegetable crops resulting in direct losses estimated in the millions of dollars and indirect losses equally as great.</p>																				
COLORADO																				
Lower Arkansas Valley from Pueblo to Kansas border; Denver area and eastward	1	Evening to midnt.			0	0	6	6	Hail, rain and tornado											
<p>A series of hail and thunderstorms went through Pueblo and Otero Counties and an area west and north of Denver in Derby, Dupont and Lakewood. Hail up to 3 inches in diameter did heavy damage to crops, buildings, roads and streets in parts of Pueblo and Rocky Ford. Hail damage was estimated at over 1 1/2 million in the Pueblo area and near 1/2 million in the Rocky Ford area. Heavy rain and hail clogged drains that caused flooding. In the area north and west of Denver, considerable hail and flooding damage was reported. Severe hail damage was reported in portions of Prowers, Elbert and Lincoln Counties. At 8:05PM, a tornado was reported to have touched ground near Bethune, Colorado in Kit Carson County.</p>																				
Eastern Colorado	2	Afternoon			0	0	5	C	Tornadoes											
<p>Three tornadoes were observed. Two struck between Granada and Lamar in Prowers County around 4:00PM, damaging farm property. The other tornado touched down in a field west of Haxton in Phillips County for about a minute early in the afternoon, no damage reported.</p>																				
Eastern Colorado	2	Afternoon			0	0	5	6	Hail, rain and wind											
<p>Scattered thunderstorms accompanied by hail and rain caused considerable damage from the mountains to the Kansas border. Hail, wind and rain pounded the lower Arkansas Valley near Lamar and Holly. Hail damaged several hundred acres of beets in the Greeley area. Hail also struck in northeast Colorado in eastern Weld and Logan Counties. Hail damage to the apple crop in the vicinity of Florence was heavy.</p>																				
Colorado Springs and Pueblo area	3	2:00PM			0	0	5	C	Hail and rain											
<p>A rain and hailstorm, judged the most severe in many years, struck Colorado Springs and vicinity. Three to six inches of hail fell accumulating to several inches in depth. Heavy rain along with the hail caused flooding of streets, roads and buildings. The hail was mostly 1/2" to 1" in diameter. At Pueblo, hail up to 2" broke windows, dented cars and damaged roofs.</p>																				
COLORADO (Cont'd)																				
Metropolitan Denver & areas north & east	3	1:00PM & later			0	0	6	5	Heavy rain and hail											
<p>Torrential rain fell in the area 20-30 miles north of Denver, causing flooding in the town of Fredrick. The rush of water broke through and over a retaining dike sending a 5 foot wall of water into the town, flooding homes and damaging the sewer lines, roads and streets. In southern Weld County in the Greeley area, heavy rain and hail accompanied by high wind, damaged crops and property. Trees were uprooted and power and telephone lines damaged. Weld County was designated a Disaster Area as a result of flood and hail damage. Golfball size hail in Derby, west Denver and Lakewood caused damage estimated at over 1 1/2 million.</p>																				
Denver	5	8:15PM			0	1			Lightning											
<p>Lightning struck and injured an Airman, outside a Base classroom at Lowry Air Force Base.</p>																				
Eastern Colorado	5	Most of day			0	0			Funnel Clouds											
<p>Many funnel clouds were sighted in Eastern Colorado. At 11:40AM, one was sighted 15 miles west of Kiowa (30 miles SSE of Denver). At 11:43AM, a pilot reported one 30 miles WSW of Akron. At 2:00PM, 2 or 3 reported 85 miles SE of Haxton. Around 3:00PM, one south of Johnston. Also in the afternoon 2 were sighted in the Fredrick-Firststone area. The one near Fredrick touched ground in open fields with no damage. At 8:00PM, a funnel cloud 35 miles south of Denver touched ground and dissipated.</p>																				
Eastern Boulder and Western Weld Counties	5	Afternoon			0	0		5	Hail and heavy rain											
<p>Heavy rain and hail hit a rich farming area north of Ft. Lupton, westward to Longmont. Beets, corn and row drops were beaten by hail and washed out by heavy rain. Heavy rain in the Fredrick area added to the flood damage of the 3rd.</p>																				
Lakewood, SW Denver and Littleton	7	6:00PM - 7:00PM			0	0	4	C	Hail and heavy rain											
<p>Hail and heavy rain damaged property and crops in SW Denver, Lakewood, Littleton and adjacent rural areas. Damage was about 50% hail and 50% flooding.</p>																				
Prowers County	8	12:28PM			0	0			Funnel cloud											
<p>A pilot reported a funnel cloud 400 feet above ground, 15 miles south of Lamar.</p>																				
Weld County	15	Afternoon			0	0	3	4	Rain and hail											
<p>A driving rain and hailstorm in the La Salle area south of Greeley, damaged 1866 acres of beets. Many fields were washed out and some left with 1 foot of water cover. Damage estimated 50% hail and 50% flooding.</p>																				
San Luis Valley	14	3:20PM			0	0	3		Hail and heavy rain											
<p>Heavy rain and hail 1/2" to 3/4" fell in Alamosa. The storm moved from the north portion of the Valley over Alamosa to the east and east southeast. Hail accumulated to around an inch. These are the largest hailstones that has been seen in the Valley since 1946.</p>																				
Larimer, Weld and Adams Counties	19	4:00PM			many	6	0	0	4	6	Hailstorm									
<p>Large hail, some as large as baseballs, moved a strip 6 miles wide from southwest of Ft. Collins through Weld and Adams Counties. Hail covered the ground 2 to 3 feet in places. Much of the damage was to alfalfa, corn, beets and ready to cut grain. Weld County's damage was estimated at 2 1/2 million and Adams County's loss at 1 1/2 million. There was also damage to cars, buildings etc., and some animals were injured and killed. Heavy rain fell in Colorado Springs, causing extensive damage. Hail fell in scattered areas from Adams County to Colorado Springs.</p>																				
CONNECTICUT																				
<p>None reported</p>																				
DELAWARE																				
<p>None reported</p>																				
FLORIDA																				
Miami Dade Co.	3	10:05 a.			0	0			Funnel Cloud											
Sambroer light Monroe Co.	3	6:00 p.			0	0			Waterpout											
Dunnellon Marion Co.	6	Afternoon			0	3			Lightning											
Gibsonton Hillsborough Co.	8	4:45 p.			0	0			Waterpout											
Tampa Hillsborough Co.	12	8:00 p.			0	0			Funnel Cloud											
Palatka Putnam Co.	14	2:00 p.			1	3			Lightning											
Miami Dade Co.	19	11:00 a.			0	0			Funnel Clouds (4)											

See reference notes at end of table.



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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS		
<b>ILLINOIS (Cont'd.)</b>										<b>INDIANA (Cont'd.)</b>										
Addieville	14	5:10 p	short		0	0	4	0	Tornado	Independence Hill, Lake County	13				0	1	0	0	Lightning	
			Small tornado	damaged several garages and tore off porch from home															Lightning injured a man while he was chopping wood.	
Waukegan	22	Afternoon			0	1	4	0	Wind	Plymouth, Marshall County	13	afternoon			0	0	3	0	Tornado	
			High winds leveled 2 wooden hangers and damaged a third at airport, injuring one person. 2 light aircraft demolished and 4 others damaged.																"Small cloud rolling along the ground" destroyed a new garage in West Township.	
10 ESE Polo	24	11:07 a			0	0	0	0	Funnel cloud	Cedar Lake, Lake County	22	6 p.			0	1	3	0	Tornado	
Northeast Illinois	24	Afternoon			0	0	5	0	Wind										Baby tornado damaged buildings, uprooted trees, and broke utility lines. Flying glass injured one person.	
			High winds uprooted trees, felled utility lines and damaged homes in Joliet and Chicago area. 5 sailboats capsized on Lake Michigan with several others damaged.							Royal Center, Cass County	22	7:30 p.			0	0	3	0	Tornado	
Central and Southwestern Illinois	30	Morning			0	1	0	0	Rain, electrical	Chalmers, White County	22	8:45 p.			0	0	0	0	Funnel cloud	
			Heavy rains flooded basements, underpasses and sewers and caused local flooding in Springfield, Canton, Peoria, E. St. Louis, Wood River and east Alton areas. In Springfield lightning caused fires in 6 homes and stores and injured woman. 3 homes were struck by lightning in Green Valley.																A small tornado damaged some trees and buildings south of Royal Center.	
<b>INDIANA</b>																				
New Haven, Allen County	1	3 p.			0	0	4	2	Hail and wind	Manson, Clinton County	23	8 p.			0	0	0	0	Funnel clouds (4)	
			High winds carried a 55-foot trailer 150 feet. The storm was accompanied by hail as large as golf balls and many trees and power lines were blown down. Wind damage exceeded \$6000.																	Four funnels observed to re-form into one funnel and move southward.
Jasper, Dubois County	2	2:15-3 p.			0	0	2	0	Hail	<b>IOWA</b>										
			Marble size hail caused minor damage.							Fort Dodge	5	3:30 p.								3 3/4 inch diameter.
Connersville, Fayette County	8	1:25 p.			0	0	0	0	Funnel cloud	30NNE Des Moines	5	7:45 p.								3 Funnel Clouds
			Funnel cloud observed 2 miles north of Connersville.							Stanton	6	11:35 a.								Funnel Cloud
Rochester	8	1:28 p.			0	0	0	0	Funnel cloud	Milford	7	1:30 p.								Funnel Cloud
Valparaiso	8	1:40 p.			0	0	0	0	Funnel cloud	New Liberty	7	1:40 p.								Funnel Cloud
			Funnel cloud moved east northeastward.							Bennett	7	2:00 p.	4	200	1	4	2			Tornado
Richmond	8	1:45 p.			0	0	0	0	Funnel cloud	NE Tama County	7	2:00 p.								Moved northeast.
Butlerville, Jennings County	8				0	0	0	0	Funnel cloud											Hail to 2 inches in diameter, most of crop damage due to hail in Traer area.
Indianapolis	8				0	0	0	0	Funnel cloud	Ciarinda	7	6:00 p.								Funnel Cloud
			Funnel cloud reported at the intersection of US road 31 and 71st Street.							Mt. Ayr	7	9:00 p.								Funnel Cloud
Kentland	8				0	0	0	0	Funnel cloud	NW and N of Iowa City	8	1:30 p.								Funnel Cloud
Indianapolis	8	5:45 p.			0	0	5	0	Wind	West Branch-Tipton	8	1:45 p.								Funnel Cloud
			Hanger fell on 9 airplanes with a loss of \$200,000.							S of Waterloo	8	2:00 p.								Funnel Cloud
Elwood	9	morning			0	0	0	0	Funnel cloud	SW Fayette County	8	2:00 p.								Funnel Cloud
			Funnel cloud reported 8 miles north of Elwood.							N Fayette County	8	2:30 p.								Funnel Cloud
Marion	9	11:45 a.			0	0	0	0	Funnel cloud	NW Clinton County	8	3:00 p.								Funnel Cloud
Fort Wayne, 10 miles northwest	9	12:15 p.			0	0	0	0	Funnel cloud	Grand Mound	8	3:00 p.								Funnel Cloud
Waveland, Montgomery County	9	12:45 p.			0	0	5	3	Rain	35 WNW Mason City	13	2:00 p.								Funnel Cloud
			Three inches of rain in 1/2 hour followed by 3 more inches in 1 3/4 hours caused severe local flooding. One home was washed away, many flooded, and autos were submerged.							Epworth - N Dubuque	13	3:30 p.								2 Tornado Funnels
Jamestown, Boone County	9	1:47 p.			0	0	0	0	Funnel cloud	Correctionville	19	7:30 p.					1			Lightning
New Market, near Crawfordsville	9	2:09 p.			0	0	0	0	Funnel cloud	Renwick vicinity	21	5:46 p.								Funnel
Culver	10	5:30 p.			0	0	4	0	Lightning	Lyon County	21	7:00 p.								Hail
			Barrel and contents burned to the ground as the result of lightning. Loss was near \$12,000.							Western Iowa	27	Early a. m.						4	5	Hail and Wind-storm
Richmond	12	6:03 p.			0	0	0	0	Funnel cloud	Muscatine	30	8:00 a.			3		6	3	Flood	
Wheeling, Gibson County	12	night			0	0	4	0	Tornado											Mad Creek flood drowned 3 and caused a million dollar loss.
			A small tornado struck three farms damaging several buildings west of Wheeling. Rain and hail was also reported.							<b>KANSAS</b>										
Plainfield, St. Joseph County	13	12:15 p.			0	0	0	0	Funnel cloud	Sedgwick County	1	7:00p								Funnel cloud
			Funnel cloud reported northeast of Plainfield.																	A funnel cloud was sighted 17 miles northeast of Wichita.
										Kingman County	1	9:30p								Funnel cloud
																				A funnel cloud was observed about 10 miles south of Kingman.
										Sedgwick, Kingman, and Harper Counties	1	Evening								Hail
																				Some damaging hail locally over these counties. In Sedgwick County, storms averaged 3/4 inch in diameter, with a number 2 inches in diameter. A number of hail losses were paid in each county.

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS							KILLED	INJURED	PROPERTY	CROPS							
<b>KANSAS (Cont'd.)</b>										<b>Kansas (Cont'd.)</b>															
Wallace, Logan, Greeley, Wichita, and Scott Counties	1	Evening							Hail	Most of Kansas	13	Afternoon and evening							Hail, heavy rain, severe winds						
West central and central counties. Wallace, Greeley, Hamilton, Logan, Wichita, Kearny, Scott, Finney, Gove, Lane, Ellis, Russell, Barton, Lincoln, Ellsworth, Ottawa, Saline and Dickinson Counties.	2	3:00a-8:00a							Hail, high winds, and lightning										2 tornadoes, 1 funnel cloud						
Butler County	2	7:00a							Funnel cloud																
Doniphan County	2	8:00a-8:05a							Funnel cloud																
Hamilton County	2	5:30p-6:00p	25	*5			5		Hail and tornado																
Norton, Phillips, Smith, Jewell, Rooks, and Osborne Counties	4	Evening							Hail	Sherman County	14	5:15p-5:17p							Funnel cloud						
Much of western half of Kansas	5	11:00a-until evening					5	5	Hail, 2 severe winds, 2 tornadoes, waterspout, 3 funnel clouds, and electrical	Southwest Counties	19	Afternoon and evening							Hail						
									Thunderstorms over this part of the state brought damage to many localities. Hail was especially widespread and damaging to wheat in Wallace, Logan, Wichita, Lane, Ness, Finney, Kearny, Hamilton, Trego, Graham, and Phillips Counties. The storms began about 11:00am in Wallace County, progressing eastward as far as Dickinson County by 10:00pm. In Wallace County, a damage strip was 30 miles long, west to east, and about 15 miles wide with damage estimated at \$100,000 to crops and \$50,000 to property. Stones ranged from 1 to 3 inches in diameter and covered the ground generally. Other places, hailstones were pea to walnut size. About 5:45pm a severe storm of hail, winds of near 100 mph and two tornadoes struck at the Webster Dam Lake in Rooks County. One funnel came to the ground at the south side of the lake, 3 miles west of the dam and travelled ENE across the lake, raising a large water column. A half submerged row of trees, where the tornado struck first, was uprooted and spread over the dam and eastern shoreline where the funnel disintegrated. The second tornado swept along the south shore parallel to the other and damaged a number of cabins. Damage was about \$1,000 from the tornadoes. About 7:45 pm severe winds damaged parts of the roof of a large compressor station south of Sublette. High winds and 2 funnel clouds were reported south of Colwater between 9:00pm and 9:30pm, direction was from NW to SE. A third funnel was observed about 15 miles southwest of Medicine Lodge at 10:18pm. Severe lightning caused several damages in the Salina-Abilene area about 10:00pm.																
Sherman County	6	6:42p							Funnel cloud																
Sedgwick County	6	Night							Electrical																
Western counties	6	-							Hail	Grant County	23	9:00p-10:00p	10	*1					4 Hail						
									Scattered hail damages were reported during the afternoon and evening from Hamilton, Stanton, Finney, Gray, Hodgeman, Ness, Rush, and Ellis Counties. Most damage was in the irrigated area near Garden City. In southwest Stanton County losses ranged from 35 to 100%.																
Gove County	7	5:00p-7:00p	16	*2					Hail	West central and southwest counties	24	Evening							Hail						
									Extensive crop damage resulted from 1-inch hailstones that covered the ground 2 inches deep across the northeast corner of the county beginning at Park. Much building damage, and wheat losses were more than 75% in some areas.	Many counties in the southwest quarter of Kansas	25	Late afternoon								5 Hail and tornado					
Brown County	13	Near noon					2		Electrical																
									Two men were injured when lightning struck a nearby tree at Fairview.																

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					KILLED	INJURED	PROPERTY	CROPS	
<b>KENTUCKY</b>									
Western, South Central Kentucky	8	PM			1	3	5	3	Wind & Lightning
	High winds whipped across the area uprooting trees, felling utility lines, and wrecking small buildings, both homes and farm buildings. A farm home was struck by lightning and destroyed by fire and two barns were also burned. Fatality caused by lightning.								
Adair County	9	1 PM	1				h	h	Tornado
	A tornado following a path from southwest to northeast tore roofs from several homes and barns, uprooted trees, broke windows in homes and did other damage. Heavy rains which preceded the tornado did heavy damage to corn and tobacco.								
Estill and Lee Counties	9	PM	1/2	150	1	50	6	3	Tornado
	A railroad round house was unroofed with considerable damage to the walls. An unknown number of railroad cars were picked up and moved. A steel foot bridge across the railroad yards was torn from its concrete footings. The storm damaged a row of business buildings and unroofed dwellings, twisted off trees as it moved to a residential section. Most of the injured were in a Bible study school which was severely damaged. The fatality was in Lee County.								
Lincoln County	9	PM					h		Windstorm
	Strong winds caused damage to several homes and barns. Several animals in barns were crushed to death as a barn collapsed in the strong winds.								
Pulaski and Lincoln Counties	9	PM			2		h	3	Wind and Rain
	Several homes, barns, and numerous outbuildings were severely damaged. Utility lines were blown down. The injuries were caused by falling limbs and flying objects. There were scattered reports of crop damage - "wheat blown right into the ground" by the wind and rain.								
<b>LOUISIANA</b>									
Ringgold, near	9	4:00 p.							Funnel cloud
Lake Pontchartrain	14	2:20 p.							Waterspout
Lake Charles, 15 miles SW	16	11:38 a.							Funnel cloud
Shreveport	19	Night				4		0	Local flood from heavy rain
Lake Pontchartrain	25	12:19 p.							Waterspout
<b>MAINE</b>									
Limestone	10	5 p. to 6:25 p.			0	0	0	0	Funnel aloft
	Funnel cloud observed dangling from yellow-cast cloud. No lightning, thunder or hail occurred during this period.								
Fryeburg	13	6 p. to 6:30 p.	1/4	Narrow	0	0	4	0	Tornado
	Tornado hit Toll Bridge area of Fryeburg, accompanied by severe thunderstorm and near golf ball-size hail. Left in its wake were many trees strewn across Route 3, a car and truck wrecked by a falling tree, and power service disrupted. No witnesses to funnel cloud but sky described as "peculiar shade of brass" and whirling sound heard "like rushing water." Tops of many trees were "twisted off." Some wind-squall damage in surrounding areas.								
Sinclair	29	10:25 p.	1/4	Narrow	0	0	4	0	Tornado
	Tornado damaged many roofs and broke many windows in town. Church seriously damaged as part of roof was torn off and steeple ripped out and flung to street. Considerable lesser damage was done along storm's path.								
Entire State	30	Early morning			0	0	5	0	Electrical
	Line of thunderstorms moved southward across state, with violent intensity in local areas especially in northeast and south. Storms were unusually severe in Machias and Lakewood and in Franklin County area. Major damage resulted from lightning-started fires and from broken power and communication lines.								
<b>MARYLAND</b>									
Washington, D. C.	9	After-noon			1	0			Lightning
	A 17 year old boy who had apparently run for shelter under a tall tree atop a hill was apparently electrocuted by a bolt of lightning so severe that the top of the tree was thrown 40 feet.								
Anne Arundel County	9	4:30PM EST	1 1/4	100	0	0	5		Tornado
	Storm damage occurred along a WSW to ENE path from a point about 1/2 mile NE of Glen Burnie Post Office to a point about 2 miles NE of Glen Burnie Post Office in Anne Arundel County, the latter point being in the community of Point Pleasant. Nominal damage occurred at the beginning of the path, then the tornado passed over open fields, and caused the most severe destruction at the end of the path where nine homes were destroyed and 46 homes damaged. Severe damage was also inflicted on the Point Pleasant Elementary School.								
<b>MARYLAND (Cont'd.)</b>									
Baltimore	10	After-noon			0	3			Lightning
	Lightning struck in the midst of golfers at Clifton Park injuring two persons knocking down seven others. A 17 year old youth was injured by lightning while playing basketball in a school yard at Forest Park avenue and Garrison Blvd.								
Bittinger, Garrett County	12	Evening			0	0	4		Lightning
	Lightning struck a barn at Bittinger and set it on fire.								
<b>MASSACHUSETTS</b>									
Eastern Middlesex County	6	After-noon			1	3	3	0	Electrical
	Golfers killed and 2 companions injured by lightning in Melrose as the trio took refuge from storm under a tree. The two injured were wearing rubber rippled-soled shoes which were credited with saving their lives. The dead man was wearing golf footwear, a more likely conductor of electricity. Other lightning strikes started several fires in homes and injured a woman.								
Amherst	9-10				0	0	4	0	Rain, wind
	More than 3.5 inches of rain fell in two heavy showers in afternoon of 9th and around midday of 10th. Fort River rampaged over its banks and caused washouts along Flat Hills Rd., and closed the bridge on Pelham Rd. to traffic for several hours. Some flooding due to backing of water as drainage system inadequate to handle deluge. Wind storm evening of 10th brought down trees and downed an outdoor movie screen. Hail fell briefly during this storm in the western part of town.								
Chicopee	16	Late morning			0	0	2	0	Dust devil
	Well developed dust devil struck back of a home tipping apart an 8 x 20 foot metal canopy. Force of wind twisted the metal "like spaghetti," blowing one piece onto the roof and trapping it around the chimney.								
Northeastern	24	12:15 p. to 1 p.			0	1	3	0	Electrical
	Woman cutting grass was stunned when lightning struck mower. Lightning struck in 4 other places, including a transformer in E. Smerville and homes in Framingham, Mattick, and Wellesley.								
Eastern	30	After-noon			0	1	4	4	Electrical, wind, hail
	Line of thunderstorms swept southeastward across area. Damage was widespread with major losses resulting from numerous lightning-started fires. Unusually large size of hailstones in some areas was a feature of these storms. Storms were variously described as up to size of "hen's eggs", "small oranges", "golf-ball", "half-dollar" or "measured 2 inches across." Extensive hail damage to small gardens and to plants set out on porches. Wind felled trees downed power and communication lines, interrupting these services in many communities. Man injured by lightning at his roadside produce stand.								
<b>Michigan</b>									
Sault Ste Marie	1	7:15a. 8:15a.						4	Severe thunderstorms with high winds, hail and heavy rains.
	In the area from Stalwart to Detour, Michigan high winds blew down buildings, barns, TV antennas, trees and utility poles. One and one half inch hail damaged roofs. A few windows were broken by hail and high winds.								
<b>Southern Michigan</b>									
	1	noon 5:00 p.						5	C Severe thunderstorms with high winds, hail lightning and heavy rains.
	Hail stones ranging in size from 3/4 inch to 2 inches in diameter along with high winds dented nearly 100 car bodies causing serious damage, and also broke nearly 500 windows as well as damaging roofs of houses and buildings. Power and phone lines were severed by high winds and lightning strikes which disrupted service to hundreds of homes and businesses in the area. Numerous trees were uprooted. Broken branches and flying debris caused serious damage to buildings, homes, and cars. Lightning induced fires caused serious damage to homes and buildings and in some cases contents were also damaged. Some roads were flooded by heavy rains with resultant high repair damage.								
Saginaw 30 W	8	4:00 p.							Funnels aloft
	Pilot reported 2 funnels which did not touch the ground 30 miles west of Saginaw.								

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

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.)										
Southern Michigan	13	noon 5:00 p.						5		Severe thunderstorms with lightning, high winds, heavy rains and hail.
										High winds estimated at 60 to 70 MPH leveled a factory building and several farm buildings. Numerous trees and TV antennas were blown down with additional damage caused by flying and falling tree branches and debris. Hailstones of 3/4" diameter were reported at Lansing. Lightning induced fires caused damage to a few homes and buildings. High winds and lightning severed many power and phone lines disrupting service to thousands of homes in the area. Heavy rains flooded numerous roads and streets.
Whitehall	15	11:30 a.			2	2				Dust devil
										A dust devil or thermal wind with a clear sky destroyed a small building and resultant flying debris damaged an adjacent parked car. Two men working near the building received minor arm and back injuries and were treated.
Stambaugh	28	5:00 p. -6:00 p.						3		Thunderstorms with hail.
										Hailstones ranging in size from small marbles to one and one half inches in diameter damaged roofs of many homes and dented car bodies and roofs with resultant serious damage. Neon tube type signs were also broken and damaged.
MINNESOTA										
Rochester 25 NW, Goodhue County	7	4:00 p.								Funnel cloud
Lake Lillian SW, Kandiyohi County	8	4:30 p.	5	*2				5		Hail
										Hail accumulating to 6 inch depth damaged crops, mostly soybeans and beets. Farm buildings also damaged.
Moorhead 10S, Clay County	8	7:00 p.						5		Hail
										Hail damaged to crops in southwest part of county. Thunderstorm moved eastward.
Southeastern Minnesota	10	1:00 p.					4	3		Wind, hail, electrical
										Heavy thunderstorms with hail and winds up to 60 mph caused damage to buildings, trees, aircraft and utility lines in area from West Concord to Chatfield. Hailstones at Rochester the size of golf balls.
Egen (near), Dodge County	10	2:00 p.						4		Tornado
										Barn, shed and several grain bins destroyed. Funnel was observed. Storm moved east.
Southern Minnesota	12	3:00 p. -7:00 p.						4		Hail
										Hail damage reported in Nobles, Jackson, Martin and Faribault counties. Hail 3/4 inch in diameter reported near Blue Earth.
Mahnomen 2S, Mahnomen County	12	4:30 p.								Funnel cloud
										Two funnel clouds sighted touching ground but no damage reported. Storm moved east.
Blooming Prairie, Steele County	12	p.								Funnel cloud reported.
Le Roy SE, Mower County	13	1:00 p.								Funnel cloud
										Pilot reported funnel aloft.
Hayfield (near), Dodge County	13	2:00 p.								Funnel cloud
										Public reports funnel cloud.
Canton (near), Fillmore County	13	2:15 p.								Funnel cloud
										Funnel cloud moving southwest reported by Highway Patrol and seen by several other people. There was no damage reported.
Gordonsville (near), Freeborn County	13	3:30 p.								Funnel cloud
										Funnel reported lowering from cloud but not touching ground. Moving northeast.
West Central Minnesota	21	7:00 p.						5		Hail
										Considerable hail damage in Big Stone, Traverse, Stevens and Swift counties. Storm area moved from NW to SE. Heaviest crop damage reported from Clontarf SW to DeGraff, Swift county. Light hail also reported in parts Chippewa and Renville counties.
Marshall County	27	11:00 p.	15	500				3	4	Hail
										Grain crops damaged by 1/4 to 1/2 inch hail. Potatoes and sugar beets suffered light leaf damage. Storm moved southeast.
MINNESOTA (Cont'd.)										
Ottertail JNE to Wadena NW, Otter Tail County	30	6:15 p.						4	3	Tornado
										Tornado hit southeast corner of Rush Lake near Ottertail trapping and uprooting 200 tree grove of oak trees. Tornado moved northeast knocking down seven barns west and north of Wadena. One farmer sighted two funnels.
Alexandria SW, Douglas County	30	7:30 p.						4	3	Tornado, hail
										Pilot reported two funnel clouds. One touched ground near Lake Carlos destroying roof and second story of new hotel under construction. Foundation was also damaged. Funnels moved north-eastward. Light hail reported over Douglas county. Alexandria FAA weather station observed wind gusts to 80 mph.
Piers NW, Morrison County	30	8:30 p.						4		Possible tornado
										Wind destroyed two barns, damaged two farm homes and several smaller buildings.
Scott, Hennepin and Ramsey Counties	30	9:20 p.						4		Funnel aloft, electrical, wind
										Deputy sheriffs reported sighting funnel cloud near Belle Plaine which did not touch ground. Weather Bureau Airport Station at Minneapolis observed wind gusts to 60 mph around 9:45 p. Numerous lightning strikes reported throughout Minneapolis-St. Paul and their suburban areas starting many small fires. Trees blown over blocked traffic and disrupted utilities.
West Concord NW, Dodge County	30	Midnight						4	3	Electrical
										A barn half filled with baled hay was burned down after lightning strike. Some machinery and livestock also destroyed.
MISSISSIPPI										
Aberdeen, 10 miles NW	6	12:40 p.								Funnel cloud
Mississippi Sound South of Biloxi	12	11:15 a.								Waterspout
Edwards, 4 N	12	6:38 p.	Short	Narrow	0	0		3	0	Tornado
Biloxi	15	7:08 a.								Funnel cloud
Waveland, 8 N	20	1:30 p.								Funnel cloud
Coopersville, Smith County	24	12:45 p.	Short	Narrow	0	0		3	0	Tornado
MISSOURI										
Clifton City, Cooper County	1	9:35 a.								Funnel aloft
Columbia, Boone County	6	2:50 p.						2		Thunderstorm
										Hail 1-3/4 inch in diameter. Wind gusts to 50 knots.
Grant City and Charleston, Mississippi Co.	7	4:00-5:30 p.							3	Thunderstorm
										Accompanied by hail and strong winds. 2.50 inches of rain in 30 minutes at Grant City. Damage to corn and wheat.
Portageville, New Madrid County	7	6:30 p.							Minor	Funnels aloft
										Sheriff reports "4 or 5 funnel clouds" aloft.
Mt. Moriah, Harrison County	7	6:30 p.						3		Tornado
										Witnesses tell of seeing a funnel shaped cloud parallel to the ground with a smaller funnel beside it. Then the two funnels merged and touched the ground. Severe lightning, hail, and heavy rain accompanied the storm.
Kingdom City (9 E.), Callaway County	7	7:15 p.	1/2	50				3		Tornado
										Witnesses describe a "box shaped" cloud with straight sides and level bottom, with a "top shaped" funnel cloud. Evidence of sharp pressure drop as funnel passed close to a barn, with part of the roof lifted from the supporting wall. Debris scattered for 1/2 mile.
Mexico (3 SE.), Audrain County	7	7:35 p.							Minor	Tornado
										Funnel was observed to touch ground briefly.
Hannibal (South), Marion County	7	8:40 p.								Funnel aloft
Fulton (South), Callaway County	8	3:23 p.								Funnel aloft
Farmington (8 ESE.), St. Francois County	12	3:40 p.								Funnel aloft
Bonne Terre, St. Francois County	13	1:24 p.								Funnel aloft
										Reported by a pilot.
Dixon, Pulaski County	13	afternoon						2		Thunderstorm
										Two young children killed by lightning.
St. Louis, St. Louis County	13	2:20 p.						1	4	Thunderstorm
										Man killed by lightning while standing under a tree. Several homes damaged by lightning.
Advance, Stoddard County	14	afternoon						4		Thunderstorm
										Four persons injured when struck by lightning while standing in an open soybean field.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

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					KILLED	INJURED	PROPERTY	CROPS	
<b>MISSOURI (Cont'd.)</b>									
Tarkio, Atchison County	27	5:00 a.					4		Thunderstorm
Winds with gusts of 60 mph. damaged trees, power and phone lines, and several farm buildings.									
Springfield (15 NE.), Greene County	28	7:13 a.							Funnel aloft
Reported by pilot.									
Joplin, Jasper County	29	early a.m.					5		Thunderstorm
Many buildings damaged by hail. Some hailstones of golf ball size.									
<b>MONTANA</b>									
Eastern Stillwater and Northwest Yellowstone Counties	18	4:00 pm			0	0	0	?	Hail
There were three separate storms. The first was 3 miles wide extending from 15 miles northwest of Broadview to 13 miles southeast. Hailstones varied from pea to golf ball size. Second storm SW of Broadview was 3 miles wide and 13 in length, and third 15 miles W of Columbus 20 miles long and 1 wide. Storms mostly over range land, but severely damaged some fields in path.									
Glendive, Dawson County	29	4:15 pm	15	*15	0	1	6	5	Tornado, Thunder, Hail, High Wind, Heavy Rain
A funnel cloud, which touched ground at least once, was observed at 5:10 p.m. Hailstones varied from 1/2 to 2 inches in diameter. Very heavy rain: 2.28 inches fell in 45 minutes. There was considerable damage from flooding. One bridge badly damaged and some roads washed out. Northern Pacific R.R. track washed out 5 miles west of Glendive. Estimated 2000 windows were broken. Winds were reported up to 75 MPH at airport.									
Numerous Areas East of Continental Divide	29	Afternoon			0	0	4	5	Thunder, High Wind, Hail, Heavy Rain
Thunderstorms, high wind, and hail hit in a number of widely scattered areas East of the Divide. Heavy damage reported in and around Great Falls, Western Phillips County, Eastern Chouteau County, Northeast McCone County, Northern Blaine County, and Southern Hill County. Rapid pressure changes reported to have broken car windows at Malstrom Air Force Base, Great Falls. At 2:30 p.m. peak gust WBAS Great Falls was 70 MPH, and at Havre winds were 70-80 MPH with gusts to 100 at City-County Airport. Power failures occurred at Butte, Helena, and scattered locations elsewhere. Some lesser hail damage occurred in scattered areas other than those listed above. Lightning strikes set a number of range and forest fires.									
Belt, Cascade County	29	Afternoon	?	?	0	0	3	0	Tornado
At Tiger Butte, 10 miles SW of Belt, a funnel cloud touched down on a ranch, tore up haystacks, destroyed a steel grain bin, and uprooted trees.									
<b>NEBRASKA</b>									
East of Uehling	1	1:14 a.							Funnel cloud aloft
Near Pender	1	Early morning	short narrow		0	0	4	0	Strong winds
Trees and sheds down, house moved from foundation.									
Kimball and Banner Counties	1-5	2:30-4:00 p.	2-10	*1 1/2-6	0	0	minor	5	Hail
Hail reported somewhere in Kimball or Banner County each day from May 31 through June 5. Stones ranged from 1/4" to 1" diameter. Depth of ground cover ranged up to 4 inches.									
55 miles west of Sidney	2	3:10 p.	?	?	0	0	0	0	Tornado
Touched ground, no damage reported									
20 miles north McCook	4	3:05 p.							Funnel cloud aloft
14 miles north of O'Neill	5	11:00 a.	short narrow		0	0	0	0	Tornado
Touched ground briefly, moved southeastward.									
40 miles southwest of Hastings	5	5:05 p.							Funnel cloud aloft
Near Grand Island	5	5:53 p.	short narrow		0	0	0	0	Tornado
No damage reported.									
Vicinity of North Omaha	6	11:15 a.							Funnel clouds aloft
Most sections of Nebraska	6	3:00 p. till midnight			0	0	4	4	Severe electrical storms, hail
Widespread area of widely scattered severe electrical storms and hail. Lightning strikes and damage reported in Arthur, Lincoln, Custer, Garfield and Richardson Counties. Damaging 1/2" - 1" hail in Webster, Thayer, Wheeler and Antelope Counties.									
Flba Vicinity	7	2:45 p.	8	*4	0	0	4	4	Hail and wind
Stones 1 1/2" to 2" diameter nearly covered the ground.									
6 miles east Chadron	9	6:02 p.							Funnel cloud aloft
<b>NEBRASKA (Cont'd.)</b>									
Vicinity of Alliance	10	9:00 p.	16	*2	0	0	-	4	Hail and wind
Scattered areas of 1/2" hail from 8 miles north of Alliance to 8 miles south.									
Scattered areas in northern Nebraska	10	during night	120	*4	0	0	4	5	Hail and wind
Scattered areas along Valentine, Ainsworth, Bassett, Clearwater line. Roof, window and crop damage from hail (80%) and trees, small sheds, signs, etc. damaged by wind (20%).									
Northern part Sheridan County	11	9:00 p.	3	*1	0	0	0	4	Hail and heavy rain
Many small areas with considerable damage to crops in affected area.									
North Platte	13	Midnight	?	?	0	0	?	?	Hail
Hail 3/4" diameter, - no report on damage.									
Near Lincoln	13	6:16 a.							Funnel cloud aloft
Near Kim Creek	13	noon	spot	spot	1	0	0	0	Lightning
Man struck and killed while on tractor.									
Near Red Cloud	13	afternoon	spot	spot	0	1	0	0	Lightning
Man struck and rendered unconscious while on tractor.									
Eastern edge Thayer County; western edge Jefferson County	13	3:00 p. - 4:30 p.	14	*1	0	0	0	4	Hail
Stones 1/2" diameter covered ground to 1" depth.									
South-central Keith and north-central Perkins Counties	13	7:00 - 8:00 p.	10	*2	0	0	0	5	Hail
Stones 1/2" diameter covered ground to a depth of 2".									
Southeastern Boyd Co.	13	10:45 p.	18	*3	0	0	4	4	Hail
Ground covered by stones 3/4" to 1" diameter.									
Madilla	14	12:25 p.							Funnel cloud aloft
Head	14	1:00 p.							Funnel cloud aloft
SW of Gothenburg	14	1:00 p.							Funnel cloud aloft
5 miles west of Scottsbluff	15	9:47 a.							Funnel cloud aloft
Northeastern Fillmore and southeastern York Counties	19	1:30-2:00 p.	8	*1	0	0	0	4	Hail
Ground covered by 1" stones.									
Southeastern Adams Co.	19	8:30 p.	10	1,000	0	0	4	4	Hail
Ground covered to 2" depth by stones 1" diameter.									
Northeastern corner of Nebraska	21	7:30-9:00 p.	35	*5	0	0	5	4	Hail
Scattered areas. Greatest property damage in Dixon County where stones averaged 3/4" and ranged up to 2" diameter covered the ground. Considerable crop damage continued into Dakota County as stones became smaller. Only minor damage by the time the storm reached Thurston County.									
Southwestern Nebraska	25	5:00-7:30 p.	80	*30	0	0	?	5	Hail
Scattered areas in Garden, Arthur, Deuel, Keith, Perkins and Chase Counties. Largest reported single area 6 miles long one mile wide in Keith County. Hail was severe in affected areas with stones averaging 1/2 to 3/4" in diameter and covering ground 2 to 3 inches in places and up to 6 inches at one spot.									
Near Wilbur	28	4:00-6:00 a.	4	*3/4	0	0	3	4	Hail
Stones 3/4" to 1" diameter covered ground to one inch depth.									
<b>NEVADA</b>									
Lovelock, Pershing County	1	12:00 Noon							Funnel cloud
Funnel cloud reported 20 miles north of Lovelock.									
<b>NEW HAMPSHIRE</b>									
Nashua	10	12:30 p.			0	0	4	0	Windstorm
Wind squall, possibly tornadic, knocked down wall of transportation terminal under construction, uprooted 8 trees, and tore down power and telephone lines. Early reports indicated funnel cloud observed but witnesses could not be located. Trees were felled to varying directions but pattern was not conclusive.									
Littleton	13	5 p.	2	500	0	0	2	2	Wind, Hail
Storm struck Lisbon Road area about 3 miles from Littleton center. Several trees were uprooted and fell across the lines of a distribution feeder. Hail damage to crops was minor. Storm locally reported by some as a small tornado but no conclusive evidence is available.									
<b>NEW JERSEY</b>									
None reported									

See reference notes at end of table.



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

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					KILLED	INJURED	PROPERTY	CROPS	
<b>NEW MEXICO</b>									
Guates, Union County	3	p.m.			0	0	2	2	Hail
Storm covered only a small area but hail stones up to 2 1/2 inches in diameter were reported. Windows broken, cars damaged and some crop loss.									
San Jon, 12 miles northwest	3	4:30 p.m.	3	100	0	1	4	3	Tornado and hail
Storm destroyed or severely damaged homes and outbuildings on three farms. Loss included machinery and trucks. Some livestock killed. One person received minor injury from flying debris. Storm moved from northwest to southeast. Crops damaged by hail with stones up to 3 inches in diameter reported.									
Des Moines, 18 miles northeast	5	1:30 p.m.	6	150	0	0	1	0	Tornado
Tornado moved over open country with only minor damage to fences.									
Elida, 10 miles north	6	3:30 p.m.	1	440	0	0	2	0	Tornado
Over open country, only damage was to windmill and fences. Observer reported funnel appeared to remain in one place for several minutes at a time. General movement northwest to southeast over an erratic path.									
Gladstone	7	2:45 p.m.	?	?	0	0	0	0	Tornado
Touched ground briefly over open country. Hail up to 1 3/4 inches in diameter reported.									
Lovington, 10 miles east	7	p.m.	?	?	0	0	0	0	Tornado
Two separate funnels reported to have touched the ground briefly over open country.									
Roswell, 10 miles south	11	5:30 p.m.	?	?	0	2	4	0	Tornado
Small tornado touching ground intermittently overturned mobile home injuring two persons. Some small buildings destroyed and power lines down.									
Animas	15	7:00 p.m.	?	?	0	0	3	0	Tornado
Small tornado damaged some outbuildings and broke down power line. Storm moved from northwest to southeast and was on ground only briefly.									
<b>NEW YORK</b>									
Western and Central New York	1	7-9 p.m.			1		5		Severe thunderstorms, damaging winds, hail, heavy rain
Scattered areas of western and central New York, particularly Wyoming, Livingston, southern Erie, northern Cattaraugus and Chautauque counties and the Buffalo-Niagara Frontier area. Severe thunderstorms with damaging winds, severe lightning, hail and brief heavy downpours resulting in low level flooding. Wind damage to trees and communication and power lines. Many costly lightning-caused fires. Fire truck deflected by fallen limb went out of control and killed a 12-year old boy. Some thunderstorms near tornado severity. (Possible tornado near Allegany, but not confirmed.)									
East-central counties and scattered areas of central New York, Albany-Troy-Schenectady area	8	late aftn.					5	0	Severe thunderstorms, damaging winds, hail
Severe thunderstorms with damaging winds, heavy hail (4 to 5 inches in depth in the Albany-Schenectady area), severe lightning. Heavy damage to some crops, structures, power lines, and fires from lightning, wind blow down damage, and heavy downpour of rain causing localized surface flooding.									
Eastern New York	10	late aftn & evening					4		Thunderstorms, heavy rain, wind
Scattered areas of eastern New York, including Albany-Troy-Schenectady area; severe thunderstorms, brief heavy downpours causing localized surface flooding, lightning-caused fires and damaging winds.									
Statewide	13	afternoon & early evening					6		Severe thunderstorms, wind
Most severe storms were in the St. Lawrence Valley region (Jefferson, St. Lawrence and Franklin counties) and a secondary area of severity in Dutchess County. Unusually severe thunderstorms with winds of near tornado destruction (some local areas may have been tornadoes but not able to confirm). (Possible tornadoes near Constable, N.Y. in Franklin County and the Wassaic area of Dutchess County, but not confirmed). Severe lightning and resulting fires, heavy rain and many areas of hail with severe local damage to fruit trees. Widespread wind damage with many tree blow downs, power and communication lines down, and unusually large number of buildings damaged (mostly farm areas).									
<b>NEW YORK (Cont'd.)</b>									
Western and central New York and St. Lawrence region	23	late afternoon					5	0	Severe thunderstorms, damaging winds
Severe thunderstorms with damaging winds, severe lightning caused numerous fires and brief local flooding occurred due to heavy downpours. Considerable damage to the extensive onion muckland area of central New York where hail and water destroyed up to half of the onion acreage. Considerable damage by wind to boats on lakes and in the St. Lawrence area.									
Statewide-scattered areas	25	afternoon					4	0	Thunderstorms, wind, hail
Widely scattered areas of the State experienced severe thunderstorms with damaging winds, hail destruction and lightning-caused fires. The Schenectady area suffered considerable damage to fruit trees from hail, as did other scattered western county areas.									
<b>NORTH CAROLINA</b>									
Halifax, Hertford, Northampton, Vance Counties	3	5:00 pm					4	4	Wind, Hail
Wind damage to warehouses, boats, power lines near Kerr Lake, Roanoke Rapids Lake, and Albemarle Spout area. Some scattered damage to crops by hail in same general areas.									
Pender County	5	5:30 pm					0	4	Hail
Tobacco and wheat damaged over two square mile area.									
Harnett, Martin, Northampton, Wayne Counties	6	Evening					4	4	Hail, Wind
Tobacco, corn and cotton damaged by hail; trees blown down, home and several outbuildings damaged.									
Cumberland, Johnston, Martin, Nash, Washington Counties	7	Aftn					0	4	Hail
Scattered damage to crops in several locations; mostly tobacco.									
Bladen, Duplin, Johnston, Martin, Richmond, Sampson, Wilson Counties	8	Aftn					4	5	Hail, Wind
Widespread hail damage to crops, mostly tobacco. Several buildings damaged by wind, principally in Sampson County.									
Randolph County	9	3:30 pm					4	0	Wind
Local windstorm damaged roofs, blew down trees and demolished outbuildings in town of Liberty.									
Mitchell County	12	Noon					0	4	Hail
Commercial vegetables damaged in northwest part of county.									
Randolph County	14	11:00 pm					4	0	Wind
Town of Liberty again struck by windstorm similar to that of 9th. Some houses in some cases damaged by the two storms.									
Wayne County	21	11:40 am	1	50	0	1	4	4	Tornado, Hail
Home, church and several outbuildings destroyed 2 mi. N. Mt. Olive. Woman injured when home collapsed. Crops in vicinity damaged by wind and hail. No funnel seen due to heavy rain and hail.									
Duplin County	21	11:45 am	1	50	0	0	5	0	Tornado, Rain
Several homes and other buildings damaged in southeast edge of Kenansville. Many large trees in grove nearby twisted off above ground. No funnel seen due to heavy rain, but noise heard. Thousands of poultry lost when two large houses blew down.									
Person County	21	10:00 pm					0	4	Hail
Tobacco crop damaged over 2 sq. mi. area.									
Beaufort, Caswell, Rockingham, Stokes Counties	23	Aftn & evening					4	5	Hail
Hail storms damaged crops in several different areas. Roofs damaged and windows broken some sections.									
Pamlico, Tyrrell Counties	24	3-4 pm					0	4	Hail
Tobacco, corn and cotton crops damaged in two separate areas.									
Nash, Wake, Washington Counties	25	3-4 pm					0	4	Hail
Tobacco crop damaged in several widely separated areas.									
Coastal Plain and Piedmont	26	Aftn					5	6	Hail, Wind, Rain
Heavy thunderstorms throughout Coastal Plain and over much of Piedmont North Carolina caused widespread heavy hail damage to crops and considerable property damage due to wind and hail. Hailstones 1 to 2 inches in diameter reported several areas. Damage reported from thirty counties. Widespread drowning of crops in several southeastern counties from rains totaling up to 16 inches this month, up to four or five inches this date.									

See reference notes at end of table.

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JUNE 1961

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					KILLED	INJURED	PROPERTY	CROPS	
NORTH DAKOTA									
Grandin	9	6:10 p.							Funnel aloft
Owinger	9	7 p.							Funnel aloft
Dickinson Area	9	8:40 p.							Funnel aloft
Fargo	12	8:36 p.					2		Lightning struck radio station
Barnes County	12	3 p.						3	Hail and rain
Wahpeton	21	5 p.					2		Hail - glass damage
OHIO									
Marion	1	6:30 PM	?	*2	0	Few	5	0	Thunderstorm
	<p>Two heavy thunderstorms passed east-northeastward across or near the Marion area during the late afternoon and early evening accompanied by strong, gusty winds, almost incessant lightning and heavy localized rainfall. The 6:30 PM storm passed directly over Marion causing widespread wind damage within the city—primarily to trees, roofing, signs, utility lines, etc. Many trees and large limbs fell onto parked cars, houses and garages and overhead wires doing extensive damage in this way. One gust at the Marion Airport was measured as 81 MPH.</p> <p>There may have been one small tornado associated with this thunderstorm. On the northwestern outskirts, two barns were practically demolished while the nearby farmhouse and surrounding large trees were untouched. A sizeable section of the barn roof was deposited at a point 100 yards from the line traversed by the storm, though no funnel cloud was seen. Value of trees destroyed is not included in the above estimate of property damage.</p> <p>During the same afternoon and evening light to locally heavy wind damage occurred at many other points in Ohio as a well-developed squall line traversed the state. Among the scattered localities reporting damage were Mt. Vernon, Worthington, Toledo, Sandusky, Wilex, Lima, Jamesville, and Jackson. In several of these places house trailers were upset by the wind, though no casualties or severe injuries were reported.</p> <p>At Denmark Center farm buildings were demolished by what was locally called a tornado, but a meteorologist has denied that it was truly such a storm.</p>								
Sulphur Springs	6	5:15 PM	?	Narrow	0	0	3	0	Tornado
	<p>A very small-scale funnel cloud was observed to approach a farm 1 mile northeast of Sulphur Springs. It dipped to the ground just in time to destroy a barn and severely damage other buildings. Debris was scattered in a wide path.</p>								
Columbus 20 mi South	7	1 PM							Funnel aloft
Piqua	8	5 PM	Short	Narrow	0	0	5	0	Tornado
	<p>A confirmed tornado passed just north of the city where it struck a new housing development and trailer park. Severe damage was done to one house and several unfinished houses and garages. A nearby radio tower at the highway patrol station was blown over. Observers definitely saw a funnel cloud and heard the storm's roar. There was no damage in Piqua proper.</p> <p>At about the same time other localized storms were reported from several other places in southwestern Ohio, including Dayton and Enon where damage was confined mainly to trees. Funnel clouds aloft were observed near Dayton and Findlay.</p> <p>In addition to the above storms, heavy thunderstorm rainfall, strong winds, and lightning strikes were reported at numerous places in northern Ohio on June 13 and in southwestern sections on June 2. Also on June 14 strong northeast winds across Lake Erie washed water ashore in the Port Clinton area damaging docks and boats.</p>								
OKLAHOMA									
Greer County	1	p.m.	?	?	0	0	3	4	Hail, rain
	<p>Heavy hail damaged unharvested wheat up to 90 percent and hail and heavy rain destroyed and washed out young cotton. The area of greatest damage was 8 to 15 miles northwest of Mangum.</p>								
Elk City, 4 miles west, Beckham County	2	6:25 p.	?	?	0	0	5	5	Tornado, hail, wind
	<p>Substation observer reported tornado on the ground; evidently struck in open country as no further information available. Heavy hail up to 2-1/2 inches in diameter caused considerable damage over a 20 mile long and variable path up to 3 miles wide across the northern portion of the county from Sweetwater to Mayfield to Merritt. Winds up to 70 miles per hour were reported.</p>								
Harmon County	2	p.m.	?	?	0	0	?	4	Hail, rain
	<p>Hail damaged young cotton and unharvested grain in parts of south and southeastern portions of the county. Heavy rain caused some washing of cotton fields.</p>								
Tipton, Tillman County	2	11:00 p.	1/4	100	0	0	3	0	Tornado
	<p>Funnel dipped down and destroyed a barn.</p>								
OKLAHOMA (Cont'd)									
Custer County	3	3:30 p.	8	*4	0	0	0	4	Rain, hail
	<p>Heavy rain of up to 5 inches caused considerable damage due to washing to young cotton fields in the Custer to Arapaho areas. Pockets of small hail caused considerable damage to cotton and unharvested grain.</p>								
Cimarron and Texas Counties	3	p.m.	?	?	0	0	?	?	Hail
	<p>Heavy hail caused total crop destruction over western Cimarron County and scattered portions of western and southern Texas County.</p>								
Baker, Texas County	3	5:45 p.	?	?	0	0	0	0	Tornado
	<p>Tornado was reported by two sources but confirming details not obtainable.</p>								
Balko, Beaver County	3	6:00 p.	1-1/4	Narrow	0	0	2	0	Tornado
	<p>Funnel dipped down three times in short path and destroyed a grain bin and damaged a fence. Tornado traveled northeastward.</p>								
Stillwater, Payne County	4	5:00 a. -8:30 a.	?	?	0	0	5	4	Rain
	<p>Heavy rain of over 6 inches caused considerable flash flooding. Roads and fields were badly damaged by washing and several small bridges were washed out.</p>								
Marietta, Love County	4	2:00 p.	?	?	0	0	?	?	Hail, wind
	<p>Hail up to the size of golf balls fell for 20 minutes and caused damage in the Marietta and Leon communities. Windows were broken and roofs damaged. Strong winds caused general light damage.</p>								
Felt, Cimarron County	5	5:15 p.	?	150	0	1	3	?	Tornado, hail
	<p>Tornado was described as huge with two smaller funnels following behind. The tornado was reported to have formed 20 miles northeast of Des Moines, New Mexico. It moved southeastward across the southwestern portion of Cimarron County near Felt, eastward about 15 miles south of Boise City and then southeastward into the Texas Panhandle where it was reported to have dissipated between Dalhart and Stratford. Grass in the path had the appearance of having been scorched by excessive heat. A barn and outbuildings were damaged or destroyed on two farms and utility lines received extensive damage. Irrigation pipe was carried 1/2 mile. Hail up to the size of tennis balls caused heavy crop damage along the path of the tornado and eastward into Texas County. Man was injured by hail when caught out in the open.</p>								
Altus, Jackson County	5	9:20 p.			0	0	0	0	Funnel aloft
	<p>Funnel cloud observed near Altus.</p>								
Lawton, 8 miles north-west, Comanche County	7	5:20 a.	?	?	0	0	0	0	Tornado
	<p>Public reported tornado. No additional details available; evidently struck in open country.</p>								
Pittsburg County	7	8:15 a.			0	0	0	0	Funnel aloft
	<p>Pilot reported funnel cloud 20 miles south-southeast of McAlester.</p>								
Hooker, 4 miles NE, Texas County	7	8:00 p.	?	?	0	0	0	0	Tornado
	<p>Public reported tornado touched ground. No damage reported.</p>								
Stafford to Clinton, Custer County	8	2:00 p.	10	*3	0	0	0	4	Hail, rain
	<p>Hail up to one inch in diameter destroyed ripened grain and young cotton. Heavy rain of up to 3 inches badly washed open fields.</p>								
Tillman County	14	6-8:00 a.	8	*3	0	0	0	4	Rain
	<p>Heavy rains of up to 4-1/2 inches caused flash flooding and washing. Cotton fields were badly damaged.</p>								
Texas County	19	6:00 p.	?	*2	0	0	?	?	Hail, wind
	<p>Hail caused up to 75% damage to wheat in north-central area of county. Strong winds damaged outbuildings.</p>								
Favshuska, 20 miles NW, Osage County	22	a.m.			0	1	2	0	Lightning
	<p>Cowboy was injured and horse he was riding was killed by lightning.</p>								
Kingfisher, Blaine, Caddo, and Kiowa Counties	25	p.m.	120	*2-5	0	0	5	5	Funnel aloft, hail, rain, wind
	<p>Severe thunderstorm moved south-southwestward from northwestern Kingfisher County, through southeast Blaine County, north and west Caddo County to southeast Kiowa County. Hail up to 1-1/2 inches in diameter caused extensive crop and property damage in a hit-and-skip manner along the path. Baseball-sized hail was reported north of Hacey in Kingfisher County. Area of heaviest damage was from Sicles to Carnegie in Caddo County. Hail drifted knee-deep in places. Cattle had their hide beaten off and wildlife losses were heavy. Strong winds estimated at 75 miles per hour damaged buildings, homes, utilities, etc. Heavy rain of up to 3 inches caused additional crop damage and washing. A funnel aloft was sighted at Carnegie.</p>								

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OREGON Entire State	Most of month				1	0	4	5	Abnormally high temperatures
									Much above normal temperatures entire State resulted in new record maximums some stations, new high June averages at large number. One man killed by heat stroke. Substantial reduction in yields strawberries Willamette Valley, processing green peas Umatilla County.
Southwest and Northeast Oregon	1	Afternoon			0	0	4	4	Lightning, Wind
									While lightning storms scattered over large number of areas, most damage caused in Jackson and Josephine counties in southwest and Union and Baker counties in northeast. Lightning killed 17 head cattle southwest when tree was struck, started several small range grass and forest fires caused considerable damage to power lines and installations resulting in number of service interruptions lasting up to several hours. Winds added to power problems by dropping number trees across lines.
Most of State	17-18	Afternoon and Evening			1	5-10	5	5	Wind, Lightning, Hail
									Strong winds observed at many widespread areas over State, in some cases associated with thunderstorms. Damaging hail also a part of this storm in three Columbia Basin counties. Several farm buildings, few homes, various other structures damaged by winds. In Willamette Valley one man killed by wind produced short in power line, large outdoor theater screen blown down demolishing it and two automobiles; considerable damage to fruit trees and cane berries. Some homes, many power lines over State damaged by wind felled trees; power service interruptions lasted from few minutes to 36 hours. Numerous small forest and range fires started by lightning, but most controlled before reaching more than a fraction of an acre in size. Three exceptions were an approximately 20,000 acre grass fire on Bureau of Land Management range land in Harney and Malheur counties and two range fires of several hundred acres each in Harney County. Localized hail damage to grains fairly severe in several small areas of Columbia Basin.
PENNSYLVANIA									
Western Counties	1	11 P.M.					5		Thunderstorm
									Strong winds accompanied by heavy rain felled several barns, utility lines, trees, and overturned a house trailer. In California the roof of a hotel was ripped off and carried some 200 feet. Other roofs in the area were also damaged.
Southwestern Counties	2	5 P.M.			1		4		Thunderstorms
									One man was killed by lightning and two others were knocked down by lightning on a golf course near Seven Springs. Lightning fired several buildings, while strong winds unroofed several others. A number of utility lines were downed cutting off electric and telephone service in a number of places for several hours.
Southeastern Area	8	Evening					5		Thunderstorms
									Strong winds uprooted trees and unroofed several buildings over a wide area. A few barns were also blown down. Lightning fired several buildings. A house trailer was overturned by the wind.
Trappe	8	5 P.M.	1	20			4		Tornado
									The tornado moved southeast along the main street and downed most of the trees lining the street. Several buildings were also unroofed.
Scattered Sections throughout State	13	Afternoon					4	3	Thunderstorms
									In western areas strong winds downed a light tower; demolished a farm home; and toppled many trees and power lines. In northwest Clarion County, heavy rain resulted in flood waters washing out a small dam, part of a roadway, one end of a bridge, and a six-inch gas line. Hail in some eastern areas riddled corn, tobacco, and barley fields.
Eastern Penna.	23	6 P.M.					3		Thunderstorms
									Lightning fired several buildings, including a barn in which a horse & heifer perished. High winds overturned a house trailer, causing heavy damage to interior.
Newmanstown	24	Evening					3		Thunderstorms
									Hail, the size of golf balls, damaged aluminum siding on a number of homes and broke several hundred windows.
Pottsville	25	Afternoon					3		Thunderstorm
									Strong winds overturned and damaged several airplanes at an air show near Pottsville.
Sharon	30	Morning					4		Thunderstorm
									Lightning fired several homes in the area causing damage estimated at \$10,000.
PUERTO RICO									None reported
RHODE ISLAND									None reported
SOUTH CAROLINA									
Columbia, Richland County	11	4:30 p-6:00 p	-	-	2	0	4	0	Heavy rain
									Some wind damage, power failures, as well as damage from lightning.
Congaree, Richland County	13	3:30 p	-	-	0	0	4	0	Lightning
									Mt. Elon Baptist Church destroyed by fire.
Ravenels, Charleston County	13	about 2:30 p	-	-	0	0	-	-	Hail
									Size of hail almost as big as hen eggs.
Northern parts of Oconee, Pickens and Greenville Counties	20-21	Afternoon of 20 to afternoon of 21	-	-	0	0	5	5	Heavy rain
									Heavy rain from 4 to well over 10 inches, was accompanied by some hail and strong winds. There was considerable damage to crops, highways and bridges. Many public services were interrupted and some areas were temporarily isolated by flash flooding.
Andrews, Georgetown County	21	Early morning	-	-	0	0	0	0	Unconfirmed tornado.
									Twisted trees off well above ground.
Summerton, Clarendon County	21	10:13 a	-	-	0	0	0	0	Funnel cloud
									Observed by Summerton Fire Tower.
Marion, Marion County	21	1:22 p	-	-	0	1	5	2	Tornado
									Tornado moved northward through Marion. Fifty houses damaged. One dwelling and a business buildings were destroyed. Power poles and lines were down; damage was spread over two city blocks.
Kershaw County	26	6:00 a	20	Narrow	0	0	4	5	Hail
									Heavy damage to cotton, corn and soybean plants in the Lugoff, Edgewood, Kirkover and Beaver Dam areas.
SOUTH DAKOTA									
Mimnehaha and Turner counties	6	Afternoon							Funnel Clouds
									Aircraft pilot observed funnel cloud briefly touching ground near Colton, Mimnehaha County. One or two funnel clouds also observed in the Parker and Centerville areas of Turner County.
Scattered Areas	11-12	p.m. of 11th to early a.m. of 12th					4	0	Electrical, wind, hail
									Thunder storms over much of the state were accompanied by local damage in areas from Belle Fourche on the west to Brookings on the east. Lightning damaged homes at Carthage, Miner County, and grain bin at Wolsey, Beadle County. A dairy barn and calf destroyed by fire at Elkton, Brookings County; hay stacks burned at Gregory, Gregory County, and at Martin, Bennett County. Hail and wind heavily damaged crops in small areas of Gregory and McPherson counties. Wind damaged store front and trees in the Belle Fourche area of Butte County.
Lemmon, Perkins County	13	1 p.m.							Funnel Clouds
									Three funnel clouds observed a few miles east of Lemmon.
Brown, Clark, Kingsbury, Lake, and Minnehaha counties	21	2:30 to 7:00 p.m.	135	1-2"	1	7	5		Tornado
									One or more tornadoes moved southeastward along most of distance from east of Aberdeen, Brown County, to southeast edge of Sioux Falls, Minnehaha County. Funnel cloud first seen between Aberdeen and Groton and later near Raymond, Clark County. Tornado hit about 4:00 p.m. a few miles southwest of Clark, Clark County, with about 20 farm buildings demolished, one house was destroyed, killing elderly lady and injuring one person. Boy reported lifted high in the air and another woman carried 100 yards by wind, both injured. Boards driven into sides of house and barn on another farm. Between 4:30 and 5:00 p.m. areas northeast of Willow Lake, Clark County, and in northern Kingsbury were hit, with a total of 13 farm buildings destroyed or twisted off foundations and four head of livestock killed. Five buildings on one farm were destroyed and house unroofed near Oldham, southeast Kingsbury County, as storm struck about 5:30 to 6:00 p.m. House roof found several miles away. Ten barns destroyed and lumber storage building unroofed at Madison, Lake County. Storm next struck southeast edge of Sioux Falls, about 6:45 p.m., unroofing one house, demolishing a house trailer, and unroofing a garage. Several residents in Sioux Falls reported seeing a funnel cloud.
Brown, Day, Clark, Hamlin, and Kingsbury, and Brookings counties	21	Afternoon					4	6	Hail
									Hail of 2 to 4 inches in diameter caused virtually total crop loss in an area about eight miles wide and nearly sixty miles long from Frederick, Brown County, to northwestern Clark County. A number of sheep, calves, and chickens also killed in this area. Heavy to total loss of crops also sustained in Hamlin, eastern Kingsbury, and western Brookings Counties. Damage to property such as windows, house trailers, and cars was considerable at Groton, Brown County, but apparently light in remainder of affected area.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>SOUTH DAKOTA (Cont'd)</b>									
Custer (near), Custer County	22	2:35 p.m.	Short	Narrow			3		Tornado
House five miles south of Custer had portion of roof torn off and blown 150 feet and remaining portion was twisted off walls and shifted about 90 degrees. Small shed nearby untouched. Funnel observed by neighbor.									
Aberdeen, Brown County	26	6:00 p.m.							Funnel
Funnel observed ten miles south of Aberdeen. Direction of movement not established.									
Northeast	26	Late p.m.			1	4	5		Hail, electrical
Hail of golf-ball size caused 75 to 100 per cent loss of crops in area ten miles square in adjacent portions of Marshall and Day counties. Extensive damage to windows and roof of a church and school at Roslyn, Marshall County. Estimated 1300 chickens and geese killed on one farm. Stack of hay fired by lightning and destroyed near same town. Man on tractor stunned by lightning and 80 bales of hay burned at Estelline, Hamlin County.									
Walworth, McPherson, Edwards, Brown, and Marshall counties	28	6:30 p.m. to 8:30 p.m.					5	4	3 Tornadoes, hail
Apparently three tornadoes struck parts of this area. The most destructive moved east southeast along a 50-mile path from ten miles south of Eureka, McPherson County, to Lake Mina in western Brown County. About twelve farm buildings were destroyed and house damaged when small shed was smashed against it in a small village of Hillview about 6:30 p.m. Storm struck north of Roscoe, Edwards County, about 7:15 p.m. Barn unroofed, stock water tank blown one mile, and destroyed another large barn plus several smaller sheds in the Roscoe area. Storm apparently touched ground for last time near Lake Mina at 7:40 p.m. as funnel cloud seen but no damage reported. A second tornado struck west of Hoven, Walworth County. On one farm a barn and five small buildings were destroyed, although grain bin nearby was untouched. Farm implements were picked up and dropped one-fourth mile away. Another farm across the road lost four buildings with house and another shed left intact. Third farm sustained total loss of cattle shed and half of roof of a barn was blown off. The Laurier area of Marshall County was struck by a twister shortly after 8:00 p.m. Funnel was seen here. An estimated 15 to 20 farm buildings were demolished or heavily damaged and stores in town were partially unroofed. A stack of 500 bales of straw was strewn over a wide area. In all of these three areas power lines and poles were downed and some hail damage to crops and property occurred.									
Medary, Brookings County	28	Late p.m.					4		Hail, wind, rain
Hail of golf-ball size caused total loss of small grain in an area of 15 square miles near the Mooko County line. Corn heavily damaged but is expected to make partial recovery. High winds and rainfall of up to 3 inches added to the damage of crops.									
<b>TENNESSEE</b>									
Whitehaven, Shelby County	3	5:45 p.			1	1	0	6	Lightning
A 15-year old boy was killed and a 10-year old girl hospitalized when struck by lightning in a wooded yard.									
Goltewah, Hamilton County	6	5:30 p.			0	1	0	0	Lightning
A man, struck by lightning, was knocked unconscious and suffered temporary paralysis and chest and shoulder burns.									
Columbia, Maury County	6	?			0	1	0	0	Lightning
A woman was hospitalized for shock and an arm injury when she touched her stove during an electrical storm.									
Fort Campbell (near), Montgomery County	7	6:00 p.			0	1	3	0	Wind
A woman suffered a hand cut when a store window was blown out. A nearby building was unroofed and a large sign was snapped in two.									
Memphis, Shelby County	10	4:31 a.			0	0	5	0	Lightning
Lightning struck a power substation switch installation causing extensive damage.									
Crossville, Cumberland County	11	3:00 p.			0	0	4	0	Lightning
Lightning struck a six room house causing a fire which destroyed the house and it's contents.									
Gallatin, Sumner County	13	8:00 a.			1	0	0	0	Lightning
A man was struck by lightning and killed while riding a tractor.									
<b>TEXAS</b>									
Pampa, Gray County	2	2:30 p- 3:00 p	Short	Narrow	0	0	?	?	Tornado, Hail
Small tornado touched ground about 12 miles south of Pampa on Highway U.S. 70. A truck parked along highway was carried about 40 yards, then up an 8 foot embankment and through a fence. The driver was not injured, but truck demolished. Hailstones up to 3 1/2 inches in diameter broke windows on north side of Calanese Plant west of Pampa, and broke windshields and dented roofs of parked automobiles nearby. Hail damage also occurred at the Cabot Carbon Company plants. Hailstones averaged 1 inch in diameter. About 3 inches of rain fell within 3 hours.									
Southern Lynn Co.	2	7:00 p- 9:00 p	15	*5	0	0	4	5	Hail
Hail up to 1 1/2 inches in diameter damaged property and crops over a 75 square mile area in the vicinity of O'Donnell. Hailstones averaged 1 inch in diameter, and entirely covered the ground.									
Dawson County	2	8:00 p- 9:00 p	12	*5	0	0	0	5	Hail
Small hail, averaging 1/2 inch in diameter, and covering the ground to depth of 1/2 inch severely damaged crops over 50,000 acres in the NE portion of Dawson County.									
Paducah, Cottle County	2	8:00 p- 10:30 p	4	*2	0	3	4	0	Wind
Thunderstorm winds estimated at 70 to 80 mph blew over 2 trailer homes, upended a cotton trailer, blew out a plate glass window, and blew the end out of another building. 3 persons were injured, but none seriously.									
SE of White Deer, Carson County	2	Evening							3 Funnels aloft
Near Draw, Lynn County	2	Evening							Funnel aloft
W of Mileshee, Bailey County	3	Afternoon	20	*5	0	2	?	?	Hail
Hundreds of homes and thousands of acres of young crops were heavily damaged in a strip beginning about 1/2 miles N. of Mileshee. Largest stones measured 1 3/4 inches in circumference, with average stones 1 1/2 inches in diameter. 2 persons received head injuries from the falling hailstones.									
Near Lorenzo, Crosby County	3	Afternoon							Funnel aloft
Lamb County	3	4:30 p- 6:00 p	35	25x0	0	0	4	5	Tornado, hail
Large tornado moved through central Lamb County from north of Sudan, SE to vicinity of Spade. One farm home destroyed, 6 others suffered roof damage; several outbuildings demolished. Hail damaged crops over 30,000 acres. Largest hailstones 2 1/2 inches in diameter, with average 1/2 inches in diameter.									
Anson, Jones County	3	5:00 p	2	*1	0	0	5	?	Hail
Hail up to "golf ball" size damaged about 95% of the homes and business buildings in Anson. Hail covered the ground to a depth of 8 inches in places. Practically all the unprotected windows on the north and northwest sides of buildings were knocked out. Some 300 windows were knocked out of the school buildings. At the Court House, only 3 out of 20 windows on the north side were left unbroken.									
Abilene, Taylor County	3	6:00 p	?	?	0	0	3	4	Wind, hail
Four airplanes and an automobile were damaged when storm winds pushed 500 lb. hangar doors onto them at the Abilene Municipal Airport. At the Weather Bureau, peak winds were measured at 80 mph, and several windows in the airport building smashed by hail up to 3/4 inches in diameter. Hail fell in about a 100 square mile area enclosing the city, and caused spotted damage to crops in Taylor County. Damage was estimated at 100% in a few areas.									
Between Vega and Amarillo, Oldham & Randall Co.	3	8:00 p- 9:00 p	?	?	0	0	0	0	Tornado and funnels aloft
Tornado first sighted west of Vega and again 6 miles east and 2 south of Vega moving in an easterly direction. Last sighting on the ground was southeast of Wildorado. Funnels aloft continued eastward to near the Veterans Hospital, just west of Amarillo, and to the Hollywood Road-Canyon Expressway intersection. These developed from the same parent cloud that spawned a tornado 7 northeast of San Jon in Eastern New Mexico.									
5 W. Anton, Rockley County	3	?	?	*2	0	0	?	0	Tornado
Tornado moved through rural area. It sheared the roof off one farm home, demolished outbuildings, and heavily damaged a truck by flying debris. Telephone poles between Spade and Anton were blown down. Path of the tornado could be traced through open country by the pattern of tangled trees and debris. Windows and doors were "sucked" from the damaged home, according to the occupants who were inside, but not injured.									

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

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					KILLED	INJURED	PROPERTY	CROPS	
TEXAS (Cont'd.)									
Collingsworth County	3	6:00 p- 6:20 p	6	*1 1/2	0	0	2	4	Hail
Hail averaging 1/2 inch in diameter with largest stones 3/4 inches caused damage to field crops in area from E of Plymouth Cemetery to 2 E of Lattie. Damage was mostly to ripening wheat.									
Roscoe and Vicinity Nolan County	3-4	10:00 p- 2:30 a	?	?	0	0	5	5	Wind, hail, rain
Strong thunderstorm winds, small hail, and heavy rain damaged property and crops in a large portion of Nolan County around Roscoe. Hailstones averaged 1/2 inch in diameter and covered the ground to a depth of 2 inches. Largest stones were 1 inch in diameter.									
Olney Archer County	4	2:00 p- 2:30 p	8	*3	0	0	?	?	Hailstorm
Hailstones up to 3 inches in diameter damaged roofs of houses and barns in Olney, and young cotton in the area.									
Rule Haskell County	4	5:00 p- 5:15 p	8	8	0	0	4	4	Hail
Hail up to 4 inches in diameter damaged property and crops in Rule and vicinity. Hailstones averaged 2 inches in diameter, and completely covered the ground.									
Near Moran Shackelford County	4				0	0	?	?	Flooding
Flood waters of Deep Creek near Moran washed out a section of track of the M&T Railway as a result of an 8-inch rain. The flooding creek also washed over low-lying pastureland in the area and covered a section of U.S. Highway 380.									
Callahan County	4-5	6:30 p- 6:00 a	?	?	0	0	5	5	Flooding, Hail
Torrential rains of up to 12 to 14 inches unofficially flooded Mayhair Creek, Deep Creek, and Pecan Bayou. Flood water rose waist deep in the Premier Refinery 6 E of Baird. A west plant 1E of Baird suffered heavy damage from the flood waters. Sections of the Texas and Pacific Railway track between Baird and Putnam were washed out. Pans, fences, windmills, and outbuildings in the area were heavily damaged. In addition to flood and rain damage, hail accompanying the storm caused an estimated \$50,000 in damage to crops over a 200 square mile area.									
Stanford Jones County	4-5	10:00 p- 5:00 a	?	*4 1/2	0	0	4	?	Wind
Thunderstorm winds estimated at 90 mph blew one-half the roof off a service station, blew down 3 utility poles on the southeast edge of the city. Numerous windows in homes were blown down, and numerous roofs of homes suffered wind damage. 1.05 inches of rain accompanied the storm.									
Dallas County	5	3:00 p	?	?	0	0	?	?	Tornadoes
Two large tornadoes moved across portions of Dallas County causing little damage except to a few windmills and fences. One of these large tornadoes was accompanied by 2 smaller ones. One tornado moved from eastern New Mexico, eastward across the county, south of Tulline, and about 25 miles northwest of Dalhart. One observer watched the tornado here very slowly eastward for 30 minutes, and it was in contact with the ground all the time. A second tornado, estimated at 450 to 1000 feet or more in diameter, entered the county near the Oklahoma-Texas line, 30 miles north of Dalhart, and a little to west of U.S. Highway 385. This tornado bounced along a 20-mile path southeastward. Two smaller tornadoes trailed the larger one along the 20 mile path, and the smaller ones lifted above ground occasionally. The large tornado withdrew aloft before reaching Stratford.									
Waco McLennan County	5	3:00 p- 5:30 p	30	*15	0	0	4	0	Wind, hail
Thunderstorm winds accompanied by hail damaged property in a 450 square mile area from Cholan to Waco to Rosenthal. The roofs from several homes were blown off in the Rosenthal-Goldina area, sheet metal barns and farm outbuildings were flattened. In Waco winds measured at 81 mph overtopped 4 airplanes and damaged several hangars at the Municipal Airport, blew over a large sign and damaged 6 automobiles. 8 utility poles were blown down and many trees blown down. The public reported a loud roaring noise accompanying the storm near Rosenthal, indicating a possible funnel cloud. Up to 1 1/2 inches of rain accompanied the storm. Hail up to 1 1/2 inches in diameter fell over approximately the same area, but damage was mostly from wind, rather than the hail.									
Wayside Community Armstrong County	5	5:30 p- 6:30 p	8	*2-3	0	0	0	5	Hail
Hail up to 4 inches in diameter damaged wheat near wayside and extending south and east. Hailstones averaged 2 inches in diameter, and hit from 3 to 9 feet apart.									
SE Spur Dickens County	5	6:00 p- 8:00 p	*200	?	0	0	0	0	Tornado
Tornado touched ground briefly in rural area near Gilpen, about 9 east of Spur.									
Between Calgary and Crosbyton Crosby County	5	6:00 p- 8:00 p	15	*3 1/2	0	0	3	4	2 Tornadoes, hail
Hail damaged crops beginning about 5 W Crosbyton extending SE 15 miles. Two tornadoes touched ground in ranch country doing little damage. The path of one was 7 miles long and 50 yards wide. A few utility poles and fence posts were blown down.									
TEXAS (Cont'd.)									
Cone and Vicinity Crosby County	5	6:00 p- 8:00 p	12	*2-8	0	0	?	5	Hail
Hail heavily damaged crops in triangle from Balls to Cone, then NE about 12 miles. In Cone, almost all windows on the north side of homes were broken by golf ball size hail. Up to 3 inches of rain fell in the area during the storm.									
10 SE Pampa, Gray Co.	5	7:05 p							Funnel aloft
Post Garza County	5	7:30 p- 8:20 p	15	?	0	0	4	0	Wind, 3 tornadoes, hail
Winds estimated at 80 mph demolished one home and blew the roofs off 2 others. Most of damage was to roofs of homes, broken plate glass windows, twisted or blown down TV antennas and blown down sections of fences. Several persons reported hearing a roaring noise which may have been a funnel passing overhead. 3 tornadoes touched ground for only a few seconds north of Post. The storm moved from NE toward SW. Hail between golfball and baseball size knocked out all the windows on the north side of a home 7 miles east of Post.									
9 S. Fronte Coke County	5	8:30 p			0	0	?	0	Lightning
A 6-room home (frame) destroyed by fire that resulted from lightning.									
Lorona McLennan County	5	9:10 p	30'	10'	0	0	2	0	Tornado
Very small tornado touched ground once, uprooting trees. Cooperative Weather Observer watched funnel aloft for about one mile before it touched ground 50 feet from where he was standing. The tornado went back into the aloft. The tornado sounded like a train. Winds were estimated at about 90 mph before tornado struck.									
Anson Jones County	5	11:30 p- 12:15 a	1 1/2	*3/4	0	0	5	?	Wind, lightning
Wind estimated at 90 mph blew off the roof and crumpled the wall of a service station, blew off the roof of a labor camp house and damaged a seed house in the north part of the city. Highway signs in the area were blown over or badly twisted. One large sign was jerked out of the ground and blown intact some 50 feet. Another strip of sewer wind dam occurred in the south part of the city where an oil company shed was demolished and a roof section blown off a large near the golf course. One home was struck by lightning which caused a fire that completely destroyed it.									
N of Spearman Hansford County	6	1:30 a	10 sq miles		0	0	0	?	Wind, hail
Damage to ripening wheat was estimated at 30% to 70% over 10 square mile area in north part of Hansford County.									
1 SE Fort Stockton Reos County	6	6:30 p- 6:35 p							Funnel aloft
10 S Fort Stockton Reos County	6	5:30 p- 5:00 p	1/2	100	0	0	0	2	Tornado
Tornado touched ground in open ranch country; uprooted a few trees, and killed one cow. The storm moved from SW toward NE.									
15 N Pampa Gray County	7	1:30 a	?	?	0	0	0	0	Tornado, funnels aloft
Touched ground in open ranch land. Other funnels reported sighted but did not touch ground.									
Hutchinson and Carson Counties	7	Early morning							Funnels aloft
Funnels aloft were sighted during early morning hours near Stimpert and near Fritch in Hutchinson County, and near Skellytown in Carson County.									
1 N Valley View Cooke County	7	7:30 a- 8:00 a	1	100	0	0	2	0	Tornado
One trailer house blown over; sheet iron blown off roof of a barn. One person was in chicken house when tornado struck. All doors (flap) were opened outward by the wind then lowered into place after passage. There was no wind at all for a moment.									
Near Plains Yoakum County	7	4:20 p	?	?	0	0	0	0	Tornado
Tornado touched ground on U.S. Highway 380 about 3 miles east of Plains. The tornado moved from the northwest then followed a zig-zagged course toward the south and east. A highway sign was picked up and carried about 150 feet into the air.									
Hartley County	7	5:00 p							Funnels aloft
Funnel clouds were observed in the vicinity of Rita Blanca Lake, immediately south of Dalhart, and near Hartley, 14 miles SE.									
20 SE Morton Cochran County	7	5:30 p- 6:00 p	1/5	50	0	0	2	0	3 Tornadoes
3 tornadoes touched ground briefly in open country. The storm movement was from SE toward NE.									
Randall County	7	6:00 p- 7:00 p	8-10	3-4	0	0	0	5	Hail
Small hail, averaging 1/3 inch in diameter heavily damaged ripe wheat in a strip beginning NE of Canyon on City Lake Road and extending eastward across Washington Street. Hailstones covered the ground to a depth of 6 inches in places.									

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

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 Roscoe Nolan County	7	9:45 p	?	?	0	0	3	4	Wind
	Strong thunderstorm winds damaged property and crops in a 4 square mile area in the west portion of the Nolan Community, and a 2 1/2 square mile area in the northwest portion of Roscoe. 2 barns were demolished and 2 utility poles knocked down 1/2 miles west of Roscoe.								
NE of Colorado City Mitchell County	7	9:45 p							Funnel aloft
	Sighted in the Buffard and China Grove Communities. The storm moved from SSW toward the NNE. The surface wind, estimated at 60 mph, was from the north, and the funnel was moving into the surface winds.								
Near Kress Suisser County	7		?	?	0	0	0	?	Hail
	Hail on ripening wheat resulted in losses up to 75% in spotted areas near Kress.								
25 N Snyder Scurry County	8	4:15 p							Funnel aloft
	Sighted near Fuller Gasoline Plant.								
Gholson Community McLennan County	8	4:30 p- 6:00 p	3	*2	0	0	4	4	Wind, hail
	Hail up to 1 inch in diameter, and averaging 1/2 inch in diameter stripped corn crops and covered the ground to a depth of 3/4 inches. Strong thunderstorm winds ripped roofs from barns and sheds, and felled many trees.								
Fluvanna Soury County	8	5:00 p- 6:30 p	6	*4	0	0	4	?	Hail, rain, wind
	Hail up to 1 1/2 inches in diameter resulted in total loss of field crops in 6 by 1 mile area around Fluvanna. Hailstones broke many windows, and shredded fruit trees in Fluvanna. Average size of hail was 3/4 to 1 inch, with the ground covered to a depth of 2 inches. Rains of from 2 to 3 1/2 inches fell over most of the area with 5 to 6 inches reported in one area east of Fluvanna. Strong, gusty winds accompanied the storm.								
Near Snyder Scurry County	8	5:45 p- 6:00 p							Funnel aloft
	Funnel aloft sighted in Lake Thomas area southeast of Snyder. One boat house suffered minor damage from strong surface winds on the north side of the lake.								
Brady McClulloch County	8	6:10 p	5	*2	0	0	5	0	Hail
	Hail up to golf ball size severely damaged roofs and dented automobiles as if pounded by hammers within the city limits of Brady. Heaviest damage was to the flat roofs of commercial buildings around the square. Hail completely covered the ground with average diameter 3/4-1 inches. Most moon signs within the city were broken.								
Near Littlefield Lamb County	8	6:30 p- 7:30 p	30	100	0	0	0	?	Funnel aloft
	Funnel moved over rural area from 7 west of Littlefield to near Aitch from SW toward NE. The funnel appeared to remain aloft although there was some wind damage to crops underneath.								
Near Rockwall Rockwall County	8	9:33 p	?	*3	0	0	?	?	Hail
	Golf ball size hail was reported in a 3-mile wide strip near Rockwall, while a 1-mile wide strip in the middle received hail the size of baseballs.								
Wilbarger County	8	10:00 p- 12:00 p	4	*1	0	0	0	4	Hail
	Hail up to 2 inches in diameter damaged crops on about 2500 acres in the Lockath area. The ground was about 75% covered with hailstones averaging 1 inch in diameter. Damage was to grain sorghum and young cotton.								
Floyd County	8		?	?	0	0	0	?	Hail, rain
	A 2-inch rain and small size hail damaged ripe wheat as much as 40% in an area northwest of Floydada. Heaviest damage extended from one mile east to six miles southeast of Lockney.								
6 S. Victoria Victoria County	9	2:30 p- 2:35 p		short narrow	0	0	0	0	Tornado
	Small tornado touched ground briefly. Funnel existed only about 5 minutes.								
Houston Harris County	10	9:30 a			0	3	0	0	Lightning
	Three persons were temporarily paralyzed when lightning struck a Houston home, ripping a hole in the roof. Two of the injured were sleeping in an upstairs room; the third was on the lawn outside. The one outside was found lying on the grass, and was unable to talk or move for about 15 minutes.								
Near Whitesboro Grayson County	10	3:00 p- 3:15 p							Funnel aloft
Turkey Hall County	12	5:00 p	?	*1	0	0	?	?	Hail, wind
	Hail, rain and strong winds damaged crops in the Turkey area. Small cotton and feed grains were completely wiped out in an area east of Turkey near the cemetery on a path about 1/2 mile wide directly toward Northfield. Approximately 25 to 30 farmers in this area lost their crops. One new barn was demolished by strong wind and a chicken house and garage damaged. Rain measured 2 inches or more in some areas.								
Near Rachel Brooks County	14		?	?	0	0	0	0	Tornado
	Tornado touched ground in open ranch land along U.S. Highway 261 between Norias and Rachel.								
TEXAS (Cont'd.)									
Cleveland Liberty County	11-19				0	0	5	0	Flooding
	13.1 inches of rain over a 6-day period flooded more than 100 streets in Cleveland, resulting in extensive damage to streets, private businesses, and construction establishments. Official conservative estimates of damage to the streets alone were placed at about \$100,000.								
Near Peecos Reeves County	15	3:30 p							3 Funnels aloft
5 N. Burnet Burnet County	15	7:30 p	short narrow		0	0	?	0	Tornado
	Small tornado touched ground on farm, demolishing a chicken shed, and blowing a cow shed out into a pasture. Several trees in a pasture were twisted off.								
Big Spring Howard County	15	9:30 a			1	0	0	0	Flooding
	A 19-year-old airman was drowned when he fell into a 20-foot-wide drainage ditch on the north side of Webb APB and was swept through a 2600 foot drainage pipe. A heavy rain of 3.10 inches caused the airman to either slip into the ditch or obstruct his vision so that he walked into it. Low lying streets in Big Spring were flooded for a time as well as a section of U.S. Highway 80 west of the city.								
San Antonio Bexar County	15				1	0	0	0	Flooding
	A 2-year-old girl drowned while playing in a San Antonio creek swollen by heavy rains.								
Eagle Pass Maverick County	16-18		?	?	0	0	4	4	Flooding
	Heavy rains upstream flooded lowland along the Rio Grande in Maverick County. A few houses along the river bank were flooded. Some livestock were drowned in the lower Vegas River.								
Near Freer Duvall County	17								Funnels aloft
Austin Travis County	17-18				0	0	4	0	Flooding
	Rains totaling 6.42 inches from 15th through 18th caused flooding along Brushy Creek and several smaller creeks in East Austin on the 17th and early morning of the 18th. Hardest hit was the Covalla area. Most of the damage was to streets in the area.								
South Central	17-26				0	0	5	4	Rain, flooding
	Locally heavy rains of 3 to 13 inches on 17-18th on Frio, Atascosa, Guadalupe, and San Antonio River watersheds resulted in extensive flooding 17-18th, and through the 26th on the lower Frio. Heavy rains continued until early morning of the 19th over the middle and lower Guadalupe and San Antonio Rivers. Principal damage was to growing crops along the Guadalupe River which was estimated at 5 million dollars. Lesser damage occurred to fences, terraces, highway and railroad embankments, and farmlands along the Lavaca, Neavid, Frio, Atascosa, and San Antonio Rivers. Victoria was the only city in which considerable flood damage occurred. 13 inches of rain fell in 24 hours in the vicinity of Quind on Bordo Creek, 7 to 8 inches fell at Batesville on the Leona River, and 10 to 13 inches covered a large area centered 10 miles north of the Whitsett gage on the Atascosa River. A 48-hour total of 17 inches fell 6 miles northwest of Campbellton on the Atascosa.								
1 W Palito Blanco Jim Wells County	18	12:00 p							Funnel aloft
	Up to 3.50 inches of rain fell in the area.								
Near Alice Jim Wells County	18	12:37 p							2 Funnels aloft
	One sighted 6 S. of Alice; another 3 W of Alice.								
San Antonio Bexar County	18	1:00 p			1	0	0	0	Flooding
	A 44-year-old woman was drowned when swept away by the rushing waters of Alazan Creek after more than 4 inches of rain. The victim was attempting to return to her automobile stalled on a bridge. Creek waters were 3 feet over the bridge, and the automobile was toppled and carried 75 feet downstream.								
Corpus Christi Bay Nueces County	18	2:35 p							Waterspout
	Between Ingleside and Aransas Pass.								
Near Corpus Christi Nueces County	18	2:40 p							Funnel aloft
Near Kingsville Kleberg County	18	2:50 p							Funnel aloft
1/2 E Bishop Nueces County	18	3:00 p	2	*2	0	0	2	0	Tornado
	Touched ground briefly. Noise was similar to that of a freight train. The wind was practically calm before tornado struck. The tornado was gray in color, and moved from S to N. Only slight damage resulted from the storm.								
Near Robstown Nueces County	18	3:45 p	short narrow		0	0	4	0	Tornado
	Small tornado touched ground briefly 1 1/2 miles east of Robstown on State Highway 44, damaging a shed, some fences, and one automobile.								
Near Victoria Victoria County	18	5:10 p							Funnel aloft
1/2 SW Genado Jackson County	18	5:10 p							Funnel aloft

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

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 Corpus Christi Nueces County	18	5:31 p- 5:35 p							Funnel aloft
Lamb County	18	6:00 p- 6:30 p	?	*3 1/2	0	0	?	?	Wind, rain, hail
Galveston Galveston County	18	7:50 p	1/4	50	0	5	5	0	Tornado, rain & flooding
Andrews Area Andrews County	18	8:30 p	?	*10	0	0	?	?	Wind, hail
Seminole Gaines County	18	8:50 p	?	?	0	2	4	4	Tornado, wind, hail
Hale and Swisher Counties	18		60	*5	0	0	0	?	Hail
Victoria Victoria County	22				0	0	4	5	Flooding
Farmer's Branch Dallas County	23	6:00 p			1	0	0	0	Lightning
Olton area Lamb County	24	6:30 p- 7:30 p	30	*1 1/2	0	0	0	6	Wind, hail, rain
Richland Hills Tarrant County	25				2	0	6	0	Flooding
TEXAS (Cont'd.)									end below. There was considerable damage to homes along Big Fossil and Little Fossil Creeks, and lesser damage to some homes in Fort Worth. Most of the damage was to expensive homes in the southwest section of Richland Hills. Approximately 150 homes were flooded, many to their roof-lines. Two persons drowned when they drove a truck into a flooding creek at Haslet, 10 miles north of Fort Worth.
10 W Corpus Christi Nueces County	26								Sighted near Annaville.
9 ENE Galveston Galveston County	28	6:06 a- 6:16 a							Waterspout on Galveston Bay.
Near Hutto Williamson County	29	5:25 p			0	0	?	?	short narrow Tornado
Galveston Bay Galveston County	29	7:34 a- 7:45 a							Small tornado dipped to the ground for several minutes as it skipped over open pastures about 4 miles southeast of Hutto. The tornado demolished 2 barns and stirred up considerable dust as it moved across the fields.
Near Corpus Christi San Patricio County	30	11:00 a- 11:15 a							Funnel aloft
McLennan County	8	8:40 p					?	?	Funnel aloft, wind
UTAH Point Springs, Uintah County	6	1:45 PM					3		Lightning
VERMONT Bartland	13	5 p.			0	0	3	0	Wind, Hail
St. Albans	13	6:45 p.			0	0	0	0	Hail
Highgate Springs to Highgate to Franklin.	13	6:45 p. to 12 7:15 p.	100 to 500		0	0	4	3	Tornado
Lake Champlain (near Grand Isle)	25	Late afternoon			4	0	0	0	Electrical
U.S. VIRGIN ISLANDS									None reported
VIRGINIA Fairfax County	2	Evening			1	?	?	?	Thunderstorm
Southern & Central Piedmont, Tidewater, and Eastern Shore	3	Afternoon & night			0	?	?	4	Thunderstorm, hail
Newport News	6	Evening			0	0	?	0	Thunderstorm
Lynchburg, Roanoke, Powhatan County	7	Afternoon			0	0	?	?	Thunderstorms
Westmoreland County	8	Afternoon & evening			0	0	?	?	High winds

See reference notes at end of table

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1961

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>†</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>VIRGINIA (Cont'd.)</b>									
Central Virginia	9-10	Afternoon			0	0	?	0	Scattered thunderstorms
	Lightning destroyed a large tool shed loaded with equipment, struck and killed a cow, damaged an automobile and caused additional minor scattered damages, all in separate incidents. Scattered areas of damage from fallen trees and limb breakage.								
Henrico, Hanover, New Kent, Charles City Counties	10	Evening			0	?	?	?	Heavy rains
	Torrential rains in thunderstorms caused flash flooding and erosion. Hardest hit was Providence Forge area. Highways flooded on Route 60 causing hundreds of motorists to be stranded several hours. Richmond's West End - Lakeside area was flooded, some homes evacuated. Some secondary roads also blocked by falling trees.								
Blackstone	11	9 A.M.			0	0	?	?	Funnel cloud
	Funnel cloud dipped to tree-top level for about 4 minutes, then lifted.								
Bedford	12	Afternoon			0	0	3	0	High wind
	The roof was blown from a home during a thunderstorm.								
Washington County	15	Evening			0	0	?	?	Flash flooding
	Torrential thunderstorm rains caused flash flooding in Southwest Virginia. Highways and roads were washed out. Railroad beds were undermined. Building basements were flooded. Hardest hit was the Bristol and Damascus areas.								
Pittsylvania-Halifax Counties	23	Evening			0	0	?	?	Severe thunderstorms
	Hail was widespread, up to "golf-ball" size and some reported as spiked shaped. Crops stripped, many windows to buildings broken. Accompanying high winds blew down 50 large trees in one small section near Danville, unroofed several buildings and moved one house off its foundation.								
Southampton County	26	1:49 P.M.	1/2	?	0	0	1*	C	Tornado
	About 10 miles southeast of Franklin a barn roof hurled 200 yards. Smoke house was moved off its foundation, chicken house destroyed. Trees uprooted and one twisted off 10 feet above ground. Funnel was observed. Heavy hail stripped crops in a small area. Elsewhere in the county hail damage was reported and some trees toppled.								
<b>WASHINGTON</b>									
Southeastern counties	6	6 PM			0	0	3	5	Thunderstorms-Hail
	Several severe thunderstorms developed in extreme eastern counties as a frontal system moved across the State. The most damaging hail storms occurred in Asotin and Whitman counties. Hail stones 1 1/2 to 2 inches in diameter destroyed crops and damaged property in extreme eastern Asotin county, and smaller hail damaged crops in Garfield, Whitman and other eastern counties.								
<b>WEST VIRGINIA</b>									
Wheeling	1	10:00 P			0	0			Thunderstorm with heavy rain
	Wheeling Airport recorded gusts to 90 m.p.h.								
New Martinsville and Parkersburg	2	Evening			0	0	4		Heavy rain, wind
	Roof removed from dwelling, some trees and power lines down; also lightning damage.								
Morgan County	8	Evening			0	0	4		Violent wind; heavy rain
	Trees and power lines down and streets flooded.								
Glen Dandall (near Beckley)	13				1	0			Thunderstorm
	Woman killed by severe lightning.								
Williamstown	23	Evening			0	0	3		High winds, rain, hail
	Trees and power lines down; slight damage to gardens.								
<b>WISCONSIN</b>									
10th St. Creix	9	6:00 pm							Hail
	1 1/2" to 2" in diameter								
Lone Rock	10	5:30 pm							Funnels
	2 funnels observed for about 2 minutes								
Sheboygan	11	1:00 am							Hail
	Hail ranging from pea to golf ball size								
40th Eau Claire	21	2:56 pm							Funnel
Seneca	24	3:30 pm					1		Lightning
Near Desota	24	early afternoon					2		Lightning
<b>WYOMING</b>									
Cheyenne	2	1:00 p.			0	1	0	0	Lightning
Cheyenne 38 NE	2	6:55 p.							Funnel aloft
Pine Bluffs 2 E	3	7:00 p.	?	?	0	0	0	0	Tornado
Buford	6	4:30 p.							Funnel aloft
Northwest of Laramie	6	5:00 p.				1	0	3	0
	Lightning struck a herd of sheep, killing the herder and 89 sheep.								
Laramie 25 NW	10	1:30 p.							Funnels aloft
	Three funnels aloft were sighted, moving out of sight northeast.								
Casper	10	5:20 p.							Hail
	Hail to 1-1/2 inches in diameter.								
South Pass	17	3:00 p.			0	1	0	0	High wind
	High wind tore a piece of plywood loose from construction and hit a man in the back.								
Kaycee	19	Noon					2	C	Hail
	Most of the hail was about 1/2 inch but some was up to 1 inch in diameter.								

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

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

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# STORM DATA AND UNUSUAL WEATHER PHENOMENA

DELAYED DATA

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
OREGON	Dec. 1960		None	reported					
WEST VIRGINIA	Dec. 1960		None	reported					
NORTH DAKOTA	Jan. 1961		None	reported					
INDIANA	Feb. 25-26, 1961				2	?	6	0	Snow, wind, freezing rain, sleet
	<p>Snowfall exceeding 12 feet and high winds brought highway travel to a stand still. Freezing rain, sleet and wind broke utility lines and repairs were not possible for hours. Several cities declared an emergency and state police closed some roads at the borders to interstate travel. Hoosiers in various stages of taking part in sectional basketball tournaments suddenly were marooned in cars, farmhouses and gymnasiums when the roads became clogged by snow, disabled automobiles and trucks. Hundreds of communities were without power for lighting and heating houses for many hours since repair crews could not reach the downed lines. Several deaths were caused by exertion and accidents. A child died of convulsions while parents were snowbound away from home. One man died of possible monoxide poisoning. The most snow accumulated in south central Indiana (Jackson and Jennings Counties). The high winds which whipped the snow into 12-foot drifts were general. Many rural schools were closed on the 27th. Central eastern border counties were least affected by the storm.</p>								
HAWAII	Mar. 1961		None	reported					
ALASKA	Apr. 1961		None	reported					
KANSAS Bourbon County	Apr. 30, 1961	11:00am						5	Electrical
	<p>A bolt of lightning struck the ground several miles south of Fort Scott, went through 3 feet of soil to the buried telephone lines and travelled along the cables causing damages to the 300 wire cables over a 6-mile stretch. Damage and repair costs were estimated at \$100,000.</p>								
UTAH Green River, Emery County	May 4, 1961	2:00 PM	10	25-100				3	Tornado
	<p>Small tornado, which moved from south-southwest toward north-northeast, caused minor damage in Emery and Grand Counties in vicinity of Green River.</p>								

USCOMM-WB-Asheville - 8/1/61 - 1050