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# STORM DATA



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*L. Ray Hoxit*  
ACTING DIRECTOR

NATIONAL CLIMATIC DATA CENTER

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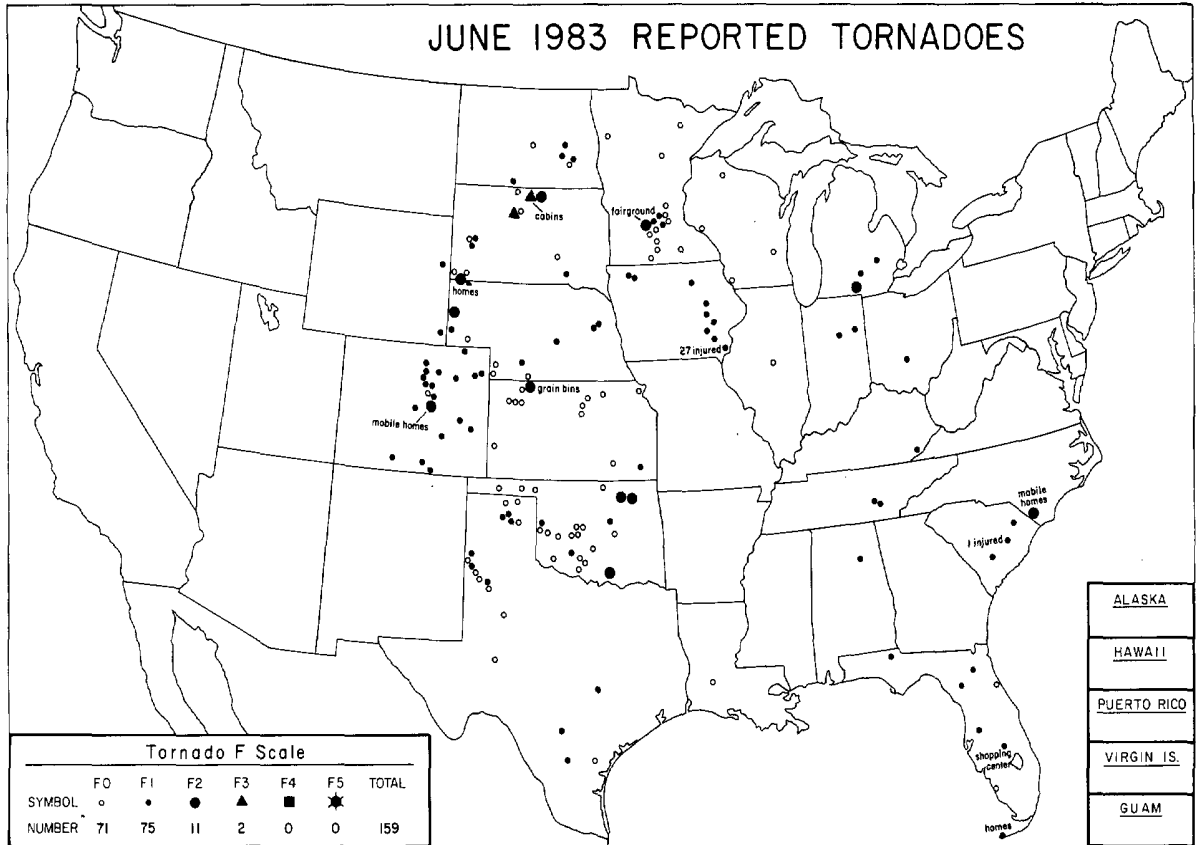
## C O N T E N T S

	<u>Page</u>
Outstanding Storms of the Month.....	3
Storm Data and Unusual Weather Phenomena.....	10
Storm Summary.....	42
Reference Notes.....	43
"F" Scale Definitions.....	43

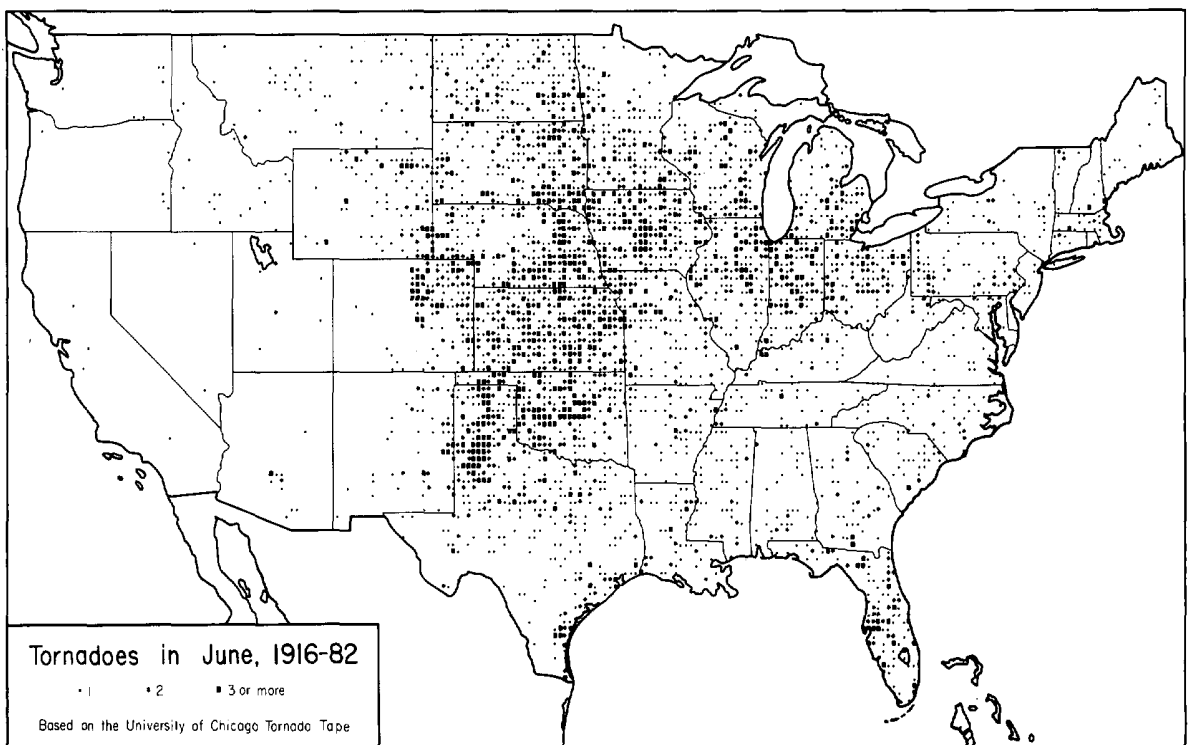
NOTE: The section on Outstanding Storms of the Month is prepared and edited by Professor T. Theodore Fujita, University of Chicago. The narrative descriptions of Storms by State and Summaries of Hurricanes and Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles the statistics on deaths, injuries, and damage. 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. Late Reports and Corrections will be carried quarterly.

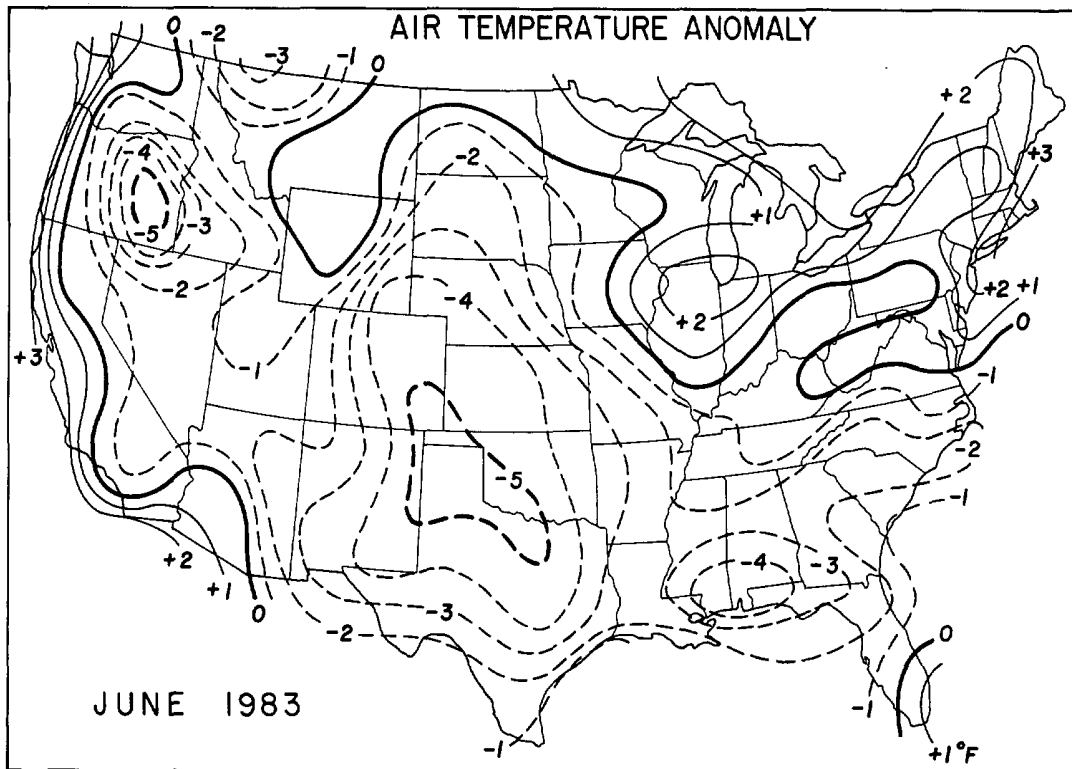
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# OUTSTANDING STORMS OF THE MONTH



<ul style="list-style-type: none"> <li>● COMPLETE REPORT RECEIVED</li> <li>◐ PRELIMINARY REPORT RECEIVED</li> <li>○ REPORT NOT RECEIVED</li> </ul> <p>(N) northern (W) western (S) southern (C) central (E) eastern (O) coastal (SE) southeastern</p>	<table style="width: 100%; text-align: center;"> <tr> <td>● 1AL</td><td>● 7DE</td><td>● 14KS</td><td>● 21MN</td><td>● 28NJ</td><td>● 33OH</td><td>● 39SD</td><td>● 44VA</td><td>● 49AK(SE)</td> </tr> <tr> <td>● 2AZ</td><td>● 8FL</td><td>● 15KY</td><td>● 22MS</td><td>● 29NM</td><td>● 34OK</td><td>● 40TN</td><td>● 45WA</td><td>● 50HI</td> </tr> <tr> <td>● 3AR</td><td>● 9GA</td><td>● 16LA</td><td>● 23MO</td><td>● 30NY(O)</td><td>○ 35OR</td><td>○ 41TX(N)</td><td>● 46WV</td><td>● 51PR</td> </tr> <tr> <td>● 4CA(N)</td><td>● 10ID</td><td>● 17ME</td><td>● 24MT</td><td>● 30NY(C)</td><td>● 36PA(E)</td><td>● 41TX(S)</td><td>● 47WI</td><td>● 52VI</td> </tr> <tr> <td>● 4CA(S)</td><td>● 11IL</td><td>● 18MD</td><td>● 25NE</td><td>● 30NY(W)</td><td>● 36PA(W)</td><td>● 41TX(W)</td><td>● 48WY</td><td>● 53PC</td> </tr> <tr> <td>● 5CO</td><td>● 12IN</td><td>● 19MA</td><td>● 26NV</td><td>● 31NC</td><td>● 37RI</td><td>● 42UT</td><td>● 49AK(N)</td><td></td> </tr> <tr> <td>● 6CT</td><td>● 13IA</td><td>● 20MI</td><td>● 27NH</td><td>● 32ND</td><td>● 38SC</td><td>● 43VT</td><td>● 49AK(S)</td><td></td> </tr> </table>	● 1AL	● 7DE	● 14KS	● 21MN	● 28NJ	● 33OH	● 39SD	● 44VA	● 49AK(SE)	● 2AZ	● 8FL	● 15KY	● 22MS	● 29NM	● 34OK	● 40TN	● 45WA	● 50HI	● 3AR	● 9GA	● 16LA	● 23MO	● 30NY(O)	○ 35OR	○ 41TX(N)	● 46WV	● 51PR	● 4CA(N)	● 10ID	● 17ME	● 24MT	● 30NY(C)	● 36PA(E)	● 41TX(S)	● 47WI	● 52VI	● 4CA(S)	● 11IL	● 18MD	● 25NE	● 30NY(W)	● 36PA(W)	● 41TX(W)	● 48WY	● 53PC	● 5CO	● 12IN	● 19MA	● 26NV	● 31NC	● 37RI	● 42UT	● 49AK(N)		● 6CT	● 13IA	● 20MI	● 27NH	● 32ND	● 38SC	● 43VT	● 49AK(S)	
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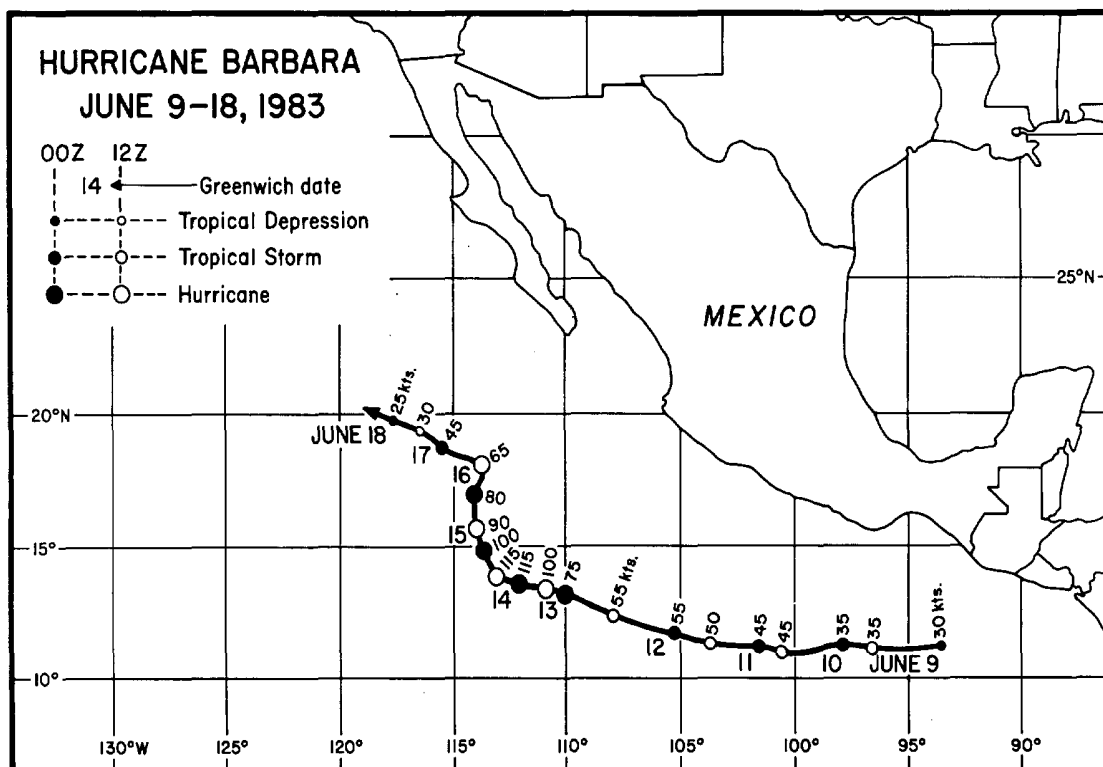




---Data base from NOAA/USDA Joint Agricultural Weather Facility.

### 1. HURRICANE BARBARA on June 9-18, 1983

Hurricane BARBARA, the second Eastern Pacific hurricane of the season, followed a west-northwest path paralleling the coast of Mexico from June 9th to the 18th. BARBARA maintained hurricane strength for a four-day period during which maximum winds reached 115 kts. with gusts up to 135 kts. ---Best track data from NWSFO Redwood City, Ca.

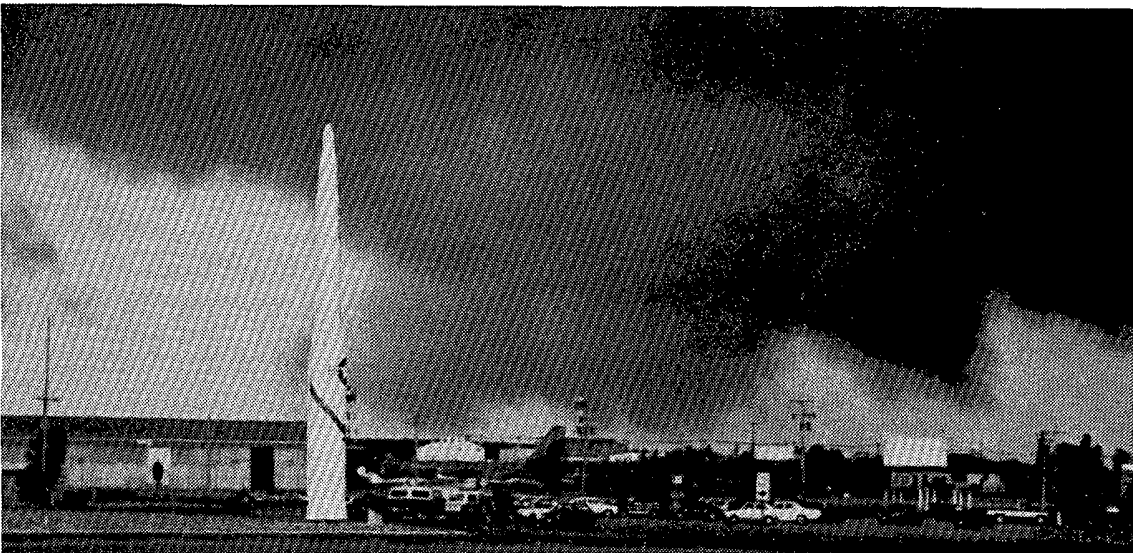


## 2. TORNADOES near RAPID CITY, SOUTH DAKOTA on June 18, 1983

On June 18th, 3 short-lived tornadoes were spawned by a thunderstorm near Rapid City, South Dakota. 2 of the tornadoes touched down near Ellsworth Air Force Base and were observed by Detachment 17, 9th Weather Squadron. Both tornadoes, occurring consecutively, moved rapidly east-southeastward. ---All photos by Bill Wilson, USAF Meteorologist.



The first tornado at Ellsworth Air Force Base (looking north).



The first tornado dissipating, taken 5 minutes after the top photo.



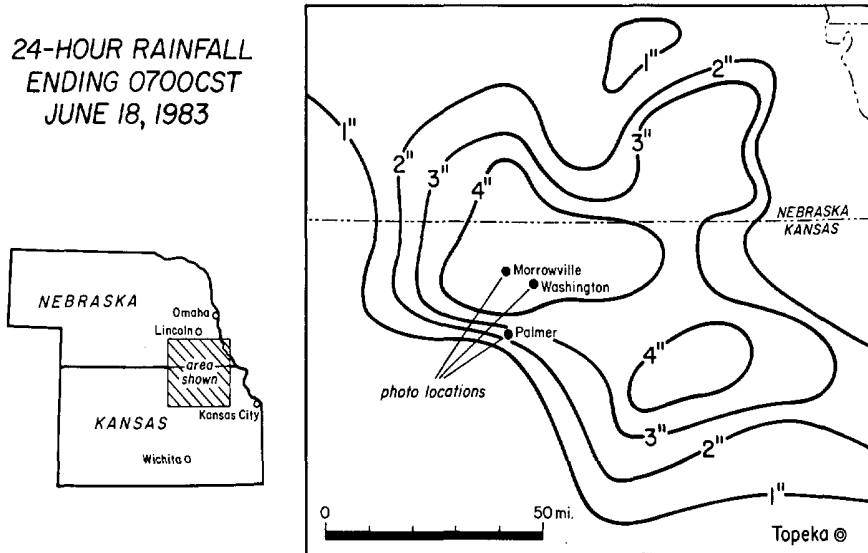
The remaining wall cloud after the first tornado ended (looking east).



The second tornado, which had a rare, tilted axis, and strong upward motion (looking north).

### 3. FLASH FLOODS in KANSAS and NEBRASKA on June 17-18, 1983

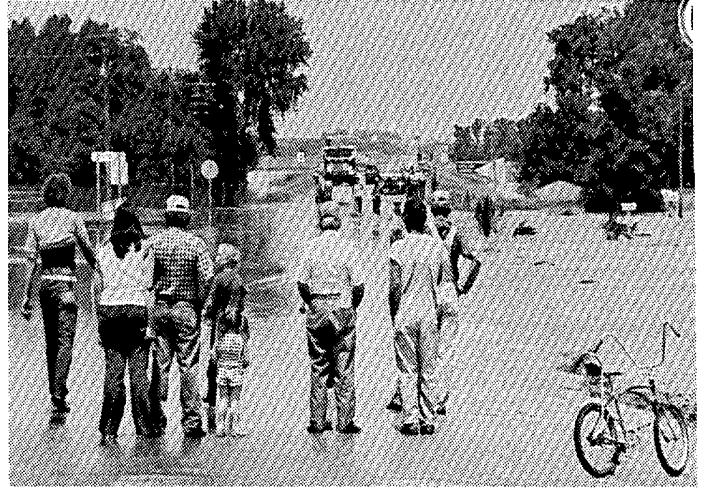
Heavy thunderstorm rainfall caused extensive flash flooding in areas along the eastern portion of the Kansas-Nebraska border in the late evening of June 17th and the early morning of the 18th. The rain, falling on nearly saturated soil, sent most local streams out of their banks, some over a foot above flood stage. ---Rainfall data supplied by NWSFOs at Topeka, Kansas and Omaha, Nebraska. All photos submitted by Steven Schurr, NWSFO Topeka, Kansas.



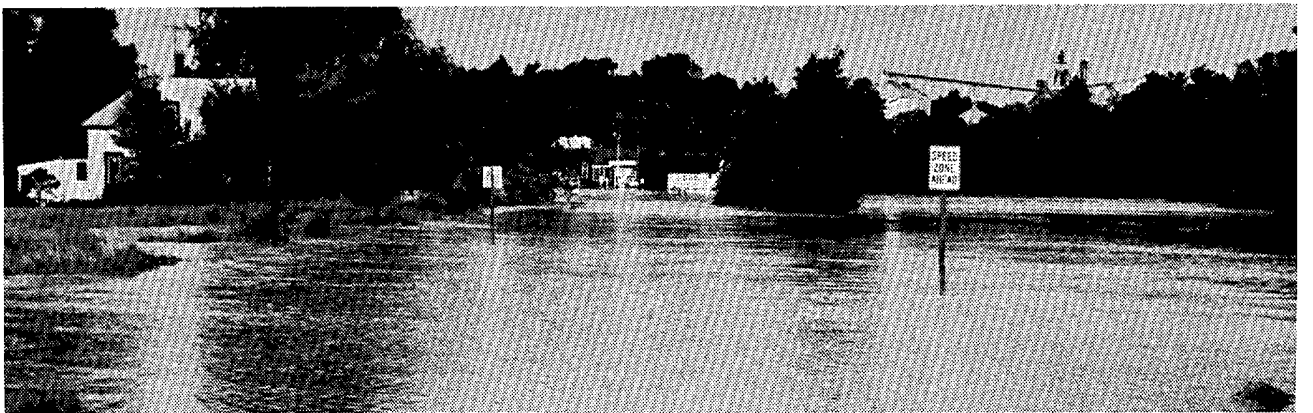
Flooding of Mill Creek at Morrowville, upstream from Washington, about 2 hours after the creek crested on the 18th (view looking west). North Central High School appears at center and Kansas Highway 15W (submerged) crosses left to right. ---Photo by Duane Schrag, Washington County News.



FLASH FLOODS in KANSAS and NEBRASKA ---- continued



Mill Creek flooding at Morrowville in front of North Central H.S. (left) and across Kansas Highway 15W (right). ---Both photos by the Belleville Telescope.



Peats Creek at Palmer just after sunrise on the 18th. ---Photo by Kent Meyerhoff, Washington County News.



A farm along Mill Creek, one mile west of Washington at about 1300CST on the 18th (looking west). ---Photo by Duane Schrag, Washington Co. News.

4. SPRING FLOODS and MUDSLIDES in UTAH during May and June, 1983

Much of Utah was ravaged by widespread floods and mudslides during May and June, the result of a late and rapid melting of a greater than normal snowpack. Many canyons along the Wasatch Mountains suffered damage from the spring runoff, and even a few streets in Salt Lake City were converted into canals as a measure to prevent potential flooding. ---Photos supplied by David Carpenter, NWSFO Salt Lake City, Utah.



Washout of Lakeview Drive in Bountiful, Utah where it once crossed over Stone Creek. ---Photo by the Salt Lake City Tribune.



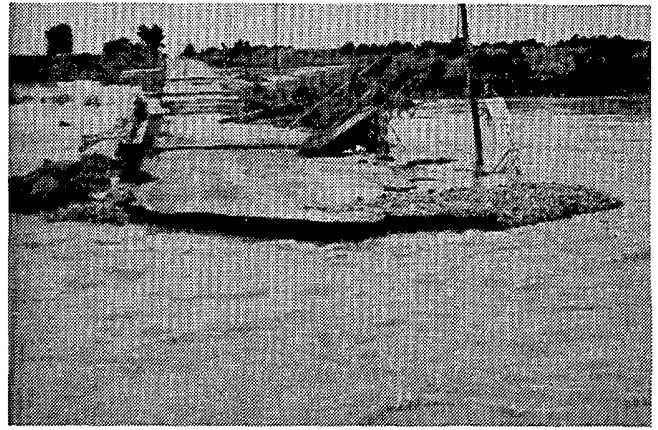
A car buried by rock, mud and debris from the Rudd Canyon mudslide in Farmington, Ut. ---Both photos by Grant Twitchell, NWSFO Salt Lake City, Utah.



A sandbag canal on State Street in Salt Lake City, used to control excess runoff.



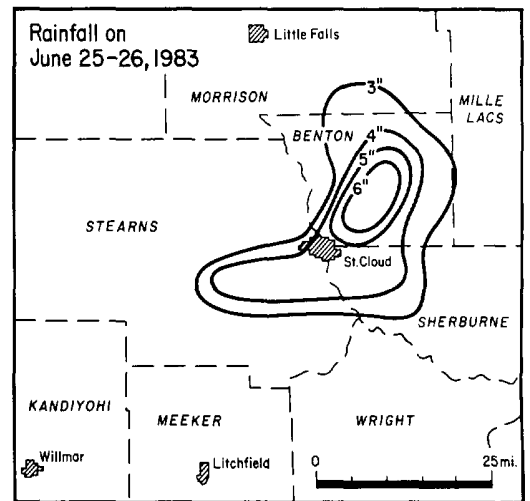
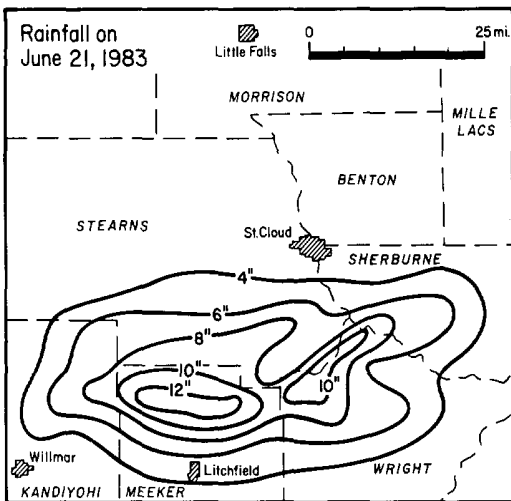
SPRING FLOODS and MUDSLIDES in UTAH ---- continued



Damage along the Sevier River at Deseret, Utah (left) and between Delta and Sutherland, Utah (right) after the D.M.A.D. Dam near Delta broke. ---Both photos by Grant Twitchell, NWSFO Salt Lake City, Utah.

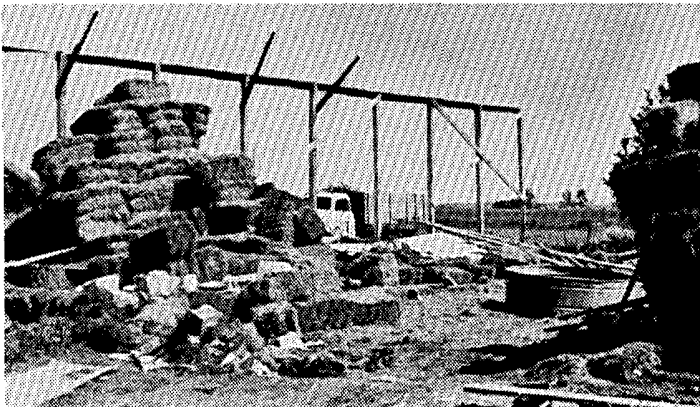
5. FLASH FLOODS in CENTRAL MINNESOTA on June 21 and 25-26, 1983

Two episodes of flash flooding occurred near St. Cloud, Minnesota from heavy rains of up to 12 inches on June 21st (below left) and more than 6 inches on the 25th to 26th (right). ---Maps supplied by the Minnesota Dept. of Natural Resources, St. Paul.



6. THUNDERSTORM WINDS and HAIL in EAST CENTRAL KANSAS on June 18, 1983

Heavy thunderstorms produced hail and high winds in east-central Kansas on June 18th. Below are a wind-destroyed barn southeast of Garnett (left) and hail-beaten wheat northwest of Burlingame (right). ---Photos supplied by NWSFO Topeka, Kansas.



---Photo by the Anderson Countian, Garnett KS. ---Photo by Kurt Kessinger, Osage County Chronicle.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>1 ALABAMA</b>									
Madison, Madison County	04	0045CST			0	0	?	?	Hail
Hail the size of quarters was reported by the Madison Police Department.									
Fayette County	04	0224CST			0	0	4	0	Wind
Thunderstorm winds downed trees and utility lines over southern Fayette County, mainly in the area between Covin and Fayette. At least 3 homes were damaged by falling trees, but most of the damage appeared to be minor. Some 30 trees were downed on a golf course in the area and 8 power line poles were broken near Covin. Hail was also reported.									
Decatur area, Morgan County	14	1740CST			0	0	?	?	Hail
Police reported marble golf ball size hail near I-65 and Highway 67.									
Elgin, Lauderdale County	15	0220CST			0	0	4	0	Wind
Thunderstorm winds downed several trees. One large tree landed on a five room frame house. The house was reported to have been damaged beyond repair.									
Ragland, St. Clair County	16	1450CST			0	0	3	0	Wind
Some trees were uprooted and power lines downed around Main Street in Ragland as an intense thunderstorm moved over the area. Hail also accompanied the thunderstorm.									
Southside, Etowah County	16	1510CST	4	30	0	1	5	0	Waterspout/ Tornado (F1)
One person was injured when a small tornado overturned their mobile home in the Southside area. The tornado actually began as a waterspout over the Coosa River southwest of Southside according to reports from the scene. A boat was blown out of the water and heavily damaged. Two mobile homes were overturned in the Southside area. The police department's radio tower was bent over nearly to the ground and trees, including some giant oaks over 100 years old, were uprooted. There was also damage to the elementary school and some stores.									
Tuscaloosa County	23	1107CST			0	1	0	0	Lightning
An 8 year old child was critically injured by lightning while standing near the beach area of Lake Lurleen in western Tuscaloosa County. The child was not in the water and no rain was occurring at the time according to reports from the scene.									
Brewton, Escambia County	26	1700CST			0	0	4	0	Lightning
Lightning was the apparent cause of a fire that extensively damaged a home.									
Mobile, Mobile County	28	After-noon			0	0	?	0	Flash Flood
Heavy rains of from 4 to 6 inches caused mainly street and small stream flooding and a related traffic accident claimed the lives of 4 people. The flooding was mainly over the western part of Mobile where torrential rains fell from about 1400 to 1445CST. At about 1420CST, a city of Mobile vehicle occupied by 5 city employees was involved in a multi-vehicle collision just west of the intersection of I-65/10. The vehicle left the interstate upon impact and plunged into a rain swollen creek. Two of the vehicles' occupants were swept away and drowned and two of the occupants died of injuries suffered in the collision. The fifth occupant was treated and released at a hospital.									
<b>2 ARIZONA</b>									
Yuma, La Paz and Mohave Counties		20-continued into July			0	0	7	6	Flooding
Severe controlled flooding occurred along the Colorado River below Hoover Dam as water releases were increased to record levels to allow for the rapid increase in the record up-stream flow into Lake Powell, which reached 136,000 cubic feet per second on June 3rd. A combination of a long cold winter, record snowfall in the late spring and a sudden warm spell the first part of June were responsible for the inflow which was 191 percent of normal for that time of the year. Repairs to the spillways at Glen Canyon Dam, damaged by the rushing water, will cost an estimated \$5 to \$6 million. The hardest hit areas below Hoover Dam were Bullhead City, Bermuda Plantation, Parker and Yuma, where hundreds of houses, mobile homes, trailers, motels and businesses were under one to six feet of water. In the Parker area damage was put at \$5 million with over 150 units damaged. In the Yuma area about 120 units were damaged and over 60 in the Bullhead City-Bermuda Plantation area. Altogether 700 to 800 people evacuated their residences. There was considerable damage to crops and some destruction of livestock.									
<b>ARIZONA</b>									
									Damage to private property was estimated at \$8 million and the overall damage in the state at \$15 to \$17 million. On July 1st, President Reagan declared Yuma, La Paz and Mohave Counties a disaster area.
<b>3 ARKANSAS</b>									
Washington County	03	1645 CST	--	---	0	0	--	--	Hail
Three-quarter inch hail fell at Prairie Grove.									
Sebastian County	03	1655 CST	--	---	0	0	4	--	Hail
Egg size hail was reported between Lavaca and Bloomer. Some cars were dented or had windshields broken. Many structures received roof damage.									
Franklin County	03	1708 CST	--	---	0	0	4	--	Hail
Golfball size hail was reported at Charleston. There was extensive window, roof, and windshield damage.									
Clay County	03	1927 CST	--	---	0	0	4	--	Wind
Winds from a thunderstorm interrupted power and knocked down trees in Corning. Several out-buildings were unroofed. Between thirty and thirty-five utility pole were knocked down.									
Conway County	03	2019 CST	--	---	0	0	--	--	Funnel Cloud
An Arkansas State Police Trooper reported a funnel cloud near Blackwell.									
Pope County	03	2030 CST	--	---	0	0	4	--	Lightning
Lightning struck a tree on a farm. Fourteen head of cattle under the tree was killed. Farm is located at Crow Mountain.									
Prairie County	03	2145 CST	--	---	0	0	3	--	Lightning
The Sheriff's Department communications antenna at Des Arc was struck by lightning Friday night. The outage lasted until the middle part of the following week because the antenna was knocked completely off the roof at the County Jail.									
Dallas County	03	2150 CST	--	---	0	0	--	--	Wind
Several trees, about fifteen, were knocked down by strong thunderstorm winds between Carthage and Farindale.									
Lincoln County	03	2200 CST	--	---	0	0	3	--	Wind
Strong thunderstorm winds broke windows and uprooted trees in Star City. Three homes and three businesses were damaged partially.									
Cleveland County	03	2200-2215 CST	--	---	0	0	3	--	Wind
Strong winds from a thunderstorm knocked down trees and power lines around Rison. Ten homes received minor damage.									
Jefferson County	03	2215 CST	--	---	0	0	4	--	Wind
Strong thunderstorm winds knocked down trees across the southern portion of the county. A spotter measured winds of sixty-four miles per hour with his home anemometer in Pine Bluff. A man was trapped inside his car for one hour and a half along highway 15 near Pinebergen, due to a fallen tree across his car. Also, extensive damage was done to a mobile home in Pine Bluff.									
Desha County	03	2230 CST	--	---	0	0	4	--	Wind
A mobile home in Gould was destroyed completely by a large tree that fell on it. The tree was blown down by strong thunderstorm winds.									
Arkansas County	03	2230 CST	--	---	0	0	3	--	Wind
Strong thunderstorm winds knocked down trees and power lines in Stuttgart. Out-buildings received minor roof damage.									
Ashley County	03	2330 CST	--	---	0	0	3	--	Wind
A strong thunderstorm moved through Portland, knocking down trees and crushing one pickup truck and one automobile. Just north of there, near Montrose, a mobile home was unroofed.									
Drew County	03	2330 CST	--	---	0	0	--	--	Wind
Thunderstorm winds blew down several trees in Monticello.									
Scott County	05	1730 CST	--	---	0	0	4	--	Wind
Outflow from a thunderstorm blew down a large oak tree onto a mobile home in Waldron. The mobile home was destroyed completely. Another mobile home received minor damage.									

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JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS		
<b>— ARKANSAS</b>										
Washington County	05	1735-1800 CST	--	---	0	0	4	-	-	Lightning
An electrical transformer caught on fire after being struck by lightning in Fayetteville. Also, a mobile home and a residence were set on fire by lightning in Springdale.										
Hempstead County	05	1900 CST	--	---	0	0	4	-	-	Lightning
about Lightning struck a mobile home at Patmos, burning it to the ground.										
Hempstead County	05	1905 CST	--	---	0	0	3	-	-	Severe Thunderstorm
A severe thunderstorm moved northeastward through the county, dumping hail from small size up to golfball size from Fulton to near Blevins. Wind produced minor damaged in Washington. Some trees were knocked down. Also, thirteen head of cattle were killed by a lightning strike in the northern end of the county, about eight miles west of Prescott.										
Sevier County	05	1930-2100 CST	--	---	0	0	4	-	-	Wind
Strong thunderstorm winds produced widespread power outages due to downed trees across the county. Horatio, De Queen, and Provo received most of the damage.										
Independence County	14	1100 CST	--	---	0	0	4	-	-	Lightning
A mobile home burnt to the ground in Desha, after being struck by lightning.										
White County	14	1200 CST	--	---	0	0	4	-	-	Lightning
about Lightning damaged the roof of a Searcy Church. Also, the television antenna on a residence was struck by lightning, causing considerable damage from the ensuing fire.										
Quachita County	17	1630 CST	--	---	0	0	4	-	-	Lightning
Lightning caused two house fires in Camden. One residence had minor damages while the other was damaged substantially.										
Faulkner County	22	1300 CST	--	---	0	0	3	-	-	Wind
A thunderstorm produced strong wind gusts which damaged, signs, cars, and power lines in Conway.										
Poinsett County	23	1800 CST	--	---	0	0	4	-	-	Lightning
about A home was virtually destroyed by lightning and a resulting fire just northeast of Harrisburg.										
Independence County	23	2055 CST	--	---	0	0	4	-	-	Lightning
About five miles north of Charlotte, lightning started a fire at a utility building. It also killed three horses and two cows on the farm.										
Craighead County	25	1946 CST	--	---	0	0	3	-	-	Lightning
A Jonesboro residence caught on fire after being struck by lightning.										
Johnson County	28	0030 CST	--	---	0	0	4	-	-	Wind
about A thunderstorm with strong winds blew down trees and damaged one home in Harmony. Also, two poultry houses were damaged.										
Pope County	28	0100 CST	--	---	0	0	4	-	-	Wind
about A strong thunderstorm damaged two poultry houses and destroyed a third one in the Oak Grove Community. The wind also unroofed a barn.										
Polk County	28	1946 CST	--	---	0	0	-	-	-	Hail
Hail was reported ten miles west of Mena, ranging in size from one-half to one inch.										
Washington County	28	2204 CST	--	---	0	0	-	-	-	Wind
The Fayetteville Flight Service Station reported a wind gust of fifty-eight miles per hour.										
Clark County	30	1525 CST	--	---	0	0	-	-	-	Hail
about One inch diameter hail fell at Curtis.										
4 CALIFORNIA, Northern — NONE REPORTED										
4 CALIFORNIA, Southern — NONE REPORTED										
<b>5 COLORADO</b>										
Lincoln County	1	1620MST			0	0	0	0	0	Hail
Golfball size hail fell near Hugo.										
Cheyenne County	1	1700MST			0	0	0	0	0	Hail
Golfball size hail fell in the Northern part of the county.										
Kiowa County	1	1854MST	#	35	0	0	0	0	0	Tornado (F1)
A tornado was sighted 10 miles northeast of Eads. FPP101										
Weld County	2	1310-1320	1	100	0	0	3	0	0	Tornado (F1)
Numerous sightings of a tornado 2 miles west of Platteville were reported. The twister moved toward the southeast, and did \$1000 damage to farm equipment. The twister was accompanied by torrential rain; two inches fell in just 10 minutes near Platteville. FPP112										
Arapahoe County	2	1327-1330	1	70	0	0	3	0	0	Tornado (F1)
A tornado touched down 5 miles south of Bennett. It destroyed an outbuilding and did extensive damage to greyhound dog shelters. Golfball size hail fell near the tornado, destroying some hay. FPP112										
Larimer County	2	1335MST			0	0	0	0	0	Hail
Hail up to 2 inches in diameter fell 15 miles west of Fort Collins.										
Arapahoe County	2	1400MST			0	0	0	0	0	Hail
Golfball size hail fell near Watkins.										
Logan County	2	1627MST	#	50	0	0	0	3	0	Tornado (F1)
A tornado was sighted 8 miles north of Sterling. It touched down in an alfalfa field and caused slight crop damage. 1 to 3 inches of rain fell in a short time in the area, causing some additional damage to crops. FPP101										
Logan County	2	1655MST			0	0	3	0	0	Lightning
Lightning hit a house four miles north of Sterling, and ruined a washer and dryer.										
Larimer County	4	1435-1500MST			0	0	0	4	0	Hail
Golfball size hail fell two miles northwest of Timnath; corn and alfalfa were damaged in the area.										
Arapahoe County	4	1440MST	1	35	0	0	0	0	0	Tornado (F1)
A tornado was sighted 5 miles southeast of Byers. FPP111										
Elbert County	4	1440-1515MST	8	200	0	0	5	0	0	Tornado (F2)
A large tornado touched down near Elizabeth, then moved along an east northeast track to the north of Kiowa. The twister damaged two mobile homes and a shed while intermittently touching down and lifting off the ground. One of the mobile homes was moved two feet off its foundation. The tornado destroyed about \$70,000 worth of timber on a ranch, snapping and leveling trees in a broad swath. The twister also destroyed a few power poles. FPP223										
Otero County	4	1500MST	1	50	0	0	3	0	0	Tornado (F1)
A tornado just southwest of Rocky Ford blew off a shed roof, toppled a power line, and damaged a machine trailer. FPP111										
Weld County	4	1535-1610MST			0	1	7	6	0	Hail
A violent hailstorm ripped through downtown Greeley and adjacent areas of Weld County. A few stones the size of softballs were seen; baseball sized hail was common. Four of the five car dealerships in Greeley suffered extensive damage to hundreds of vehicles. One and a half million dollars' worth of damage occurred at the University of Northern Colorado, where numerous windows were broken and roofs damaged. Damage of these types occurred in a 4 to 5 mile wide swath throughout the city, and crops outside town were flattened by the huge hailstones. 11 of the city's 13 police cars suffered broken windshields. One person sustained a minor head injury when hit by a hailstone. Total damage in Greeley was estimated at 27 million dollars.										
Weld County	4	late aftn.			0	0	0	6	0	Hail
Beside the damage in the Greeley area, many other spots in Weld County were blasted by hail ranging in size from 3/4 inch to golfball diameter. Crop damage in the county amounted to several million dollars, with onions especially hard hit. The worst crop damage appears to have been in a swath running from Windsor through Greeley, Grover, and New Raymer.										
Weld County	4	1655-1713MST	2	50	0	0	0	0	0	Tornado (F1)
A tornado was spotted between Fort Lupton and Hudson. FPP111										

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

## COLORADO

There were many other reports of severe weather on June 4 with no accompanying damage. a chronology of all the severe weather on that date follows, with counties included. Times MST.

1240	Golfball size hail 5 miles west of Parker (Douglas County)								
1410-1420	3/4 inch hail in south Denver (Denver County)								
1415	3/4 inch hail in Akron (Washington County)								
1420-1427	1 1/4 inch hail in southeast Aurora and Littleton (Arapahoe Cy.)								
1433	3/4 inch hail 6 miles northeast of Fort Collins (Larimer County)								
1435	3/4 inch hail in southeast Aurora (Arapahoe County)								
1435-1500	Golfball size hail 2 miles northwest of Timmath (Larimer County)								
1436-1444	Golfball size hail 8 miles ESE of Fort Collins (Larimer County)								
1440	Tornado 5 miles southeast of Byers (Arapahoe County)								
1440-1515	Tornado first sighted near Elizabeth, passed 1 mile east of Kiowa (Elbert County)								
1444	1 inch hail at Littleton (Arapahoe County)								
1447-1450	1 1/2 inch hail in south Aurora (Arapahoe County)								
1500	1 1/2 inch hail 4 miles east of Windsor (Weld County)								
1500	Golfball size hail 4 miles north of Red Feather Lakes (Larimer Cy.)								
1500	Tornado just southwest of Rocky Ford (Otero County)								
1503-1517	Golfball size hail in east Aurora (Arapahoe County)								
1532	Golfball size hail 4 miles east of Windsor (Weld County)								
1534-1538	3/4 inch hail at Littleton (Arapahoe County)								
1535-1610	Golfball to softball size hail in Greeley (Weld County)								
1600	1 1/2 inch hail 5 miles northwest of Fort Lupton (Weld County)								
1600-1700	3/4 inch to golfball size hail south and east of Grover (Weld Cy.)								
1630	Golfball size hail at La Salle (Weld County)								
1637	55 to 65 mph winds east of Kersey (Weld County)								
1649	Golfball size hail at Platteville (Weld County)								
1655-1713	Tornado between Fort Lupton and Hudson (Weld County)								
Weld County	7 1405MST	0	0	0	0	0	0	Hail	
	Golfball size hail was reported at Grover.								
Morgan County	7 1630MST	0	0	0	0	0	0	Hail	
	3/4 inch hail fell 11 miles SSE of Wiggins.								
Lincoln County	9 1708MST	1	35	0	0	0	0	Tornado (F1)	
	A tornado was reported 7 miles ENE of Karval by a county sheriff. FPP111								
Las Animas County	10 1900MST	1	35	0	0	0	0	Tornado (F1)	
	A tornado was observed 15 miles south of Walsenburg by the Colorado state patrol. FPP101								
Las Animas County	10 2000MST	1	35	0	0	0	0	Tornado (F1)	
	A tornado was spotted 5 miles south of Trinidad. FPP101								
Weld County	12 1200-1400MST	0	0	?	6	0	0	Hail	
	Large hail fell at a number of spots in southern Weld County, causing at least a million dollars of damage to crops including beans, sugar beets, and barley. The area hardest hit was around Prospect Valley, where hail up to golfball size piles up to a depth of 5 to 12 inches. 50 to 60 mph winds accompanied the hail producing thunderstorms.								
Jefferson County	12 1140-1200MST	0	0	5	0	0	0	Hail	
	3/4 inch to golfball size hail fell in Arvada, denting cars and house roofs. Over a thousand damage claims were filed from the area.								
Adams County	12 1207MST	0	0	3	3	0	0	Hail	
	Golfball size hail fell in Thornton, causing \$2500 damage to a car.								
Adams County	12 1239MST	0.3	20	0	0	0	0	Tornado (F1)	
	After numerous sightings of funnel clouds, ham radio operators sighted a tornado about 10 miles northeast of Denver's Stapleton Airport. It was only on the ground for 1 or 2 minutes. FPP100								
Morgan County	12 1249MST	1	35	0	0	0	0	Tornado (F1)	
	A tornado touched down briefly 10 miles northwest of Hoyt. FPP111								
Morgan, Washington Counties	12 1300-1600MST	0	0	4	6	0	0	Hail	
	Large hail pounded a swath through Southern Morgan and Northern Washington counties. Stones of diameters of 3/4 inch to golfball size were common, and softball size hail fell at Woodrow. Windows were broken and cars damaged in that area, and also near Brush. In Washington county 20 to 30 thousand acres of wheat were damaged by hail, along with corn, beans, and sugar beets.								
Washington County	12 1540MST	1	35	0	0	0	0	Tornado (F1)	
	A tornado touched down briefly 6 miles south of Woodrow. FPP111								
Lincoln County	12 1545MST	0	0	4	0	0	0	High winds	
	Winds of up to 75 mph blew off the roof of a house in Limon. Three power poles were blown down in the town, and power and telephone service was knocked out.								
Yuma County	12 1550MST	1	50	0	0	0	0	Tornado (F1)	
	A tornado was observed 7 miles north of Wray, heading to the east. Golfball size hail accompanied the twister. FPP111								

## COLORADO

Yuma County	12 1600MST	1	70	0	0	0	0	Tornado (F1)	
	A tornado 5 miles east of Yuma damaged a barn. FPP112								
Yuma County	12 1600-1730MST	0	0	6	?	0	0	High wind, hail	
	Several severe thunderstorms moved through northern Yuma county with high winds and hail up to golfball size in addition to the two tornadoes mentioned earlier in this report. A total of at least 40 power poles were downed in and between the towns of Yuma, Eckley, and Wray, with others downed in spots from Brush (in Morgan county) to the Kansas border. Numerous windows were broken in Yuma county, and farm equipment was damaged in some areas. A trailer and a hangar were also damaged. Most damage in the county was due to wind.								

### CHRONOLOGY OF SEVERE WEATHER REPORTED ON JUNE 12...ALL TIMES MST.

1140-1157	3/4 inch to golfball size hail in Arvada (NE Jefferson Cy.)								
1150	1 1/4 inch hail 2 miles east of Hudson (S Weld Cy.)								
1200	3/4 inch hail in Northglenn (Xtrm. W. Adams Cy.)								
1200	Ping pong ball size hail 5 inches deep just E of Prospect Valley (SE Weld Cy.)								
1200	Golfball size hail 6 miles E of Brighton (NW Adams Cy.)								
1207-1226	1 to 2 inch diameter hail in Thornton (W Adams Cy.)								
1215	Baseball size hail killed chickens 22 miles E of Prospect Valley (xtrm. SE Weld Cy.)								
1230	Tornado 10 miles NE of Stapleton Airport (W Adams Cy.)								
1245	Tornado 10 miles NW of Hoyt (SW Morgan Cy.)								
1300	2 inch diameter hail near Keesburg (SE Weld Cy.)								
1329	Golfball size hail 6 miles S of Fort Morgan (S. Morgan Cy.)								
1330	3/4 inch hail in Boulder (NE Jefferson Cy.)								
1339	3/4 inch hail in Arvada (NE Jefferson Cy.)								
1350	3/4 inch hail 3 miles SW of Longmont (E Boulder Cy.)								
1400-1405	Golfball size hail 11 miles south of Brush (SE Morgan Cy.)								
1400-1445	Golfball to softball size hail in E. Boulder Cy.								
1401	2 1/2 inch hail NE of Denver (W Adams Cy.)								
1414-1420	1 inch to golfball size hail at Akron (W Washington Cy.)								
1455	Golfball size hail 15 miles S of Bennett (NW Elbert Cy.)								
1500	Golfball size hail at Bennett (Ctrnl Arapahoe Cy.)								
1535	1 1/4 inch hail 3 miles east of Byers (E Arapahoe Cy.)								
1540	Tornado 6 miles S of Woodrow (W Washington Cy.)								
1545	Wind gusts up to 75 mph in Limon (NW Lincoln Cy.)								
1550	Tornado 7 miles N of Wray (NE Yuma Cy.)								
1550-1730	Many reports of golfball size hail W to E across N. Yuma Cy., and NE Washington Cy., including the towns of Otis, Yuma, Eckley, and Wray. No specific times of occurrence available.								
1600	Tornado 5 miles E of Yuma (NW Yuma Cy.)								
1930	Mothball size hail at Green Mountain (NW Jefferson Cy.)								
Douglas County	13 0902MST	0.1	15	0	0	0	0	Tornado (F0)	
	A cold air funnel touched down briefly near Parker. FPP000								
Kit Carson County	16 1335MST	0	0	3	3	0	0	Hail	
	Golfball size hail broke windows and damaged roofs in Stratton. Wheat fields near town were flattened.								
Baca County	16 1516MST	0	0	0	0	0	0	Hail	
	Golfball size hail fell in Springfield.								
Weld County	16 1518-1520MST	0.6	35	0	0	0	0	Tornado (F1)	
	A thin, needle shaped tornado touched down one mile east of Windsor. FPP101								
Weld County	16 1631MST	0	0	0	0	0	0	High winds	
	70 mph winds were noted 21 miles east of Greeley.								
Adams County	19 1720-1725MST	0	0	0	0	0	0	Hail	
	Golfball size hail fell just north of Bennett.								
Adams County	19 1938MST	0	0	0	0	0	0	Hail	
	Golfball size hail fell 8 miles north of Byers. There was minor crop damage in the northeast part of the county.								
Sedgwick County	19 evening	0	0	3	0	0	0	High winds	
	High winds downed one power pole and several power lines.								
Alamosa County	22 1340-1350	1	35	0	0	0	0	Tornado (F1)	
	A tornado was observed by weather service employees 5 miles west of Alamosa. FPP111								
Jefferson County	22 1627MST	0	0	0	0	0	0	Hail	
	3/4 inch diameter hail was observed at Deckers.								
Arapahoe County	22 1747MST	0	0	0	0	0	0	High winds	
	A thunderstorm produced wind gusts of 55 mph at Littleton.								
Garfield County	22 1900MST	0	0	4	0	0	0	Flash flood	
	A dam broke at Battlement Mesa Reservoir, near Parachute; a wall of water rushed down Battlement Creek, washing out some sections of road. The dam break was probably caused in part by the unusually heavy spring runoff in the area.								
Mesa County	23 1330MST	0	2	0	0	0	0	Lightning	
	Two men were injured, one critically, when they were struck by lightning at a golf course in Grand Junction.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

## COLORADO

Saguache County	23	1730MST			0	0	4	0	High winds Strong winds 3 miles north of Center lifted a sheep shed and slammed it against five grain bins, causing over \$10,000 damage.
Larimer County	25	1139MST			0	0	0	0	Hail 3/4 inch hail fell in Fort Collins; it piled up two inches deep.
Mesa County	25	1500MST			0	0	0	5	Hail Golfball size hail fell east of Palisade, near Grand Junction; over 15 acres of crops were damaged.
Statewide	25-26				0	0	?	?	Heavy rain Heavy rain drenched many sections of Colorado, with the most widespread downpours in the northeast. In the Fort Collins area, up to 2 inches of rain fell in 20 minutes at midday on the 25th. A few hours later, 3.2 inches fell in an hour at Flagler, east of Limon. In the foothills west of Denver, 1 1/2 inches fell in 30 minutes at Intercanyon. Heavy rain hit the Grand Junction area late on the 25th, causing the already swollen Colorado River to rise even higher; early on the morning of the 26th Interstate 70 was closed west of Grand Junction due to high water, and on the following day a dike broke, flooding a small residential area in the city. Heavy rain fell much of the day along the Front Range on the 26th. Two day-storm totals ranged from 1 to 2 1/2 inches at many spots in the area, with up to 3.3 inches in soggy Fort Collins.
Grand County	28	0330MST			0	0	5	0	Flash Flood A flash flood near Granby filled a pumping plant with 30 feet of water, along with trees and other debris. A bridge crane inside the building was damaged.
Teller County	28	1930MST	3	100	0	0	0	0	Tornado (F1) A tornado 3 miles east of Florissant leveled hundreds of trees. It missed some houses by only about 50 feet. FPPI22

## CONNECTICUT

Northwest Hills	14	Afternoon			0	0	?	0	Lightning, Heavy Rain, Hail  The Lakeville and Norfolk area was struck by a sudden heavy thunderstorm with lightning causing scattered power outages and some other minor damage. Some hail accompanied the storm with a temperature drop of 25 degrees in just 15 minutes in Lakeville between 2:15 and 2:30 P.M. EDT.
Central Portion	15	Late Afternoon			0	0	?	0	Lightning, Heavy Rain, Hail and Gusty Winds  A brief but intense thunderstorm caused numerous lightning strikes causing generally light damage. The New Britain area reported some trees down along with the lightning strikes. Heavy rain caused a road cave-in in Farmington.
Central Portion & Lower Housatonic Valley	15	Late Evening			0	0	?	0	Lightning, Heavy Rain, Gusty Winds  Many homes were struck by lightning but mostly minor damage was reported. Towns most affected were: Stratford, Shelton, Milford, and Derby. Street flooding occurred with the heavy rains and several thousand homes were affected by power outages.
Wallingford, Madison and Clinton Area	16	Around Noon			0	0	5	0	Lightning, Heavy Rain, Flooding  A bolt of lightning blew up the steeple of a Wallingford church, a house trailer was set afire by lightning in N. Madison, and heavy flooding occurred in Clinton. Damage to the church was estimated at \$15,000 dollars. A number of homes were struck by the lightning and the thunderstorm was termed the worst in possibly 10 years.
Northern & Western Portion	27	Late Afternoon Early Evening			0	3	?	0	Lightning, High Winds, Heavy Rain Hail  Three construction workers were knocked to the ground by lightning in Suffield, two were unconscious, as almost 50,000 homes and businesses lost power when severe thunderstorms ripped across the area. Danbury and Torrington suffered the heaviest damage from high winds which toppled and uprooted large trees bringing down electric wires and poles. An Enfield man was lucky to escape injury when the roof blew off a barn and a woman just escaped when a tree fell on her car in Windsor Locks.

## 7 DELAWARE ————— NONE REPORTED

## 8 FLORIDA

McAlpin, Suwannee County	03	1830EST	-	-	0	0	0	4	Hailstorm  A severe thunderstorm moved across southern Suwannee County dropping golf ball size hail on several farms in the area. Tobacco, watermelon, corn, and soybean crops took the brunt of the damage, with the tobacco crop on one farm a total loss.
Jasper, Hamilton County	03	1900EST			0	0	5	-	Lightning  Apparently the same storm complex that hit McAlpin earlier was responsible for a stroke of lightning which set fire to a mobile home. The home was completely destroyed.
Malone, Jackson County	07	0920EST	2	40	0	0	5	-	Tornado(F1)  A tornado destroyed one home, badly damaged a car, uprooted trees and blew down power lines in this small town 15 miles north of Marianna.
Starke, Bradford County	07	1415EST	.4	30	0	0	4	-	Tornado(F1)  A tornado destroyed several warehouses at a paint supply store, and a few vehicles were damaged by flying debris. The short-lived tornado moved back up into the clouds.
Citrus, Sumter, Lake and Marion Counties	07	1415EST			0	0	4	-	Thunderstorm Winds  Strong thunderstorm induced winds blew the roof off a barn, destroyed several outbuildings, toppled two 20-foot antennas, damaged several trailers, and sent a tractor flying several feet through the air. Damage was mainly from Inverness in Citrus County across into Marion County south of Ocala.
Orlando, Orange County	07	1600EST			0	0	3	-	Thunderstorm Winds  Strong thunderstorm winds uprooted trees and blew down power lines in the area with no other damage reported.
East Naples, Collier County	08	0745EST	.5	20	0	0	3	-	Tornado(F0)  A weak tornado destroyed several light metal carports at a mobile home park. It dissipated over an open field.
Springhead, Hillsborough County	08	1200EST	1	30	0	2	5	-	Tornado(F1)  A tornado struck a mobile home park 5 miles east of Plant City demolishing one mobile home and damaging several others. The two occupants of the destroyed structure escaped with minor injuries. They were apparently injured by flying appliances.
Polk County	08	1300EST 2200EST			0	0	4	-	Heavy Rains  Heavy thunderstorms spawned along a weak cold front moved through Central Florida dumping as much as 9 inches of rain in some localities in Polk County. Minor street flooding was widespread, and gusty winds uprooted trees and blew over power lines.
Duck Key, Monroe County	08	1545EST			1	0	0	0	Lightning  A woman was struck in the forehead by lightning as she and a companion tried to get off of a highway bridge after fishing. She died at a hospital three days later without regaining consciousness.
Miami, Dade County	08	1545EST			0	1	0	0	Lightning  Lightning struck a worker outside a hanger at Miami International Airport. His injuries were not serious.
Sarasota, Sarasota County	13	1500EST			0	0	5	0	Thunderstorm Winds  A strong afternoon thunderstorm produced brief gusty winds which blew roofs off of four apartments and flying debris damaged three automobiles. Pool and patio furniture was scattered about the courtyard at the apartment complex.
Manatee County	13	1500EST			0	1	1	0	Lightning  A construction worker was struck by lightning as he stood near a bulldozer at a construction site in Parrish. His injuries were not serious.
Key West, Monroe County	13	1650EST			0	0	0	0	Waterspout  A waterspout was observed 5 miles north northwest of Key West over the open water. It dissipated after about 10 minutes without moving over any land area.
Crestview, Okaloosa County	18	1400EST			0	0	5	0	Lightning  Lightning caused fires at two homes in the area. One was severely damaged and the other suffered only minor damage.



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	
<b>FLORIDA</b>									
Dade County	18	1415EST 1535EST	-	-	0	0	3	-	Hailstorm
									A severe thunderstorm moved from northwest Dade County south southwest through the county and out into Florida Bay. Hail up to 1 and one-half inches in diameter was reported along much of the thunderstorm's path. Damage was minor with only downed power lines and trees reported. Several funnel clouds were sighted and a few reports of tornado touchdowns were received, but there was no evidence of tornado damage along the path.
Sugarloaf Key, Monroe County	20	2014EST	3	50	0	0	6	-	Waterspout/ Tornado(F1)
									A large waterspout moved onshore in Sugarloaf Key, 13 miles east northeast of Key West, extensively damaging two large homes which were built on stilts. Damage was to roofs, exterior walls, and interior damage. One home was cut in half. A pickup truck was moved from underneath one of the homes and overturned into a nearby canal. Two old freezers were also blown from under the house. Two circular saw blades flew 500 feet through the air and landed embedded in a palm tree. The tornado moved northeast back into open water and weakened.
Gainesville, Alachua County	21	1100EST	4	40	0	0	4	0	Tornado(F1)
									A tornado touched down in a rural area just west of Gainesville. It uprooted trees, knocked down power lines, and destroyed several outbuildings. It continued northeast and slightly damaged several homes in a residential area in northwest Gainesville. All of Gainesville was without electric power for up to an hour after the main feeder line was felled by the wind or lightning. The tornado dissipated north of the city.
Flagler Beach, Flagler County	22	1400EST	.4	20	0	0	2	0	Tornado(F0)
									A small tornado touched down in this beach community, ripping tree limbs and blowing lawn furniture around. A couple of waterspouts were also sighted just offshore. All of these dissipated over the ocean.
Broward County	23	1600EST	-	-	0	0	2	0	Hail and Windstorm
									An afternoon thunderstorm dumped heavy rains and small hail on sections of the county. Winds also uprooted trees and blew down power lines. Lightning damaged other utility lines.
Hillsborough County	23	1730EST	-	-	0	0	4	-	Hail and Windstorm
									A severe thunderstorm deposited golf ball size hail near the Brandon airport. Strong winds blew a small plane over onto its back and damaged a few hangers at the airport. The storm then moved northeast to a nearby residential area and inflicted minor damage (mostly slates blown off roofs) to several homes.
Avon Park, Highlands County	25	1900EST	.4	30	0	0	5	-	Tornado(F1)
									A tornado touched down in a shopping center lifting part of the roofs off two stores, uprooting trees and downing power lines. Heavy rains poured into the stores through the open roofs, severely damaging the contents including clothing in one store. The twister then plowed through a mobile home park damaging one trailer and a carport before returning to the clouds.
Tice, Lee County	25	1900EST	-	-	0	0	4	0	Lightning
									Lightning started a house fire in this small town just northeast of Fort Myers.
Sarasota, Sarasota County	27	1500EST 1800EST	-	-	0	0	2	-	Heavy Rains and Flooding
									A large afternoon thunderstorm moved through the area dumping heavy rains and temporarily flooding the downtown area as well as residential streets. Only minor flooding damage was reported. The water receded rapidly after the rain stopped.
Spring Hill, Hernando County	27	1720EST	-	-	0	0	4	-	Lightning
									A bolt of lightning struck power lines leading to a house and caused a power surge in the TV set, a fire resulted which gutted the living room.
South Putnam County	29	1800EST	-	-	0	0	5	-	Lightning
									Lightning started a fire which destroyed a mobile home and an automobile.
<b>9 GEORGIA</b>									
Cherokee County	04	1710EST	-	-	0	0	0	0	Funnel Cloud
									A funnel cloud was observed over Lake Allatoona.
Ware County	04	1758EST	-	-	0	0	0	0	Funnel Cloud
									A funnel cloud was sighted just south of Waycross moving east.
Richmond County	05	1330EST	-	-	0	0	3	0	Wind
									Thunderstorm winds downed several trees and power lines. In downtown Augusta plate glass windows were blown out of a furniture store.
Baker County	26	1830EST	-	-	0	1	2	0	Lightning
									A man was injured by a lightning strike while putting records in a stereo in his home. He was thrown across the room and experienced severe numbness in one side, a severe headache, nausea and muscle spasms.
DeKalb County	30	2015EST	-	-	0	0	2	0	Wind
									Thunderstorm winds downed a few trees in Dunwoody.
<b>10 IDAHO</b>									
Horse Thief Reservoir Valley County	01	Afternoon	-	-	1	2	-	-	Lightning
									Lightning struck a large tree leaving a four foot furrow in the trunk. The lightning strike then hit three teenage boys fishing nearby. One teenager was killed and the two others injured.
Shoshone Lincoln County	26	Afternoon	-	-	-	4	0	-	Thunderstorm
									Strong gusty winds associated with a thunderstorm lifted the roof off a large shed. The roof was destroyed as it landed in a nearby pasture. The strong winds also downed some power lines.
<b>11 ILLINOIS</b>									
Southern Third	03	0030- 1900CST	-	-	0	0	4	0	Wind, Hail & Lightning
									Scattered thunderstorms with high winds and large hail moved across portions of the south during the early morning and continuing into the late afternoon. The wind damage, mainly to trees, power lines, and a few out-buildings was localized. One mobile home overturned and crashed into another one in Centralia Marion County, at 0050. Wind gusts to 43 knots blew down tree limbs and power lines. Three quarter inch hail fell, but no damage occurred. At 0210 a roof of a mobile home was ripped off in Odin, also in Marion County. A chicken house and a machine shed were destroyed 1 mile south of Germantown in Clinton County. Lightning struck an oil storage tank north of Carlyle, also in Clinton County, causing a fire. During the late afternoon, thunderstorms again caused minor wind damage. In Vienna, Johnson County, reported 3/4 inch hail at 1803. At 1830 3/4 inch hail was also reported in Golconda, Pope County.
Southwest	05	1630- 1730CST	-	-	0	0	0	?	Hail
									During the late afternoon, thunderstorms with large hail moved through the southwestern portion of the state. At 1644 1.75 inch hail was reported in Grafton, Jersey County. In Godfrey, Madison County, 1.25 inch hail fell at 1710.
Central Sections	14	1500- 1645CST	-	-	0	0	4	?	Wind
									As thunderstorms came into the central sections of Illinois, winds as high as 43 knots caused damage to tree limbs and power lines. At 1630 the winds caused power failures in parts of Peoria, Peoria County.
Northern and Southern Sections	27- 28	1200- 0200CST	-	-	0	0	4	0	Lightning
									During the afternoon and continuing into the night, thunderstorms caused lightning and minor wind damage in the north and again in the south. Two homes in Elgin, Kane County, were struck by lightning causing fires. A tree limb was blown down on a car. At 0100 2 apartment buildings and 1 home were hit by lightning in Benton, Franklin County. Heavy rain deluged the area and caused flooding.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

## ILLINOIS

Entire State	29	1100-1430CST				0	0	5	0	Wind, Hail, and Flooding
<p>High winds with heavy rain and hail caused damage to rather localized areas throughout the state. A barn, a machine shed, and 3 vehicles were damaged by the wind 1.5 miles northwest of Cambridge in Henry County. One half inch hail fell in Monmouth, Warren County at 1140. At 1310 powerful winds knocked down power lines and tree limbs and also damaged several buildings in Orion, Henry County. Trees were also blown down in Maron, Macon County. Power failures and tree damage were common in many areas and some funnel clouds were reported. Heavy rain caused flooding of low-lying areas. The Quad-City area, Rock Island County suffered the most damage due to flooding.</p>										
Heyworth, McLean County	29	1355CST	?	?	0	0	0	0	0	Tornado (FO)
<p>A small tornado touched down in an open field 2 miles south of town causing no damage.</p>										

## 12 INDIANA

Kitchel Union County	17	1600EST			0	0	0	5		Hail
<p>A damaging hail storm hit an area approximately two mile square in the area of Kitchel, and extended east towards the Ohio State Line. All of the damage was to crops.</p>										
Hancock County	19	2030EST			0	0	5	0		Lightning
<p>Three homes set a fire by lightning with several trees also reported on fire or struck by lightning throughout the county.</p>										
2 Mi. N. Leesburg Kosciusko County	27	1550EST			0	0	3	0		Thunderstorm Winds
<p>House trailer in tow turned over by strong winds.</p>										
South Bend St. Joseph County	27	1640EST			0	0	1	0		Thunderstorm Winds
<p>Trees down at 56000 Locust abd 56000 block of Filbert Street in South Bend.</p>										
SW Berne, Adams County	28	1325EST	1	5	0	0	1	2		Tornado (FI)
5 W. Wabash, Wabash County	28	1445EST			0	0	0	2		Tornado (FI), Hail
<p>Tornado touch down briefly in open country just inside the Wabash-Miami County Line. 1 inch diameter hail was reported north of the tornado touchdown point.</p>										
Vincennes, Knox County	29	1946EST			0	0	4	0		Lightning
<p>Three homes and two businesses were damaged by lightning as thunderstorms moved across county.</p>										
Pretty Lake La Grange County	29	PM			1	0	0	0		Lightning
<p>A man was struck and killed by lightning.</p>										

## 13 IOWA

Woodbury County	13	1500 CST			0	0	3	0		Thunderstorm
<p>A 20 by 20 foot shed and several large trees were blown down on a farm near Lawton.</p>										
Palo Alto County	13	1545 CST			0	0	0	0		Thunderstorm & Hail
<p>Golfball size hail was reported at Ruthven.</p>										
O'Brien, Clay and Dickinson Counties	13	1600 CST			0	2	4	0		Thunderstorm
<p>High winds in a thunderstorm damaged trees, utility lines and buildings. Destruction of barns and outbuildings was reported near Paullina, Hartley, Everly and Royal. A tractor-trailer was blown into a ditch by strong winds south of Milford. The power was out for two hours at Milford and Spirit Lake. A small airplane was overturned at the Milford Airport. Some barns near Hartley were damaged and moved off their foundations. Some mobile homes near Paullina were also damaged. Two persons received minor injuries near Milford when their barn collapsed around them. Eight head of cattle were lost at a neighboring farm.</p>										
Dickinson County	13	1630 CST	1	30	0	1	5	0		Tornado (FI)
<p>A tornado touched down at Milford. It blew the roof off a house and levelled a garage. A 12-year old boy was injured by flying glass and debris. A tractor-trailer was also blown off the road into a ditch.</p>										
Dickinson County	13	1650 CST	Short Narrow		0	0	?	?		Tornado (FI)
<p>A tornado was spotted touching down 4 miles Southwest of Estherville. A few farm buildings were damaged.</p>										
Dickinson County	14	1940 CST			0	0	0	0		Funnel Cloud
<p>Civil Defense Spotter reported a funnel 4 miles west of Spirit Lake.</p>										

## IOWA

Cerro Gordo County	14	2145 CST			0	0	0	0		Funnel Cloud
<p>A funnel was reported just north of Mason City.</p>										
Tama County	18	1000 CST			0	0	3	0		Thunderstorm and Lightning
<p>Lightning struck several homes in Traer. Damage to the cement driveway occurred at one home; damage to windows, television and telephones, light fixtures and pictures knocked off the wall were also reported.</p>										
Keokuk County	18	1650 CST	6.1	20	0	0	4	0		Tornado (FI)
<p>A tornado touched down briefly at a farm near Keswick. It destroyed a machine shed and 17 hog shelters, injured 12 small pigs, damaged a pickup truck and caused minor damage to a mobile home.</p>										
Northwest Iowa	20	Morning - Afternoon			1	0	6	6		Flash Flood
<p>Very heavy and persistent thunderstorms brought 2-8 inches of rain the morning of the 20th and caused extensive flash flooding along the Rock, Floyd, Big Sioux and Little Sioux Rivers in Northwest Iowa. Later flooding on these rivers approached record levels. Some homes and businesses had minor flooding in various towns, but most of the damage occurred as the water ran over roads and washed away gravel and undercut the blacktop. At least three bridges were knocked put by the water. Perhaps the greatest loss was to cropland that was flooded so soon after seeding. Reseeding was possible for some areas but not all. One death was flood related. A man in a pickup drove through flood waters. The truck struck a culvert abutment and the driver went through the windshield. His body was later recovered from the flood waters.</p>										
Humboldt County	20	1130 CST			0	0	4	0		Thunderstorm
<p>High winds in a thunderstorm destroyed a metal storage building, damaged a grain bin and brooder house and heavily damaged a pickup truck at a farmstead near Bode.</p>										
Calhoun County	20	1300 CST			0	0	4	0		Thunderstorm
<p>A large barn at the Featherstone Family farm, measuring 34x180 feet, was blown off its foundation and damaged beyond repair.</p>										
Osceola County	21	Evening			0	0	0	4		Thunderstorm and Hail
<p>Hail caused damage to soybean fields near Sibley. The hail was only as large as marbles, but was enough to hurt the early bean crop. Replanting was necessary for many fields.</p>										
Buchanan County	25	2000 CST			0	0	4	?		Thunderstorm and Winds
<p>High winds in a thunderstorm took the roof off the barn at a farm one mile East of Hazleton.</p>										
Fayette County	25	2030 CST			0	0	3	0		Thunderstorm and Winds
<p>Winds in a thunderstorm tore the lean-to off a barn at one farm, and tree damage occurred at another farm, about four miles East of West Union.</p>										
Scott County	26	1745 CST			0	0	4	0		Thunderstorm and Winds
<p>High winds struck in a thunderstorm at a farm near Eldridge. The hog house was destroyed, a machine shed damaged, the barn was knocked off its foundation, and a hay wagon blown across the gravel road and over a four-foot fence. The house lost some shingles on the roof and windows were smashed. At nearby farms, damage to barns, outbuildings, tree limbs and chimneys occurred.</p>										
Polk County	28	Early Morning and Night			0	0	4	0		Flash Flood
<p>Very heavy rains in rather short periods of time, notably in the Northeast part of Des Moines, caused urban and street flooding and caused Four Mile Creek to go out of its banks once again. Basements that had never been flooded, filled with water, causing numerous cases of minor property damage.</p>										
Des Moines County	29	1058-1130 CST	2	40	0	27	6	0		Tornado (FI)
<p>A tornado struck at Midday in Burlington, moving right along Roosevelt Avenue, a major business thoroughfare, at the lunch hour. Although the tornado was not fierce by most standards, the lack of fatalities on such a busy street can only be ascribed to Providence. Most of the injuries were minor, due to broken glass and only one person apparently, required overnight care.</p> <p>Most of the damage done to businesses was serious, but not devastating. This includes broken windows, minor roof damage, blown-down signs and the like. About three buildings lost part of their roofs. Trees and utility wires were downed. One home was badly damaged - the roof was taken off and the walls buckled. Another 18 homes had minor damage. Estimates of damage that occurred ranged from \$1.5 Million to \$4 Million. Sheriff's Deputies followed the funnel along the Highway to Mediapolis, but after lifting up in Burlington, it only descended once near Sperry and again near Mediapolis, and caused damage to road signs.</p>										
Keokuk County	29	1114 CST			0	0	0	0		Funnel Cloud
<p>A spotter reported a funnel cloud near Derby.</p>										
Henry County	29	1115 CST	Short Narrow		0	0	4	0		Tornado (FI)
<p>A tornado at Wayland took a portion of the roof off a house, split trees and broke the sheeting loose. Also some sheds were destroyed and trees damaged outside of town.</p>										

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>— IOWA —</b>									
Des Moines County	29	1125 CST			0	0	0	0	Funnel Cloud
	A funnel cloud was spotted by a Sheriff's Deputy on Iowa Route 99 near Schuler's Corner ten miles North of Burlington.								
Keokuk County	29	1130 CST			0	0	4	0	Thunderstorm and Winds
	Strong winds in a thunderstorm destroyed a large metal shed, damaged a barn roof, and wrecked some smaller outbuildings at a farmstead near Delta.								
Johnson and Linn Counties	29	1250-1340 CST	32	40	0	0	5	0	Tornado (F1)
	A tornado hopped through Johnson and Linn Counties on the 29th, leaving a trail of damage more than 30 miles long. From Sharon Center, a junction Southwest of Iowa City, to the city of Cedar Rapids, the funnel was tracked, with intermittent touchdowns. For most of the path what damage occurred was not great - trees were uprooted, utility lines downed, outbuildings on farms destroyed, but no major devastation took place. When the tornado struck in Cedar Rapids, however, more major property damage occurred. One thousand people lost electrical power as wires went down and cable service was seriously interrupted. There was damage in Northeast Cedar Rapids as trees and fences were ripped out of the ground and smashed into other objects. The worst damage was at a home furnishing business, which lost part of a roof; and at Burroughs Corporation, where air conditioning units built into the roof were ripped out and thus caused structural damage to the building.								
Tama County	29	1345 CST	.1	20	0	0	3	?	Tornado (F1)
	A tornado demolished a barn at a farmstead on the West edge of Elberon.								
Tama County	29	1355 CST	.2	20	0	0	5	?	Tornado (F1)
	A tornado struck a farm three miles Southwest of Dysart. Corn crib and two machine sheds and two horse barns were destroyed. Damage occurred to machinery, several cars and a horse trailer. The windmill and the garage were ruined, three horses injured and the family dog was killed.								
Benton County	29	1520 CST			0	0	0	0	Funnel Cloud
	A funnel cloud was sighted near Van Horne.								
Benton County	29	1610 CST			0	0	0	0	Funnel Cloud
	A funnel cloud was spotted near Urbana.								
Chickasaw County	29	1638 CST	Short Narrow		0	0	4	?	Tornado (F1)
	A tornado knocked down a cattle shed, killed some cattle and downed some trees about two miles Northeast of Bassett.								
Linn County	29	1640 CST			0	0	0	0	Funnel Cloud
	A funnel cloud was reported near Center Point.								
Allamakee County	29	1730 CST			0	0	?	0	Thunderstorm and Winds
	Sixty-five mile per hour winds were reported at Postville. A few trees were downed.								
<b>14 KANSAS</b>									
Syracuse, Hamilton County	01	2045CST			0	0	0	0	Tornado (F0)
	A tornado touched down briefly 8 miles northeast of Syracuse. No damage resulted.								
Barton and Ellsworth Counties	02-03	2330-0030CST			0	0	3	4	Hail
	A thunderstorm moved across northern Barton into southwest Ellsworth County. Hailstones 3/4 inch in diameter fell 2 miles north of Herington at 2340, golfball size dropped at Holyrood at 2353 and also at Ellsworth at 0011CST.								
Herington, Dickinson County	03	0117CST			0	0	2	4	Hail
	Hail the size of golfballs fell at Herington.								
Neosho, Bourbon and Crawford Counties	03	0130-0250CST			0	0	5	4	Hail, Wind
	A severe thunderstorm developed near Chanute and moved east into Bourbon and Crawford Counties. Golfball size hail fell at Chanute at 0145. Fierce winds damaged some homes and farm buildings, and downed some power lines. The storm also spawned a tornado (listed separately).								
Marion County	03	0200CST			0	0	3	2	Wind
	Thunderstorm winds estimated at 70 mph left some damage to homes, power lines and trees at Marion County Lake.								
Shaw, Neosho County	03	0215CST	7	50	0	0	5	2	Tornado (F1)
	A tornado touched down near Shaw and moved on the ground 7 miles east. Ten farms were damaged. Two homes had major damage and several barns were destroyed.								
Ford County	03	1400-1500CST			0	0	0	4	Heavy Rain, Hail
	Brief torrential rains flooded streets and low lying areas around Dodge City. Small hail drifted to depths as great as 14 inches near Bucklin.								
<b>— KANSAS —</b>									
Pottawatomie County	04	1430-1800CST			0	0	3	5	Hail, Heavy Rain
	Thunderstorms dropped 3 to as much as 10 inches of rain in a 15 mile wide swath from west of Westmoreland to Louisville. Several inches of pea size hail accumulated around Louisville and caused a good deal of crop damage.								
Kearny and Finney Counties	04	1800-1900CST			0	0	6	5	Wind, Hail
	A severe thunderstorm developed west of Lakin and moved east through Garden City. Fierce downburst winds caused a great deal of damage at Lakin. Hail 1.5 inches in diameter fell at Garden City.								
Ruleton, Sherman County	04	1845CST			0	0	0	5	Hail
	Hail the size of golfballs fell 13 miles north of Ruleton.								
Wamego, Pottawatomie County	04	1925CST			0	0	2	3	Hail
	Hailstones 1.5 inches in diameter fell at Wamego.								
Ellis, Ellis County	04	2140CST			0	0	0	3	Hail
	Three-quarter inch hail fell near Ellis.								
Finney and Hodgeman Counties	09	1800-2000CST			0	0	0	4	Heavy Rain, Flooding, Funnel
	Thunderstorms dumped 3-5 inches of rain upon eastern Finney and most of Hodgeman Counties. Flash flooding along the headwaters of the Pawnee River washed out crops. A funnel was also sighted 5 miles east of Kalvesta at 1900CST.								
Salina, Saline County	10	1400CST	Short Narrow		0	0	3	0	Tornado (F0)
	A tornado touched down for a short time 6 miles northwest of Salina. It caused minor damage to a few farm outbuildings.								
Concordia, Cloud County	10	1630CST	Short Narrow		0	0	1	0	Tornado (F0)
	A tornado touched ground briefly 1 mile east of the Concordia Airport. The only damage was to a fence.								
Salina, Saline County	10	1815CST			0	0	0	4	Hail
	A thunderstorm moved across northern Saline County and dropped hail an inch in diameter 3 miles northeast of Salina.								
Clifton, Clay County	10	1816CST	Short Narrow		0	0	0	0	Tornado (F0)
	A tornado touched ground briefly in an open field 8 miles south and 4 west of Clifton.								
Thomas and Decatur Counties	12	1600-1800CST			0	0	6	6	Hail, Wind, Flooding
	A line of intense thunderstorms caused scattered damage across Thomas and Decatur Counties. Golfball size hail fell at Oberlin at 1615CST. The storms dropped intense rain with 5 to as much as 10 inches in some spots. The rain sent Beaver and Sappa Creeks and most of their tributaries out of their banks. Fierce winds also damaged farm buildings and downed power lines. The storms also spawned 2 tornadoes (listed separately).								
Oberlin, Decatur County	12	1615CST	Short Narrow		0	0	0	0	Tornado (F0)
	A tornado reached ground briefly 5 miles south of Oberlin. No damage resulted.								
Oberlin, Decatur County	12	1700-1800CST	15	200	0	0	6	4	Tornado (F2)
	A tornado touched down 7 miles east and 2 north of Oberlin and skipped along a path 15 miles to the northeast. Six farmsteads had roofs blown off homes and outbuildings, grain bins were destroyed and machinery damaged.								
Augusta, Butler County	12	1700CST			0	0	0	0	Funnel
	A funnel was sighted between Augusta and Leon.								
Trego County	12	1800CST			1	0	4	3	Wind, Hail
	A man drowned when thunderstorm wind gusts overturned his boat on Cedar Bluff Reservoir. Hail the size of golfballs also fell at the lake.								
Colby, Thomas County	12	1940CST	Short Narrow		0	0	0	0	Tornado (F0)
	A tornado touched down briefly 3 miles east of Colby. No damage resulted.								
Colby, Thomas County	12	1940CST	Short Narrow		0	0	0	0	Tornado (F0)
	A tornado touched down briefly in open country 3.5 miles south of Colby.								
Halford, Thomas County	12	2000CST	Short Narrow		0	0	0	0	Tornado (F0)
	A tornado was on the ground briefly south of Halford. No damage resulted.								
Finney, Gray, Ford, Hodgeman, Pawnee and Edwards Counties	13	1300-1700CST			0	0	3	6	Hail, Wind
	An intense line of thunderstorms developed around Garden City and moved east to Larned and Kinsley. Hailstones from three-quarter inch to baseball size fell at Dodge City and at many spots in the listed counties. Crop damage was widespread, especially from Dodge City northeast toward Larned. Wind gusts of 50 to 60 miles an hour also accompanied the storms.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

KANSAS										
Kingman and Reno Counties	13	1447CST			0	0	0	5	Hail	A line of thunderstorms dropped golfball size hail at both Hutchinson and Cunningham. A good deal of crop damage resulted.
Moundridge, McPherson County	13	1600-1700CST			0	0	0	4	Hail	A thunderstorm moved east across the south half of McPherson County. It dropped hailstones an inch in diameter just north of Moundridge.
Robinson, Brown County	13	1925CST	Short Narrow		0	0	0	2	Tornado (F0)	A tornado touched down briefly in a corn field 5 miles southeast of Robinson. Only minor crop damage resulted.
Leoti, Wichita County	16	2000-2100CST			0	0	4	5	Hail, Funnel	Hail from golfball to baseball size fell at Leoti at 2013CST and over other parts of Wichita County. A funnel was sighted over Leoti at 2045CST.
Atwood, Rawlins County	17	1556CST			0	0	4	5	Hail	Golfball size hail fell at Atwood and left crops damaged in several fields.
Sheridan County	17	Evening			0	0	5	5	Hail, Wind	Active thunderstorms damaged crops and farm property over a good share of Sheridan County. Small hail accumulated to depths of 4 to 6 inches in some spots.
Hamilton, Kearny, Stanton, Grant, Morton, and Stevens Counties	17	1800-2000CST			0	0	3	6	Hail	A large thunderstorm formed near Tribune and moved south through Kendall and Big Bow before dissipating near Hugoton. Hail damage to crops was widespread through the listed counties. Damage was worst in Hamilton County.
Eastern Republic, Washington, Marshall, Northern Riley and Northern Pottawatomie Counties	17-18	2200-0600CST			0	0	6	7	Hail, Flooding	Thunderstorms moved very slowly across the listed counties. Rainfall exceeded 4 inches in a band about 40 miles wide from the northwest corner of Washington County to Onaga in northeast Pottawatomie County. The rain fell upon nearly saturated soil and the runoff sent nearly all creeks out of banks. Several families had to be evacuated at Palmer, Morrowville and Washington. Crests on the larger creeks and rivers in the area are listed below.
			<u>Stream</u>	<u>Location</u>	<u>Flood Stage in Feet</u>	<u>Crest Stage in Feet</u>	<u>Time</u>			
			Mill Creek	Washington	18	29.5	Late the 18th			
			Little Blue River	Hanover	14	22-23	Afternoon of 18th			
			Big Blue River	Blue Rapids	1101	1113.5	Morning of 19th			
			Black Vermillion River	Frankfort	19	29.2	Midday the 18th			
										The thunderstorms also dropped a good deal hail over parts of Washington and Marshall Counties. Large hail fell in a band 3 miles wide and 20 miles long from Cuba to Palmer. At 2208 golfball size fell 4 miles south of Cuba and 10 miles northeast of Concordia. Hail from 1 to 1.5 inches fell 12 miles southwest of Washington, at Palmer and at Linn between 2240 and 2335CST.
Kimeo, Washington County	18	0319CST	Short Narrow		0	0	0	0	Tornado (F0)	A tornado touched down briefly in an open field near Kimeo. No damage resulted.
Southern Wabaunsee, Osage, Eastern Lyon, Coffey and Anderson Counties	18	1400-1700CST			0	0	6	6	Hail, Wind, Funnel	A series of thunderstorms developed over southern Wabaunsee County and moved southeast toward Anderson County. A funnel was sighted north of Osage City at 1425CST. Tennis ball size hail fell at Osage City at 1450, golfball size dropped in Lebo at 1530 and fist size was reported 1 mile south of Osage City at 1615CST. The hail caused considerable crop damage especially in two strips about 3 miles wide. The first extended from northwest of Burlingame to Osage City to east of Lebo, and the second in Anderson County from Scripio to Bush City to east of Kincaid. Golfball size piled up in drifts up to 16 inches deep near Bush City. Eight fat lambs were killed by the hail near Osage City. Winds left a barn a total loss near Harveyville, and two others were destroyed southeast of Garnett.
Bronson, Bourbon County	18	1636CST			0	0	0	0	Funnel	A funnel was seen over Bronson.
Fort Scott, Bourbon County	18	1720CST			0	0	0	0	Funnel	A funnel was sighted 7 miles southwest of Ft. Scott.
Rosalia, Butler County	18	1756CST			0	0	0	0	Funnel	A funnel was sighted 1 mile southwest of Rosalia.
Butler County	18	1756CST	Short Narrow		0	0	4	0	Tornado (F0)	A tornado touched down briefly at Camp Weideman in the southeast corner of Butler County. A few buildings were damaged at the camp.

KANSAS										
Howard, Elk County	18	1900CST			0	0	3	0	Wind	Thunderstorm winds downed a few power lines and caused minor property damage at Howard.
Cowley County	18	1900-2000CST			0	0	4	5	Hail, Wind	Golfball to baseball size hail fell at Winfield, Dexter and Gueda Springs. A good deal of crop damage resulted.
Burrton, Harvey County	18	2038CST			0	0	0	0	Funnel	A funnel was sighted near Burrton in western Harvey County.
Hutchinson, Reno County	18	2100CST			0	0	0	4	Hail	Golfball size hail dropped to the ground and damaged crops in a few fields near Hutchinson.
Arkansas City, Cowley County	18	2155CST			0	0	0	4	Hail	Golfball size hail fell at Arkansas City. Crops were damaged in several fields.
Overbrook, Osage County	18	2319CST			0	0	0	3	Hail	Hail an inch in diameter fell at Overbrook.
Northern Lyon County	18-19	2330-0015CST			0	0	0	3	Hail	Three-quarter inch diameter hailstones fell in northern Lyon County at 2330CST and inch diameter stones fell near Admire at 0008CST.
Milford Lake, Geary County	18	2338CST			0	0	0	3	Hail	Golfball size hail fell at Milford Lake.
Lyndon, Osage County	18	2345CST			0	0	0	3	Hail	Golfball size hail fell at Lyndon.
Sedgwick County	24	0800CST			0	0	0	0	Funnels	Funnel clouds were sighted at Derby and Valley Center.
Augusta, Butler County	24	1805CST			0	0	0	0	Funnel	A funnel was seen near Augusta.
Wichita, Sedgwick County	24	2000-2040CST			0	0	0	0	Funnels	Several funnels were seen in the Wichita area.
Wichita County	25	Night			0	0	4	4	Heavy Rain, Flash Flooding	A cloudburst dumped 5 to 6 inches of rain over the north half of Wichita County. Runoff sent Hackberry Creek out of its banks. A portion of Highway K-25 was washed out and a car was swept off the highway.
Englewood, Clark County	26	1335CST			0	0	0	3	Hail	Hail 3/4 inch in diameter fell at Englewood.
Anthony, Harper County	26	1720CST			0	0	0	0	Funnel	A funnel cloud was seen southwest of Anthony.
Caldwell, Sumner County	26	1835CST			0	0	0	0	Funnel	A funnel was sighted 3 miles west of Caldwell.
Winfield, Cowley County	26	2200CST			0	0	2	3	Wind, Hail, Funnels	A thunderstorm wind gust and marble size hail hit Winfield. Several funnels were also sighted.
Agenda, Republic County	27	1415CST			0	0	0	0	Funnels	Several funnel clouds were seen southwest of Agenda.
Wichita, Sedgwick County	27	1805CST			0	0	2	3	Hail, Funnel	Golfball size hail fell and a funnel cloud was sighted on the east side of Wichita at Harry and Webb Roads.
Lake Wabaunsee, Wabaunsee County	27	1830-2000CST			0	0	0	0	Funnels	Several funnels were reported near Lake Wabaunsee.
Winfield, Cowley County	27	2010CST			0	0	1	0	Wind	A thunderstorm wind gust estimated at 70 mph hit Winfield State Lake.
Coffeyville, Montgomery County	27	2102CST			0	0	0	0	Funnel	A funnel was seen 10 miles east of Coffeyville.
Atlanta, Cowley County	27	2140CST			0	0	0	0	Funnel	A funnel was sighted over Atlanta.
Winfield, Cowley County	28	2045CST			0	0	0	0	Funnel	A funnel cloud was sighted south of Winfield State Lake.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

## — KANSAS

### SPECIAL HAIL SUMMARY

Kansas-Oklahoma Hail Loss Service reports indicate hail was especially damaging to crops on the following dates in the listed counties:

- 1 Finney, Greeley, Kearny
- 2 Greeley
- 3 Barton, Crawford, Dickinson, Ford, Marion, Morris
- 4 Cheyenne, Finney, Gray, Greeley, Hamilton, Kearny, Kiowa, Marshall, Pottawatomie, Rawlins, Sherman
- 9 Clark, Finney, Ford, Gray, Greeley, Lane, Meade, Wichita
- 10 Barber, Clark, Comanche, Hamilton, Harper, Kingman, Saline, Sedgwick, Seward
- 11 Hamilton, Sheridan, Hamilton
- 12 Decatur, Kearny, Osborne, Rawlins
- 13 Edwards, Ellis, Ford, Grant, Gray, Jewell, Kingman, Meade, Osborne, Pawnee, Pratt, Reno, Republic, Stafford, Stanton
- 15 Grant, Hamilton, Morton, Seward, Stanton, Stevens
- 16 Wichita, Hamilton
- 17 Decatur, Grant, Greeley, Hamilton, Kearny, Logan, Morton, Rawlins, Republic, Sheridan, Stanton, Wallace, Washington, Wichita
- 18 Allen, Anderson, Coffey, Cowley, Franklin, Greenwood, Lyon, McPherson, Osage, Reno, Republic, Washington
- 26 Clark, Haskell, Grant, Meade
- 27 Butler, Cowley, Edwards
- 28 Barber, Marion

## 15 KENTUCKY

Spencer County	03 0800EST	0	0	2	0	Lightning
Lightning struck a steeple at the All Saints Church in Taylorsville. Debris was scattered over the churchyard.						
Fulton County	03 Ery mrgng	0	0	4	0	Lightning
Lightning started a fire that destroyed a home in Cayce.						
Webster and Crittenden Counties	03 1030EST	0	0	2	0	High Winds
Madisonville Kentucky State Police Post reported trees down due to high winds in Webster and Crittenden Counties.						
Simpson and Warren Counties	03 1240EST	0	0	3	0	High Winds
Franklin Police reported trees downed by high winds in Franklin (Simpson County). A roof was blown off a plumbing and heating business five miles south of Franklin. Bowling Green Kentucky State Police Post reported property damage north of Bowling Green (Warren County) due to high winds.						
Allen and Edmondson Counties	03 1245-1300 EST	0	0	2	0	High Winds
Trees were uprooted throughout both counties by high winds.						
Simpson County	03 1400EST	0	0	3	0	High Winds
Considerable wind damage was reported south of Franklin. A roof was blown off a building and a communications tower toppled in the city.						
Breathitt County	03 1500-1600 EST	0	0	5	0	Thunderstorm Winds
Thunderstorm winds of 70 to 80 miles an hour toppled the twin 340 foot towers of WNTC radio station at VanCleve. Damage to the tower was estimated at \$50,000. Storm damage also was reported at Whitesburg where power and phone lines were downed and some stores were damaged.						

## — KENTUCKY

Pulaski County	03 1615EST	0	0	0	0	Hail
Nickle size hail was reported near Somerset.						
Pulaski County	03 1615EST	0	0	4	0	High Winds
Straight line winds in the Burnside vicinity overturned a trailer and one 16x12 foot outbuilding; as well as, blew over many trees. Some aluminum siding was bent under the back eave of a block garage and bricks were blown off a chimney.						
Letcher County	03 1630EST SHRT NARROW	0	0	4	0	Tornado (F 1)
One million dollars of property damage resulted when a mini tornado went through Witco. Mobile homes were overturned. Rooftops were ripped off. Windows were blown out. Strands of large trees were snapped like toothpicks. Forty-one persons applied for federal relief aid from the storm damage.						
Letcher County	03 1638EST	0	1	2	0	High Winds
An Ermine man had a finger severed by a door which slammed on his hand during extremely strong winds.						
Letcher County	03 1720-1755 EST	0	0	4	0	High Winds
Very strong straight line winds toppled trees and downed power lines in Skyline. Damage was very substantial in Whitesburg. A furniture store roof was blown off. Many trees in the residential areas were downed. Some of the trees landed on car roofs furthering the damage. Power and phone service was interrupted. Plate glass windows were blown out of many storefront businesses in downtown Whitesburg.						
Allen/Warren County Line	03 1940EST	0	0	0	0	Funnel Cloud
A funnel cloud was reported by the Bowling Green Kentucky State Police Post on the Allen/Warren county line near Alvaton.						
Russell County	03 2040EST	0	1	4	0	Hail, High Winds
Hail, quarter-size in diameter, fell at Russell Springs. A roof was blown off of a Mini Mart on US 127 in Russell Springs injuring a man by flying glass. Trees were uprooted and numerous power lines were downed throughout Russell County. Tree limbs hindered safe passage on numerous roads throughout the county.						
A barn was destroyed on the Jamestown Boat Dock Road. Several power outages were reported in Jamestown. High winds also destroyed a builder's supply building in Jamestown.						
Graves County	03 2150EST	0	0	0	0	Funnel Cloud
A funnel cloud was sighted south of Mayfield. Power lines were also reported downed in the same area.						
Trigg County	03 2200EST	0	0	2	0	High Winds
Trees were reported uprooted in many areas throughout Trigg County.						
Calloway and Graves Counties	03 2250EST	0	0	3	0	High Winds
A radio station in Murray reported numerous trees and power lines down as well as broken windows. Some large fair-ride scenery toppled over by the intense thunderstorm winds in Calloway County west of Murray. Several people at the fair received scratches from flying debris.						
Christian County	03 2300EST	0	0	3	0	High Winds
A roof was twisted off a building in Christian County.						
McCracken County	03 2315EST	0	0	1	0	Hail
Hail, 1/2 inch in diameter, fell at Paducah.						
Logan County	03 2335EST	0	0	3	0	High Winds and Lightning
Russellville Police reported trees uprooted in Russellville. Also, lightning struck a utility pole and started a fire.						



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

**KENTUCKY**

Hickman County	03	AFTN			0	0	4	0	Lightning
<p>Clinton's residents lost their electricity for an hour when lightning struck a tri-state gas 125 foot 2-way radio tower and brought it down on top of a power line. The lightning destroyed the radio equipment, part of the building's electrical system, and set fire to an interior wall.</p>									
Calloway and Marshall County	03	Late aftn			0	0	3	0	High Winds
<p>Gas tanks were overturned near the Calloway and Marshall county line by winds.</p>									
Pulaski County	03	Late aftn			0	0	3	0	Lightning
<p>Six heifers were struck and killed by lightning on a farm located near Kentucky State Route 39 in Woodstock. The value of the cattle was \$5,000.</p>									
Pulaski County	03	Late aftn			0	0	3	0	High Winds
<p>A 12 x 60 foot unoccupied trailer was destroyed by microburst thunderstorm winds in Somerset.</p>									
Christian County	03	Late aftn			0	0	4	0	High Winds
<p>Violent thunderstorm winds damaged four Black Hawk helicopters at Fort Campbell. All the helicopters were blown over on their sides. Billboards were blown down, storage buildings were blown over, and several trees were downed in the Fort Campbell area.</p>									
Allen County	03	Late aftn			0	0	4	0	Lightning
<p>Twelve cows and a bull were killed by lightning in Allen County.</p>									
Mercer County	16	1600EST			0	5	0	0	Lightning Injuries
<p>A family of 5 was visiting Fort Harrod State Park in Mercer County Kentucky near the town of Harrodsburg when lightning struck a tree. The current of the bolt traveled through the roots of the tree injuring all 5 people.</p>									
Campbell County	17	Aftn			0	0	2	0	Heavy rain and strong thunderstorm winds
<p>Fort Thomas police reported several downed electrical wires because of high winds, as well as, flooded basements, backed up sewers, and stalled cars. Newport reported some flooding problems with 3 to 4 feet of standing water along some major downtown roads.</p>									
Meade County	26	1650EST			0	0	2	0	Thunderstorm Winds
<p>Strong thunderstorm winds downed telephone and utility lines throughout the county.</p>									

16 **LOUISIANA** ————— NO REPORT RECEIVED

17 **MAINE** ————— NO REPORT RECEIVED

**18 MARYLAND and D.C.**

Central Maryland & District of Columbia	6	1630-1930EST			0	0	3	0	Rain, Wind, Lightning
<p>Winds gusting up to 50 mph felled many trees and power lines, with close to 10,000 homes affected by power loss. In the Baltimore area some low-lying streets were flooded and some roads were closed in Anne Arundel County due to minor flooding and electrical wires. Minor damage occurred also in Montgomery County due to lightning striking several residences.</p>									

**MARYLAND and D.C.**

Northern and District of Columbia	18-21				0	0	5	0	Rain
<p>Recurring thunderstorms brought flooding to streets and low-lying sections, as up to 3 to 6 inches of rain fell during the period. Several roads were closed due to high water, especially in Frederick and Washington Counties. Between \$75,000 and \$100,000 damage was done to tennis courts, picnic tables and other property in Sligo Park, lower Montgomery County the night of the 19th-20th.. while 18,000 homes were without electricity in Baltimore. During the night of the 20th-21st, a home in Forestville fell victim to an earthslide that broke through the foundation, filling the basement with mud.</p>									
Fallston	28	2030EST			0	0	5	0	Lightning
<p>A large barn burned to the ground after being struck by lightning. Its contents included over 100 tons of baled hay and several pieces of farm equipment.</p>									
Lower Montgomery Co. & District of Columbia	28	2000 to 2100EST			0	0	5	0	Lightning
<p>Recreation center in Kensington burned, with loss estimated at around \$80,000. Two homes in Silver Spring had a total of \$3,000 damage as a result of lightning strikes.</p>									
District of Columbia	28	nr 2100EST			1	0	3	0	Rain
<p>An automobile was swept into Broad Branch Creek, a subsidiary of Rock Creek. The driver apparently left the vehicle and was drowned in the rushing currents.</p>									

**19 MASSACHUSETTS**

Petersham	07	Afternoon			0	0	4	0	Lightning
<p>Twenty Holstein cows were killed by a single bolt of lightning as they huddled together during a thunderstorm. The loss was estimated at \$20,000 dollars.</p>									
Middlesex & Bristol Counties	15	1700-1900EST			0	0	?	0	Lightning, Heavy Rain
<p>From Fitchburg to Northboro to Attleboro and Taunton lightning strikes caused scattered power outages and struck a number of homes with generally minor damage. A Millis teenager nearly drowned when his foot became wedged in a storm drain in that town leaving him sitting in water up to his armpits. He was rescued by the fire department. A small plane making an emergency landing at the Marlboro airport during the storm skidded off the runway heavily damaging the craft.</p>									
Pittsfield, N. Adams, Dalton	16	1630-1900EST			0	0	?	0	Lightning, Heavy Rain, Wind and Street Flooding
<p>A severe thunderstorm lashed this area knocking out electric power, setting a house afire, and creating lakes in the streets. Minor damage resulted to the house and a fire engine was struck and damaged by a "flying manhole cover" popped in the air by water pressure in the storm drains. In Dalton a tent was blown down by high winds at the local carnival.</p>									
Eastern portion and Coastal Waters	25	0600-1000EST			0	0	?	0	Thundersqualls
<p>A couple of rather intense thundersqualls moved southeastward over eastern Massachusetts and out across the coastal waters causing havoc with small boat operators. The weather was peaceful when they started out in the early morning but the squalls with winds up to 30 to 45 MPH and 2 to 6 foot seas struck with little warning. A number of boats capsized but the Coast Guard and others were able to rescue and save lives. Brief hail accompanied the storms.</p>									
Eastern & Southeast Portion	27	1500-1800EST			1	0	4	0	Lightning, Damaging Winds
<p>A New Bedford man was struck and killed by lightning at 1737EST in that city as he coached a soccer team in an open field. A fire was started by lightning in a New Bedford home. Trees were downed in Fall River, and, in Hingham the steeple of the 300 year old. Old Ship Church was damaged by lightning resulting in \$19,000 dollars damage. A few trees were felled by high winds in Hingham.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>20 MICHIGAN</b>									
10 miles W of Saginaw Saginaw County.	09	0330EST			0	0	4	0	Lightning
Roof and chimney exploded from house. Minor damage to other buildings in vicinity. Two radio stations off the air briefly.									
Porcupine Mountain State Park, Ontonagon	21	0015EST			0	0	4	0	Flash Flood
Pinkerton Creek and Little Carp River rose suddenly to as much as 30 feet above normal levels. 15 campers rescued by rangers after abandoning their equipment. 1/4 mile of blacktop road destroyed. Many other minor road washouts in vicinity. Public dock at mouth of Big Iron River collapsed, sailboat broke moorings and disappeared into Lake Superior. 4.0" to 4.5" of rain measured at nearby stations.									
Houghton County Airport	26	0218EST			0	0	0	0	Thunderstorm
Gust to 80 mph.									
Upper Peninsula, South of Iron Mountain Rock, and Nautawbinway:	26	1430-1600EST			0	0	4	0	Thunderstorms
SE Dickinson County		1430-1500EST							Trees and wires down.
Menominee County		1445-1515EST							Mobile home blown over at Stephenson. Local street flooding in Menominee.
Delta County		1500-1530EST							Trees and wires down.
Southern Schoolcraft County		1515-1600EST							Trees and wires down.
SW Mackinac County		1545-1600EST							Trees and wires down.
Cheboygan County, Northern Presque Isle County.	26	1815-1900EST			0	0	3	0	Thunderstorm
Trees and powerlines down. Narrow path of heavier damage from south side of Burt Lake to village of Afton. Another narrow path of damage 1/4 mile wide SW to NE across Black Lake affecting both shores.									
Northern portions of Montmorency and Alpena Counties.	26	1845-1900EST			0	0	0	0	Thunderstorm
Trees and power lines down.									
Barry and Eaton Counties.	26	2130-2220EST			0	0	4	0	Thunderstorm
Trees and power lines down. 750 homes lost power due to wind or lightning in Barry County. Small fires started in church and house in Charlotte.									
Genesee, Lapeer, and Tuscola Counties.	26-27	2140-0100EST			0	1	3	0	Thunderstorms
Fireman in Flint injured by lightning while fighting fire from earlier lightning. Many buildings damaged by falling trees and lightning fires. 13,000 homes lost power. Gust to 63mph at Flint Airport. Tornado listed below was part of this storm.									
1 mile S of Grand Blanc, Genesee County to 5 miles SE Lapeer, Lapeer County.	27	0005-0040EST	20	60	0	0	5	0	Tornado (F1)
Portion of roof and wall exploded from large commercial building near beginning of track. Window exploded from house, and other damage to farm buildings near Hadley. Most of track through open fields with little damage, but trees down across most intersecting roads.									
Southeast Michigan:	27	1400-1930EST			0	0	5	0	Thunderstorms
Branch County		1400-1530EST							Power outages. Local flooding.
Jackson County		1430-1700EST							1000 homes lost power. Trees down Rain washed out sides of excavation in Springport, causing tavern wall to collapse.
Hilledale County		1445-1730EST							Minor power outages, north portion.
Ingham County		1500-1800EST							Trees down. Local flooding. See Tornado below.
<b>MICHIGAN</b>									
Clinton County		1530-1800EST							Lightning caused small barn fire near DeWitt.
Livingston County		1530-1830EST							Power outages.
Washtenaw County		1515-1830EST							Minor power outages.
Oakland County		1515-1900EST							Heavy wind damage southern portion. Extensive power outages. Lightning damaged church steeple in Farmington. Narrow swath of wind destruction through orchard in Novi.
Wayne County		1530-1930EST							See Detroit flash flood below. Driver killed after losing control of truck during heavy rain in Romulus. Widespread wind damage and power outages. Narrow swath of heavy wind damage across Northville does not meet tornado criteria.
Macomb County		1600-1900EST							Power outages and local flooding south portion.
Monroe County		1600-1930EST							Minor power outages northern portion. Driver killed after losing control of truck during heavy rain near Milan.
5 miles WNW of Leslie Ingham County.	27	1513EST	0.1	50	0	0	4	0	Tornado (F1)
Two mobile homes rolled in different directions and destroyed. Two camper trailers tipped over. Witnesses saw debris swirling counter-clockwise in air.									
Detroit, Wayne County	27	1630-1930EST			0	0	5	0	Flash Flood
.54" of rain in 20 minutes raised pumps of storm sewer system to fail. Subsequent rain ran off into sunken freeways producing standing pools up to 6 feet deep. Entire freeway system closed for several hours. 200,000 cars diverted from normal commuting routes, thousands stranded, 100 abandoned in deep water, about 40 accidents.									
Allegan, Cass, Kalamazoo, and St. Joseph Counties:	27	1630-1830EST			0	0	4	0	Thunderstorm
Allegan County		1630-1730EST							400 homes lost power.
Cass County		1630-1730EST							Trees down. 2700 homes lost power.
Kalamazoo County		1700-1800EST							2200 homes lost power. Roads flooded near Schoolcraft.
St. Joseph County		1700-1800EST							Trees down. Minor power failures.
3 miles NNE of Coldwater, Branch County	30	1212EST	1	40	0	0	4	0	Tornado (F2)
Funnel seen by Deputy Sheriff. Barn destroyed, house and pickup truck damaged.									
Calhoun County	30	1340EST			0	0	3	0	Thunderstorm
Small trees and limbs down 3 miles S of Marshall. Wires and limbs down in Marengo.									
<b>21 MINNESOTA</b>									
Hill City Aitkin County	12	2014 CST	3	400	0	0	3	0	Tornado (F0)
A tornado touched down on the Quandna Mountain Golf Course and moved northeast across Hill Lake. Trees were uprooted and a trailer was overturned.									
Central and South Central Minnesota	13	1700-2200 CST			0	0	6	0	Heavy Thunderstorms
Numerous heavy thunderstorms moved rapidly northeastward across central and south central Minnesota and caused scattered local wind damage to buildings, trees and utility lines mainly in the counties of McLeod, Neeker, Sibley, Nicollet and Le Sueur.									
Fairmont Martin County	13	1927 CST	1/4	50	0	0	4	0	Tornado (F0)
State Police reported a tornado 2 miles northwest of Fairmont which damaged a barn.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>MINNESOTA</b>									
Winthrop Sibley County	13	1930 CST	1	50	0	0	4	0	Tornado (F0)
									Local law enforcement officials spotted a tornado several miles southeast of Winthrop which damaged several farm buildings.
Searles Brown County	13	1945 CST	?	?	0	0	4	0	Tornado (F0)
									A tornado and high winds damaged a trailer home one mile south of Searles and damaged a home and farm outbuildings one mile northeast of Searles.
Baxter Crow Wing County	13	1949 CST			0	0	0	0	Funnel
Brownton McLeod County	13	2000 CST	1	100	0	0	4	0	Tornado (F1)
									A tornado tore a narrow strip through a farm just east of Lake Marion near Brownton. Many trees were downed and several farm buildings were heavily damaged. The tornado then headed north.
Greenfield Hennepin County	13	2000 CST	3	50	0	0	4	0	Tornado (F0)
									A tornado downed many trees and did some damage to a few farm buildings in the vicinity of Greenfield. The storm began in Greenfield and moved northeast toward the town of Hanover.
Elmore Martin County	13	2000 CST			0	0	0	0	Funnel
									A funnel cloud was reported near Elmore.
Easton Martin County	13	2000 CST			0	0	0	0	Funnel
									A funnel cloud was reported by spotters near Easton.
Cambria Blue Earth County	13	2000 CST	?	?	0	0	4	0	Tornado (F0)
									A tornado damaged numerous farm buildings near Cambria.
Elk River Sherburne County	13	2000 CST	3/4	300	0	0	4	0	Tornado (F0)
									A tornado touched down northwest of Elk River at the county fairgrounds and moved northwest. Several buildings were damaged and trees were knocked down.
Arlington Sibley County	13	2002 CST	1/8	50	0	0	4	0	Tornado (F0)
									Several funnel clouds were sighted with one touching ground briefly near Arlington damaging several buildings.
Hutchinson McLeod County	13	2005 CST	1	200	0	0	6	0	Tornado (F2)
									A tornado hit the southeast section of Hutchinson in a 20 square block area, damaging 50 houses, 5 buildings at the county fairgrounds and 17 buses stored in a fairgrounds building. The McLeod County Fairgrounds was the hardest hit. The largest building destroyed was made of concrete block with a wooden roof. Three trailers were rolled at the 3M plant next to the fairgrounds.
Watertown Township Carver County	13	2015 CST	1/4	50	0	0	0	0	Tornado (F0)
									The Watertown Fire Department spotted a funnel cloud briefly touching ground near the Crow Greens Golf Course causing no damage.
Waldorf Waseca County	13	2031 CST	1/4	50	0	0	4	0	Tornado (F0)
									A tornado briefly touched down 3 miles north of Waldorf destroying several farm buildings.
Baxter Crow Wing County	13	2049 CST			0	0	0	0	Funnel
									Funnel cloud reported over Baxter by police and civil defense coordinator.
Faribault Rice County	13	2100 CST			0	0	0	0	Funnel
									Spotters reported a funnel cloud southwest of Faribault.
Elmore Faribault County	13	2100 CST			0	0	0	0	Funnel
									A funnel was sighted by the public near Elmore.
Blue Earth Faribault County	12	2100 CST			0	0	0	0	Funnel
									A funnel was sighted 12 miles southeast of Blue Earth.
<b>MINNESOTA</b>									
Kenyon Goodhue County	13	2145 CST			0	0	0	0	Funnel
Harder Goodhue County	13	2238 CST			0	0	0	0	Funnel
Trimont Martin County	14	2126 CST			0	0	0	0	Funnel
									A funnel cloud was reported by the public northwest of Trimont.
Newfolden Marshall County	20	1140 CST			0	0	0	0	Hail
									Walnut size hail was reported at Newfolden.
Buffalo Lake Renville County	20	Approx. 1900 CST			0	0	4	0	High Wind
									High winds pushed a large granary building off it's foundation and damaged every farm building on a farm 4 1/2 miles northeast of Buffalo Lake.
Central Minnesota	21	0300- 1500 CST			0	0	5	6	Flash Flooding, Hail
									Flash flooding occurred over five counties in central Minnesota - Kandiyohi, Meeker, Stearns, Wright and Sherburne. Much of the rain fell in two periods, 0300-0700 CST and 1200-1500 CST. An unofficial report of 17 inches was reported by a farmer in Forest City, Meeker County. Many basements were flooded and numerous highways were closed. The heavy rains flooded farm fields causing millions of dollars damage. The storm moved over Rice County and pounded a 12 square mile area with hail the size of golf balls.
Crookston Polk County	22	0010 CST	3	300	0	0	5	0	Tornado (F0)
									A tornado touched down 3 miles east of Crookston damaging four farmsteads and a mobile home sales lot.
Polk County and Norman County	22	0405 CST			0	0	5	0	Wind
									An area of severe thunderstorms tore through northwest Minnesota. Radio station KROX in Crookston reported wind gusting to 80 mph. Wind damage to buildings and trees was reported in Skelly and Halstad in Norman Co. and Fossten in Eastern Polk Co.
Benton, Stearns and Sherburne Counties	26	0000- 1100 CST			0	0	5	4	Flash Flood
									Flash flooding occurred in three counties in central Minnesota when 3-6 inches of rain fell. The heaviest rainfall was in central Benton County where more than 6 inches was reported. At least 12 roads were washed out and many others were temporarily closed during the storm. Numerous basements were flooded in Sauk Rapids. Many of the crops sustained extensive damage.
St. Louis County	30	1415 CST	1/4	10	0	0	0	0	Tornado (F0)
									Tornado touchdown occurred 2 miles south of Pequaywan Lake in southern St. Louis County. Trees were snapped off at the base.
Southern Minnesota	30	1523- 2400 CST			0	1	6	7	Wind, Hail, Flooding
									Thunderstorms developed in southern Renville County near Fairfax and moved southeast causing widespread damage through portions of Sibley, Nicollet, LeSueur, Waseca, Rice, Steele and Dodge Counties. Storm damage was centered along a line from Fairfax to northern Lake Prairie township in Nicollet County then between Owatonna and Faribault to Waseca in north central Dodge County. Hail varied from marble size to 2 1/2 inches in diameter and some locations reported the duration of hail up to 1/2 hour. Winds gusted to 100 mph at the Mankato Airport at 1745 CST. The combination of hail, strong winds and heavy rain resulted in severe crop loss over the storm-swept area. Many barns were downed and in some cases livestock lost. Farm machinery and out buildings took a heavy loss. A radio transmitting tower near Faribault was knocked over. In northern Steele County 40 large wooden utility poles were sheared off at or above ground level. Numerous trees were uprooted and power outages reported. Heavy rains with the thunderstorms caused cropland erosion and fertility loss. Four to six inches of rain fell from Waseca County through Steele County into Dodge County causing road closures and local flooding. A maximum of 9 inches fell in Steele County between 1900-2230 CST. One man was injured in his car west of Hayfield where a washed out culvert resulted in a 30 ft. gap across County Road 9. East of Hayfield a woman had to be rescued after her car washed off Cty Road 13.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1963

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	
<b>MINNESOTA</b>											
Redwood County	30	1646 CST			0	0	0	0	0	0	Funnels
											Three separate funnels were sited to the southwest of Redwood Falls.
Hutchinson McLeod County	30	1704 CST			0	0	0	0	0	0	Funnel
Nicollet County	30	1715 CST			0	0	0	0	0	0	Funnels
											Two funnels observed 9 miles south of Gaylord.
Nicollet County	30	1725 CST			0	0	0	0	0	0	Funnel
											Funnel observed 8 miles west of LaSueur for a period of three minutes.
Carver County	30	1725- 1753 CST			0	0	0	0	0	0	Funnels
											Seven funnels were observed over an 8 square mile area of northern Carver County. Funnels were observed at Hydes Lake, near St. Bonifacius and north and east of Mayer. During the time these funnels were observed tornadoes in this area caused \$2 million of damage and damaged 21 farm and homesites.
Carver County	30	1726 CST	2	40-80	0	0	6	4			Tornado (F1)
											A tornado formed at the northern edge of Mayer and traveled northeast crossing Highway 7 just east of its intersection with Highway 25. The tornado then angled to the north and dissipated before crossing County Road 10. The tornado caused structural damage to houses and barns, destroyed a mobile home and demolished many farm outbuildings. Numerous trees were knocked down and power was disrupted. A car with three passengers was lifted from a road and set down a short distance away in a driveway.
Carver County	30	1736 CST	1/2	40-80	0	0	6	4			Tornado (F1)
											A tornado formed midway between Mayer and Watertown and traveled northeast near Highway 25. The tornado caused structural damage to several houses and barns. Many farm buildings were destroyed.
Nicollet County	30	1745 CST			0	0	0	0	0	0	Funnel
											Funnel observed in northern Lake Prairie township north of St. Peter.
Winsted McLeod County	30	1749 CST			0	0	0	0	0	0	Funnel
Bloomington Hennepin County	30	1750 CST			0	0	0	0	0	0	Funnel
											Funnel near the intersection of Highways 494 and 100.
Anoka Anoka County	30	1809 CST			0	0	0	0	0	0	Funnel
Southern Rice County	30	1915 CST			0	0	0	0	0	0	Funnel
											Funnel observed 3 miles north of Medford.
Wasoija Dodge County	30	1945 CST			0	0	4	0			Lightning
											House in Wasoija hit and burned by lightning.
<b>22 MISSISSIPPI</b>											
Cleveland, Bolivar County	03	2330CST			0	0	4	0	0	0	Wind
											Strong thunderstorm winds destroyed numerous large trees and overturned two mobile homes near Cleveland.
Crystal Springs, Copiah County	04	1620CST			0	0	4	0	0	0	Wind
											Winds from a severe thunderstorm blew down numerous large trees and disrupted power over much of Crystal Springs. Two homes were heavily damaged by falling trees.
New Hebron, Lawrence County	04	1615CST			0	0	4	0	0	0	Wind/Funnel
											City officials spotted a funnel cloud moving to the southeast over New Hebron. As the thunderstorm passed, high winds blew down numerous trees causing widespread power outages.
Harrison County	15	0930CST			0	0	0	0	0	0	Waterspout
											Funnel clouds were sighted north of Pass Christian moving to the south. As the thunderstorms moved off shore, three waterspouts were sighted about a mile south of Pass Christian.
<b>23 MISSOURI</b>											
Barton	3	0320CST			0	0	0	0	0	0	Large Hail
											Hail to 1 1/2 inch diameter at Liberal.
Greene	3	0520CST			0	0	4	0	0	0	Damaging Wind
											Wind damaged trees, blew down power lines and blew trailers around. Mostly Walnut Grove.
Greene	3	0520CST			0	0	0	0	0	0	Large Hail
											Hail to 3/4 inch diameter 9 miles north of Springfield.
Barry	3	0525CST			0	0	3	0	0	0	Damaging Wind
											Wind blew down large tree limbs in south part of Monett.
Greene	3	0537CST			0	0	0	0	0	0	Large Hail
											Hail to 3/4 inch diameter at Battlefield.
Greene	3	0540CST			0	0	4	3	0	0	Large Hail and High Wind
											Hail to golf ball size and winds to 50 to 60 mph produced damage to trees and power lines at Fair Grove.
Dunklin	3	1930CST			0	0	4	0	0	0	Damaging Wind
											Wind uprooted trees and produced 5000 dollar damage to roof of hardware store in Campbell.
Saline	18	1850CST			0	0	0	0	0	0	Large Hail
											Dime to quarter size hail covering ground 8 miles southwest of Marshall.
Cooper	18	1930CST			0	0	3	0	0	0	Damaging Wind
											Wind blew trees over road 3 miles north of Pilot Grove.
Chariton	18	2130CST			0	0	0	0	0	0	Large Hail
											Nickel size hail reported at Keytesville.
Howard	18	2200CST			0	0	4	2	0	0	Damaging Wind
											Trees downed and patio badly damaged in Franklin.
Moniteau	18	2115CST			0	0	?	?	0	0	Large Hail
											Hail to size of hen eggs 3 miles north of California.
Montgomery	19	0630CST			1	0	5	4	0	0	Flash Flood
											A woman drowned when her car stalled over the Dry Fork Creek bridge of Highway K. A wall of water carried her automobile off the bridge. A cloud burst dropped 8 inches of rain in less than two hours in the New Haven-Hermann area according to the New Haven Leader. Considerable damage occurred in the area as the swift currents carried trees, logs and debris across roadways.
Livingston	26	1530CST			0	0	4	0	0	0	Damaging Wind
											Wind uprooted trees and damaged a truck in Chillicothe.
Jefferson	27	1705CST			0	0	5	0	0	0	Damaging Wind
											Wind damaged several roofs and blew one off between Cedar Hill and House Springs.
Madison	27	2200CST			0	0	5	0	0	0	Damaging Wind
											Wind demolished one house and damaged several others in Fredericktown.
<b>24 MONTANA</b>											
Gallatin/Madison Counties	11	Most of the Day			0	0	2	2	0	0	Flood
											Heavy rains and snow melt caused many minor creeks to flood as well as the Gallatin River. The town of Alder had water up to a foot deep through most of the town.
Carter County	21	1300MST			0	0	3	5	0	0	Hail
											Large hail broke windows and did extensive crop damage.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

**25 NEBRASKA**

Morrill County	02 1530CST				0	0	4	4	Damaging Winds
Very strong thunderstorm winds reported just to the west of Broadwater. People reported a wall of dust varying to a dust devil. Winds damaged a couple of farm buildings and killed 24 chickens. Accompanying hail caused some crop damage.									
Cheyenne County	07 1243CST	Short	10		0	0	0	0	Tornado (F0)
Tornado touched down briefly 5 miles southwest of Sidney. FPP000									
Lancaster and Seward Counties	09 1820CST				0	0	5	5	Hail
One and a half inch hail at Pleasant Dale occurred. Wheat downed and damage to homes and buildings.									
Sarpy County	09 1830CST				0	0	?	?	Hail
One inch hail was reported in Bellevue. No reported damage.									
Platte County	12 0900CST				0	0	4	0	Lightning
Lightning struck cable TV tower and jumped to satellite dishes, knocking out amplifiers near Columbus. Telephone service interrupted.									
Colfax County <sup>a</sup>	13 1300CST	.2	20		0	0	4	0	Tornado (F1)
Tornado touched down 2 miles west and 3/4 miles south of Clarkson damaging numerous sheds, a garage, hen house and farm equipment. FPP101									
Cheyenne and Garden Counties	12 1500CST				0	0	4	6	Hail and Heavy Rain
Three inch hail and 3 inches of rain from Sidney to Lodgepole occurred. Greatest damage was northeast of Sidney where numerous windows were broken along with crop damage.									
Hooker County	12 1630CST				0	0	4	3	Damaging Winds
Thunderstorm struck Mullen with winds estimated to 70 m.p.h. which blew down power lines, some trees and crops.									
Arthur County	12 1710CST				0	0	4	4	Damaging Winds
Thunderstorm struck Arthur with winds estimated to 70 m.p.h. causing trees and power lines to go down. Power was out 12 hours. Most severe damage occurred on ranches in northeast part of county where grain bins were blown over, irrigation systems destroyed and wheat crop damaged.									
Keith County	12 1715CST				0	0	4	4	Damaging Winds
Surface winds with thunderstorm raked Lake McConaughy causing damages to boats and docks along the south shore. One narrow escape by 2 persons when a boat swamped by high waves. Winds estimated to 80 m.p.h. Small hail with winds damaged wheat crops.									
Lincoln County	12 1730CST				0	0	3	0	Damaging Winds
Thunderstorm winds measured 60 to 70 m.p.h. raked the county including Sutherland, Hershey, North Platte and Maxwell, causing trees and power lines to go down.									
Dundy County	12 1730CST	Short	10		0	0	0	0	Tornado (F0)
Tornado was reported by ranchers to have touched down briefly in open rangeland 16 miles north of Haigler. FPP000									
Red Willow County	12 1730CST	0.1	15		0	0	0	0	Tornado (F0)
Small tornado touched down briefly on the outskirts of Lebanon. FPP000									
Red Willow County	12 1735CST				0	0	0	4	Damaging Winds and Hail
One and a half inch hail and estimated winds to 60 m.p.h. destroyed crops in a 3 mile long swath 10 miles southwest of McCook.									
Lincoln County	12 1745CST	0.1	20		0	0	3	0	Tornado (F1)
A tornado struck a ranchstead 4 miles north of Wellfleet damaging a home, outbuildings and trees. FPP101									
Chase County	12 1800CST	0.1	15		0	0	0	0	Tornado (F0)
Tornado touched down in open rangeland 10 miles southwest of Champion. FPP000									
Custer County	12 1800CST				0	0	0	0	Funnel Cloud
Funnel cloud was reported 1 mile east of Arnold.									
Custer County	12 1800CST				0	0	4	5	Damaging Winds
Thunderstorm winds estimated to 60 m.p.h. struck Anselmo flattening crops and downing some trees. Winds estimated to 70 m.p.h. at Victoria Springs caused trees and power lines to go down.									
Red Willow County	12 2000CST				0	0	5	5	Flash Flood
Seven to eight inches of rain fell in about a 3-hour period in the area of Beaver Creek in both Kansas and Nebraska. The creek flooded closing Highway 89 in several places with 3 to 5 feet of water and flooding the villages of Danbury and Lebanon. Flooding continued much of the next day in the south portion of the county. Crops were totally destroyed, property damaged by floodwaters in the villages, cattle drowned and railroad property damaged. Unofficially, 8 inches of rain fell at Marion.									

**NEBRASKA**

Furnas County	12 2000CST				0	0	5	6	Flash Flood
Two to 6 inches of rain fell in less than 2 hours over much of the county. A railroad bridge was washed out at Hendley, streets flooded at Arapahoe and 2 feet of water was over the highway near Edison at 2200 CST. Beaver Creek outside of Beaver City recorded its all time flood crest. Many acres of farmland, farm equipment and county roads suffered damages.									
Harlan County	12 2000CST				0	0	5	5	Flash Flood
Two to 6 inches of rain fell over the northwest area of the county causing flooding in the Oxford area. One person was swept off a bridge in his car but escaped injury. Substantial damage reported to crops and county roads.									
Harlan County	12 2015CST				0	0	4	3	Hail
Two inch hail broke home windows, and dented cars at Oxford.									
Phelps County	12 2045CST				0	0	3	5	Flash Flood
Heavy rain flooded roads in the Holdrege area stalling vehicles. Highway 183 south of town was closed due to water. Crops suffered damage.									
Phelps County	12 2107CST				0	0	3	3	Hail
One and a half inch hail fell at Holdrege causing some property and crop damage.									
Buffalo County	12 2200CST	0.5	30		0	0	4	4	Tornado (F1)
A tornado touched down 8 miles south of Ravenna and moved northeast a half mile destroying a barn and watering tank. FPP101									
Platte County <sup>B</sup>	14 1200CST				0	0	0	4	Hail
One and a half inch hail damaged crops near Platte Center. Heavy rain also washed out crops.									
Cuming County	13 1300CST				0	0	5	3	Damaging Winds
Several farm buildings were blown over 6 1/2 miles south and 1 mile west of Wisner by thunderstorm winds. A van was blown off the Highway 275, 2 miles west of Wisner. Some trees and power lines downed around West Point and Wisner. Heavy rain also caused pockets of lowland flooding.									
Stanton and Cuming Counties	13 1300CST	5	20		0	0	5	4	Tornado (F1)
Tornado touched 3 miles west and 7 miles north of Howells and moved northeast 5 miles, lifting at times to tree top level. Numerous outbuildings, grain bins, farm equipment and trees suffered damage. A collapsing building killed cattle and other livestock. Homes had window and roof damage. FPP121									
Seward County	13 1350CST				0	0	0	3	Hail
Three-quarter inch hail fell around Utica with minor crop damage.									
Thurston County	13 1400CST				0	0	6	3	Damaging Winds
Thunderstorm winds estimated as high as 80 m.p.h. hit the county. At Thurston, a portion of a roof was blown off, windows and doors were blown off of downtown buildings and the windows were blown out of a truck. At Wilt Hill, the roof was blown off a portion of a house and the windows were blown out of a gas station. Trees and utility lines suffered damage.									
Dodge County	13 1510CST				0	0	4	?	Flash Flood
Three inches of rain in a short time forced Pebble Creek out of banks. At Dodge, 6 families left their homes as water reached 2 to 3 feet deep in some streets. County roads also underwater west of Scribner.									
Seward County	13 1600CST				0	0	0	3	Flash Flood
Four to five inches of rain caused lowland flooding, damaging some crops.									
Cass County	13 1600CST				0	0	0	0	Funnel Cloud
A funnel cloud was reported at Greenwood.									
Dodge, Washington, Saunders, Douglas, Sarpy, Cass and Otoe Counties	13 1600CST				0	0	5	0	Damaging Winds
Thunderstorm winds broke tree limbs and caused utility line damage, affecting an estimated 12,000 customers. In southwest Omaha, a portion off a roof was blown off a home. Heavy rains caused local urban flooding.									
Thurston County	13 1630CST				0	0	3	?	Flash Flood
Heavy rain forced Omaha Creek out of banks south of Wilt Hill. Rosalie highway was impassable due to water.									
Sioux, Hamilton, Clay and Fillmore Counties	16 1400CST				0	0	0	0	Funnel Clouds
Several funnel clouds were sighted around Harrison, Chadron and Hay Springs.									
Box Butte County	16 1630CST				0	0	?	0	High Winds
Thunderstorm wind gusts to 60 m.p.h. measured at Alliance. No damage reported.									

<sup>B</sup> Date out of Sequence.



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	

**NEBRASKA**

Clay County	16	2000CST	0	0	3	4	Hail	One and a half inch hail fell on Highway 41 east of Clay Center, blocking highway. Total crop damage in area.	
York, Hamilton, Clay and Filmore Counties	16	2000CST -0000CST	0	0	3	5	Flash Flood	Four to five inches of rain fell from east of Marquette through Henderson into extreme western Filmore County causing considerable lowland flooding. The north tributary of the Big Blue River overflowed Highway 14 near Kronburg. Turkey Creek in Filmore County and the west fork of the Big Blue overflowed. Crops and roads suffered damage.	
Holt County	17	1400CST	0	0	0	0	Funnel Clouds	Two funnel clouds were sighted near the O'Neill airport.	
Hitchcock County	17	1400CST	0	0	0	4	Hail	One and a half inch hail and heavy rain totally wiped out crops in an area 7 miles southwest of Trenton.	
Dawson County	17	1700CST	0	0	5	6	Damaging Winds and Hail	Two to three inch hail and 60 m.p.h. winds covered a path a couple of miles wide and 10 miles long about 10 miles northwest of Lexington. Area suffered major crop damage. Windows and roofs were damaged on farm homes and trees stripped.	
Dodge County	17	1745CST	0	0	3	5	Flash Flood	Heavy rain in a short time on saturated ground forced Pebble and Maple Creeks out of banks. At Dodge, water ran 3 to 4 feet deep in city streets, and Highway 91 was under water east of town. Streets also flooded at Nickerson. Crops damaged.	
Butler, Saunders, York, Seward, Lancaster, Jefferson, Filmore, Saline, Gage and Thayer Counties	17	1800CST -2300CST	0	0	5	6	Flash Flooding	Pockets of rain of around 3 inches in 15 to 30 minutes caused lowland and urban flooding and forced creeks and smaller rivers out of banks. Some areas of Seward, Saline and Lancaster Counties had total rains of around 5 inches. The Big Blue River and its tributaries, the Little Blue River, Mahoo Creek and Salt Creek were among creeks and rivers to flood. Some of the more severe flooding was around Seward, where Plum Creek flooded out a trailer court and a few businesses forcing people to evacuate. Power poles were also down and cars stalled in water. Other flood reports included Beaver Creek out of banks at York, 2 feet of water over Highway 81 south of McCook Junction, and water over Highway 81 north of Hebron. Many county roads and farmlands suffered damage.	
Adams County	17	1818CST	0	0	0	0	Funnel Cloud	A funnel cloud was reported 2 miles south of Hastings.	
Grant County	17	1830CST	0	0	0	4	Hail	One and a half inch hail wiped out crops just north and east of Hyannis.	
Banner County	18	1910CST	.5	30	0	0	4	0	Tornado (F1) A tornado touched down 15 miles southeast of Harrisburg. Considerable damage to buildings on a ranch. FPP101
Thomas County	19	0610CST	0	0	5	4	Damaging Winds and Hail	One and a half inch hail fell from 3 miles west to 4 miles east of Theford. The hail wiped out crops and broke many windows in Theford. Strong winds blew down outbuildings and uprooted trees.	
Blaine County	19	1830CST	0	0	0	4	Damaging Winds and Hail	Hail and high winds damaged crops across the north portion of the county.	
Dawes County	19	1844CST	10	40	0	0	5	0	Tornado (F2) Tornado touched down at intervals from 2 miles north of the stateline along Highway 385 in Fall River County in South Dakota southeast past Wayside to 10 miles northwest of Chadron. Several homes and buildings were destroyed or damaged. FPP231
Cheyenne County	19	2240CST	0	0	3	0	Damaging Winds	Thunderstorm winds gusted to 67 m.p.h. at Sidney downing power lines.	
Chase County	19	2335CST	0	0	0	3	Hail	One and a half inch hail fell around Imperial. Some crops were reported damaged.	
Box Butte County	20	0010CST	0	0	?	?	Hail	One inch hail fell 12 miles north of Alliance at Berea. No reported damage.	
Perkins County	20	0045CST	0	0	0	3	Hail	Hail and heavy rains heavily damaged crops at Madrid.	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
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**NEBRASKA**

Sioux County	20	1830CST	0	0	4	6	Hail	Hailstones up to 4 inches in diameter fell 12 miles north of Henry. Crops were wiped out and ranch buildings damaged. Some stones went through the roof of a home.	
Sioux County	20	1900CST	.3	40	0	0	5	0	Tornado (F2) A tornado struck a ranch 17 miles north of Mitchell. Considerable damage occurred to a home, building, automobile and machinery. FPP201
Box Butte County	20	2000CST	0	0	4	5	Hail and Damaging Winds	One and a half inch hail and strong winds reported near Hemingford. Crops were heavily damaged and cattle on range injured.	
Garden County	20	2100CST	0	0	3	0	Damaging Winds	Thunderstorm winds gusted to an estimated 80 m.p.h. at Oshkosh uprooting trees.	
Lancaster County	26	2200CST -0400CST	0	0	4	5	Flash Flood	Five to seven inches of rain fell with the most concentrated area in south Lincoln. Many streets and basements were flooded and cars stalled in water. Crops in the county suffered damage.	
Custer County	26	2300CST -0500CST	0	0	5	5	Flash Flood	Around 10 inches of rain fell in about 4 to 5 hours 10 miles west of Sargent. Severe flooding resulted. Farms were flooded, crops totally wiped out and some cattle lost. Roads and bridges in area washed out.	
Loup County	27	0000CST	0	0	4	4	Flash Flood	Around 5 inches of rain fell west of Taylor. Crops and some county roads were damaged.	
Cedar County	27	1400CST -1500CST	0	0	5	5	Flash Flood	Around 8 inches of rain fell mainly north and east of Hartington. Creeks and streams rose, damaging crops and washing out some county roads and bridges. Bow Creek flooded from Hartington to Wymot.	
Madison and Pierce Counties	28	1100CST -1200CST	0	0	0	0	Funnel Clouds	Several funnel clouds spotted north of Battle Creek and Norfolk.	
Douglas County	28	1400CST	0	0	0	0	Funnel Cloud	Funnel cloud was reported 6 miles south of Waterloo.	
Custer County	28	1455CST	0	0	3	4	Flash Flood	Around 4 inches of rain in a short time 4 miles west of Broken Bow washed out two farm earthen dams and flooded creeks. Crops suffered damage.	
Saunders County	28	2000CST	0	0	3	3	Flash Flood	About 4 inches of rain in a brief time around Malmo caused flooding of lowlands and county roads and damaged crops.	
York County	28	2000CST	0	0	4	3	Flash Flood	Three to five inches of rain fell in the west area of the county causing Beaver Creek to overflow southeast of Bradshaw, damaging crops and county road.	
Cherry County	30	2220CST	0	0	?	4	Damaging Winds and Hail	Hailstones to 3 inches in diameter and wind gusts estimated to 60 m.p.h. damaged crops around Valentine. No reported property damage.	
26 NEVADA	NONE REPORTED								
27 NEW HAMPSHIRE	NO REPORT RECEIVED								
28 NEW JERSEY	NONE REPORTED								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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<b>29 NEW MEXICO</b>									
Taos, Taos County	1-5	All Day	0	0	0	0	6	0	Flood
Because of the above normal snowpack in the northern mountains of New Mexico, the spring thaw caused flooding in the Taos County area. Bridges were washed out, and about three-fourths of a million dollars was needed for repairs.									
Portales, Roosevelt Count	9	2100MSZ	0	0	0	0	4	0	Thunderstorm
A thunderstorm with strong winds blew down signs, flipped over trailers, downed trees, and caused damage to light structures in the area.									
<b>30 NEW YORK, Coastal</b> ——— NCNE REPORTED									
<b>30 NEW YORK, Central</b>									
Warren County	06	1630EST			0	0	3	0	Thunderstorm
A cloud burst fell on the Glens Falls area knocking out power to about 2400 homes. Some trees were felled by lightning hits near Lake George. About seven tenths of an inch of rain fell from the storm. Some minor flooding also took place.									
Oneida, Herkimer, Montgomery, Chenango, Warren, Washington, Saratoga, Rensselaer, Tompkins, Oswego, Chenango Counties	16	1530EST			0	3	5	?	Thunderstorms
Powerful thunderstorms swept down across eastern and central New York. Rainfall amounts in Rensselaer and Tompkins Counties measured over 3.5 inches. Marble size hail was reported in Warren and Northern Saratoga Counties. Golfball size hail was observed in Ithaca. Several homes and power poles were struck by lightning. 25 dairy cows were killed by lightning in Elmira. Flash floods caused some minor damage in Rensselaer County. In Herkimer County flooding caused drivers to leave their cars.									
Columbia County	16	PM			0	0	4	4	Thunderstorm
During the evening of the 16th a severe thunderstorm hit Columbia County. Hail did severe damage to the local apple crop. Quarter-size hail took the paint off one mobile home near Hudson, New York. Lightning also knocked out all communication systems for emergency services in Columbia County. Persons near Taconic shores reported hail the size of golfballs.									
Jefferson County	17	1700EST			0	0	4	0	Thunderstorm
A slow moving thunderstorm created flood problems in the village of Carthage and surrounding areas. Roads and a swimming pool were washed out. Over one hundred cellars received some water damage. The storm lasted over 2 hours.									
Schoharie County	17	1730EST			0	0	4	0	Thunderstorm
A strong, gusty thunderstorm did considerable damage in Richmondville. Winds took off the roof of an unoccupied structure which workmen had just finished rehabilitating less than 2 hours earlier. Large trees in the area were snapped like matchsticks according to witnesses.									
Warren County, Lake George Village	17	PM			0	0	4	0	Thunderstorm
A quick moving thunderstorm hit the resort town of Lake George Village. It produced some flooding and erosion of the million dollar beach. Marble-size hail accumulated in the village.									
Montgomery County	18	0400EST			0	0	4	4	Thunderstorm
A brief thunderstorm struck Minden and Fonda in Montgomery County. The storm was accompanied by strong, gusty winds and hail. Power was out in several areas. About 12,000 dollars in damage was done to the Fonda Speedway alone. Farmers also reported some crop damage resulting from the hail.									
Delaware County	19	PM			0	1	3	0	Flash Flood
A flash flood struck the east Sidney Dam Campsite the evening of June 19th. Some roads were washed out from 3.5 inches of rain. One person was injured when they drove off the side of the road.									
Broome, Tioga	27	1400EST			0	0	3	3	Thunderstorm
A warm front from Canada spawned thunderstorms in the southern Tier of New York. Typical of summer thunderstorms, power was knocked out due to wind and downed trees. Hail did damage to some crops in the area. There were some unconfirmed reports of windows broken by the hail and trailers being dented.									
Dutchess, Orange, Counties	27	1700EST			0	0	6	0	Thunderstorm
Heavy rain and lightning moved into Dutchess and Orange Counties about 6PM EDT. An auto repair shop was hit by lightning and destroyed by fire along with it's contents.									
<b>30 NEW YORK, Western</b>									
Portions of Cattaraugus & Chautauque County; Evans, Erie County	15	Evening						4	Wind & Lightning
Lightning ignited a barn in Gerry. Strong winds severed electrical power of various communities in Chautauque, Cattaraugus, and Southern Erie Counties for up to 2 hours.									
Manchester, Ontario County	15	2200EST						3	Wind
Strong winds shattered at 70 X 90-foot barn.									
Lansing, Tompkins County	16	Afternoon						3	C Hail
A thunderstorm dropped hail the size of golf balls. It damaged crops.									
Enfield, Tompkins County	16	Afternoon						3	Lightning
Lightning burned down a barn.									
Arkport and North Hornell, in Steuben County	16	Afternoon						4	C Hail, Rain & Lightning
Thunderstorms with hail up to 1 inch in diameter pelted hundreds of acres of crops. Heavy rains converted farmlands to muck. Lightning blew up several transformers to pieces and rendered hundreds of customers without power for 2 hours.									
Geneva, Ontario County	16	1530EST						3	C Hail
A thunderstorm with marble sized hail pelted crops at the Agricultural Experiment Station.									
Rochester, Monroe County; Branchport Yates County	16	1700EST						3	Hail, Rain & Lightning
A slow-moving thunderstorm plodded through Rochester. It dropped golf-sized hail. Lightning ruptured power lines. About 450 electric customers lost power for 3 hours.									
The storm stalled over Branchport. It sent torrents of water down a hillside, inundated a piece of land and flooded cellars of 2 homes.									
Town of Allegany in Cattaraugus County	16	1900EST						3	C Hail
A thunderstorm spewed golf-sized hail. Crops were damaged.									
Twin Villages of Carthage and West Carthage, Town of Champion, Jefferson County	17	Afternoon						4	Rain
A 2-hour thunderstorm unloaded a deluge of rain, eroded a few streets, and flooded many basements. Clean-up crews worked well into the night.									
Warsaw, Wyoming County	17	Afternoon						3	C Rain
Heavy rain from a thunderstorm flooded basements and streets. Mud slides damaged crops and farmlands.									
Town of Southport and Ashland, & City of Elmira, Chemung County	17	Evening						4	? Rain, Wind & Lightning
The Welsh and Comfort Hill roads in Southport and Ashland were washed out in several places after a thunderstorm unleashed huge amounts of rain. In Southport, lightning struck and toppled a chimney. Another bolt blew a hole several feet wide on another house.									
Olean, Cattaraugus County	17	1800EST						4	? Rain, Hail & Lightning
Strong winds severed power lines and rendered 800 homes in the Elmira area without power for a few hours.									
Heavy rain from a thunderstorm caused North Nine Mile Creek to overflow its banks. It scattered debris on properties along its course. Water surrounded a few homes and flooded several streets.									
Lightning struck utility lines and caused power outages. Hail, over an inch in diameter, dented a few cars.									
Twin Villages of Carthage & West Carthage, Jefferson County	24	2100EST						3	Wind
Strong winds from a thunderstorm downed tree limbs and severed power cables. A few homes were damaged.									
Salamanca, Allegany, Cattaraugus County	27	1654EST						4	? Wind & Rain
A heavy thunderstorm with damaging winds downed many trees and power lines. A thousand or more homes had no electricity for up to 6 hours. A few homes were damaged by the strong wind. Telephone service was disrupted. Heavy rain flooded a few streets and underpasses.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>31 NORTH CAROLINA</b>									
New Hanover County	4	1420EST			0	0	?	?	Thunderstorm
									A severe thunderstorm produced 3/8" hail in Castle Hayne and wind gusts of 58 mph at the Wrightsville Beach Coast Guard Station. No substantial damage was reported.
Chocowinity, Beaufort County	4	1730EST			0	0	?	?	Thunderstorm
									A severe thunderstorm moved through this small community downing trees and powerlines as well as destroying several signs.
Wayne County	4	Late PM			0	0	5	?	Thunderstorm
									A severe thunderstorm moving through the county produced 1/2" hail and high winds causing widespread damage throughout the area. Hardest hit was Goldsboro where high winds toppled a section of a shopping center that was under construction and blew a large tree onto the roof of a home. Damage at the shopping center reached \$20,000. High winds were also reported just east of Mt. Olive where numerous trees and power lines were blown down. Lightning from the storm ignited a fire which gutted a small church in Dudley, just south of Goldsboro, causing an estimated \$30,000 in damages.
Chadbourn, Columbus County	7	2145EST	6	450	0	0	5	?	Tornado (F2)
									A tornado touched down 2 miles NW of Chadbourn near the Five Points crossroads where it destroyed 2 mobile homes and damaged 4 others. One of the destroyed homes was lifted completely into the air and dumped onto two automobiles destroying them as well, while the other mobile home was crushed by a large tree which fell upon it. The tornado moved toward the northeast and lifted briefly before it touched down again near the community of Smyrna where it destroyed a third mobile home, several barns and damaged numerous homes. There was considerable tree damage along the 6 mile path of the tornado which miraculously injured no one despite occurring during a time when most of the mobile homes were occupied.
Raleigh, Wake County	14	1915EST			1	1	0	0	Lightning
									A group of camp counselors at Unstead State Park were struck by lightning leaving 2 girls critically injured. One of the girls died almost two weeks later on the 26, having never regained consciousness.
Rockingham, Richmond County	15	1700EST			1	0	0	0	Lightning
									A 15 year old boy was struck and killed by lightning while fishing with his father on Rockingham City Lake. The man was knocked unconscious but was not injured.
Garthage, Moore County	17	1815EST			0	3	0	0	Lightning
									Three boy scouts were struck by lightning while attending a training session that was being held in a shelter that had a metal roof. The boys all received minor burns and one suffered ear damage.
<b>32 NORTH DAKOTA</b>									
Medina 5N (Stutsman County)	02	1950CST							Funnel
Robinson 7E (Kidder County)	02	2030CST Short 5-15			0	0	0	0	Tornado F(0)
									A tornado touched down briefly. No damage reported.
Hettinger 1N (Adams County)	11	2230CST			0	0	0	0	Hail
									Golfball sized hail. No damage reported.
Luverne (Steele County)	12	0515CST			0	0	5	0	Lightning
									A fire, started by lightning, burned down a post office, grocery store and meat locker plant.
Grand Forks (Grand Forks County)	12	0730CST			0	0	3	0	Lightning
									Lightning struck a house and made an 8 to 10 inch diameter hole in the wall and siding of the house. Also, three television sets, a telephone and a thermostat on an electric heater were burned out by the lightning strike.
Fargo (Cass County)	12	1912CST			0	0	3	0	Lightning
									Lightning struck a house and knocked off some exterior siding.
Wilton 5N (McLean County)	19	0430CST			0	0	5	0	Lightning
									A fire, began by a bolt of lightning, destroyed a barn and killed eight head of livestock, and burned a stack of hay.
Manning (Dunn County)	19	0555CST			0	0	3	0	Heavy Rain
									A bridge was washed out by heavy rain.
<b>— NORTH DAKOTA</b>									
Bowman 20SW (Bowman County)	20	0130CST			0	0	4	0	Hail
									Golfball sized hail broke windows.
Crystal (Pembina County)	20	1510CST			0	0	3	4	Thunderstorm Winds Hail and Heavy Rain
									Strong thunderstorm winds and golfball sized hail knocked down trees and damaged crops. Some fields were flooded by heavy rain.
Grand Forks (Grand Forks County)	20	1930CST			0	0	0	0	Hail
									Hail one inch in diameter. No damage reported.
Cooperstown (Griggs County)	20	1930CST			0	0	0	0	Hail
									Walnut sized hail. No damage reported.
Barnes and Cass Counties	20	2050CST-2245CST			0	0	5	5	Hail, Heavy Rains
									Golfball to baseball sized hail at Valley City (Barnes County) between 2050CST and 2122CST and walnut sized hail at Oriska (Barnes County) at 2245CST damaged crops. Heavy rains of up to 6 inches washed out roads and culverts, and flooded fields and basements in both counties. An embankment (near Cuba in Barnes County), saturated by the heavy rains, collapsed at 2245CST when a Soo Line train crossed it. Four locomotives and 28 Soo Line cars were derailed.
McClusky 10E (McLean County)	21	1632CST							Funnel
Wilton (Burleigh County)	21	1635CST			0	0	0	0	Hail
									Golfball sized hail. No damage reported.
Goodrich 4S (Sheridan County)	21	1730CST			0	0	0	4	Hail
									Hail two inches in diameter badly hammered crops.
Wing 4N (Burleigh County)	21	1822CST							Funnel
Trotters 3 SE (Golden Valley County)	21	1830CST			0	0	0	0	Hail
									Golfball sized hail. No damage reported.
Grand Rapids 4N (LaMoure County)	21	1850CST Short 5-15			0	0	0	0	Tornado (F0)
									Tornado touched down briefly. No damage reported.
Douglas (Hard County)	21	1855CST			0	0	0	0	Hail
									Golfball sized hail. No damage reported.
Strasburg and Linton (Emmons County)	21	1858CST-1915CST			0	0	3	0	Hail, Thunderstorm Winds
									Golfball sized hail was reported at Strasburg at 1858CST while strong thunderstorm winds about 1915CST at Linton ripped electric meters off a house and toppled a tree onto a pickup truck.
Marion (LaMoure County)	21	1902CST			0	0	3	4	Hail
									Walnut to ping ball sized hail damaged windows and crops.
Himbleton (Barnes County)	21	1920CST			0	0	3	0	Heavy Rain
									Heavy rains caused a cave-in on a shop wall.
Beach (Golden Valley County)	21	1925CST			0	0	0	0	Hail
									Chicken egg sized hail. No damage reported.
Grassy Butte (McKenzie County)	21	1930CST			0	0	3	0	Hail
									Egg sized hail broke windows.
Litchville 1NE (Barnes County)	21	1930CST 11.0 50-70			0	0	4	0	Tornado (F1)
									A tornado destroyed a pole barn and hip roof barn, uprooted a chicken coop, uprooted trees and twisted sheds.
Southwest	21	2041CST-2159CST			0	0	3	0	Thunderstorm Winds
									Strong thunderstorm winds were measured to 92mph at Bowman in Bowman County at 2041CST; blew over a few trees at New England in Hettinger County between 2110 and 2137CST; uprooted trees, blew out windows and crumbled garden sheds at Taylor in Stark County at 2130CST; were measured to 67mph at Richardton in Stark County at 2146CST; and damaged trees at Hebron in Morton County at 2159CST.
Hunter (Cass County)	21	2100CST			0	0	3	0	Thunderstorm Winds
									Strong thunderstorm winds blew over trees.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	
<b>— NORTH DAKOTA</b>									
Sharon (Steele County)	21	2153CST							Funnel
Morristown 3N (Sioux County)	21	2215CST	Short	10-20	0	0	3	0	Tornado (F1)
					A tornado destroyed a garage and damaged a barn, machine shed and shelterbelt.				
East	21	2343CST-22 0200CST			0	0	5	0	Thunderstorm Winds
					Strong thunderstorm winds knocked over an unoccupied mobile home at Napoleon in Logan County at 2343CST; blew over power lines, tore roofs off buildings, blew down a machine shed and pole barn at Gackle in Logan County about 0005CST; uprooted trees and flattened crops and gardens at Courtenay in Stutsman County at 0030CST; blew over trees and damaged or destroyed buildings at Cooperstown in Griggs County at 0050CST; at Hatton, Hillsboro and Blanchard in Traill County between 0126CST and 0155CST; at Finley and Aneta4S in Steele County at 0115CST; at Inkster, Grand Forks and Emerald 9S in Grand Forks County between 0100 and 0200CST; and at Kindred in Cass County about 0200CST.				
Jamestown 5SW (Stutsman County)	22	0030CST	10.0	50-70	0	2	5	0	Tornado (F1)
					A tornado damaged several homes, garages and cars; overturned a mobile home; and took the roof off of a welding plant. Two children received minor injuries during the storm.				
Cooperstown 5N (Griggs County)	22	0050CST	Short	5-15	0	0	2	0	Tornado (F1)
					A tornado touched down briefly and damaged trees.				
Mohall 10W (Renville County)	23	0900CST			0	0	5	0	Lightning
					A fire started by lightning...burned down a barn.				
Grandin (Cass County)	24	0430CST			0	0	5	0	Thunderstorm Winds
					Strong thunderstorm winds knocked over a large elevator and damaged trees.				
Christine 3S (Richland County)	24	0600CST							Funnel
Powers Lake (Burke County)	30	1825CST							Funnels (2)
Bismarck 25W (Morton County)	30	2045CST			0	0	0	2	Hail
					Golfball sized hail destroyed a garden.				
Bismarck 10NW (Morton County)	30	2130CST							Funnel
<b>33 OHIO</b>									
Toledo, Lucas County	10	1620EST			0	0	3	0	Hail
					One inch diameter hail fell as a thunderstorm moved through the city. Only minor property damage was reported.				
Wood County	10	1700EST			0	0	3 <sup>0</sup>	0	Hail
					Hail up to 3/4 inch diameter did minor crop damage in the northern part of the county.				
Sunbury, Delaware County	14	1550EST			1	3	0	0	Lightning
					Lightning struck in a farm field injuring 3 farmers and killing one. The lightning struck after the men and women left a truck and walked across the field to turn off a bailer.				
London, Madison County	16	1730EST			0	0	4	0	High Winds
					Thunderstorm winds downed trees and severely damaged 4 mobile homes near London.				
Central Third	19	AFTN			0	0	4 <sup>0</sup>	0	Heavy Rain
					Several thunderstorms moved west to east across the central third of the state. Two to three inches of rain fell in a short period of time overflowing drainage ditches and flooding fields, streets and basements.				
Southern Clinton County	27	1400EST			0	0	4	0	High Winds
					Thunderstorm winds caused structural damage and destroyed several farm buildings. Trees and utility lines were also downed.				
<b>— OHIO</b>									
Aurora, Portage County	28	1100EST			1	0	3	0	Heavy Rain
					Over 3 inches of rain in a thunderstorm caused urban flooding in the northern part of the county. A 16 year old boy drowned when he fell into a drainage ditch and was swept into a culvert by the flood waters.				
Western Pickaway County	30	1720EST	2	50	0	0	3	0	Tornado (F1)
					A mini tornado touched down between Deer Creek Lake and Williamsport. The storm touched down in a park area near a ball diamond and was witnessed by several people. The only damage was done to trees.				
<b>34 OKLAHOMA</b>									
Red Oak, Latimer County	03	1700CST			0	0	?	?	Wind
					Strong winds damaged trees near Red Oak.				
Antlers, Pushmataha County	03	1740CST			0	0	4	?	Heavy rain, Wind
					Nearly 5 inches of rain fell in about 1 hour resulting in local flooding problems and causing damage to county roads. Strong winds preceded the rain and caused damage to trees and roofs with several large trees uprooted.				
Summerfield, LeFlore County	03	1745CST			0	0	?	?	Hail
					Golfball size hail covered the ground.				
Capron, Woods County	03	1750CST			0	0	?	?	Wind
					Winds 50-60 mph occurred at Capron.				
Cherokee, Alfalfa County	03	1759CST			0	0	?	?	Hail
					Hail 3/4 inch size was reported.				
Jet, Alfalfa County	03	1830CST			0	0	?	?	Hail
					Golfball size hail occurred.				
Bristow, Creek County	05	1253-1322CST			0	0	?	?	Hail
					Numerous reports of golfball size hail in and around Bristow were received.				
Carney, Lincoln County	05	1258CST			0	0	?	?	Hail
					Hail 3/4 inch fell 3 miles east of Carney.				
Sapulpa, Creek County	05	1300CST			0	0	?	?	Hail
					Golfball size hail fell near Sapulpa.				
Stroud, Lincoln County	05	1330CST			0	0	?	?	Hail
					Golfball size hail fell in Stroud.				
Prague, Lincoln County	05	1345CST			0	0	?	?	Hail
					Hail 3/4 to 1 inch was reported 4 miles south of Prague.				
Wetumka, Hughes County	05	1430CST			0	0	?	?	Hail
					Hail 3/4 inch fell in Wetumka.				
Muskogee, Muskogee County	05	1500CST			0	0	?	?	Wind
					Winds of 75 mph reported at Muskogee.				
Webbers Falls, Muskogee County	05	1530CST			0	0	?	?	Wind
					Strong straight winds downed a large tree 5 miles west of Webbers Falls. Winds were estimated near 60 mph.				
Gore, Sequoyah County	05	1531CST			0	0	?	?	Wind
					Winds of 60 mph were reported at Gore.				
Calvin, Hughes County	05	1542CST			0	0	?	?	Hail
					Golfball size hail was reported.				
Webbers Falls, Muskogee County	05	1545CST			0	0	?	?	Wind
					Winds of 75 mph were reported near Webbers Falls.				
McAlester, Pittsburg County	05	1612CST			0	0	?	?	Hail
					Golfball hail occurred 12 miles west of McAlester.				

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<b>OKLAHOMA</b>									
Arpelar, Pittsburg County	05	1612CST			0	0	?	?	Hail
									Golfball size hail reported in Arpelar.
Red Oak, Latimer County	05	1620CST			0	0	?	?	Hail
									Marble to golfball size hail occurred in Red Oak.
McAlester, Pittsburg County	05	1627CST			0	0	?	?	Hail
									Hail 1 inch to golfball size was reported.
Tupelo, Coal County	05	1645CST			0	0	?	?	Hail
									Hail 3/4 inch occurred in Tupelo.
Hartshorne, Pittsburg County	05	1650CST			0	0	?	?	Hail
									Marble to golfball size hail reported 2 miles southwest of Hartshorne.
Coal and Atoka Counties	05	1712CST			0	0	?	?	Hail, Wind
									Hail 3/4 to 1 inch and 65 mph winds occurred over an area between Atoka and Coalgate.
Coalgate, Coal County	05	1720CST			0	0	?	?	Hail
									Hail 3/4 inch occurred in Coalgate.
Marietta, Love County	05	1910CST			0	0	?	?	Hail, Wind
									Hail 3/4 inch and 60 mph winds were reported 9 miles west of Marietta.
Carter and Love Counties	05	1915CST			0	0	.	.	Hail, Wind
									Golfball size hail and 70 mph winds occurred southwest of Ardmore and near Lake Murray.
Thackerville, Love County	05	1930CST			0	0	?	?	Hail
									Golfball size hail reported at Thackerville.
Pryor, Mayes County	05	Afternoon			0	0	3	0	Lightning
									Lightning struck a house in Pryor. Fire was contained to the attic.
Cordell, Washita County	05	Afternoon			0	0	2	0	Lightning
									Lightning struck a house in Cordell resulting in a fire. Minor damage.
Beaver, Beaver County	09	2100CST			0	0	?	?	Hail
									Golfball hail reported near Beaver.
Beaver County	09	Evening			0	0	?	?	Flooding
									Minor flooding was reported over Hiway 270 in Beaver County.
Woods and Alfalfa Counties	10	1435CST			0	0	?	?	Hail
									Hail 3/4 inch occurred along the Woods-Alfalfa County line.
Arnett, Ellis County	10	1530CST			0	0	?	?	Hail
									Hail 3/4 inch fell 5 miles northwest of Arnett.
Amorita, Alfalfa County	10	1538CST			0	0	?	?	Hail
									Marble to Golfball size hail reported at Amorita.
Ellis County	10	1640CST			0	0	?	?	Hail
									1 to 1 1/4 inch hail fell 18 miles south of Arnett.
Ellis County	10	1745CST			0	0	?	?	Hail
									Hail 3/4 inch reported 18 miles south of Arnett.
Hammon, Roger Mills County	10	1745CST			0	0	?	?	Hail
									Hail 3/4 inch fell in Hammon.
Butler, Custer County	10	1800CST			0	0	?	?	Hail
									Golfball size hail fell in Butler.
Hammon, Roger Mills County	10	1810CST			0	0	?	?	Wind
									Winds of 80 mph were reported just southwest of Hammon.
<b>OKLAHOMA</b>									
Beckham, Custer, Roger Mills Counties	10	1820-1925	28	Narrow	0	0	4	?	Tornado (F1) Wind, Hail
									A severe thunderstorm moving through the area produced a tornado which first touched down 7 miles northwest of Elk City and moved eastward across southern Custer County. The tornado was next reported 8 miles southwest of Butler and again near Clinton. A Hiway Patrol troopers car was blown off the road 10 miles west of Clinton. Winds of 70 mph were reported just south of Clinton with several cars overturned in Clinton. Hail of 3/4 inches was also reported at Clinton.
Hinton, Caddo County	10	1939CST	Short	Narrow	0	0	2	?	Tornado (F0)
									The same storm which produced the Clinton tornado produced a tornado which briefly touched down 3 miles southwest of Hinton. No Damage.
Thomas, Custer County	10	1940CST			0	0	?	?	Hail
									Hail of 1 inch was reported.
Anadarko, Caddo County	10	2015CST			0	0	?	?	Hail
									Hail 1 inch in size was reported just south of town.
Hinton, Caddo County	10	2100CST	Short	Narrow	0	0	?	?	Tornado (F0)
									A tornado was sighted near Hinton. No damage.
Hammon, Roger Mills County	10	evening			0	0	4	5	Heavy rain, Flooding
									Hammon received 7 1/2 inches of rain causing flooding to several businesses. Several farmers lost their cotton crop.
Arapaho, Custer County	10	evening			0	0	4	?	Heavy rain, Flooding
									Arapaho received 9 1/2 inches of rain causing damage due to erosion.
Custer County	10	evening			0	0	5	5	Flooding
									Southern Custer County received 7 to 10 inches of rain causing local flooding mainly around Clinton and Weatherford. Considerable damage was done to wheat fields bridges and roadways.
Arapaho, Custer County	11	2340CST			0	0	5	?	Flooding
									A bridge either washed out or collapsed near Arapaho as a result of the previous nights heavy rains and bank-full streams.
Beaver, Beaver County	13	1503CST	Short	Narrow	0	0	0	0	Tornado (F0)
									A tornado briefly touched down 3 miles south of Beaver.
Hammon, Roger Mills	13	1519CST	Short	Narrow	0	0	0	0	Tornado (F0)
									A tornado briefly touched down 5 miles southwest of Hammon. No Damage.
Elk City, Beckham County	13	1556CST	Short	Narrow	0	0	0	0	Tornado (F0)
									A tornado touched down 1 1/2 miles north of Elk City.
Laverne, Harper County	13	1615CST	Short	Narrow	0	0	4	?	Tornado (F0) Hail
									A tornado just west of Laverne did damage to carnival tents and tore up trailers. Large hail accompanied the storm.
Canute, Washita County	13	1627CST			0	0	?	?	Hail
									Golfball size hail fell at Canute.
Elk City, Beckham County	13	1630CST			0	0	?	?	Hail
									Hail of 3/4 inches fell at Elk City.
Fairview, Major County	13	1630CST			0	0	?	?	Hail
									Hail 3/4 inches in size fell at Fairview.
Buffalo, Harper County	13	1655CST			0	0	?	?	Wind, Heavy Rain
									Winds of 60 mph were reported 17 miles east of Buffalo along with 3/4 inches of rain in just 10 minutes.
Bessie, Washita County	13	1700CST			0	0	?	?	Hail
									Hail 1 inch in size was reported at Bessie.
Cordell, Washita County	13	1727CST			0	0	?	?	Hail
									Hail 3/4 inch in size was reported 5 miles southeast of Cordell.



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					KILLED	INJURED	PROPERTY	CROPS	
<b>OKLAHOMA</b>									
Freedom, Woods County	13	1735CST			0	0	3	?	Wind
									High winds damaged a barn just north of Freedom.
Burns Flat, Washita County	13	1746CST			0	0	?	?	Hail
									Hail 2 inches in diameter fell at Burns Flat.
Cloud Chief, Washita County	13	1752CST			0	0	0	0	Funnel
									A funnel cloud was spotted near Cloud Chief.
Cordell, Washita County	13	1800CST	Short Narrow	0	0	0	0	0	Tornado (F0)
									A tornado touched down briefly 11 miles south southwest of Cordell.
Tillman County	13	1815-1915	12 Narrow	0	0	?	?	?	Tornado (F0)
									A tornado touched down on the east edge of Tipton and moved southeastward for 1 1/2 miles. Considerable treetop damage occurred. It then lifted and a funnel was sighted 1 mile east of Frederick. The tornado touched down again 1/2 mile east of Frederick and moved southeast to 1 mile southeast of Frederick. The tornado was in open country.
Medford, Grant County	13	1830CST			0	0	?	?	Hail
									Golfball size hail occurred 8 miles west of Medford.
Binger, Caddo County	13	1830CST	Short Narrow	0	0	3	0	0	Tornado (F0)
									A tornado touched down near Binger blowing the roof off a barn, 2 miles southeast of Binger.
Corn, Washita County	13	1830CST			0	0	?	?	Hail
									Golfball to Baseball size hail fell just south of Corn.
Hydro, Caddo County	13	1845CST	Short Narrow	0	0	0	0	0	Tornado (F0)
									A tornado briefly touched down 2 miles south of Hydro.
Anadarko, Caddo County	13	1915CST			0	0	3	0	Wind
									A storage shed was blown off its foundation at Anadarko and was destroyed.
Grady County	13	1922-2018	18CST		0	0	5	?	Wind, Hail
									A severe thunderstorm containing strong winds and 3/4 inch hail did considerable damage in Pocasset. One trailer house and 1 travel trailer were destroyed. A garage was blown down with 2 cars and 2 trucks damaged. Two barns and 2 houses were damaged with power lines down effecting Pocasset, Minco, and Amber.
Frederick, Tillman County	13	1929CST			0	0	?	?	Hail
									Golfball size hail fell 11 miles east of Frederick.
Chattanooga, Comanche County	13	1940CST	Short Narrow	0	0	4	0	0	Tornado (F1)
									A tornado touched down near Chattanooga breaking 4 light posts.
Hollister, Tillman County	13	1945CST			0	0	?	?	Hail
									Golfball size hail was reported at Hollister.
Walters, Cotton County	13	2025CST			0	0	?	?	Hail
									Golfball size hail fell in and near the Walters area.
Blanchard, McClain County	13	2030CST			0	0	4	?	Wind
									Strong winds destroyed a mobile home and uprooted trees at Blanchard.
Guymon, Texas County	13	afternoon	short narrow	0	0	0	0	0	Tornado (F0)
									A tornado touched down 10 miles south of Guymon. No damage.
Madill, Marshall County	14	0330CST			0	0	4	0	Wind
									High winds blew a 45 foot trailer over at Madill.
Tishomingo, Johnston County	14	0330CST			0	0	5	0	Lightning
									Lightning struck a warehouse in Tishomingo causing a fire resulting in considerable damage.
Mountain View, Kiowa County	14	morning			0	0	?	?	Flooding
									The Washita River near Mountain View was out of its banks due to heavy rains on the 10th and 13th.
Foraker, Osage County	18	2100CST			0	0	?	?	Wind
									Strong winds did tree damage northwest of Foraker.
<b>OKLAHOMA</b>									
Kaw City, Kay County	18	2103CST	short narrow		0	0	0	0	Tornado (F0)
									A tornado briefly touched down near Kaw City. No damage.
Kaw City, Kay County	18	2138CST			0	0	?	?	Hail
									Hail 1 inch in size was reported just east of Kaw City.
Hardy, Kay County	18	2200CST			0	0	?	?	Hail
									Hail 1 inch in size was reported.
Hardy, Kay County	18	2245CST			0	0	?	?	Wind, Hail
									Golfball size hail fell and trees were uprooted 5 miles south of Hardy.
Rosston, Harper County	26	1336CST			0	0	?	?	Hail
									Hail 1 inch in size fell at Rosston.
Fargo, Ellis County	26	1445CST			0	0	?	?	Hail
									Golfball size hail fell at Fargo.
Madge, Harmon County	26	1455CST			0	0	?	?	Hail
									Golfball size hail fell near Madge.
McKnight, Harmon County	26	1459CST			0	0	?	?	Hail, Wind
									Golfball size hail and 50 mph winds occurred at McKnight.
Hollis, Harmon County	26	1529CST			0	0	4	?	Hail, Wind
									Hail 1 inch in size was reported 10 miles north of Hollis. High winds destroyed a barn spreading it over a 1/2 mile area.
Sweetwater, Roger Mills County	26	1540-1612	2CST		0	0	4	?	Hail, Wind
									A severe thunderstorm moving through the area produced 1 inch hail and destroyed a mobile home 1 mile south and 3 miles west of Sweetwater. A barn 5 miles northeast of town was also destroyed.
Carter, Beckham County	26	1555CST			0	0	?	?	Hail
									Golfball hail fell at Carter.
Alva, Woods County	26	1635CST			0	0	4	?	Wind
									High winds damaged a hay shed 12 miles west of Alva.
Putnam, Dewey County	26	1729CST			0	0	?	?	Wind
									Winds 60 to 70 mph were reported at Putnam.
Watonga, Blaine County	26	1825CST			0	0	?	?	Hail
									Hail 1 inch in size was reported 4 to 6 miles west of Watonga.
O'Keene, Blaine County	26	1828CST			0	0	?	?	Wind
									Winds of 60 mph were reported.
Geronimo, Comanche County	26	1830CST			0	0	4	?	Wind
									High winds destroyed a mobile home and a fireworks stand at Geronimo.
Tipton, Tillman County	27	1725CST			0	0	?	?	Wind
									High winds in Tipton damaged roofs and blew down trees.
Frederick, Tillman County	27	1739CST			0	0	4	?	Wind
									Winds estimated from 70 to 75 mph. blew out windows, damaged roofs, fences and antennas in Frederick. Limbs were blown off and trees uprooted. Power was knocked out for 2 1/2 hours.
Altus, Jackson County	27	1745CST			0	0	?	?	Wind
									Winds gusting to 65 mph were reported 2 miles south of Altus.
Grandfield, Tillman County	27	1750CST			0	0	?	?	Wind
									Winds estimated near 85 mph were reported near Grandfield.
Altus, Jackson County	27	1752CST			0	0	?	?	Wind
									Winds near 75 mph were reported in Altus.
Humphreys, Jackson County	27	1752CST			0	0	?	?	Wind
									Winds near 75 mph occurred 4 miles west of Humphreys.
Eldorado, Jackson County	27	1754CST			0	0	?	?	Wind
									Winds of 65 mph were reported in Eldorado.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>OKLAHOMA</b>									
Olustee, Jackson County	27	1803CST			0	0	?	?	Hail
			Hail 3/4 inch in size was reported.						
Temple, Cotton County	27	1840CST	short narrow		0	0	0	0	Tornado (FO)
			A tornado briefly touched down just west of Temple.						
Walters, Cotton County	27	1850CST			0	0	4	0	Wind
			High winds destroyed the roof to a shop.						
Stephens County	27	1852CST			0	0	3	?	Wind
			High winds blew trees down 8 miles west of Meridan and in the town of Comanche, where all power was lost.						
Marlow, Stephens County	27	1855CST			0	0	?	?	Wind
			Winds near 70 mph were reported at Marlow.						
Comanche, Stephens County	27	1855CST			0	0	4	?	Wind
			Strong winds at Comanche blew over several large trees, destroyed a barn just west of town, and damaged several buildings and roofs.						
Duncan, Stephens County	27	1900-1910CST			0	0	5	?	Wind
			Winds estimated to be near 80 mph blew down a 500 foot tower just west of Duncan. Roofs were blown off of several stores with water damage following. Trees were also blown down with power outages reported across the city.						
Lawton, Comanche County	27	1912CST			0	0	4	?	Wind
			High winds damaged several buildings and roofs in Lawton.						
Velma, Stephens County	27	1915CST			0	0	3	?	Wind
			Strong winds buckled the roof of a grocery store in Velma.						
Cyril, Caddo County	27	1930CST			0	1	4	?	Wind
			A mobile home was destroyed by high winds at Cyril with one injury reported.						
Maurika, Jefferson County	27	1930CST			0	0	?	?	Wind
			Winds of 70 mph were reported.						
Lindsay, Garvin County	27	1935CST			0	0	3	?	Wind
			High winds damaged a building in Lindsay.						
Chickasha, Grady County	27	1935CST			0	0	3	?	Wind
			Winds near 80 mph broke or blew down power lines and uprooted large trees at Chickasha.						
Duncan, Stephens County	27	1939CST			0	0	3	?	Funnel, Wind
			A funnel was reported 8 miles west of Duncan with high winds damaging several buildings.						
Blanchard, McClain County	27	1940CST			0	0	4	?	Wind
			High winds destroyed a mobile home in Blanchard.						
Minco, Grady County	27	1942CST			0	0	?	?	Wind
			High winds damaged trees in Minco.						
Binger, Caddo County	27	1943CST			0	0	?	?	Wind
			Winds near 60 mph were reported.						
Ringling, Jefferson County	27	1949CST			0	0	?	?	Wind
			Winds of 70 mph were reported.						
Elmore City, Garvin County	27	2000CST			0	0	4	?	Wind
			A barn was destroyed by high winds at Elmore City.						
Maysville, Garvin County	27	2005CST			0	0	4	?	Wind
			High winds caused extensive damage to a home under construction and a mobile home.						
Marietta, Love County	27	2020CST			0	1	4	0	Wind
			Strong winds blew a police car off the road just south of Marietta. One policeman was injured.						
Kingfisher, Kingfisher County	27	2020CST			0	0	5	?	Wind
			Winds of 80 mph caused extensive roof damage across Kingfisher.						
<b>OKLAHOMA</b>									
Oklahoma City, Oklahoma County	27	2025CST			0	2	3	0	Wind
			Winds near 80 mph blew over a scaffolding in northern Oklahoma City injuring the two men on it.						
Mustang, Canadian County	27	2028CST			0	0	4	0	Wind
			Winds near 60 mph did considerable damage to a block wall under construction.						
Purcell, McClain County	27	2029CST			0	0	4	?	Wind
			Strong winds destroyed a mobile home near Purcell.						
El Reno, Canadian County	27	2030CST			0	0	?	?	Wind
			Winds near 70 mph destroyed a mobile home in El Reno.						
Ada, Pontotoc County	27	2030CST			0	0	?	?	Wind
			High winds at Ada uprooted large trees and damaged roofs.						
Wayne, McClain County	27	2035CST			0	0	4	?	Wind
			Strong winds blew over a trailer house and damaged several roofs.						
Lexington, Cleveland County	27	2035CST			0	0	?	?	Wind
			Strong winds blew several large trees into power lines.						
Ardmore, Carter County	27	2040CST			0	0	?	?	Hail
			Hail 3/4 inch in size fell at Ardmore.						
Healdton, Carter County	27	2040CST			0	0	4	?	Wind
			High winds blew a tree down onto a pickup in Healdton.						
Allen, Pontotoc County	27	2045CST			0	0	4	?	Wind
			Strong winds demolished a storage shed and did other damage to roofs and trees at Allen.						
Prague, Lincoln County	27	2055CST	short narrow		0	0	4	?	Tornado (F1)
			A tornado touched down just south of Prague turning over a steel windmill, damaging a roof and uprooting several trees.						
Shawnee, Pottawatomie County	27	2100CST			0	0	?	?	Wind
			Winds near 60 mph were reported at Shawnee.						
Seminole, Seminole County	27	2100CST			0	0	4	?	Wind
			Strong winds damaged an aircraft at Seminole.						
Wewoka, Seminole County	27	2105CST	short narrow		0	0	?	?	Tornado (FO)
			A tornado briefly touched down 6 miles south and 6 miles west of Wewoka.						
Chandler, Lincoln County	27	2115CST			0	0	3	?	Wind
			Wind speeds of 68 mph were recorded in Chandler with trees and power lines down throughout the area.						
Stillwater, Payne County	27	2120CST			0	0	4	?	Wind
			Winds near 60 mph were reported just west of Stillwater. The roof of a mobile home was blown off with several buildings damaged.						
Hominy, Osage County	27	2120CST			0	0	4	?	Wind
			High winds damaged trees and buildings at Hominy.						
Ralston, Pawnee County	27	2125CST			0	0	4	?	Wind
			High winds carried the roof off a storage shed 1/10 of a mile. Siding was blown off the side of a home and large trees were uprooted and many windows were blown out.						
Pawnee, Pawnee County	27	2125CST			0	0	4	?	Wind
			Strong winds damaged outbuildings and homes with one roof destroyed.						
Mulhall, Logan County	27	2130CST			0	0	3	?	Wind
			Winds near 60 mph blew one large tree down and damaged a roof.						
Kingston, Marshall County	27	2140CST			0	0	3	?	Wind
			High winds damaged a K-Mart store in Kingston.						
Okmulgee, Okmulgee County	27	2140CST			0	0	3	?	Wind
			High winds damaged a drive-in restaurant.						
Morrison, Noble County	27	2145CST			0	0	4	?	Wind
			High winds damaged a mobile home and several farm buildings.						

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

OKLAHOMA										
Oologah, Rogers County	27	2150CST			0	0	4	?	Wind	Winds downed a power line, uprooted trees and damaged one home.
Coweta, Wagoner County	27	2155CST			0	0	3	?	Wind	Winds blew down the framework of a church being built.
Duncan, Stephens County	27	2200CST	short narrow		0	0	0	0	Tornado (F0)	A tornado briefly touched down 2 miles west of Duncan.
Skiatook, Osage County	27	2200CST	100**	100	0	0	5	?	Tornado (F2)	A tornado briefly touched down just west southwest of Skiatook destroying 4 mobile homes and 2 barns. Several trees were either uprooted or split with 5 homes experiencing roof and window damage.
Woodward, Woodward County	27	2205CST			0	0	3	?	Wind	Winds 60 to 70 mph blew down trees and power lines in Woodward.
Tulsa, Tulsa County	27	2213CST			0	0	3	0	Wind	Winds of 66 mph were recorded at NSO Tulsa. The roof of a hanger at the airport was damaged with many power lines destroyed.
Collinsville, Tulsa County Rogers County	27	2215CST	5	100	1	0	4	?	Tornado (F2)	The same thunderstorm which produced the Skiatook tornado spawned a tornado just north of Collinsville which skipped east northeast along the ground for 5 miles. A trailer house on the northern side of Collinsville was destroyed resulting in the death of the woman occupant. Tree damage was heavy with numerous twisted trees reported along the path.
Hugo, Choctaw County	27	2225CST			0	0	3	?	Wind	High winds damaged buildings and trees in Hugo.
Mayes, Craig and Delaware Counties	27	2230-2315CST			0	0	4	0	Wind	Winds 60 to 70 mph were reported at Shangri-La Lodge, Langley, and Pensacola and Big Cabin resulting in damage to mobile homes, boat docks and farm buildings.
Spiro, LeFlore County	27	2325CST			0	0	3	0	Wind	Large trees were blown down on a house.
Carmen, Alfalfa County	27	2325CST			0	0	3	0	Wind	A mobile home was blown over at Carmen.
Bartlesville, Washington County	27	evening			0	0	4	0	Lightning	Lightning caused an unoccupied home to burn down.
Grady County	28	0045CST	short narrow		0	0	0	0	Tornado (F0)	A tornado briefly touched down between Marlow and Rush Springs.
Sulpher, Murray County	28	morning			0	0	6	0	Lightning	Lightning caused a one million dollar fire at the Sooner Foods Shopping Center.
Burlington, Alfalfa County	28	morning			0	0	4	?	Flooding	Heavy rain in southern Kansas caused Driftwood Creek to overflow its banks and flood the town of Burlington doing damage to homes and roads.
Lebanon, Marshall County	28	0400CST			0	0	5	0	Lightning	Lightning caused a fire in a barn killing 5 horses a few miles north of Lebanon.
Love and Carter Counties	28	1720CST			0	0	?	?	Hail	Hail 3/4 inch was reported 5 miles south southwest of Ardmore.
Enid, Garfield County	28	1720CST			0	0	?	?	Hail	Golfball hail was reported on the north side of Enid.
Ada, Pontotoc County	28	1730CST			0	0	0	0	Funnel	Reported near Ada.
Reagan, Johnston County	28	1740CST	short narrow		0	0	4	?	Tornado (F2) Hail	A tornado touched down by the Tishomingo National Fish Hatchery near Reagan. A roof was ripped off a barn with numerous other buildings receiving minor damage. Thirty to Forty large trees (3-4 feet in diameter and 50 - 60 feet tall) were uprooted or destroyed. Hail 1 1/2 inches in size also occurred with the storm.

OKLAHOMA										
Newoka, Seminole County	28	1745CST			0	0	?	?	Hail, Wind	Golfball to baseball size hail and damaging winds were reported at Newoka.
Maysville, Garvin County	28	1805CST	short narrow		0	0	0	0	Tornado (F0)	A tornado briefly touched down 2 miles west of Maysville.
Nardin, Kay County	28	1810CST			0	0	?	?	Wind, Hail	Hail 1 inch in size and 70 to 80 mph winds occurred at Nardin.
Kemp, Bryan County	28	1820CST			0	0	3	?	Hail, Wind	Hail 3/4 inch fell at Kemp. A roof was also blown off a shed and scattered across a field.
Blackwell, Kay County	28	1820CST			0	0	4	?	Wind	Strong winds blew down the left wing of a 3 building complex.
Hendrix, Bryan County	28	1850CST			0	0	?	?	Hail	Hail 3/4 inch in size fell at Hendrix.
Achille, Bryan County	28	1855CST			0	0	?	?	Hail	Hail 1 inch in size fell at Achille.
Yuba, Bryan County	28	1900CST			0	0	4	?	Wind	Strong winds blew down a barn and uprooted trees at Yuba.
Pawhuska, Osage County	28	2045CST			0	0	4	0	Lightning	Lightning caused a fire destroying an oil tank in Pawhuska.
Broken Bow, McCurain County	28	2145CST			0	0	3	?	Wind	Wind damaged a carport.
Alva, Woods County	28	2218CST			0	0	?	?	Wind	Winds near 70 mph were reported at Alva.
35 OREGON ————— NO REPORT RECEIVED										
36 PENNSYLVANIA, Eastern										
Union and Northumberland Counties	6	1500 EST to 1600 EST			0	1	4	0	Wind Flash Flooding	Wind gusts accompanying thunderstorms downed trees and damaged trailers and buildings. Downed trees blocked roads, downed utility lines and damaged trailers and buildings. A tree fell on a trailer resulting in one minor injury. The wind also blew down quite a few utility poles. Two trailers were blown over with one rolled across a road and destroyed. One barn had portions of its roof and a cupola blown off. Heavy rain accompanying the storms caused drainage and stream flooding which closed quite a few roads. Amounts around 2 inches were measured. Small hail was also reported at a few locations. The storm track was along Route 45 in Southern Union County, through the Lewisburg area and east across the river and into Northumberland County. A second thunderstorm moved across the same area about 8:00 P.M. EDT, but was less severe and mainly caused some additional heavy rain.
Bradford County	16	1305 EST			0	0	2	0	Hail	A hailstorm over the southwest part of Bradford County accumulated hail to 2 inches deep. The largest hailstones were the size of golf balls.
Lackawanna County	16	2000 EST			0	0	3	0	Heavy Rain	Thunderstorms dumped heavy rain on the communities of Olyphant, Dickson City and Blakely near Scranton. The heavy downpours flooded many roadways with the water up to four feet deep in spots. The high water entered some buildings and a number of automobiles were stuck in the deep water. The rushing water caused mud and rock slides in a few places and carried considerable debris onto roadways.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	

## — PENNSYLVANIA, Eastern

Warrington Township, York County	17	1900 EST to 2000 EST			0	0	4	0	Lightning
A lightning fire destroyed a barn and its contents.									
Waynesboro, Franklin County	18	1700 EST			0	0	4	0	Heavy Rain
Heavy downpours in Waynesboro and surrounding areas caused considerable flooding of roads and basements. Some of the flooded basements had walls cave in.									
Bethlehem	19	1600 EST to 1930 EST			0	0	4	0	Heavy Rain
Thunderstorm downpours caused considerable roadway and basement flooding in Bethlehem and surrounding areas. Some flooded road sections had water 2 to 6 feet deep. The rushing water caused mudslides in a few places, washed out parts of roadways and washed out railroad roadbed and ties. Unofficial rainfall amounts of almost 3 inches were reported. Some rain or showers continued until about 3 AM EDT with close to another inch of rain in places.									
Montour, Union and Upper Northumberland Counties	28	1200 to 1400 EST			0	0	4	0	Heavy Rain
Although thunderstorms and rain fell over the area from about 1 AM EDT to about 7 PM EDT, the heavy rain fell mostly in a two-hour period. During that two hours about 2.5 inches of rain fell. This resulted in considerable drainage flooding with some roads closed. Some small streams also flooded and 37 people had to be evacuated from one trailer court near Watsonstown, Northumberland County. There also was a good amount of drainage flooding in the Hazleton area of Luzerne County.									

## 36 PENNSYLVANIA, Western

Bedford and Somerset Counties	21	early morn			0	0	6	?	Flash Flood
Slow moving thunderstorms caused flash flooding mainly to the area close to Bedford Springs Hotel (179 years old). At least 80 cars in the parking lot were awash from the flood waters. There was varying amounts of damage to homes in both counties, with one house ripped off its foundation. Many roads and several bridges were also damaged. Over five inches was reported near the city of Bedford.									
Clarion, Clinton, Jefferson, Mercer and Venango Counties	28	late aftn			0	0	5	?	Flash Flood
Heavy rains flooded numerous basements and closed several bridges. Three to six inches fell over a 24 hour period.									
Butler County	30	1700CST			0	0	5		Strong Winds
Thunderstorm downbursts caused heavy tree damage, downed power lines, minor structural damage to buildings, and moderate damage to boats at a boat dealership.									

## 37 RHODE ISLAND

Northern Portion	15	1630-1800EST			0	0	4	0	Lightning, Heavy Rain, Gusty Winds
Heavy thunderstorms moved through the area in the late afternoon with frequent lightning which struck a number of homes. A home in Scituate was extensively damaged by a fire caused by lightning. Many tree limbs and some trees were knocked down by gusty winds and power failures were reported by several thousand customers.									

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## — RHODE ISLAND

Warwick, Bristol, Tiverton, Little Compton, Portsmouth, and Middletown area	27	1630-1800EST			0	1	5	0	Lightning, Gusty Damaging Winds, Heavy Rain, Hail
Severe thunderstorms struck bringing frequent cloud to ground lightning strikes and damaging winds which felled large trees and tree limbs. In Bristol a tree fell on an auto trapping and slightly injuring the driver. A number of large trees fell onto houses causing damage as well as knocking out power lines. Some of the lightning strikes started some minor fires with mostly light damage reported.									
Westerly & Vicinity	27	Evening			0	0	4	0	Lightning
Lightning caused a number of small fires but one destroyed a small wooden structure at a local Boy Scout camp.									

## 38 SOUTH CAROLINA

16 Miles South and 10 Miles East of Florence (Florence County)	05	1545-1645EST			0	0	3	5	Wind, Hail
An area of severe thunderstorms swept across the Pee Dee section of the State causing considerable wind and some hail damage. Hardest hit areas were Yarbrough Farm 10 miles east of Florence near the Pee Dee River bridge on U.S. 301-76 where a 90 foot brick wall was tumbled, and two cotton trailers were damaged. Crops were damaged by the wind and marble size hail. Also four utility buildings at Lark Utility Company nearby were damaged. Another area of damage occurred six miles south of Florence where two barns were destroyed, and trees uprooted.									
East of Florence along U.S. 301-76 near Pee Dee River bridge. (Florence County)	05	1600EST	300ft	17	0	0	0	3	Tornado (F1)
A small tornado developed during a heavy thunderstorm and cut a short path through the woods near the Pee Dee River bridge. Path was 300 feet long, 50 feet wide. Tornado moved from northwest to southeast.									
St. Stephens (Berkeley County)	07	1600EST			0	0	4	0	High Wind
The roof of the Georgia Pacific Plant at St. Stephens was damaged by high winds during a thunderstorm.									
Near Jedburg (Dorchester County)	07	1610EST			0	0	3	4	Wind, Heavy Rain
High winds and heavy rains associated with an area of severe thunderstorms caused considerable minor damage. In New Hope Subdivision of Jedburg several mobile homes were destroyed.									
Near Grover to Byrds (Dorchester County)	07	1700EST	4	30	0	0	3	4	Tornado (F1)
A small tornado skipping along over a 4 mile path caused considerable damage to trees, utilities, and one home. First touched down one mile northeast of Grover and moved northeast near Byrds.									
2 Miles South of Kingstree, S.C. (Williamsburg County)	07	1900EST	2	30	0	1	4	0	Tornado (F1)
A small tornado touched down two miles south of Kingstree and destroyed one home, one mobile home and damaged three other buildings, one person was injured.									
Lake Wateree Area (Kershaw County)	26	1640EST			0	0	5	0	Lightning
Two homes were struck by lightning and burned.									

## 39 SOUTH DAKOTA

McPherson County	10	1825CST	-	-	0	0	0	0	Winds, Heavy Rain
60 mph winds, along with one and one-half inches of rain fell in Leola in twenty minutes.									
Hand, Hyde Counties	12	0630-1000CST			0	0	3	3	Heavy Rains Lightning
Rains up to seven and one-half inches flooded cropland and basements. Lightning struck power poles and caused scattered power outages for up to two hours. Lightning struck and killed two cows in Miller (Hand County) and also broke several windows. Lightning struck and burned hay bales and a farmhouse in Hand County was struck by lightning, damaging the roof.									
Brule County	12	0740CST	Short Narrow		0	0	0	0	Tornado (F0)
A tornado briefly touched down 16 miles south of Kimball.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	
<b>— SOUTH DAKOTA</b>									
Beadle County	12	0930-1000CST	-	-	0	0	0	0	High Winds
									Winds twisted up and turned over a burned-out mobile home one mile southwest of Virgil.
Hand, Spink Counties	12	Afternoon Evening	-	-	0	0	3	2	Heavy Rain Lightning
									Rains, up to eight inches, flooded cropland and roads and closed an overpass in Aberdeen (Spink County) for two hours. Lightning struck a home, six miles north of Aberdeen, breaking a ceramic statue, blowing out lightbulbs, burning off insulation and moving a wood burning stove. Another home in Aberdeen was struck by lightning, rupturing a gas line and starting the house siding on fire. Scattered power outages resulted from the lightning.
Minnehaha County	13	1355CST	-	-	0	0	?	?	Hail
									Two inches of hail was reported on the ground 15 miles south of Sioux Falls.
Union County	13	1400-1415CST	-	-	0	0	?	?	Hail, High Winds
									Hail, one and three quarters inches in diameter, accompanied by gusts up to 60 mph, occurred near Elk Point.
Fall River County	16	1440MST	Short Narrow	0	0	0	0	0	Tornado (F0)
									Tornado was reported seven miles south of Oelrichs.
Lawrence County	18	1640-1655MST	-	-	0	0	?	?	Hail
									Hail, three quarters to two and one-half inches in diameter fell just west of Spearfish to Deadwood.
Lawrence County	18	1605MST	-	-	0	0	?	?	Hail
									Hail, up to three-quarters inch in diameter fell between St. Onge and Whitewood.
Pennington County	18	abt 1620MST	short narrow	0	0	0	0	0	Tornado (F0)
									Tornado was spotted seventeen miles northwest of Ellsworth AFB and moved eastsoutheast.
Pennington County	18	1643MST 1716MST	short narrow short narrow	0	0	0	0	0	Tornado (F1) Tornado (F1)
									Two tornadoes occurred consecutively near Ellsworth AFB, the second touching down at the end of the AFB runway. Both tornadoes moved eastsoutheast.
Pennington County	18	1720-1740MST	-	-	0	0	?	?	Hail
									Hail, two to two and one-half inches in diameter, fell between New Underwood and Ellsworth AFB.
Fall River County	19	1620MST	-	-	0	0	0	0	Funnel
									Funnel spotted seven miles southwest of Edgemont.
Fall River County	19	1710MST	12 Narrow	0	0	4	0	0	Tornado (F2) Hail
									A tornado southwest of Oelrichs moved eastsoutheast and into the Nebraska Panhandle. On a farm, six miles south of Oelrichs, some buildings, trees and vehicles were damaged and carried a short distance. Tornado was on the ground for ten minutes and was followed by hail, two and one-half inches in diameter.
Potter County	19	Evening	-	-	0	0	3	0	High Winds
									High winds blew down trees and blew off a barn roof in Gettysburg.
Yankton County	19	2235CST	-	-	0	0	?	?	Hail
									One inch diameter hail fell in Mission Hill.
Hutchinson County	20	0030CST	-	-	0	0	3	0	Lightning
									Lightning struck a pole barn northwest of Freeman, setting a hay bale on fire and damaging a portion of the barn.
Hughes County	20	0130CST	-	-	0	0	5	0	Lightning
									Lightning entered a home through the air conditioning unit, starting a fire and causing severe damage five miles east of Pierre.
Minnehaha County	20	0210CST	-	-	0	0	0	0	High Winds
									81 mph winds reported near Rowena.
<b>— SOUTH DAKOTA</b>									
Minnehaha County	20	0225-0300CST	-	-	0	0	4	0	Lightning
									Lightning struck a home in Brandon, filling it with smoke. Tree branches were knocked down and scattered power outages resulted. In Sioux Falls, seven homes were struck by lightning, damaging a roof, a house and garage, and producing smoke damage to the other homes.
Douglas County	20	0330CST	-	-	0	0	?	0	Lightning
									Lightning knocked out power in Corsica and Armour for nearly four hours.
Union County	20	0335CST	-	-	0	0	?	0	Lightning
									Lightning accompanied by small hail, knocked out power in Alcester.
Brule County	20	Early Morning	-	-	0	0	4	0	High Winds
									High winds in Chamberlain destroyed a greenhouse and interrupted power to sections of the city.
Southeastern Counties	20	Morning	-	-	0	0	4	4	Heavy Rains
									Heavy rains of up to five inches flooded farmlands, basements and streets. Two people in Hudson (Lincoln County) had to be evacuated from their home when a wall collapsed. Water as deep as seven feet flooded homes in Canton (Lincoln County). At Canton, numerous roadways were washed out, with a section of state highway closed, where one to two feet of water covered the highway. Numerous livestock were stranded and three sheep drowned northwest of Lennox (Lincoln County). Crops were damaged and/or washed away and farm machinery was damaged.
Fall River County	20	1800MST	Short Narrow	0	0	3	0	0	Tornado (F0) Hail
									A tornado was reported eleven miles west of Edgemont and dispersed five miles west of Edgemont. Hail, one and three-quarters inches in diameter, followed the tornado. Tree and car damage resulted.
Hughes County	21	0040MST	-	-	0	0	?	?	Hail
									One inch diameter hail reported at Pierre Airport.
Harding County	21	1600MST	-	-	0	0	?	?	Hail
									Three-quarters inch hail reported.
Perkins County	21	1615-1700MST	-	-	0	0	3	4	High Winds Hail
									High winds and hail up to one and three-quarters inches in diameter blew out windows and extensively damaged cropland.
Campbell County	21	1830CST	6	600	0	4	5	0	Tornado (F3)
									A tornado touched down at a resort area one and three-quarters miles west of Pollock. Eleven people fled the southwestern most cabin and crawled under a nearby cabin. The southwest cabin was completely destroyed and the cabin the group crawled under was moved five feet from its concrete block foundation. Four people were treated for injuries. A van, boat and trailer were demolished and a small car was heavily damaged. The tornado turned east and reformed four miles east of Pollock, where it touched down briefly and dissipated at 1910 CST.
Fall River County	21	1831-1930CST	-	-	0	0	?	?	Hail
									Hail, one and three-quarters inches to two and one-half inches, fell from Edgemont to the Wyoming border.
Dewey County	21	1951MST	6	300	0	0	5	2	Tornado (F3)
									A tornado touched down on open prairie three miles northeast of Glad Valley and moved northeast, creating a path of destruction as it progressed. On one farm, two sets of farm buildings (nine in all), one and one-half miles apart, were wiped out and scattered up to two miles away. Trees and poles were uprooted and scattered one-half mile away. A barn was sent hundreds of feet into the air, came crashing down, reducing to a pile of mush. The TV antenna on the farmhouse flipped over and wrapped around a corner of the house, breaking some windows. Four buildings were destroyed on another farm. Along the destruction path, machinery was twisted and scattered, windows were broken, six telephone poles were completely gone, 300-500 trees were uprooted and shredded and seven cattle and three deer killed.
Dewey County	21	2105MST	Short Narrow	0	0	0	0	0	Tornado (F0)
									A tornado was spotted ten miles west of Isabel.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED* DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED* DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

## — SOUTH DAKOTA

Corson County	21	2135-2200MST	-	-	0	0	2	0	High Winds Hail
Tree limbs, a fence and a canopy were downed by high winds in McLaughlin. Hail, one and three-quarters inch in diameter accompanied the wind.									
Corson County	21	2240MST	Short Narrow	0	0	0	0	0	Tornado (F0)
A tornado was spotted six miles southeast of McIntosh.									
Dewey County	21	2320CST	-	-	0	0	0	0	Funnel
Funnel cloud reported ten miles south of Mobridge.									
Campbell County	21	2330MST	Short Narrow	0	0	4	0	0	Tornado (F2)
A tornado, seven miles south of Pollock, damaged several cabin roofs, a restaurant and downed several trees. Boats were tossed in the lake and picnic tables were hurled against cars.									
Aurora County	26	1215CST	1	300	0	0	3	0	Tornado (F1)
A tornado, four miles northeast of Platte, moved east-northeast, damaging a building, tossing a motorcycle across the yard and downing several power lines.									
Northern Hughes and Southern Sully Counties.	26	1230CST	-	-	0	0	?	0	Heavy Rains
Heavy rains of up to eight inches resulted in flooding roads up to 12-18 inches in depth.									
Southeastern Counties	28	Entire Day	-	-	0	0	5	7	Rains, Flooding
Additional rains, compounded with precipitation from previous week, created major flooding from Winner (Tripp County) to Union County. Five to six inches of additional rainfall flooded much cropland and washed out many secondary roads. Hardest hit areas were in Yankton, Clay, Union and southern Lincoln counties. Clay and Union Counties applied for disaster area declaration. At least twelve county roads in Clay County were closed, along with three to four feet of water covering farmland, affecting 145,000 acres in Clay County alone. Rising water carried some hay bales a mile. In Union County, at least thirty percent of the farmland was flooded, with 80,000 acres affected. Five thousand acres were flooded in Turner County. Some livestock were stranded and others were moved to higher ground.									
Lawrence County	30	1500MST	-	-	0	0	3	0	Lightning
Lightning struck a home in Deadwood and started a fire on the second floor, producing moderate damage to one room and smoke and water damage to the entire second story.									
Gregory County	30	Evening	-	-	0	0	3	0	Lightning
Lightning struck a church in Gregory, breaking a window, blowing out bricks on the front wall and destroying the cross atop the church. A panel and beam on the ceiling were scorched.									
Minnehaha and Davison Counties	30	Evening	-	-	0	0	3	0	High Winds
High winds, up to 70 mph, felled trees and caused a TV station in Mitchell (Davison County) to go off the air for several hours. In Dell Rapids (Minnehaha County), high winds felled several trees and skewed a phone booth.									

## 40 TENNESSEE

New Deal Community Sumner County	03	1940CST					4	?	High Wind, Heavy Rains
High winds damaged a couple of roofs and nearly destroyed a large chicken house being used for farm storage. Heavy rains, about 2 inches in 4 hours, caused some flooding which washed out two small bridges and closed 13 others for a while.									
Martin to Dresden	03	2010CST			2	5	5		High Winds, Heavy Rains, Funnel Cloud
High winds and heavy rains accompanying thunderstorms moving across Weakley County in a path from Martin to Dresden roughly along TN 22. Most of the property damage was caused by falling trees, however, the roofs were blown off two empty buildings in downtown Martin. Several store fronts were also damaged by the wind. A funnel cloud was observed by the Martin Police Department. An injury occurred at a drive-in theater where the high wind picked up gravel which broke car windows. One person was injured by the flying glass. A second injury occurred in Martin when a dugout at Wilson Park collapsed. One child was injured in the collapse which was caused by the high wind. Heavy rains were credited with causing considerable damage to crops especially to wheat.									

## — TENNESSEE

Lafayette, Macon County	03	2035CST							? ? Lightning
Lightning was believed responsible for starting a fire in a barn on Cold Springs Road. The barn containing hay was completely destroyed before firemen could bring the fire under control.									
Northern Carroll County	03	?							? ? High Winds
Winds gusting to an estimated 60 MPH accompanied a thunderstorm through McKenzie. Part of a roof was lifted from a house in Hollow Rock.									
Clarksville, Montgomery County	03	2150CST						4	Funnel Clouds, Wind
Two funnel clouds were sighted about 5 miles south of Clarksville. Wind with the thunderstorm caused scattered damage including roof damage to three apartment complexes. Four helicopters were damaged at Fort Campbell when the wind blew them onto their sides. Trees blown down by wind caused power outages and damaged several automobiles.									
Nashville, Davidson County	03	2220CST						? ?	Wind
Thunderstorms produced wind gusts measured to 5 MPH at the Metro Airport. The winds downed some trees and power lines creating power outages to as many as 5,000 homes. A tree fell on a mobile home in the Old Hickory area, and small hail was reported in several locations.									
5 Miles North of Franklin, Williamson County	03	2232CST						? ?	Hail
Pea-size hail was reported by a storm spotter.									
8 Miles Northwest of Pikeville, Bledsoe County	04	0000CST	4	75	0	0	4	5	Tornado (F1)
A tornado touched down in the Bledsoe County State Forest damaging about 1000 acres of trees. A house on the state property was damaged along with a car and truck. Two barns and a tool shed were destroyed, and ten calves were killed in one of the barns.									
New Market, Jefferson County	04	0015CST						5 ?	Flash Flooding
Heavy rains totaling between 3 and 4 inches caused flash flooding especially along Lost Creek. Two families were evacuated as the water rose rapidly. The water in one location rose a foot in 30 minutes. Considerable damage was done to roads throughout the county as the heavy rains washed out paved and gravel roads. In addition to the New Market area, the Chestnut Hill and Strawberry Plains area sustained road damage. Water also flooded a home along Highway 11-E in the New Market area.									
Spring City Rhea County	04	0115CST	20	50	0	0	0	?	Tornado (F1)
A tornado touched down in Rhea County in the Falling Water area and moved northeast passing over parts of Spring City. Tornado damage ended between Spring City and the Tennessee River. An aerial survey by the Civil Defense Director indicated at least 2 microburst tracks between the end of the tornado track and the river. Track varied in width from 100 to 400 feet. No significant structural damage occurred, however, hundreds of wild animals were killed and an estimated 1.5 million board feet of timber was downed.									
Grandview, Rhea County	04	0115CST						? ?	Hail
Three-quarter to one inch hail was reported at the same time that a tornado was occurring south of Grandview.									
Etowah, McMinn County	04	0142CST						? ?	Hail
Pea-size hail was reported by the Etowah Police Department.									
Lafayette, Macon County	04	0325CST						?	Lightning
Lightning struck a tobacco barn on Old Highway 52 starting a fire and leaving a burn pattern on the roof. The fire was contained with damage only to one corner of the barn. The thunderstorm was also accompanied by heavy rains which caused damage to county roads and to several bridges.									
Memphis, Shelby County	14	1450CST						5	Lightning
Lightning was the cause of several house fires in Memphis during a thunderstorm. Winds at the Memphis International Airport gusted to 44 MPH with the thunderstorm.									

41 TEXAS, Northern ————— NO REPORT RECEIVED

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	
<b>41 TEXAS, Southern</b>									
Williamson County	4	2130CST 2145CST	.5	50	0	0	5	?	Tornado (F1) Hailstorm
<p>A small tornado was produced by a severe thunderstorm moving eastward through central Williamson County. The tornado first touched down on the northwest portion of the city of Taylor. Though small, it uprooted trees, destroyed fences and storage buildings and embedded wooden boards in the sides of homes. The tornado moved across the northern portion of the town, narrowly missing the hospital and school. Hail accompanied the tornado, causing extensive damage to windows in buildings and automobiles in the area. Additional damage occurred due to heavy rain as the water poured in the hail-damaged windows. Gardens and vegetation were reportedly stripped.</p>									
Burnet, Llano Counties	5	2300CST			0	0	5	?	Tstm winds
	6	0905CST			0	0	5	?	Hailstorm
<p>A severe thunderstorm that developed in central Llano County moved southeastward across the county into Burnet County. As it approached the county line, it produced strong, damaging winds that struck Buchanan Dam, in Llano County. Trees, automobiles and homes were reportedly damaged. Similar damage was also reported in Granite Shoals and Kingsland, where the strong winds were accompanied by small hail and heavy rain.</p> <p>As the storm moved southeastward, the strong winds continued to cause damage to buildings and vehicles. As the storm approached Marble Falls, the hail size increased to golfball-size. This caused additional damage to windows and roofs as well as to vegetation.</p>									
Real County	6	0900CST			0	0	?	?	Flash Flooding
<p>Heavy rains spread eastward across Real County during the morning hours, producing 2 to 3 inch rains. Brief flash flooding occurred near 0900CST along the upper portion of the Dry Frio from Leakey to near the Uvalde County line. The thunderstorm continued to move east-southeastward into Bandera County and eventually into Bexar County. At times it exhibited radar indications of large hail and high winds, but due to its movement over generally open country, no information is available.</p>									
Southern Texas	6	0930CST- 2000CST			0	0	?	?	Severe Thunderstorm
<p>The following accounts detail an outbreak of severe weather caused by a supercell thunderstorm that developed along an unusually well-defined late season cold front. As the front moved southward through South Texas, the thunderstorm continued along it, moving toward the southeast. During the episode, it produced a wide range of severe weather, including damaging winds, large hail, flash flooding and at least three tornadoes. The storm developed in Val Verde County in the vicinity of Juno about 0700CST.</p>									
Val Verde County	6	0930CST			0	0	?	?	Flash Flooding
<p>Moving southeastward across the northern portion of Val Verde County the storm produced 1.5 to 2 inch rains that caused a rapid rise on the Devil's River near Juno, flooding S.H. 163 briefly.</p>									
Uvalde County	6	1005CST			0	0	5	?	Hailstorm
<p>The storm crossed southwestern Edwards County, entering northwest Kinney County near 0830CST. No severe reports were received as the storm cleared Val Verde, Edwards and Kinney Counties, as the storm moved across sparsely populated portions of the counties.</p> <p>The thunderstorm entered western Uvalde County about 0915CST, again tracking over a relatively unpopulated area. The first report of severe weather was received from the public 9 miles southwest of the city of Uvalde where hail up to golfball-size fell just after 1000CST. The hail completely covered the ground. Considerable damage was caused to vehicles, outbuildings and to vegetation in the area.</p>									
Zavala County	6	1020- 1120CST 1050CST			0	0	5	6	Hailstorm Tstm winds
<p>The thunderstorms moved southeastward into Zavala County near the Uvalde County line near 1015CST. About 1020CST large hail was produced by the storm just southeast of the county line. The hail fell in an area from Batesville to Crystal City to FM 117 and the county line.</p> <p>Damaging winds were reported in Crystal City just before 1100CST, with large hail beginning to fall near 1100CST. The winds blew over sheds and caused minor damage to buildings. The hail was reported to be as large as baseballs in Crystal City and as large as tennis balls in Batesville. Damage was reported to be heavy to corn and cotton crops to the north and west of Crystal City.</p>									
<b>TEXAS, Southern</b>									
Frio County	6	1130CST	1	600	0	0	4	0	Tornado (F1)
<p>The severe storm entered Frio County near 1100CST. As it moved through open country, it is not known if severe weather occurred.</p> <p>Continuing into south central Frio County near 1130CST, it produced a small tornado that touched down just north of Derby. The tornado left a path approximately .3 miles wide and one mile long that ran from northwest to southeast. The tornado destroyed a windmill and snapped several power lines. It was preceded by very heavy rain and pea-sized hail. Small hail and heavy rain were reported in Dilley as the storm continued moving southeast.</p>									
La Salle County	6	1140CST 1145CST- 1230CST			0	0	6	5	Tstm winds Hailstorm
<p>The storm entered northwest La Salle County near 1130CST and moved just northeast of the city of Cotulla. Damaging winds preceding the storm struck the Cotulla airport near 1140CST where wind gusts to 64 mph were recorded before hail up to baseball-size destroyed the anemometer. Hail was also reported to the north and east of the city of Cotulla where tennis ball to baseball-sized hail fell.</p> <p>At the Cotulla airport, the hail was propelled by the wind sufficiently to damage the metal walls of several buildings as well as knock holes in the metal roof of one building. Five aircraft suffered severe damage in the form of cracked canopies, skin perforations, etc. The combination of wind and hail also killed a large number of wild animals in the area.</p> <p>As the storm moved southeastward, occasional large hail continued to be produced. Los Angeles, to the east of Cotulla, reported golfball- to tennisball-sized hail. Large hail that broke car windows was reported in the rural portion of southeast La Salle County. Considerable damage was indicated over much of La Salle County to vehicles and buildings, as well as to crops. In addition to hail and high winds, brief heavy rains also occurred.</p> <p>The storm continued its southeastward track into central McMullen County entering near noon CST, producing 2 to 3-inch rains between Tilden and Callihan between 1215CST and 1245CST. No flooding, however, was indicated in this remote section of the county.</p>									
Duval County	6	1250CST	.3	30	0	0	5	0	Tornado (F1)
<p>The storm entered Duval County about 1230CST, passing north of the town of Freer. At approximately 1250CST, it produced a small tornado 14 miles north of Freer. The tornado damaged several houses in its short path, then lifted and disappeared. No further information was available on severe weather in Duval County.</p>									
Jim Wells County	6	1320CST 1320CST- 1345CST			0	0	4	4	Tstm winds Hailstorm
<p>The storm entered Jim Wells County just after 1300CST. Widespread reports of damaging winds and large hail were received as it continued southeastward. The most severe damage appears to have occurred as the storm moved over the city of Alice.</p> <p>In a 7-mile by 7-mile square whose southeast edge fell just southwest of Alice, the combination of tennisball-sized hail and winds near 50 mph destroyed a major portion of mile, sorghum, corn and watermelon crops. In some locations, destruction was total. Although hail size was not specified, the hail was large enough to damage vehicle windows and bodies, break building windows and strip vegetation. Nearly 10,000 acres were badly damaged.</p>									
Kleberg, Nueces Counties	6	1430CST 1430CST			0	0	4	5	Tstm winds Hailstorm
<p>The track of the severe thunderstorm carried it into southwestern Nueces and northwestern Kleberg Counties about 1400CST. The next reports of severe weather came from the cities of Kingsville and Bishop as damaging winds and large hail struck simultaneously near 1430CST.</p> <p>Although no details were available on the areal extent of damage or of the size of hail or speed of winds, estimates indicate that between \$100,000 and \$150,000 damage was caused to automobiles by the combination of wind and hail in just the Kingsville-Bishop area alone. Damage was also reported to over 600 homes in the area, with crop losses estimated at over 1.5 million dollars.</p> <p>This was the last report of severe weather from the thunderstorm, as it moved southeastward into eastern Kleberg and extreme northern Kennedy Counties from 1500CST to 1530CST, then disappeared into the Gulf of Mexico.</p>									
Bee County	6	1225 CST	.3	20	0	0	0	0	Tornado (FO)
<p>A small tornado was observed by Department of Public Safety personnel as it moved eastward very briefly. It touched down west of Skidmore, snapped several telephone poles, then disappeared.</p>									
Aransas County	6	1400CST 1405CST 1407CST	.3	20	0	0	0	0	Waterspout Waterspout Waterspout
<p>Three small and short-lived waterspouts were observed just off shore near Rockport. No movement was indicated.</p>									



# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

## — TEXAS, Southern

Webb County	6	1430CST			0	0	?	?	Tstm winds
Wind gusts to 67 mph were recorded at Laredo International Airport as a severe thunderstorm moved southeastward through Webb County. No damage information was available.									
Victoria County	6	1500CST			0	0	0	0	Funnel
A funnel was visible briefly near Nursery.									
Starr County	6	1630CST			1	0	0	0	Lightning
A man was struck by lightning and killed in northern Starr County near the Jim Hogg County line. He had driven his pickup to the top of a hill to watch for fellow workers, and had climbed on top of a steel container in the bed of the pickup when he was struck.									
Starr County	6	1715CST			0	0	0	0	Funnel
A funnel was observed briefly near Rio Grande City.									
Hidalgo County	6	1725CST			0	0	6	?	Tstm winds
		1725CST			0	0	6	6	Hailstorm
The strong thunderstorms entered northwestern Hidalgo County about 1715CST, with winds of 45 to 50 mph being reported in McCook near 1725CST. Wind gusts to 50 mph were reported near 1740CST at Edinburg, followed by heavy rain and baseball-sized hail. The strong winds blew down a tower at Weslaco. Four-inch rains in the Weslaco area were also responsible for the collapse of a store roof. Considerable damage was reported to corn and sorghum crops over the southern half of the county.									
Cameron County	6	1830CST			0	0	?	?	Tstm winds
Damaging winds continued across much of Cameron County as the thunderstorms entered near 1830CST. Power lines were knocked down in the Harlingen area at 1843CST and the Coast Guard station at South Padre Island reported wind gusts to 60 mph. No further severe weather was reported in this outbreak after 1900CST.									
Val Verde County	6	1950CST			0	0	0	0	Tstm winds
A severe thunderstorm produced winds gusting to 60 mph along with small hail near Comstock. The storm was moving toward the southeast. Damage was not indicated.									
Bandera, Bexar Counties	14	1925CST			0	0	?	?	Tstm winds
Damaging winds were reported near 1925CST across much of eastern Bandera County and northwestern Bexar County. Damage was generally to vegetation and to windows of buildings and vehicles. Wind measurements were not available.									
Val Verde County	15	0700CST			0	0	?	?	Flash Flooding
Thunderstorms moving eastward over the northern portion of Val Verde County produced 1 to 2 inch rains in the Juno area in less than one hour. That was sufficient to cause the Dry Fork of the Devil's River to flood, closing off S.H. 163 briefly.									
Edwards County	15	0755CST			0	0	?	?	Flash Flooding
Slow moving thunderstorms produced general 1 to 2-inch rains over Edwards County with isolated heavier amounts. More than 6 inches fell in the Rocksprings area during the early morning hours, causing a short-lived flood along the Llano River from Rocksprings to U.S. 377.									
Kinney County	15	0900CST			0	0	?	?	Flash Flooding
Flash flooding developed near 0900CST as general 1 to 2-inch rains fell over the county, with nearly 4 inches reported in the Brackettville area. Flooding developed along Pinto Creek and Elm Creek with a minor rise in the West Fork of the Nueces River.									
San Patricio	15	1700CST			0	0	0	0	Funnel
		1705CST			0	0	0	0	Funnel
Two funnel clouds were observed in San Patricio County. The first was near Sinton, the second was near Portland. Both were moving southeast at 5 mph.									
Nueces County	16	0824CST			0	0	0	0	Waterspout
A waterspout was visible briefly an estimated 7 miles east of Corpus Naval Air Station.									
Willacy County	16	0900CST			0	0	0	0	Funnel
A funnel was observed just north of Port Mansfield.									
Refugio County	16	0910CST			0	0	0	0	Waterspout
A waterspout was observed just offshore near Bayside.									
Calhoun County	16	1030CST			0	0	0	0	Waterspout
		1035CST			0	0	0	0	Waterspout
Two small waterspouts developed on Green Lake in northwestern Calhoun County.									

## — TEXAS, Southern

Nueces County	16	1045CST			0	0	0	0	Funnel
A small funnel was sighted in Corpus Christi.									
Calhoun County	16	1230CST			0	0	0	0	Funnel
		1232CST			0	0	0	0	Funnel
		1238CST			0	0	0	0	Funnel
A series of three small funnels developed in Calhoun County. The first formed near the Port O'Connor Coast Guard Station. The second was over Seadrift and the third near Green Lake.									
Harris County	16	1540CST			0	0	?	?	Flash Flooding
Brief, but intense, 2 to 3-inch rains in the Houston area caused minor flash flooding of streets and streams in the city. The flooding lasted about two hours.									
Atascosa County	16	1650CST			0	0	5	?	Tstm Winds
		1705CST			0	0	?	?	Flash Flooding
A severe thunderstorm struck Jourdanton near 1700CST with damaging winds. No estimate was available of the wind speed, but it blew over mobile homes, uprooted trees and caused extensive damage to buildings and vehicles in Jourdanton. In addition, 2 to 3-inch rains from central Atascosa County eastward across the county caused flooding south of Pearsantown, from Jourdanton to near McCoy.									
Victoria County	17	0350CST			0	0	?	?	Flash Flooding
2 to 3-inch rains fell north of the city of Victoria, causing a rapid rise on the Guadalupe River. The river flooded portions of the city of Victoria, with water reported to be 6 to 8 inches deep in some of the downtown streets.									
Nueces County	22	1040CST			0	0	0	0	Funnel
A funnel was observed in Corpus Christi.									
Jefferson County	24	0825CST			0	0	0	0	Waterspout
A waterspout was first reported just southwest of Sabine Pass. It was last seen from Sea Rim State Park at 0831CST.									
Galveston County	25	0508CST			0	0	0	0	Funnel
A small funnel was observed south of Galveston Island moving toward the north.									
Galveston County	25	1125CST			0	0	0	0	Funnels
Two small funnels were spotted just off West Galveston Island.									
San Patricio County	26	1840CST			0	0	0	0	Funnels
Three small funnels were reported near Portland.									
Bandera County	28	0400CST			0	0	?	?	Tstm Winds
A strong thunderstorm that developed in Real County moved eastward into Bandera County. Shortly after crossing the county line, it produced a strong outflow of wind that was estimated in Vanderpool at near 70 mph. The wind destroyed trees, damaged roofs and windows in buildings and damaged automobiles in the Vanderpool area.									
Galveston County	28	0820CST			0	0	0	0	Funnels
Two funnels were observed in Galveston County. One was just east of the city of Galveston, the other was over West Galveston Bay.									

## 41 TEXAS, Western

Coahoma, Howard County	04	1451CST			0	0	0	0	Hail
Golfball-sized hail hit open country a few miles east of Coahoma. No damage found.									
Lubbock, Lubbock County	04	1535CST			0	0	2	0	Hail
Golfball-sized hail in the northwest part of Lubbock caused little damage; mainly to trees.									
San Angelo, Tom Green County	04	1545CST			0	0	?	0	Wind
Wind gusts to 69 mph hit the San Angelo Airport and surrounding areas. Damage unknown.									
Wolfforth, Lubbock County	04	1545CST	2	200	0	0	2	0	Tornado (F0)
A tornado between FM 1580 and FM 179, reported by the Department of Public Safety, moved north and lifted before reaching Wolfforth. Little or no damage.									
San Angelo, Tom Green County	04	1555CST			0	0	?	0	Hail
Golfball-sized hail hit Grape Creek; a suburb of San Angelo. Damage unknown.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS	
<b>TEXAS, Western</b>									
San Angelo, Tom Green County	04	1600CST			0	0	0	0	Funnel
			A funnel cloud appeared 15 miles northwest of San Angelo according to the Department of Public Safety.						
Canyon, Randall County	04	1600CST			0	0	0	0	Hail
			Hail up to 3/4 inch fell in open country about 13 miles northeast of Canyon. No damage.						
Brownfield, Terry County	04	1600CST			0	0	0	0	Hail
			Golfball-sized hail fell 10 miles east of Brownfield. No damage noted.						
San Angelo, Tom Green County	04	1609CST			0	0	?	0	Hail
			Golfball-sized hail fell in east San Angelo. No damage reported.						
Canyon, Randall County	04	1610CST			0	0	0	0	Hail
			Golfball-sized hail fell at Lake Tanglewood located about 20 miles northeast of Canyon. No damage reported.						
Amarillo, Randall County	04	1626CST			0	0	?	0	Hail
			Hail, greater than 3/4 inch, fell in southwest Amarillo. No damage reported.						
Lubbock, Lubbock County	04	1630CST			0	0	?	0	Hail
			The public reported golfball-sized hail in the City of Lubbock. Found no damage.						
San Angelo, Tom Green County	04	1630CST			0	0	?	0	Hail
			Golfball-sized hail again in Grape Creek; a suburb of San Angelo. No damage reported.						
Monahans, Ward County	04	1637CST			0	0	?	0	Hail
			Monahans radio station reported ping pong ball-sized hail, but no damage.						
Pantex, Carson County	04	1700CST			0	0	0	0	Hail
			3/4 inch hail fell near Pantex. No damage.						
Dalhart, Dallam County	04	1725CST			0	0	?	0	Wind
			Wind gusts to 60 mph raised considerable blowing dust. The dust spread over a wide area. No damage reported.						
White Deer, Carson County	04	1730CST			0	0	?	0	Hail
			Golfball-sized hail fell in White Deer. No damage noted.						
Skellytown, Carson County	04	1740CST			0	0	?	0	Hail
			Golf- to softball-sized hail fell in Skellytown. Damage unknown.						
Perryton, Ochiltree County	04	1930CST			0	0	0	0	Hail
			Golfball-sized hail fell a short distance west of Perryton. It caused no damage.						
Waka, Ochiltree County	04	2000CST			0	0	?	0	Hail
			Golfball-sized hail fell near Waka. No damage.						
Quail Valley, Tom Green County	04	2100CST			0	0	4	0	Wind
			Very strong winds damaged roofs and windows in Quail Valley. Two mobile homes were blown over. Estimated damage less than \$10,000.						
Muleshoe, Bailey County	07	1905CST			0	0	2	0	Hail
			Golfball-sized hail fell in Muleshoe. Damage was small.						
Whitharral, Hockley County	07	2110CST			0	0	?	0	Hail
			Golfball-sized hail fell in the Whitharral area. No signs of damage.						
Levelland, Hockley County	07	2115CST			0	0	2	0	Wind
			Strong and very gusty wind, possibly in excess of 60 mph, toppled power poles 2 miles west of Levelland. This happened during thunderstorm activity. Damage was light.						
Bovina, Farmer County	07	2245CST	1/3	60	0	0	4	0	Tornado (F1)
			A brief tornado at Bovina blew over a building and damaged trees.						
Farwell, Farmer County	08	1834CST	1/3	60	0	0	0	0	Tornado (F0)
			A tornado touched down briefly just north of Farwell. No damage.						

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					KILLED	INURED	PROPERTY	CROPS	
<b>TEXAS, Western</b>									
Muleshoe, Bailey County	08	1915CST	1/2	100	0	0	?	0	Tornado (F1)
			A tornado 5 miles northwest of Muleshoe was confirmed by storm spotters. No damage reported.						
Muleshoe, Bailey County	08	1915CST			0	0	2	0	Wind
			Strong and gusty winds near tornadic clouds and large hail broke tree limbs and caused other minor damage.						
Sudan, Lamb County	08	1930CST	1/3	70	0	0	0	0	Tornado (F0)
			A small tornado hit near Sudan. No damage noted.						
Littlefield, Lamb County	08	2025CST	1/4	70	0	0	0	0	Tornado (F0)
			A tornado 5 miles north of Littlefield was reported by the Sheriff's Office. No damage reported.						
Shallowater, Lubbock County	08	2055CST	?	?	0	0	?	?	Tornado (F1)
			The Shallowater Police reported the tornado 7 miles west of Shallowater next to the county line.						
			According to Tim Marshall, member of the Texas Tech Storm Intercept Team, the tornado was several miles west of Shallowater between 2050CST to 2100CST. The tornado appeared from the southern periphery of an extensive wall cloud. The storm was a supercell thunderstorm with the heaviest precipitation to the west and southwest of the tornado. A well developed inflow band was observed extending east from the ambient base. Lightning was really continuous and striations could be seen on the east side of the updraft.						
			Then Tim observed about 2110CST to 2120CST that the storm appeared to "gust out" very rapidly near Reese AFB. No tornado was observed there and appeared that damage caused there may have been attributed to a downburst. The updraft was reduced to 1/2 its size between Shallowater and Reese.						
			The following day the local newspaper carried pictures of mounds of hail at and around Reese. Damage was extensive.						
Gail, Borden County	08	2122CST	1/3	50	0	0	0	0	Tornado (F0)
			The Lamesa Police Department reported a tornado 14 miles northwest of Gail. The tornado was in open country. No damage.						
O'Donnell, Lynn County	08	2200CST			0	0	?	0	Hail
			Golfball-sized hail hit about 15 miles northeast of O'Donnell. No damage reported.						
O'Donnell, Lynn County	08	2215CST			0	0	0	0	Hail
			The public reported golfball-sized hail 15 miles northwest of O'Donnell. No damage.						
Lubbock, Lubbock County	08	2250CST to 2257CST			0	0	3	0	Hail
			Numerous reports of golfball-sized hail in the western parts of Lubbock reached the Weather Office within a short time. Light damage to trees and buildings.						
Reese AFB, Lubbock County	08	Late night thru 09 early morning			0	0	6	0	Hail
			Severe weather wind, accompanying the outbreak of tornadoes Wednesday night and early Thursday morning, caused considerable damage to air force airplanes and to buildings and mobile homes around Reese AFB. Hail up to marble size accompanied the strong winds, pelting hard everything on its way. The wind gusts were as high as 65 mph.						
Stinnett, Hutchinson County	09	2110CST			0	0	?	0	Hail
			Golfball-sized hail fell in Stinnett but no damage was reported.						
Booker, Lipscomb County	09	2154CST			0	0	?	0	Hail
			Golfball-sized hail covered the ground at Booker. Damage unknown.						
Fritch, Hutchinson County	09	2245CST	?	?	1	1	4	0	Tornado (F1)
			Shortly after 2245CST a tornado hit Lake Meredith Harbor, 1 1/2 miles northwest of Fritch. There was 1 fatality and 1 injury in a destroyed mobile home (double wide 28 x 80 ft.). Another mobile home was pulled off its tie downs and destroyed. A house roof was blown off, a camp trailer and an out building were also destroyed.						
Sanford, Hutchinson County	09	2300CST	?	?	0	0	5	0	Tornado (F1)
			A tornado touched down and destroyed a mobile home and several sheds at Sanford, 5 miles northeast of Fritch.						

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	

**TEXAS, Western**

Canadian, Hemphill County	10	1405CST			0	0	?	0	Hail
The Canadian Sheriff's Office reported golfball-sized hail in Canadian. Damage unknown.									
Sherman and Hansford Counties	10	2245CST	1/4	70	0	0	0	0	Tornado (F0)
A tornado moved south along the Sherman and Hansford County Line. No damage reported.									
Pampa, Gray County	11	0010CST	?	?	0	0	5	0	Tornado (F1)
Shortly after midnight a tornado unroofed a store in downtown Pampa, blew windows out, broke trees and damaged two pickup trucks. A steel lamp pole apparently was unscrewed from base and hurled to the ground.									
Miami, Roberts County	11	0015CST	1/4	70	0	0	4	0	Tornado (F0)
A tornado, 7 miles west of Miami, moved a short distance southeast before lifting. Apparently, no damage.									
New Deal, Lubbock County	11	1830CST			0	0	?	0	Hail
Golfball-sized hail fell about 6 miles north of New Deal. No damage reported.									
Slide, Lubbock County	11	1900CST			0	0	?	0	Hail
The Department of Public Safety reported golfball-sized hail in Slide. Damage unknown.									
New Home, Lynn County	11	2000CST			0	0	?	0	Hail
Baseball-sized hail and smaller fell in New Home. Much damage to property but was unable to obtain loss estimate.									
Perryton, Ochiltree County	13	1450CST	1/3	80	0	0	?	0	Tornado (F0)
A tornado was sighted 5 miles north of Perryton. No damage reported.									
Tom Green, Irion and Schleicher Counties	15	1010CST			0	0	2	0	Flash Flood
Very heavy rain, ranging from 4 to 5 inches, fell in northwestern Schleicher County on headwaters of Dove Creek. It formed a 12 foot wall of water. The Sheriff's Office in Irion County reported Highway 915 impassable. The flash flood fell rapidly shortly after 1100CST.									
Rankin, Upton County	24	1220CST	0	50	0	0	0	0	Tornado (F0)
A tornado touched down briefly 23 miles north of Rankin. No damage noted.									
Guthrie, King County	26	1430CST			0	0	0	0	Hail
Golfball-sized hail fell a few miles northwest of Guthrie. No damage noted.									
Girard, Kent County	26	1500CST			0	0	0	0	Hail
Golfball-sized hail hit the Kent-Stonewall County Line. No damage reported.									
Hemphill County	27	0915CST			0	0	3	0	Wind
Wind gusts to 50 to 60 mph blew down trees along Highways 60 and 83									
Lipscomb, Lipscomb County	27	0930CST			0	0	?	0	Hail
Golfball-sized hail fell at Lipscomb. No damage reported.									
Spearman, Hansford County	27	1900CST			0	0	0	0	Funnel
A funnel cloud north of Spearman was reported by the Spearman Police Department.									
San Angelo, Tom Green County	28	0119CST			0	0	?	0	Wind and Rain
Torrential rain along with 60 mph wind hit the San Angelo Airport. Damage, if any, not estimated.									
Slaton, Lubbock County	30	2024CST			0	0	?	0	Wind
Severe thunderstorm wind hit Slaton producing fairly heavy damage. Damage estimates unknown.									

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					KILLED	INJURED	PROPERTY	CROPS	

**42 UTAH**

Wayne County	12	1400MST			0	0	0	0	Hail
A thunderstorm left a well defined strip of hail on the ground along highway 95 south of Hanksville. The hail was from 1/2 inch to 3/4 of an inch in diameter and 1 to 1/2 inches deep. The ground was covered over an area approximately 2 to 3 miles wide and 5 miles long.									
Beaver, Cache, Carbon, Davis, Duchesne, Garfield, Iron, Juab, Millard, Morgan, Rich, Salt Lake, San Juan, San Pete, Sevier, Summit, Tooele, Uintah, Utah, Washington, and Weber counties	May and June				0	unkwn	8	8	Floods and Mudslides
A widespread flooding episode which included numerous damaging mudslides occurred over a period of several months, and concluded for the most part during the month of June. This resulted in 21 Utah counties being declared Federal Disaster Areas. Conditions for flooding were set up as early as the fall of 1982 when record precipitation over the northern mountains of Utah began what was to be a greater than normal snowpack and saturated the surface over a large area. Cool, wet, spring weather did not allow the melt down cycle to begin as early as usual. Then a sudden warming period during the middle of May caused large amounts of water to release from the snowpack over a short period of time.									
Following is a review of some of the damage caused by the flooding, and is not intended to be an exhaustive listing of all damage.									
As early as February agricultural area adjoining the Jordan River were being flooded. Utah Lake began to engulf the Utah Lake State Park by the 25th of February. Then March arrived and produced more rainfall than any other March on record. The Sevier and San Pitch rivers in the southern portion of the area began to cause some problems with roadways and pasture lands and additional agricultural land. Then on April 12 a large mudslide formed a natural dam across the Spanish Fork River causing a lake to form over the small town of Thistle. By April 18 the town was completely covered with water.									
During late April and early May additional minor flooding occurred in many locations across Utah. Two bridges had to be removed which crossed the Salt Creek in Juab County because of flooding on the 10th of May. On the 17th, a mudslide in Weber Canyon covered two tion Pacific railroad mainline tracks. The danger of mudslides all along the Wasatch Front had reached a high level by this time.									
Another mudslide occurred in 12 Mile Canyon south of Manti, closing the road and causing a flash flood on the 23rd. On the 24th Hobbie Creek in southern Utah County left its banks, flooding more farm land and railroad lines. Also on the 24th, water began to flow over the spillway at Mona Lake and at Utah Lake.									
On the 25th, flooding began in earnest in the Salt Lake City area. Creeks in Centerville began to over flow their banks and on the 26th, 13th South street in Salt Lake City was sandbagged and turned into a water channel for flood control purposes. Culinary water was cutoff in Nephi and farm land were threatened in Beaver County. A mudslide closed Little Cottonwood Canyon and Red Butte Creek contaminated the water supply for Fort Douglas. A small slide occurred in the Tanners Flat area of Big Cottonwood Canyon.									
It was at this time that flooding began in the Memory Grove section of Salt Lake City. By the 28th, this flooding increased to the level that State Street through downtown Salt Lake City had to be diked to form a river bed for the excess water. City Creek normally runs underground through downtown to the Jordan River. In the mean time all of the seven major creeks in the Salt Lake City area were at flood stage.									
Over 100 nursing home residents were evacuated as Mill Creek in Bountiful overflowed its banks overflowed its banks and crashed into buildings. Also in Bountiful, a hole 60 feet wide was cut into Lakeview Drive by Mill Creek flood waters.									
In Centerville on the 28th of may, flooding from Banard and Ricks creeks did additional damage to lakeview Drive and broke several sewer lines in Bountiful. Homes and businesses along Stone Creek were flooded. Further south the Sevier River was flooding more farm land in Millard County. Culinary water lines in Fairview in San Pete County were broken by flooding, completely shutting down the drinking water system of that town.									
On the 29th of May, flood waters forced workers to turn North Temple Street in Salt lake City into a river as water from City Creek continued to rise. Big Cottonwood Canyon was closed by a mudslide across the road. U.S. highway 89 from Willard Bay to Perry was also closed by a slide and a slide on Bigler Creek took out 30 yards of roadway in Farmington Canyon in Davis County.									
On the 30th of May a 20 foot high, 1 mile wide, 1 and 1/2 mile long mudslide descended on the town of Farmington, destroying homes and forcing hundreds of persons to evacuate. At the same time a mudslide in Fairview Canyon forced the closure of Utah Highway 31 and the evacuation of the entire town of Fairview. The water supply for the town of Draper was contaminated by a mudslide and Fort Buenaventura State Park was flooded as well as the Sugar House Park area of Salt Lake City. Traffic backed up for 100 miles along Interstate Highway 15 and U.S. 89 as flood waters slowed holiday traffic to a crawl between Payson and Salina. In Duchesne County, 75 fishermen were stranded at the confluence of the Duchesne River and Red Creek due to washed out roads. Also in the northeast, the culinary water supply for the town of Vernal was contaminated by high water.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

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					KILLED	INJURED	PROPERTY	CROPS	
<b>UTAH</b>									
									<p>On the 31st of May, flooding continued, causing severe traffic jams in downtown Salt Lake City due to the closure of State Street and 13th South. In Murray, 300 residents of the Cottonwood Cove mobile home park were forced to evacuate as Big Cottonwood Canyon overflowed in that area. Also on the 31st, the Sevier River overflowed its banks east of Richfield and extended 2 miles across for a time, closing roads which ran from Richfield to Monroe and Joseph. The Piute Reservoir in Sevier County began to overflow its dam. A small mudslide forced the closure of American Fork Canyon, and the town of Annabella was virtually isolated by washed out bridges on both sides of town.</p> <p>Meanwhile north of Salt Lake City, a second mudslide in Farmington demolished more homes and damaged others, forcing the evacuation of many residents. In Bountiful, water and mud cascaded down Stone Barton and Mill creeks, forcing the evacuation of many more.</p> <p>Also in the month of May, eight Iron County bridges were washed out by flooded North Creek and Bear River. Most of the accessible canyons on the west slopes of the Manti Lasal Mountains were closed by slides.</p> <p>The beginning of June did not bring much improvement as a 25 foot wall of water rushed out of Stone Creek in Bountiful, forcing the evacuation of hundreds of families on the first. The Fruit Heights area was also evacuated because of slide threat. Water from Chalk Creek was channeled down Main Street in Coalville with sand bags and several families had to be evacuated.</p> <p>On the 2nd of June a larger slide, 120 yards long, moved down the mountain closing East Canyon, east of Salt Lake City. Water began spilling over the Wanship Dam, in Zion National Park a 200 foot high wall of mud slipped onto the highway near the Zion Overlook.</p> <p>On the 4th of June, the State Street River in Salt Lake City was extended southward to 9th South Street. On the 7th a large mudslide started moving down Cold Water Creek in North Ogden. The next day a surge of water spilled from this feature forcing the evacuations in that area.</p> <p>On the 10th, Little Cottonwood Creek in Salt Lake City, began flooding buildings between I-15 and 48th South in Salt Lake City. In the northeast, heavy rains added to the high runoff in Ashley and Dry Fork creeks, prompting a flash flood warning and evacuation of a few homes.</p> <p>The rising Bear River damaged some homes in the Randolph-Woodruff area on the 13th. On the 17th the Great Salt Lake had risen a record 5 1/2 inches during the previous two weeks. On the 22nd, moon Lake in Duchesne County started pouring over its spillway washing out a state highway and threatening bridges.</p> <p>On the 23rd, the D.M.A.D. Dam burst after being filled to twice its capacity from the runoff. The resulting flood wave moved down the Sevier River toward the Gunnison Reservoir. The reservoir was breached, and the towns of Oasis and Deseret were inundated by 3 to 5 feet of flood water several hours later. 140 structures were damaged in these two towns.</p> <p>Final estimates put property damage over 250 million dollars and crop damage over 100 million dollars.</p>
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<b>43 VERMONT</b>									
Hubbardsville	17	1745EST			0	0	3	0	Thunderstorm
									A thunderstorm struck the village of Hubbardsville in Madison County, Vermont. Damage consisted of downed tree limbs and power lines.
Lyndonville Caledonia County	17	1745EST			0	0	3	0	Thunderstorm
									Thunderstorms rumbled across Caledonia County Friday night. Lightning caused an electrical spike to carry over transmission lines causing damage to electrical equipment. Local power lines and trees also fell to wind and lightning. In one case a bolt from a nearby railroad track was picked up by the wind and blown through a home and came to rest in a concrete wall on the other side. Some hail about marble size was also reported.
Quechee, Windsor County	25	0500EST			0	3	4	°C	Thunderstorm, Hail
									Hail one inch in diameter stopped a hot air balloon event in the village of Quechee. Two balloonists and a spectator were injured as the balloons had to make emergency landings. Other aircraft in the area suffered some minor damage while they were on display. In some areas hail was several inches deep.
Cornwall, Addison County	25	0500EST			0	0	0	4	Hail
									A three minute hail storm in Cornwall caused extensive damage to over 500 acres of apple crops. Local crop growers reported that this was the worst storm in 10 years.
<b>44 VIRGINIA</b>									
Southwestern	3	1800 -1900EST			0	0	4	0	Wind
									Thunderstorms with strong gusty winds caused widespread tree damage and some property loss.
Northern	6	1500 -1600EST			0	0	3	4	Hail, Wind
									Strong winds caused local tree damage and downed power lines in the Berryville area. Near Upperville, northern Fauquier County, hail caused extensive damage to grain crops.
Monterey, Highland County	14	NFR			0	0	3	0	Lightning
									A bolt of lightning struck the chimney of a high school, badly damaging it.
Bedford and Franklin Counties	14	Late Afternoon			0	0	4	0	Lightning, Wind
									Winds brought trees down and disrupted power over portions of Franklin County. Near Huddleston, Bedford County, lightning apparently struck a clump of trees, killing 25 cows standing nearby.
Bath and Allegheny Counties	16	Afternoon- Evening			0	0	3	0	Wind
									Damage to power lines resulted in electrical service being interrupted for up to 15 hours in some localities.
Frederick and Rockingham Counties	17	1700 -1845EST			0	0	4	0	Wind, Rain
									Some property damage and minor flooding occurred in Harrisonburg. Heaviest damage occurred in the Winchester area with many trees and power lines affected, along with roof damage to several homes.
Northern	20	Afternoon- Evening			0	0	4	0	Wind
									Thunderstorm swept eastward beginning in the Lexington area, where trees were downed. In Louisa County up to 4 inches of rain was reported, trees blown down and a camper overturned. Minor wind and rain damage was later reported in Alexandria.
Clarkeville	29	1430EST			0	0	3	0	Wind
									Fallen trees blocked roads, and some property damage was reported as winds reached 50 mph.
<b>45 WASHINGTON</b>									
Mount Vernon Skagit County	11	1505 PST			0	0	0	0	Funnel Cloud
									Funnel cloud was sighted by several people in the area. It dissipated within a few minutes without causing damage or injuries.
<b>46 WEST VIRGINIA</b>									
Webster County	17	1730EST			0	0	5°	C	Heavy Rain, Flash Flooding
									Approximately 4 1/2 inches of rain fell over Webster County causing flooding along the Williams River between Webster Springs and Cowan and at Camp Ceaser. Damage was reported to numerous homes, roadways, highways, and farms. Damage at Camp Ceaser was estimated by the camp to be \$50,000. Some farm animals were washed away and killed.
Webster Springs in Webster County	18	1630EST			0	0	2	0	Wind
									High winds accompanying a thunderstorm broke several telephone poles in half in Webster Springs.
Belmont in Pleasants County	30	Evening			0	1	4	0	Wind
									High winds during a thunderstorm destroyed several buildings in Belmont. Roofs were ripped off causing injury to one man. A 12-passenger vehicle was lifted off the ground and landed on the metal roof blown from a nearby building.
<b>47 WISCONSIN</b>									
Merrill, Lincoln County	3	1930CST							Funnel cloud
									Funnel cloud sighted by the public 3 miles west of Merrill. No damage reported.
Baraboo, Sauk County	10	1700CST			0	0	0	0	Hail
									One inch hail was reported west of Baraboo. No damage reported.

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					KILLED	INJURED	PROPERTY	CROPS	

**— WISCONSIN**

Eastern Wisconsin	14	1200-1800CST	0	0	5	?	?	?	Funnel cloud, hail, severe thunderstorms
<p>A line of very heavy thunderstorms extending from Northern to Southern Wisconsin moved through Eastern Wisconsin during the afternoon. Lightning started a barn fire near Fort Atkinson, Jefferson County. A two-story house under construction was demolished by straight-line winds near Freedom, Outagamie County. Lightning also struck a home in Ixonia, Jefferson County starting a fire that gutted the basement. Winds gusting to 60mph were reported at Fond du Lac, Fond du Lac County and at Omro, Winnebago County. Golf ball size hail was also reported at Omro. A funnel cloud was spotted 2 miles northwest of the City of Shawano, Shawano County.</p> <p>There were reports of widespread tree damage, power lines and signs down throughout Eastern Wisconsin. Several vehicles were damaged or crushed by falling trees.</p>									
Northern Wisconsin	15	1400-1600CST	0	0	4	?	?	?	Severe thunderstorm, Winds
<p>A line of very heavy thunderstorms moved across Northern Wisconsin downing trees and power lines as they rolled through Lincoln and Marathon Counties. A haywagon was demolished while a tractor and truck were damaged at a farm near Harrison, Lincoln County as very strong winds roared through. Numerous power outages were also reported in Oconto County.</p>									
Campbellsport, Fond du Lac County	15	1600CST	0.1	50	0	0	0	0	Tornado (F0)
<p>A tornado briefly touched down near Campbellsport moving northeast at 35 mph. No damage was reported by law enforcement officers.</p>									
Northern Wisconsin	21	1200-1800CST	0	0	5	?	?	?	Severe thunderstorms
<p>A line of very heavy thunderstorms developed around midday in Central Wisconsin and a second line of thunderstorms developed in Northwest Wisconsin during the afternoon. The storms moved to the northeast at 30 mph. Two buildings were struck by lightning in Bloomer, Chippewa County resulting in minor damage. Strong winds damaged farm machinery near Ogema, Price County as thunderstorms moved through. Strong winds also destroyed a 100 foot long barn near Little Rose, Marathon County and in addition the roofs of two other farm buildings were removed. Neighboring farms also reported damage to buildings. A minor fire was started by lightning near Tomahawk, Lincoln County. Extensive tree damage and downed power lines were reported in Lincoln and Marathon Counties.</p>									
8 miles west of Rhinelander, Oneida County	21	1715CST							Funnel cloud
<p>A funnel cloud was sighted by law enforcement officers 8 miles west of Rhinelander moving northeast at 30 mph. No damage was reported.</p>									
Columbia and Dodge Counties	26	1630-1845CST	0	0	3	0	0	0	Severe thunderstorms
<p>Thunderstorms moved through Columbia and Dodge counties, downing trees and power lines. Lightning struck a tree and building starting a minor fire at Portage, Columbia County.</p>									
Siren, Burnett County	30	1512CST	0	0	?	?	?	?	Hail
<p>3/4 inch hail was reported at Siren.</p>									
Dairyland, Douglas County	30	1642CST	0	0	?	?	?	?	Hail
<p>2 inch hail reported at Dairyland.</p>									
Sanborn, Ashland County	30	1715CST	0.1	80	0	0	0	0	Tornado (F0)
<p>Ashland County police reported a brief tornado touchdown 1 mile north of Sanborn. No damage reported.</p>									
Couderay, Sawyer County	30	1830CST	0	0	?	?	?	?	Hail
<p>One and one half inch hail reported at Couderay.</p>									
Pierce County	30	1905CST	0	0	0	0	0	0	Thunderstorm winds
<p>An off-duty officer reported winds to 60 mph in Southeast Pierce County.</p>									
Pepin, Pepin County	30	1915CST	0	0	5	0	0	0	Thunderstorm winds, funnel cloud
<p>Damaging straight line winds to farm buildings reported 1 to 2 miles east of the Village of Pepin. Funnel cloud was also sighted.</p>									
Pepin, Pepin County	30	1930CST	0.1	80	0	0	0	0	Tornado (F0)
<p>Tornado reported near Village of Pepin. No damage reported.</p>									

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

**— WISCONSIN**

Trempealeau County	30	2030CST	0	0	3	0	0	0	Thunderstorm winds
<p>Downed trees and 60 mph winds were reported by Trempealeau County police.</p>									
North Central Wisconsin	30	2100-2300CST	0	0	4	0	0	0	Severe thunderstorms
<p>Severe thunderstorms caused widespread damage to trees and power lines in the Rhinelander area. In Rhinelander, a tree was blown onto a studio and an anchored sign was bent over. In the Town of Crescent, the Crescent Park Resort has a tree blown onto a house.</p> <p>A storage shed was also twisted and damaged. Storm damage and power outages also occurred in Forest County and the Tomahawk area of Lincoln County.</p>									
Lancaster, Grant County	30	2240CST	0.1	80	0	0	0	0	Tornado (F0)
<p>A tornado was reported by the public 12 miles west of Lancaster. No damage was reported.</p>									
Marshall, Dane County	30	2330CST			0	0	0	0	Funnel cloud, winds
<p>A funnel cloud was reported 2 miles north of Marshall. 60 mph winds were also reported.</p>									

**48 WYOMING**

Laramie, Albany County	04	1130MST	0	0	?	0	0	0	Funnel Cloud & Hail
<p>A funnel cloud was sighted by a sheriff's deputy 15 miles SSW of Laramie. Golfball sized hail also was reported in the same area. Very little damage occurred.</p>									
Burns, Laramie County	04	1445MST	0.5	20-40	0	0	0	0	Tornado (F1)
<p>A weak short-lived tornado touched down about 3 miles south of Burns in open country.</p>									
Rawlins, Carbon County	11	1655MST	0	0	?	?	?	?	Winds
<p>A thunderstorm with gusts up to 60 mph blew through Rawlins.</p>									
Lingle, Goshen County	20	1620MST	0	0	3	?	?	?	Hail
<p>Hail up to the size of softballs fell just south and east of Lingle causing minor damage to cars and crops.</p>									
Redbird, Niobrara County	20	1740MST	1	20-40	0	0	?	?	Tornado (F1) & Hail
<p>A tornado touched down on a ranch just north of Redbird, and skipped over a house. The storm also dropped tennis ball sized hail. In addition, 3 other funnel clouds were sighted between redbird and Mule Creek Junction in northeast Niobrara County.</p>									
Cheyenne, Laramie County	20	1830MST	0	0	0	0	0	0	Funnel Cloud
<p>A funnel cloud was sighted 5 miles south of Cheyenne.</p>									
Carpenter, Laramie County	20	1850MST	0	0	0	?	?	?	Hail
<p>Hail, a few stones as large as 3/4 inch, fell just east of the town.</p>									
Cody, Park County	29	1955MST	0	0	?	?	?	?	Winds
<p>A thunderstorm brought gusts up to 55 mph to the Cody area, causing widespread minor damage.</p>									

**49 ALASKA, Northern**

Interior	27	evening	0	0	0	0	0	0	Heavy Thunderstorm
<p>A series of unusually heavy thunderstorms broke out on the south slopes of the Brooks Range east of 154°W and over the uplands between the Yukon and Tanana Rivers. Lightning detection equipment picked up over 3,600 strikes on the 27th. Several small forest fires were set by the lightning. Based on convincing synoptic data, it is very probable that local heavy rain and flash flooding occurred in small watersheds in the thunderstorm areas.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

JUNE 1983

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>49 ALASKA, Southern</b>									
South Central	19	1500 AST			0	0	?	?	Hail
Golf Ball size hail reported in the Willow area.									
West Coast	28	1330 BST			0	0	0	0	Waterspout
A waterspout was spotted by aircraft over Hazen Bay on the Yukon-Kuskokwim Delta coast. Large thunderstorms in the area were seen by satellite.									
<b>49 ALASKA, Southeastern</b> — NONE REPORTED									
<b>50 HAWAII</b> — NONE REPORTED									
<b>51 PUERTO RICO</b>									
Villalba	16	evening			0	0	7	0	Flash Flood
Heavy rains from intense thunderstorm activity caused flash flooding of the Jacaguas River at the town of Villalba. A number of small houses along the river bank were flooded. Several homes were washed off their foundations. There were several landslides in the mountainous area with considerable road damage from heavy erosion. Rainfall amounts in the order of seven to nine inches over a six to eight hour duration were recorded.									
<b>52 VIRGIN ISLANDS</b> — NONE REPORTED									
<b>53 PACIFIC</b> — NONE REPORTED									

# STORM SUMMARY

JUNE 1983

STATE	TORNADES					HAILSTORMS				WINDSTORMS				LIGHTNING				FLOODING				HEAVY SNOWSTORMS AND BLIZZARDS				ICE STORMS				ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	DAMAGE	DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE		DEATHS	INJURIES	DAMAGE					
								PROP. ERTY	CROPS			PROP. ERTY	CROPS			PROP. ERTY	CROPS			PROP. ERTY	CROPS			PROP. ERTY	CROPS								
Alabama	1	1		1	5			?	?			4		1	4			?															
Arizona																																	
Arkansas								4	?			5																					
California																																	
Colorado	20	10			5		1	7	7			6			2	3			4														
Connecticut												5			3	5																	
Delaware																																	
Florida	8	6		2	6			5	4			5	?	1	2	5			2	?													
Georgia												3			1	1	2																
Idaho												4		1	2																		
Illinois	1	1																															
Indiana	2	1																															
Iowa	9	3		28	6						2	5		1	3	5			6														
Kansas	13	6			6			6	6	1		6			6	3			6														
Kentucky	1	1			5			2			1	5			5	4																	
Louisiana	#																																
Maine	#																																
Maryland & DC												3			5			1	5														
Massachusetts												4			4																		
Michigan	3	2			5							5		1	1	4			5														
Minnesota	16	4			6			4	7			6			4			1	5	7													
Mississippi												5																					
Missouri								4	?			5	?		?	?	1		5	4													
Montana								3	5			3							2	2													
Nebraska	11	6			6			5	6			6	5			4			6	6													
Nevada																																	
New Hampshire	#																																
New Jersey																																	
New Mexico												4							6														
New York								3	4		3	6	?					1	5	4													
North Carolina	1	1			5			?	?			4	?	2	4	4																	
North Dakota	6	3		2	5			4	4			5			5				5														
Ohio	1	1			3			40	C			4		1	3	4			40	C													
Oklahoma	23	5	1		5			?	?			4	6	?		6	?		5	5													
Oregon	#																																
Pennsylvania								2			1	5			4				6	?													
Rhode Island											1	5			4																		
South Carolina	3	2		1	5							4	5		5																		
South Dakota	13	7		4	6			?	?			4	3		5	2			6	7													
Tennessee	2	1			5			?	?		2	6	?		5				5	?													
Texas	#																																
Utah																		?	8	8													
Vermont							3	4	4			?			?																		
Virginia									4			5			4																		
Washington																																	
West Virginia											1	4							50	C													
Wisconsin	4	2						?	?			?	?		4																		
Wyoming	2	2						3	?			?																					
Alaska								?	?																								
Hawaii																																	
Pacific																																	
Puerto Rico																			7														
Virgin Islands																																	



## REFERENCE NOTES

Storm damage categories are 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 Million
- 7 \$5 Million to \$50 Million
- 8 \$50 Million to \$500 Million
- 9 \$500 Million to \$5 Billion

- \* Miles instead of yards
- \*\* Yards instead of miles
- @ Includes heavy sleet storm
- # Freezing drizzle and freezing rain, commonly known as glaze
- ≠ Not received or incomplete
- o/c Under Estimated Damage, Property/Crops, indicates crop damage amount is included in the figure given

### Definition of Fujita Tornado Scale (F scale)

(F0) Gale tornado (40-72 mph): Light damage  
Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.

(F1) Moderate tornado (73-112 mph): Moderate damage  
The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.

(F2) Significant tornado (113-157 mph): Considerable damage  
Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

(F3) Severe tornado (158-206 mph): Severe damage  
Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.

(F4) Devastating tornado (207-260 mph): Devastating damage  
Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.

(F5) Incredible tornado (261-318 mph): Incredible damage  
Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.

(F6-F12) (319 mph to Mach 1, the speed of sound):  
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

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(F0+F1) *Weak Tornado*  
(F2+F3) *Strong Tornado*  
(F4+F5) *Violent Tornado*

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