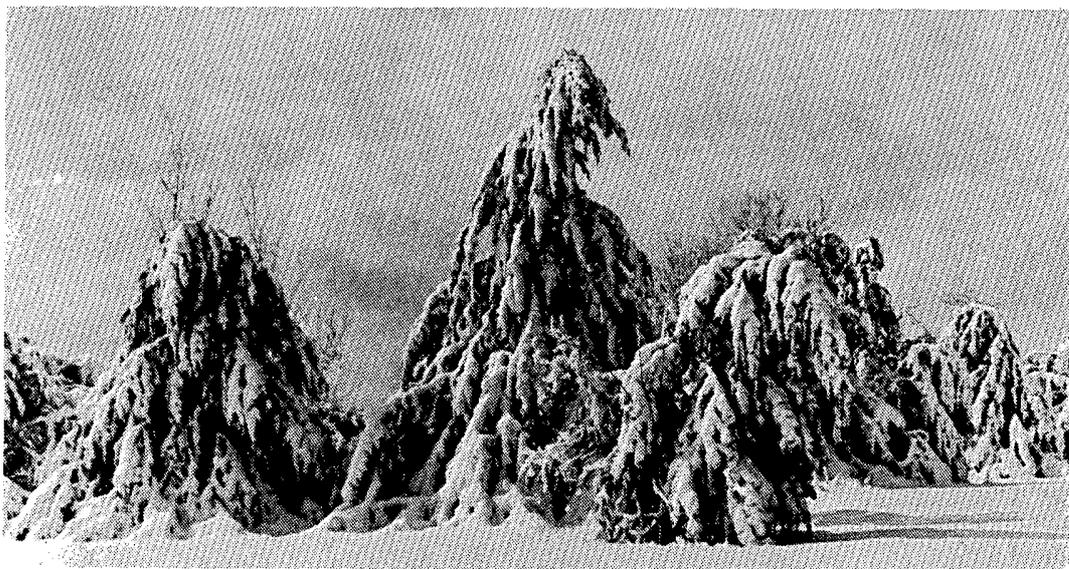


FEBRUARY 1984

VOLUME 26

NUMBER 2

# STORM DATA



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
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*L. Ray Hoxit*  
ACTING DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

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NATIONAL CLIMATIC DATA CENTER  
ASHEVILLE, N.C.

## C O N T E N T S

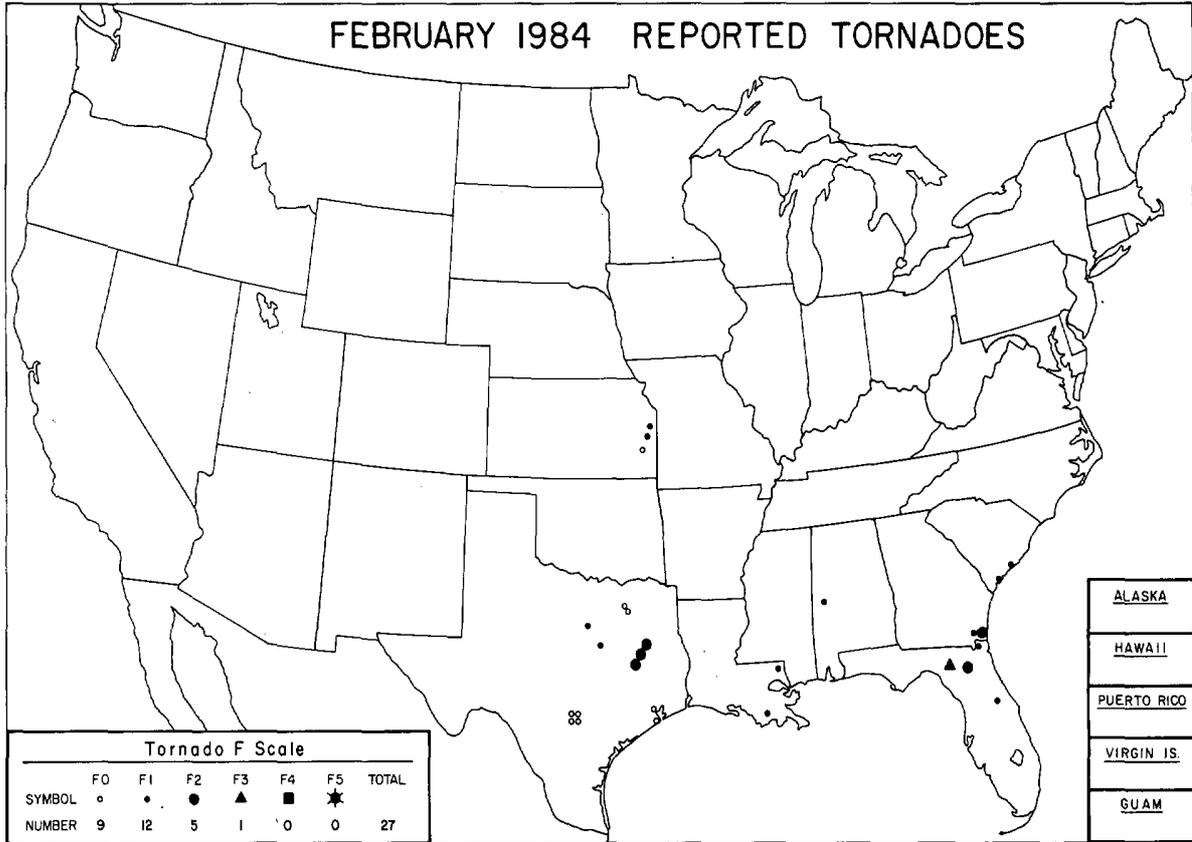
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Cover: A blanket of heavy, wet snow weighs down pine trees at Tipton, Missouri after a storm which dumped up to 24 inches of snow over central portions of the state on February 26th (see pages 4 and 5).  
---Photo by Beck Holloway, The Tipton Times.

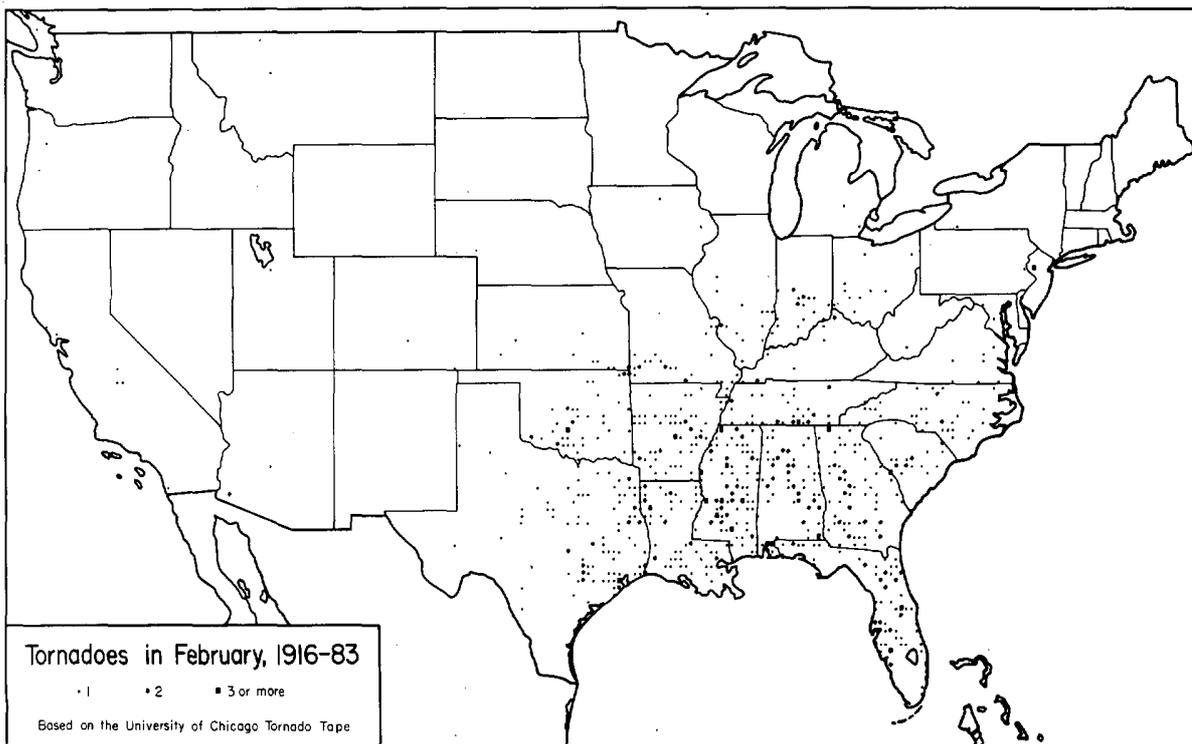
NOTE: The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, University of Chicago. The narrative descriptions of Storms by State and Summaries of Hurricanes and Tropical Storms are prepared by the National Weather 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.

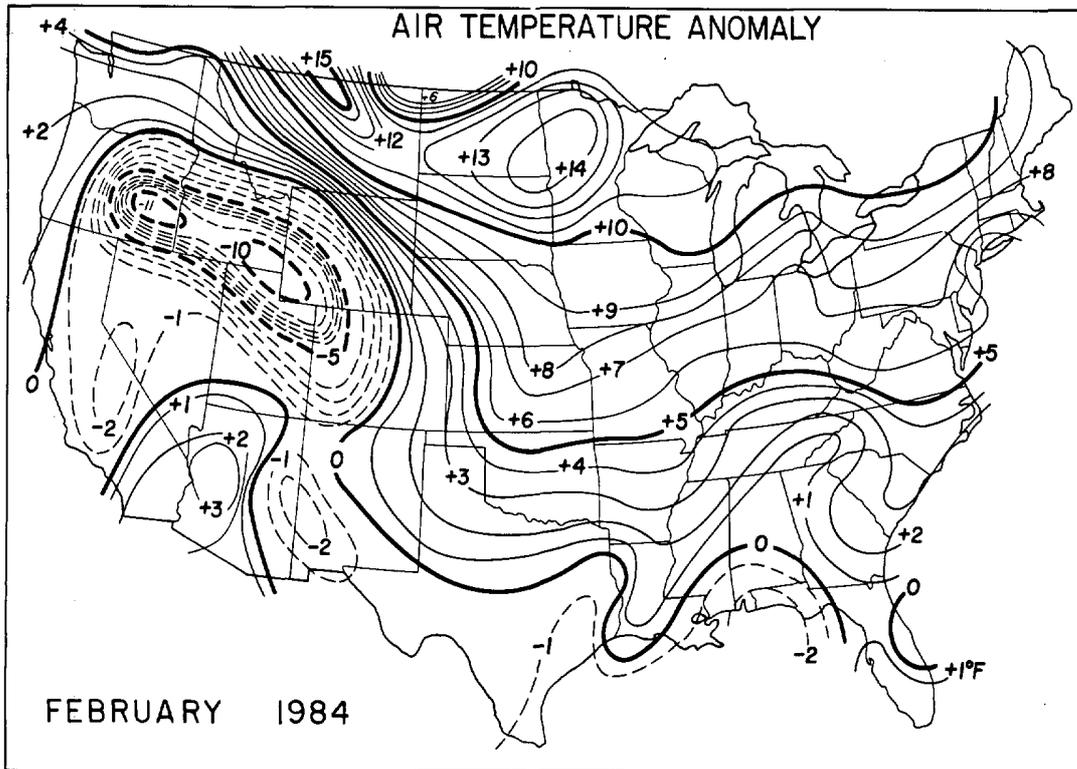
STORM DATA - (ISSN 0039-1972) is published monthly. Subscription, pricing, and ordering information is available from: Publications Section (E/CC413), The National Climatic Data Center, National Environmental Satellite, Data, and Information Service, NOAA, Federal Building, Asheville, NC 28801-2696.

# OUTSTANDING STORMS OF THE MONTH



● COMPLETE REPORT RECEIVED	● 1AL	● 7DE	● 14KS	● 21MN	● 28NJ	● 33OH	● 39SD	● 44VA	● 49AK(SE)
○ PRELIMINARY REPORT RECEIVED	● 2AZ	● 8FL	● 15KY	● 22MS	● 29NM	● 34OK	● 40TX	● 45WA	● 50HI
○ REPORT NOT RECEIVED	● 3AR	● 9GA	● 16LA	● 23MO	● 30NY(O)	● 35OR	● 41TX(N)	● 46WV	● 51PR
(N) northern (W) western	● 4CA(N)	● 10ID	○ 17ME	● 24MT	● 30NY(C)	● 36PA(E)	● 41TX(S)	● 47WI	● 52VI
(S) southern (C) central	● 4CA(S)	● 11IL	● 18MD	● 25NE	● 30NY(W)	● 36PA(W)	● 41TX(W)	● 48WY	● 53PC
(E) eastern (O) coastal	● 5CO	● 12IN	● 19MA	● 26NV	● 31NC	● 37RI	● 42UT	● 49AK(N)	
(SE) southeastern	● 6CT	● 13IA	● 20MI	○ 27NH	● 32ND	● 38SC	● 43VT	● 49AK(S)	



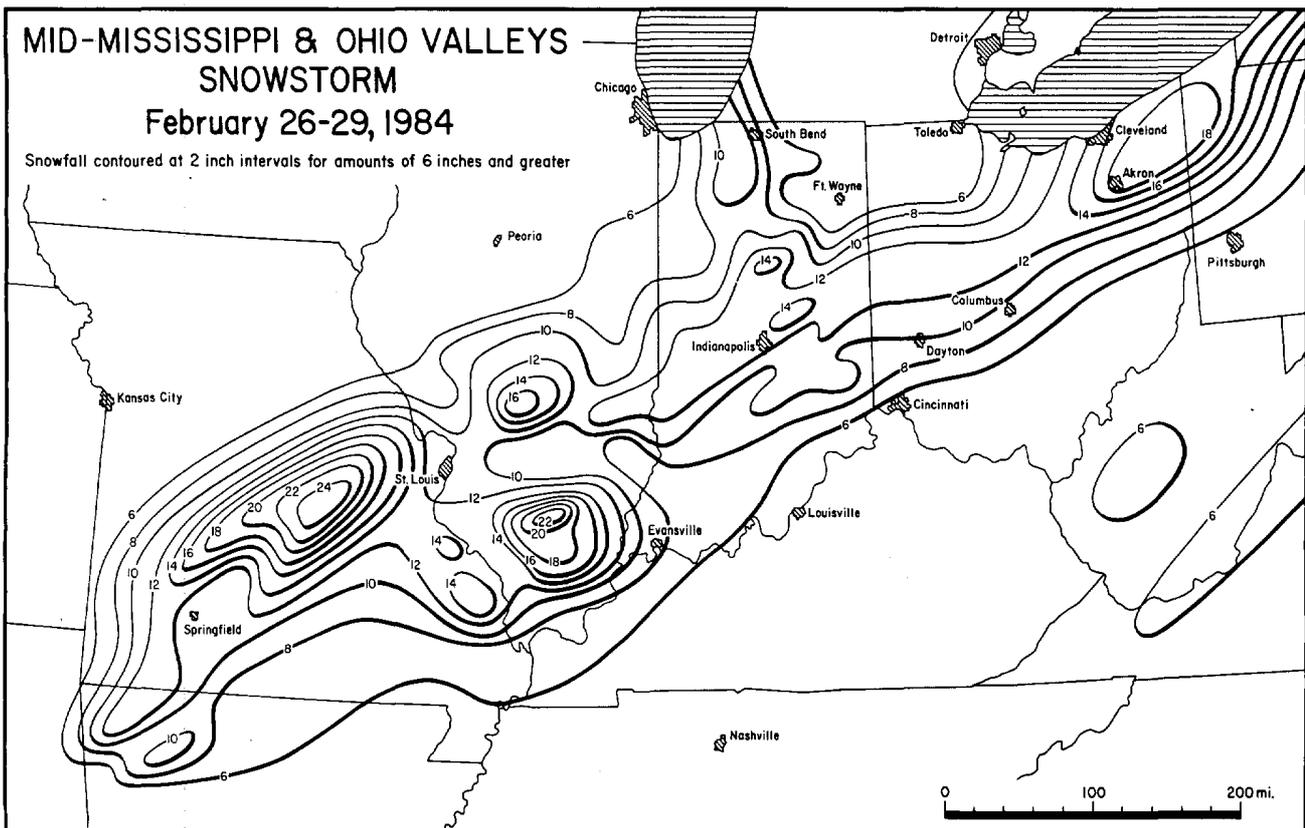


---Data base from NOAA/USDA Joint Agricultural Weather Facility.

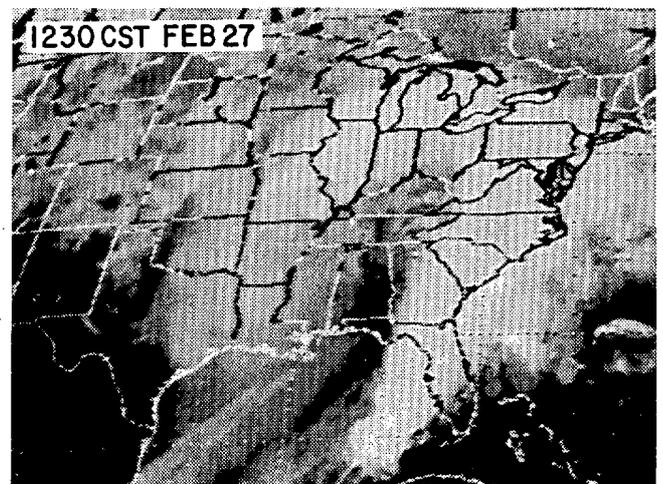
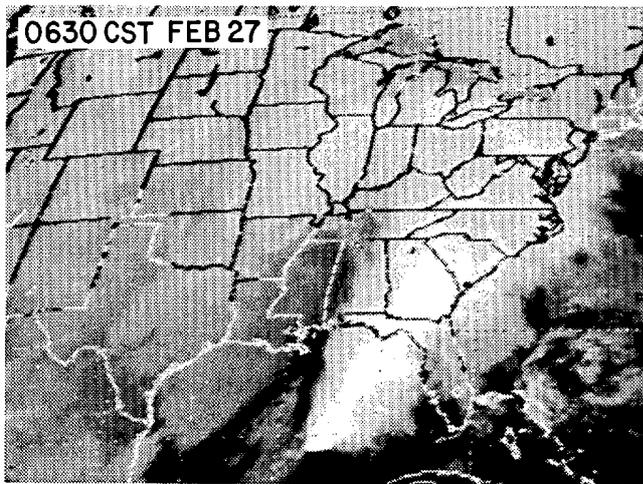
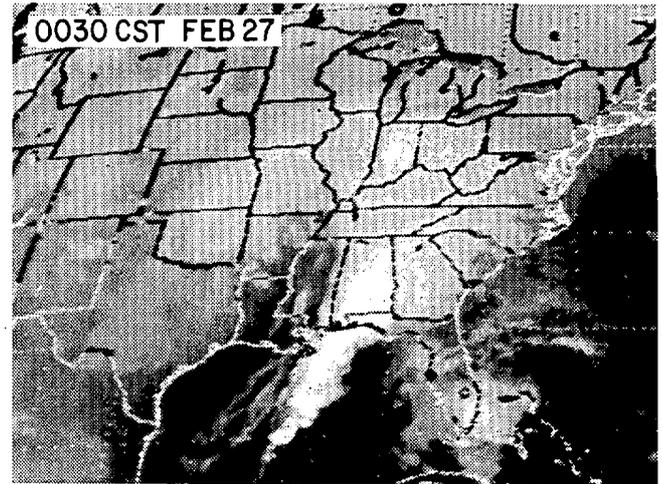
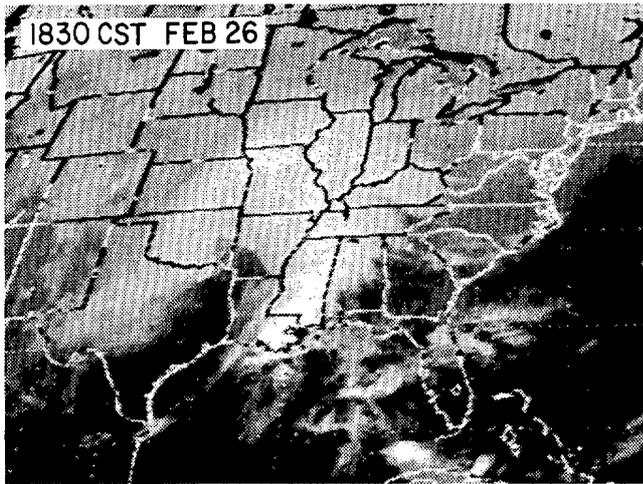
### 1. SNOWSTORM in the MID-MISSISSIPPI & OHIO VALLEYS

on February 26-29, 1984

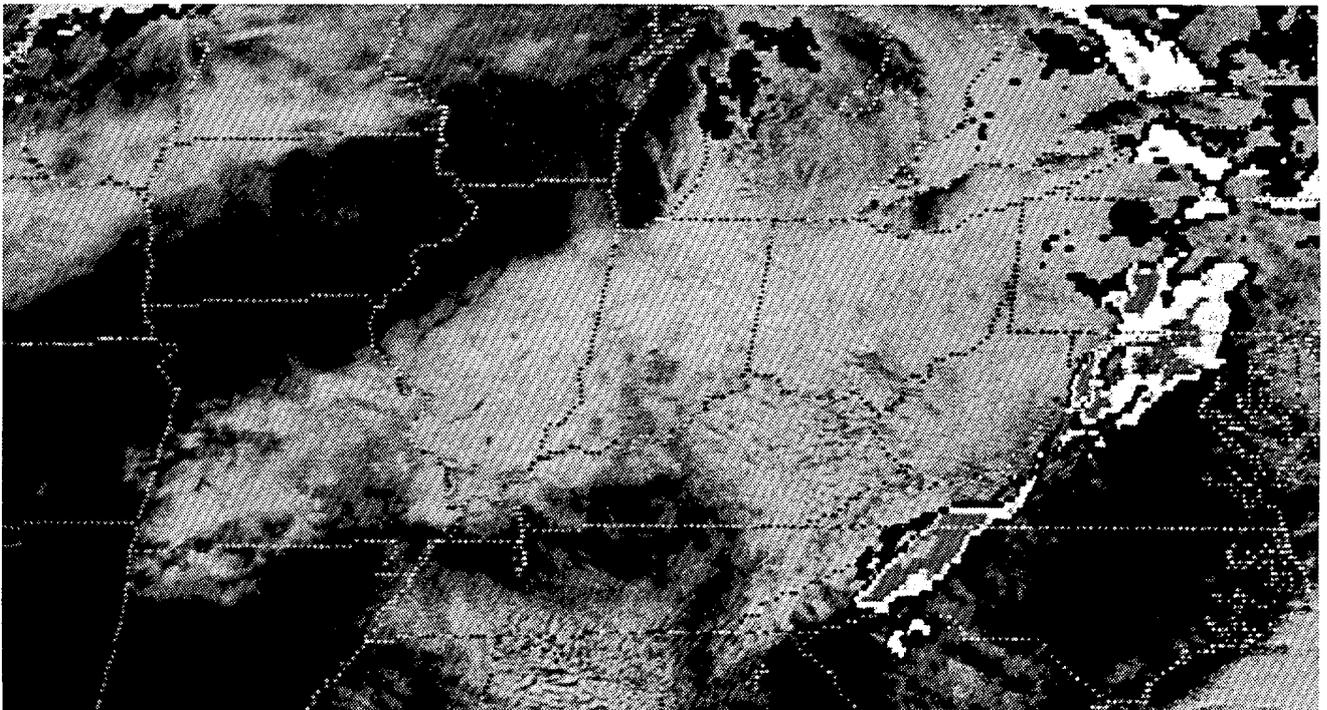
From February 26th to 29th, a severe winter storm dumped up to 2 feet of heavy, wet snow in a band from extreme northwest Arkansas northeastward up the Ohio River Valley to upstate New York. Thunderstorms and lake effects were contributing factors to some of the larger snowfall amounts. ---Data supplied by NWSFOs at Little Rock, AR; Chicago, IL; Indianapolis, IN; Louisville, KY; St. Charles, MO; Cleveland, OH; and Oklahoma City, OK.



SNOWSTORM in the MID-MISSISSIPPI & OHIO VALLEYS ---- continued



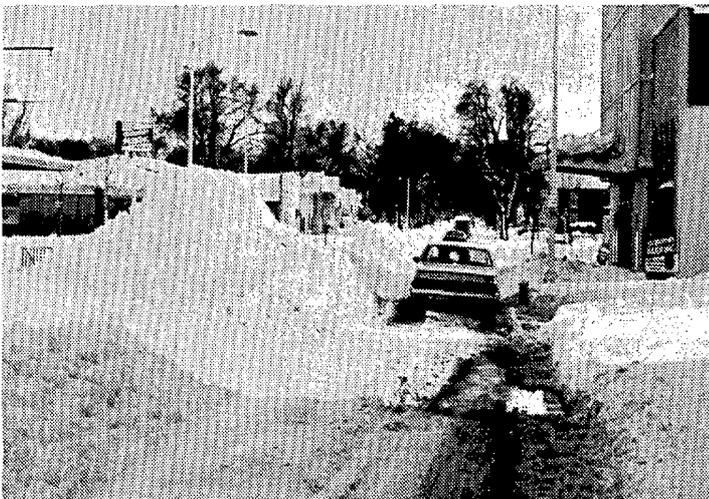
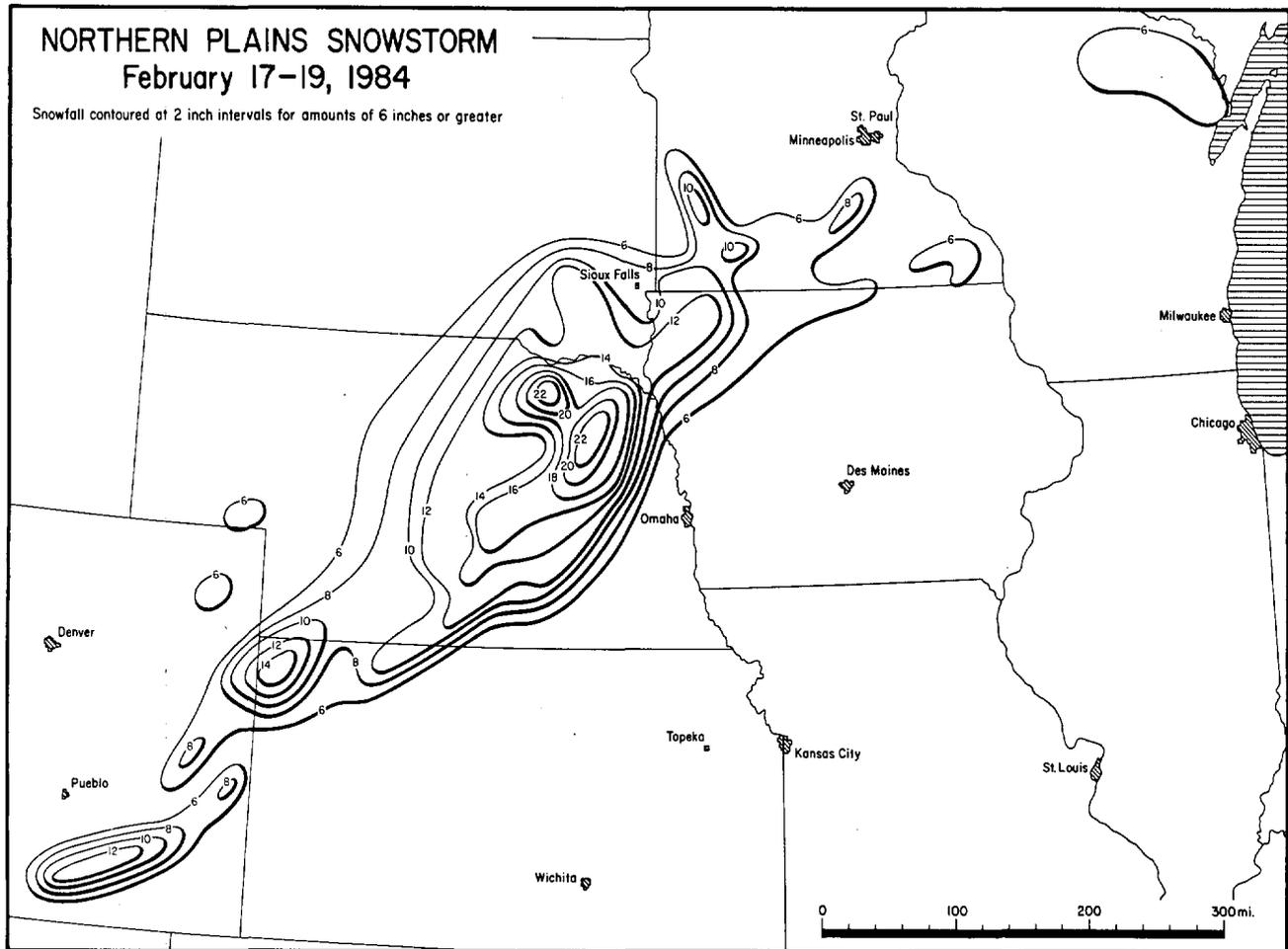
GOES East satellite, infrared images show the expanding comma cloud pattern of the snowstorm at 6-hour intervals on February 26th and 27th. ---Photos from NESDIS.



This combined, visible and infrared image taken at 1400 CST on February 29th shows the snow left on the ground in Missouri, Illinois and Indiana while lake effect snow continues to fall along the eastern and southern shores of the Great Lakes. The snow in the upper left corner of the photo is from a previous storm on February 17-19, 1984. ---Photo from NESDIS.

## 2. SNOWSTORM in the NORTHERN PLAINS on February 17-19, 1984

A Pacific cyclone which moved ashore on February 15th, reorganized over the Rockies and became a severe winter storm, intensifying as it moved out over the Central Plains from February 17th to the 19th. In the Northern Plains, heavy snow fell in a band from southeastern Colorado to northern Wisconsin, with heaviest amounts of up to 2 feet having fallen in northeastern Nebraska. Winds in excess of 50mph accompanied the snow causing much blowing and drifting. ---Data supplied by The Colorado Climate Center, Minnesota State Climatology Office and NWSFOs at Des Moines, IA; Topeka, KS; Omaha, NE; Sioux Falls, SD; and Milwaukee, WI.



Only one lane of this Norfolk, Nebraska street was made passable after 22 inches of snow had fallen over the city.



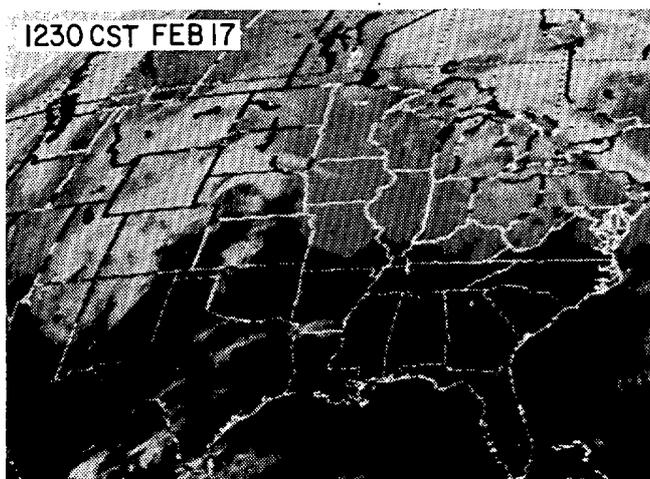
Huge clumps of snow decorate one of many bushes along the main street of downtown Norfolk.

---Both photos from the Norfolk Daily News.

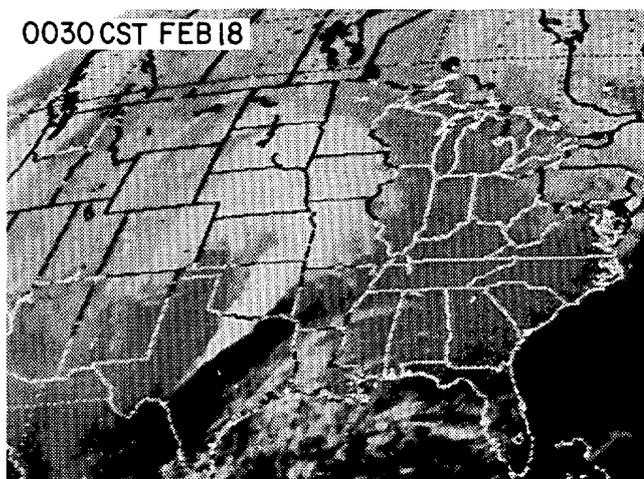
SNOWSTORM in the NORTHERN PLAINS ----.continued



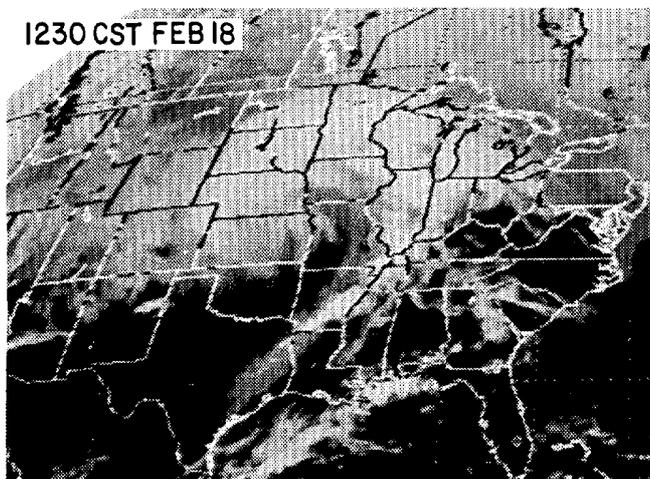
Downtown Norfolk during heavy snowfall at the height of the storm. ---Photo from the Norfolk Daily News.



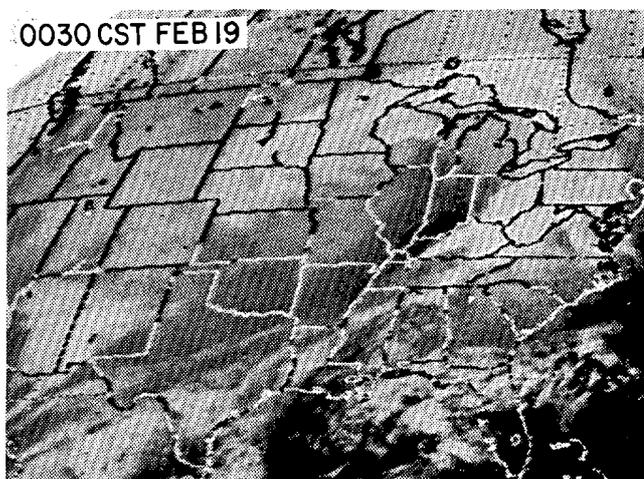
1230 CST FEB 17



0030 CST FEB 18



1230 CST FEB 18

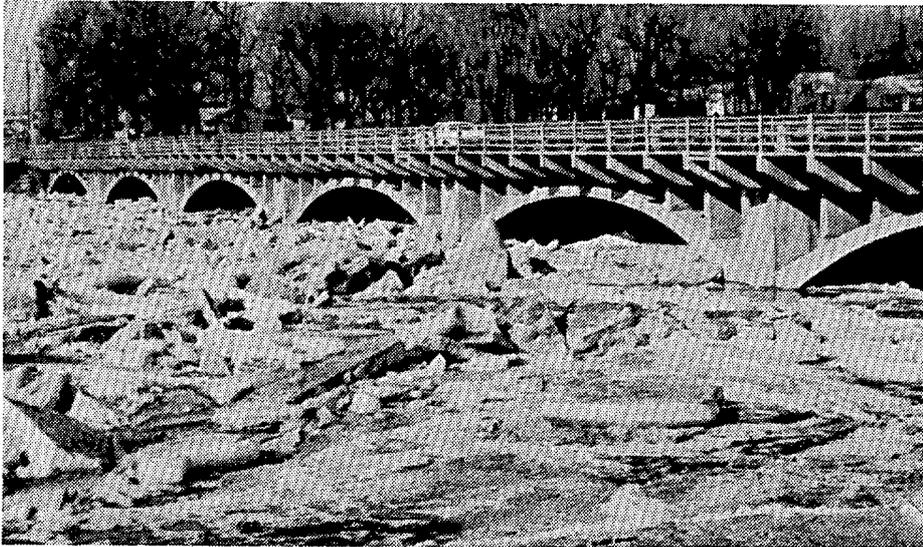


0030 CST FEB 19

GOES East satellite, infrared images show the storm at 12-hour intervals as it moved from over the Rockies on February 17th to the Great Lakes on the 19th. ---Photos from NESDIS.

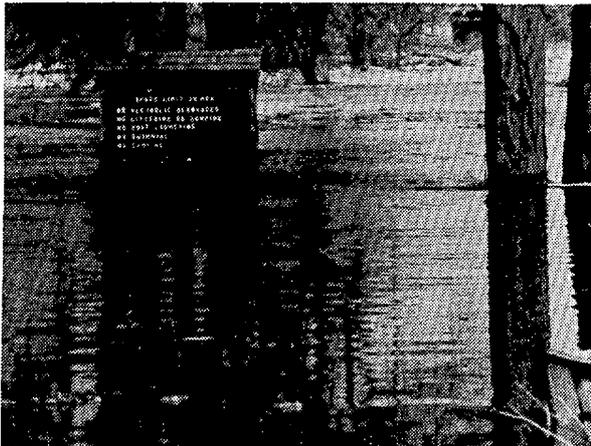
3. ICE JAM and FLOODING at WILMINGTON, ILLINOIS on February 13, 1984

On February 11th, rain and temperatures in the lower 50s combined to form a sudden thaw, causing the snow cover to melt and ice on the Kankakee River to break up. A resulting ice jam on February 13th at the Rt. 53 bridge in Wilmington flooded a department store, motel, and several homes, as well as Wilmington Island Park.



Ice jammed upstream of the Rt. 53 bridge in Wilmington on February 13th. (WFP)

Ice chunks piled high against a tree. (UC)



Flooding at the entrance to Wilmington Island Park (left) and a collection of river ice within the park after flood waters had subsided (right). (WFP left, UC right)

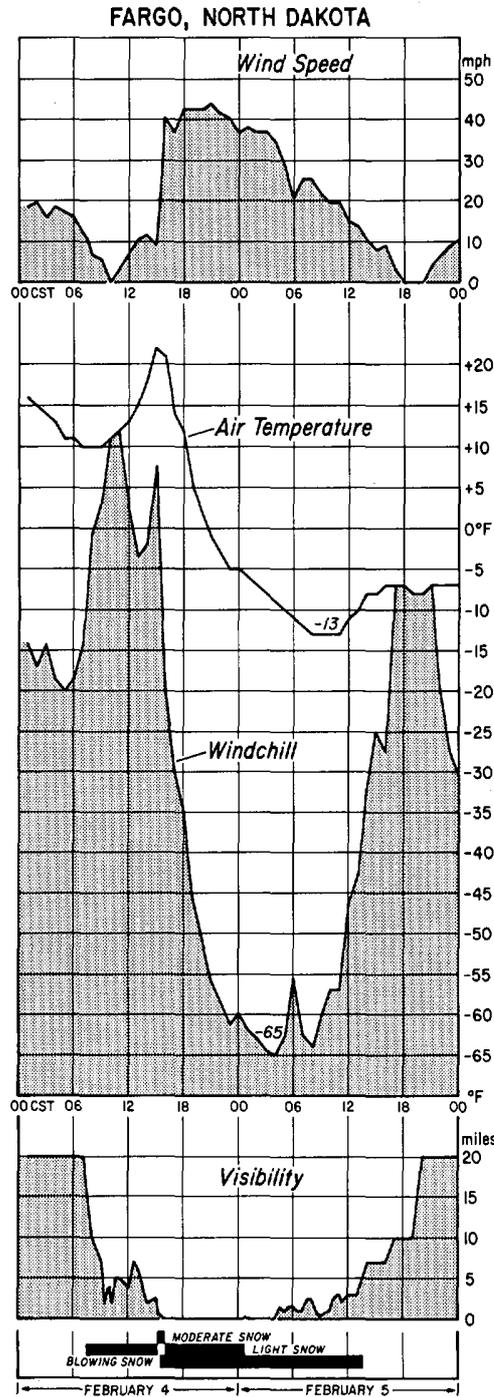


Damage to park facilities caused by fast-flowing ice chunks during the flooding. (UC)

---WFP photos by Eric Fisher, The Wilmington Free Press; UC photos by Duane Stiegler, The University of Chicago.

4. BLIZZARD in the NORTHERN PLAINS on February 4-5, 1984

On February 4th and 5th a strong cold front pushed southward from the Canadian border to the Central Plains bringing strong winds and bitter cold Temperatures in its wake. Hardest hit were the eastern Dakotas and western Minnesota where snow and blowing snow reduced visibilities to zero for several hours. 22 people died from the blizzard: 16 in Minnesota, 5 in North Dakota and 1 in Iowa.



Observed weather at Fargo, North Dakota on February 4-5, 1984 demonstrating blizzard conditions. ---Data supplied by NWSO Fargo, ND.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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	

## 1 ALABAMA

North and central Alabama	05 APTN	0 0 ? 0	Wind/snow	Some, mostly minor, wind damage occurred as strong northwest winds spread much colder air over the area. In Franklin County, falling trees downed some power-lines and sheet metal roofing was torn off one building. Winds gusted to 45 mph at the NWS office on the Huntsville/Madison County airport at 1444CST and to 42 mph at the NWS office in Birmingham around 1545CST. Most of the snow occurring in the colder air was blown off the roads. However, some icing did develop during the night, especially over the higher elevations of northeast Alabama. Scottsboro, in Jackson County, reported 3 inches of snow on the ground at 0500 CDT on the 6th.					
Mobile area, Mobile County	12 1605CST	0 0 4 0	Wind	Thunderstorm winds downed some trees about 2 miles north of Bates Field. Some power lines were also reported down, mainly in the north part of Mobile around 1615CST.					
Northern Marengo, southern Greene Counties	12 1620CST	0 0 5 0	Wind	Thunderstorm winds downed a 290 foot Cable TV tower in Demopolis. The winds also damaged the roofs of some buildings in the area and downed trees. Falling trees damaged one car and a boat. Damage in Greene County was apparently confined to downed trees.					
Greensboro, Hale County	12 1628CST	.1 30 0 0 4 0	Tornado (F1)	An apparent small tornado touched down briefly about one mile southwest of Greensboro. A witness reported seeing swirling clouds and the tornado vortex. A small store was unroofed and part of a wall blown down. Some trees were uprooted and power knocked out in the area.					
Tuscaloosa area, Tuscaloosa County	12 1630CST	0 0 3 0	Wind	Thunderstorm winds snapped off several trees, uprooted several others and damaged a carport in the southwest part of Tuscaloosa.					
Bibb County	12 1750CST	0 0 ? 0	Lightning	An intense lightning strike was reported to have set a home on fire between West Blocton and Vance.					
Hanceville area, Cullman County	12 1800CST	0 0 4 0	Wind	Downburst thunderstorm winds ripped part of the siding off a home, destroyed three metal utility buildings and heavily damaged a concrete block garage. Residents of the home reported hearing a loud roaring noise.					
Acmar area, St. Clair County	12 1935CST	0 0 4 0	Wind	One unoccupied mobile home was destroyed and several occupied mobile homes were damaged by thunderstorm winds. The unoccupied home had just been moved into the park.					
Dothan, Houston County	13 1755CST	0 0 ? 0	Hail	Hail to 1 inch in diameter reported in the south part of Dothan.					
Ozark, Dale County	13 1810CST	0 0 4 0	Hail	Hail to 1 3/4 inches in diameter damaged the roofs of several homes.					
Barbour County	13 1920CST	0 0 3 0	Wind	Thunderstorm winds downed trees and blew a mobile home off its foundation 8 E of Clayton. Marble size hail was also reported from this storm in the Bakerhill area at 1915CST and 5 W of Eufaula at 1930CST.					
Mobile County	13 2300-2325CST	0 0 4 0	Wind	Thunderstorm winds downed trees in Bayou La Batre, power lines in Grand Bay and 8 SE of Bates Field. The porch of a home was reported damaged in Tillmans Corner, 8S of Bates Field, and a tractor trailer rig blown off I-10 near the Dauphin Island Parkway.					
Fairhope, Baldwin County	26 2345CST	0 0 ? 0	Wind	Police reported wind gusts to 60 mph.					
Loxley, Baldwin County	27 0035CST	0 0 4 0	Wind	Thunderstorm winds blew the roof off one building, caused extensive tree damage and overturned a trailer.					
Ozark area, Dale County	27 0240CST	0 0 ? 0	Wind	Thunderstorm winds uprooted several trees and caused minor damage to some roofs and sheds.					
Geneva County	27 0300CST	0 0 4 0	Lightning	A home and its contents were damaged by fire, smoke and water after lightning apparently struck the water heater. The occupants of the home escaped without injury after being awakened by neighbors.					

## 2 ARIZONA

NONE REPORTED

## 3 ARKANSAS

Statewide	05 0800CST -1600CST	0 0 5 -	Wind	A strong arctic cold front pushed into northern Arkansas early in the morning and progressed through the remainder of the State during the day. Winds behind the front were strong and northerly with many gusts over 40 mph. Top gusts of 49 mph were recorded at Blytheville and Harrison. The gradient winds knocked down trees, signs, utility poles, and broke plate glass windows. Other structures that sustained wind damage were poultry houses and buildings with sheet metal roofing.					
Sebastian County	09 about 2300 CST	0 0 4 -	Lightning	Lightning started a fire at a storage building.					
Ouachita County	10 0130 CST & 0150 CST	0 0 - -	Hail	A storm spotter reported golfball size hail 5 miles southwest of Camden. Golfball size hail was also reported over the eastern sections of the county between 0150 and 0200 AM, according to the Civil Defense.					
Columbia County	10 0320 CST	0 0 - -	Hail	One inch diameter hail was reported near Ware, along the Arkansas-Louisiana border.					
Conway County	11 0818 CST	0 0 - -	Funnel Cloud	A funnel cloud was reported in the central portion of the county heading towards Birdwell.					
Carroll County	11 1625 CST	0 0 - -	Hail	The cooperative observer in Eureka Springs reported hail reaching up to 1 inch in diameter.					
Washington County	11 1630 CST	0 0 4 -	Lightning	Lightning struck a home in Fayetteville, resulting in a fire. Lightning struck the antenna of another home and caught the television on fire. Minor power outages also were reported throughout the city from lightning strikes.					
Garland County	11 1733 CST	0 0 - -	Hail	Hail one inch in diameter was reported 3 miles west of Crystal Springs.					
Little River County	11 1745 CST	0 0 - -	Hail	One inch diameter hail was reported at Foreman.					
Van Buren County	11 2015 CST	0 3 4 -	Wind	Strong thunderstorm winds blew a mobile home over at Alread in western Van Buren. Three people in the mobile home received minor injuries.					
Baxter County	11 2115 CST	0 0 4 -	Wind	A strong thunderstorm produced damaging winds near U. S. Highway 62 east of Mountain Home. Most of the damage occurred at a business where several portable buildings were destroyed. Some damage also occurred to cable television in the area.					
Van Buren County	11 2200 CST	0 0 4 -	Lightning	Lightning started a fire at a general store in Formosa and destroyed the structure. The store had been closed since 1982 and was being used for storage at the time of the fire.					
Pulaski County	11 2220 CST	0 0 ? -	Wind	A power pole was knocked down in North Little Rock causing power outages to Park Hill and Lakewood areas. Power was restored by midnight.					
Izard County	11 about 2300 CST	0 0 4 -	Lightning	Lightning struck a Melbourne home on Saturday night. The circuit breakers were tripped. After checking the house for damage, the residents went to bed only to be awakened by a fire about 4:00 AM. The telephone was out of service from the lightning strike. The third level of the split-level homes was destroyed by the flames.					
Hot Spring County	15 1615 CST	0 0 3 -	Lightning	Lightning struck a home in Friendship and traveled down the wiring through the house. An electric cooking range caught on fire. Other damage also occurred to a clock, the television, and the TV antenna.					
Clark County	15 1730 CST	0 0 3 -	Lightning	Eight cows and one bull were killed by lightning on a ranch near Arkadelphia.					
Jefferson County	15 1856 CST	0 0 - -	Hail	Golfball size hail was reported at the Pine Bluff Arsenal.					
Lawrence County	26 about 2030 CST	0 0 4 -	Wind	Strong thunderstorm winds unroofed a storage shed at a portable building plant in Walnut Ridge. Water entered the shed and ruined materials used in the plant.					

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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>— ARKANSAS —</b>									
Northwest Arkansas	26-27				0	0	5	?	Heavy Snow
	Precipitation began Sunday night in the form of rain; then it changed into snow. Accumulations of snow ranged from 12 inches at Fayetteville to 4 inches at Huntsville and Devil's Den State Park. The heavier snow amounts fell north and west of a line from Fort Smith to Heber Springs to Batesville. Some of the snow amounts were: Fayetteville - 12", Buffalo Tower - 10", Harrison and Petit Jean State Park - 9", Combs - 8", Leadhill - 7.5", Melbourne - 6".  The slushy snow caused tree limbs, trees, and power poles to snap. Roofs on businesses and poultry houses collapsed under the weight. Schools and businesses closed because of the snow and the drifts.								
Benton County	27	0800 CST			0	0	3	-	Lightning
	Lightning started a fire at a residence in Gravette. Considerable damage was done to the garage, but the rest of the house was undamaged.								
<b>4 CALIFORNIA, Northern</b>									
Sierra Nevada	02	0800-1600PST			-	1	4	0	High Wind
	Wind gusts of 50 to 60 MPH were reported over the higher mountains. Some trees were blown down.								
Humboldt & Del Norte Counties	15-16	2100-0400PST			0	0	0	0	Heavy Snow
	Locally heavy snow fell above 2000 ft. Amounts ranged from 2 to 4" at lower elevations to 10 to 12" above 4000 ft.								
Sierra Nevada	21	0700-2000PST			0	0	0	0	Heavy Snow High Winds
	A vigorous cold front moved through the state. Locally heavy amounts of snow were reported. Amounts ranged from 10 to 20 inches. Wind gusts were up to 50 MPH. Some ski areas were closed due to zero visibility.								
<b>4 CALIFORNIA, Southern</b>									
U.S. Highway 395 Inyo County	21	Unknown			0	0	?	0	High Wind
	Strong winds to 60 miles per hour caused some damage south of Big Pine to Olancha. Visibilities were reduced to less than 100 feet at times due to blowing dust and sand.								
<b>5 COLORADO</b>									
Northeast	11				0	0	0	0	Snow, wind
	A near blizzard in northeastern Colorado left 10 inches of snow in Sedgwick, and 9 inches at Akron; 8 inches fell at Limon and Byers. Winds of up to 70 mph whipped the snow into high drifts, closing many roads on the plains, including Interstate 70. About 1200 motorists were stranded in Limon.								
Mountains, East	14-15				0	0	5	?	Snow, wind
	After dumping up to 13 inches of snow in the Colorado Rockies, a storm howled across the plains, breaking windows, blowing down signs, causing power outages, and blowing away large quantities of topsoil. Winds gusted to 75 mph in La Junta and 63 mph in Pueblo early on the 15th; in Las Animas, the roof of a gym blew off. Limon was again isolated; 6 inches of snow fell there, and blowing snow forced the closure of all roads near the town.								
Eastern Colorado	17-18				0	0	0	0	Snow, wind
	The third near-blizzard in a week once again closed many roads in Eastern Colorado, stranding hundreds of motorists in Limon. The snow spread farther south this time; up to 8 inches fell in the La Junta area, along with winds as high as 63 mph. Heavy snow hit some parts of the Denver metropolitan area; 8 to 10 inches fell in Aurora.								
<b>— COLORADO —</b>									
Mountains, E. Foothills	25-26				0	0	0	0	Heavy snow
	A snowstorm left 1 to 2 feet of snow in the foothills west of Denver. Interstate 70 was closed, stranding skiers returning from the slopes. Most had to spend several hours in Idaho Springs. The snow spread to the adjacent plains, with 9 inches at Littleton, Castle Rock, and Boulder; 5 inches fell in Denver. The heaviest reported snowfall from the storm was three feet at Cuchara ski area, near La Veta Pass in southern Colorado.								
6 CONNECTICUT	— NONE REPORTED —								
7 DELAWARE	— NONE REPORTED —								
<b>8 FLORIDA</b>									
Tallahassee, Leon County	06	0120EST	-	-	0	0	3	-	Thunderstorm wind
	High wind blew down a tree which knocked down power lines as it fell on a mobile home causing damage to the mobile home.								
Panama City, Bay County	27	0230EST	-	-	0	0	3	-	Thunderstorm wind
	High wind damaged the roof of the Panama City-Bay County airport.								
Crestview, Okaloosa County	27	0900EST	-	-	0	0	3	-	Thunderstorm wind
	High wind damaged signs, traffic lights and blew down a tree which damaged a van.								
Mayo, Lafayette County	27	0835EST	7	100	0	1	5	-	Tornado(F3)
	Two block homes and three mobile homes were destroyed. A dairy suffered extensive damage.								
Otter Springs, Gilchrist County	27	0835EST	-	-	0	0	2	-	Thunderstorm wind
	High wind blew an aluminum roof off a patio.								
Boulogne, Nassau County	27	1015EST	1	10	0	0	5	-	Tornado(F1)
	A tornado touched down and destroyed a double wide mobile home, two cars, a barn, several boats and three sheds.								
Homosassa, Citrus County	27	1200EST	-	-	0	0	2	-	Thunderstorm wind
	High wind blew down a sign and damaged a mobile home.								
Starke, Bradford County	27	1230EST	-	-	0	0	3	-	Thunderstorm wind
	A roof blew off a feed storage barn.								
Keystone Heights, Clay County	27	1235EST	3	30	0	2	5	-	Tornado(F2)
	Five mobile homes destroyed and eleven others were damaged.								
Palatka, Putnam County	27	1330EST	-	-	0	0	3	-	Thunderstorm wind
	Wind knocked down a tree which fell on a car destroying the car. Several other cars were damaged by falling branches.								
5 mi W Winter Park, Orange County	27	1430EST	-	-	0	0	2	-	Thunderstorm wind
	Several mobile homes damaged by high wind.								
Clearwater, Pinellas County	27	1435EST	-	-	0	0	2	-	Lightning
	Lightning struck and heavily damaged an above ground pool.								
Sanford, Seminole County	27	1436EST	1	10	0	0	3	-	Tornado(F1)
	A mobile home was destroyed. Several main power line poles were snapped off a ground level.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1964

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>9 GEORGIA</b>									
Muscogee County	13	1728EST			0	0	0	0	Hail
Thunderstorm winds dropped golf ball size hail 3 miles east of the Columbus Airport.									
Early County	13	2015EST & 2040EST			0	0	0	0	Hail
Thunderstorms dropped hail up to golf ball size in Damascus.									
Dougherty County	14	0029EST			0	0	0	0	Hail
Thunderstorms dropped hail up to the size of baseballs in Albany.									
Lee County	14	0030EST			0	0	0	0	Hail
Thunderstorms dropped hail up to golf ball size in Leesburg.									
Wilcox and Dodge Counties	14	0130EST-0200EST			0	0	0	0	Hail
Hail up to the size of golf balls fell in eastern Wilcox and western Dodge Counties.									
Emanuel County	14	0300EST			0	0	0	0	Hail
Thunderstorms dropped hail up to the size of baseballs in the Stillmore area.									
Douglas County	24	1831EST			0	0	0	0	Hail
Thunderstorms dropped golf ball size hail in Douglasville.									
Fulton County	24	1910EST			0	0	0	0	Hail
Thunderstorms dropped golf ball size hail in the Buckhead area.									
Fulton and DeKalb Counties	24	1915EST			0	0	2	0	Wind
Thunderstorm winds downed a few trees and power lines in the northern part of Atlanta and the western part of DeKalb County.									
Crawford County	27	0630EST			0	0	2	0	Wind
Thunderstorm winds downed a few telephone lines near Musella.									
Thomas County	27	0630EST			0	0	4	0	Wind
Thunderstorm winds lifted the roof from a mobile home in the Eason Crossing community. Rain soaked the roof-less home, ruining the interior and the contents. A few trees were also toppled by strong winds.									
Bibb County	27	0645EST			0	0	2	0	Wind
Thunderstorm winds downed a few trees in the northwest part of the county.									
Charlton County	27	1030EST			0	0	3	0	Wind
Thunderstorm winds uprooted a few trees and blew the front porch and a portion of the roof from a house in St. George.									
Camden County	27	1045EST	0.2	50	0	0	4	0	Tornado (F1)
A tornado touched down 8 miles west of Woodbine. One mobile home and two barns were destroyed.									
Camden County	27	1045EST	3.0	100	0	0	5	0	Tornado (F2)
A tornado touched down 10 miles east of Woodbine. One house was destroyed, the roof was lifted from another house, and another house was lifted off its foundation. Two mobile homes were destroyed and the roof was blown off another mobile home.									
Cobb County	27	Around 2300EST			0	0	5	0	Lightning
A lightning strike caused a smoldering fire that eventually destroyed the control building at a Softball Complex.									
<b>10 IDAHO</b>									
Jerome, Minidoka, Twin Falls, Cassia counties	10	1000-1800 MST			0	0	0	0	Blowing and drifting snow, strong winds
Three to four inches of new snow, accompanied by strong gusty winds created many areas of blowing and drifting snow. Interstate 84 was closed for several hours. Many schools closed early to get students home over roads that were drifting closed.									
Owyhee County	13	0900 MST			0	0	4	0	Strong winds
Wind gusts estimated at 80 mph overturned a trailer being towed on U.S. Highway 95, 15 miles southwest of Marsing. Damage was estimated at six thousand dollars.									
<b>IDAHO</b>									
Snake River Valley in southern Idaho	16	0000-1700 MST			0	0	3	0	Heavy snow, high winds
A strong cold front passed through southern Idaho producing some light damage and leaving areas of heavy snow. Winds estimated to be gusting to 60 mph damaged the Homedale, Owyhee County high school gymnasium roof. In the Boise area, a 25 foot metal storage shed was twisted around a U.S. Forest Service fire engine. Snow totals included McCall, 12"; Twin Falls, 6"; Burley, 6"; and Pocatello, 5".									
<b>11 ILLINOIS</b>									
Southeastern Sections	27-28				0	0	?	?	Blizzard
A winter storm with wind gusting to 40 knots caused blizzard conditions in the southeast part of the state. Snow amounts ranged from 3 to 15 inches. The heaviest snow fell south of a line from St. Louis to Peoria and continuing northeastward to just south of Chicago. 7 to 12 inch snowfall amounts were common south of this line and localized areas in the southeast received as much as 24 inches. Many roads and schools had to be closed due to drifting snow. Several small towns had food flown in because they were isolated for several days.									
<b>12 INDIANA</b>									
Adams and Allen Counties, Northeast Indiana	13-14				0	0	0	0	Flooding
Some minor river flooding occurred on the Maumee and St. Marys rivers producing flooding of some county roads in Allen and Adams Counties. Some of the parklands in Fort Wayne were also under water. No property damage was reported.									
Entire State	27-29				0	8	0	0	Heavy Snow
Heavy snow fell over the entire state beginning on the 27th and ending on the 29th. The heaviest snowfall depth was reported through the central part of the state where snow depths exceeded 12 inches. Several areas just north of Indianapolis recorded 14 inches of snow. In the southern section of the state 6 to 9 inches fell while in the north from 4 to 10 inches were reported. On the 29th strong winds developed over the northern half of the state. These winds whipped the freshly fallen snow into drifts 8 feet high and near 1000 feet long closing almost all the roads. Interstate 65 which connects Indianapolis with Chicago was impassible for several days due to the drifting snow.									
<b>13 IOWA</b>									
Poik County	04	Night			1	0	0	0	Cold and Wind
A woman in Des Moines apparently died of exposure and hypothermia after wandering away from her residence. She had been living at a halfway house for the mentally disabled, and was discovered to be missing about 5 p.m. on the 4th. She was not found until the 10th, by two young brothers, in a deep, brushy ravine near the county hospital. Though her condition appears to have contributed to her death, she likely would not have died if the weather had been less trying.									
Statewide	04-05	Evening Afternoon			1	3	4	0	Blizzard
Very high winds combined with a brief period of heavy snow brought blizzard or near-blizzard conditions to most of Iowa over the first weekend of the month. A cold front moving down from the north Saturday evening was accompanied by a short initial "burst" of snow, leaving about an inch in only 15-30 minutes in many areas. Another 2 to 3 inches fell before the event was over. High winds with and behind the front and temperatures at or below zero produced hazardous conditions; the cold, winds and snow created poor visibility and bitter wind chill. Many motorists were stranded by the blizzard and more than a few had to abandon their vehicles and seek better shelter. At least three people suffered frostbite. Unexpected overnight guests were to be found in restaurants and truckstops, homes, schools and even churches, especially in Northwest Iowa. Winds accelerated to 30-45 miles an hour in a short time, and a gust of 62 mph recorded at the Des Moines airport in the early morning hours was not unusual in this storm. A person in Jasper County died early Sunday morning as a result of the storm. One woman, after sustaining minor injuries in driving her car off the road and into a ditch, walked three quarters of a mile to a farmhouse. No one was home, and the woman was apparently unable to get in. She was found just off the porch near the door, and the cause of death was reported as exposure by the county medical examiner.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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>									
Statewide	10	Morning			0	0	0	0	Fog
	12	Afternoon							
	Fog enveloped most of Iowa from the early morning hours on Friday (the 10th) and didn't lift in northeast Iowa until Sunday afternoon (the 12th). School was cancelled at Cresco in Howard County and at Jesup near Waterloo on Friday. The airports were all socked in until at least Saturday night, when improvement came with thunderstorms. Many auto accidents were attributed to the fog, but these are not accounted here.								
Linn County	11	Evening			0	0	4	0	Lightning
	A power sub-station was struck by lightning in the town of Coggon, causing an outage for about 3 hours in that town.								
Franklin and Cerro Gordo Counties	11	Evening			0	0	5	0	Lightning
	Lightning struck four homes and the Moose Lodge in Mason City, but only minor damage resulted. Lightning also apparently started a fire at a factory in Hamon, and the loss of the building in the fire was estimated to amount to \$100,000.								
Northwest Iowa	18	Morning			0	0	5	0	Snowstorm
	19	Afternoon							
	Heavy snow fell in northwest Iowa beginning on Saturday morning the 18th and didn't get through in Iowa until the next afternoon. While the snow line extended from the southwest corner of the state all the way into the northeast, west central and northwest sections of Iowa were the hardest hit. Strong northwest winds at 20 to 40 miles an hour contributed to the difficult traveling conditions brought by the storm, and power outages due to fallen lines were common. Nearly a foot of snow fell at Sioux City, and the town of Akron in Plymouth county reported the greatest total in Iowa - 13 inches.								
<b>14 KANSAS</b>									
Chanute, Neosho County	11	1720CST			0	0	0	0	Hail
	Hailstones 3/4 inch in diameter fell briefly from a thunderstorm at the Chanute Airport.								
Sallyards, Greenwood County	11	1730-1800CST			0	0	0	0	Funnels
	Several funnels were sighted near U.S. Highway 54 along the Butler/Greenwood County border around Sallyards.								
Prescott, Linn County	11	1739CST			0	0	0	0	Funnel
	A funnel was sighted near Prescott.								
Uniontown, Bourbon County	11	1745CST	Short	Narrow	0	0	3	0	Tornado (F0) Funnels
	A tornado touched down briefly 2 miles southeast of Uniontown. A barn was damaged but no other damage resulted. Several funnels were also sighted over central Bourbon County around the time of the tornado.								
Bonner Springs and Edwardsville, Wyandotte County	11	1745-1800CST			0	0	0	0	Hail
	A thunderstorm dropped 3/4 inch diameter hailstones at Bonner Springs and Edwardsville.								
Parker, Linn County	11	1747CST	1	30	0	0	5	0	Tornado (F1)
	A tornado touched down two miles south and one mile east of Parker. It then moved northeast and hit three farms. Sheds and barns were destroyed at each of the farms. One house had some roof damage but the other two were spared.								
Paola, Miami County	11	1805CST	2	20	0	1	4	0	Tornado (F1)
	A tornado dropped down 5 miles southeast of Paola and cut a narrow path 2 miles to the northeast. The twister struck 4 farms, damaged several outbuildings and ripped part of the roof from one of the homes. One man suffered minor cuts when a window shattered and covered him with glass slivers.								
Wichita, Sedgwick County	11	2300CST			0	0	4	0	Lightning
	Lightning struck the steeple of Eastminster Presbyterian Church in Wichita. The steeple was destroyed, windows were blown out and the roof and wiring of the Church were damaged.								
Northwest Kansas	17-18	1800-2100CST			0	0	0	0	Winter Storm
	A winter storm with heavy snow and strong wind hit the northwest corner of Kansas. Snowfall of 6 to 12 inches fell in that part of the state north of a line from Sharon Springs to Hill City and Phillipsburg. Blizzard conditions resulted from the snow and 40 to 50 mile an hour wind gusts. Roads were closed from late on the 17th until about midday the 19th. Interstate 70 was closed from Wakeeney west.								
<b>15 KENTUCKY</b>									
Western, South-Central, and Eastern Kentucky	05	1500CST			0	0	2	0	Snowstorm
	A 5 - 9 inch snowfall fell over South-Central, Eastern and Western Kentucky. Snow coupled with winds up to 40 miles an hour forced visibility to near zero and caused considerable blowing and drifting. Police and motorists in Western Kentucky endured what they described as whiteout conditions. Bitter cold temperatures during the storm plunged windchill indices down to 15 degrees below zero. The storm wreaked havoc on Interstate 65 causing a 15 mile backup at one point, north of Smith's Grove. A few injury accidents were reported. Dozens of motorists were stranded when their autos slid off the road into ditches. Many school districts were closed. The Lake Cumberland area (Clinton County) recorded the heaviest snowfall amounts ranging 8 to 9 inches with drifts to 15 inches.								
Magoffin-Floyd Counties	06	MRNG			0	1	3	0	Wind
	Very strong wind gusts were responsible for flipping over a car and injuring its driver. The incident happened along the Mountain Parkway near the Magoffin/Floyd County line. The wind caught the car and completely turned it over. The top of the car was smashed almost to the seats. The driver sustained head and neck injuries as well as numerous bruises.								
South-Central Kentucky	11	0400CST			0	0	3	2	Flash Flooding
	Up to four inches of rain caused flash flooding in the south-central Kentucky Counties of Todd, Logan, and Simpson. Franklin reported four inches in Simpson County. Small creeks and streams overflowed their banks. Water over roads was the main problem. Lightning caused power outages leaving a total of 300 Bowling Green municipal utility customers without electricity.								
Hopkins County	12	1140EST			0	0	3	0	Wind
	High winds blew into an outdoor light and the conductor welded itself into the fixture causing a power outage in Dawson Springs.								
Taylor County	24	AFTN			0	0	3	0	Thunderstorm Winds
	Numerous trees, power lines, and telephone lines were downed near Campbellsville. Roof damage was widespread.								
Fayette County	24	AFTN			0	0	3	0	Thunderstorm Winds
	Downed power and telephone lines were reported in the Lexington area.								
LaRue County	24	1530EST			0	0	4	0	Thunderstorm Winds
	Two mobile homes were destroyed near Buffalo. Eye witness reports said one of the mobile homes was turned upside down and then exploded in mid air. Power outages were numerous in the area.								
Green County	24	AFTN			0	0	3	0	Thunderstorm Winds
	An apple tree in Magnolia was cut off at the ground and fell on a car damaging it extensively. At the same residence, a portion of the roof was ripped off and some tin was pulled off the barn roof. Roofs in the Hodgenville area also suffered damage.								
Nicholas County	24	AFTN			0	0	3	0	Thunderstorm Winds
	High winds ripped an awning off of a drugstore in Greensburg and did extensive damage to television antennae. Sheets of roofing were blown from a barn in Exie. A roof was blown off a garage in Allendale. Lightning damaged power lines on Marshall Ridge Road causing outages.								
Anderson County	24	1630EST			0	0	4	0	Strong winds
	A roof was blown off Hodges Chapel Church in Pleasant Valley. Strong winds demolished a mobile home on New Liberty Road. A stock barn located .2 of a mile from the mobile home was also destroyed.								

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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>— KENTUCKY —</b>									
Mercer County	24	1700EST			0	0	4	0	Thunderstorm Winds
<p>Winds gusting to 50 miles an hour destroyed a mobile home in Mercer County and a tobacco barn on Cornishville Road. A barn was blown down near Providence Church. Two barns were damaged on Cummins Ferry Road. Hensley Height residences reported minor wind damage. A roof of a barn was damaged on Bohon Road.</p>									
Western and Northern Kentucky	27 28	MRNG EVE			0	0	3	0	Winter Storm
<p>A winter storm with snowfall accumulations up to 8 inches swept across Western and Northern Kentucky. Western Kentucky averaged 5 to 8 inches, while Northern Kentucky ranged 2 to 6 inches. The snowstorm originated in the midwest and moved up the Ohio Valley.</p> <p>The storm was accompanied by winds of 30 to 40 miles an hour causing considerable blowing and drifting. Windchill indices plummeted to 20 to 25 degrees below zero. The area around Henderson (Henderson County), seemed to receive the brunt of the storm recording 8 inches on the ground. Other high totals were: 7 inches at Paducah and 6 inches at Owensboro. Power outages were numerous as snow built up and winds hampered power lines. Meetings were cancelled. Flights were postponed. Many schools and several businesses were closed on the 27th for several days. Numerous roads were closed over Western Kentucky due to blowing and drifting snow late in the afternoon on the 27th through the morning of the 28th. Traffic jams were many. A number of traffic accidents occurred, some with serious and even fatal injuries. There were also a number of automobiles sliding off roadways into ditches.</p>									
<b>16 LOUISIANA</b>									
Calcasieu Parish	12	0850CST					5		SVR TSTM
<p>A line of severe thunderstorms passed through the parish with winds measured at 60-70 mph. Widespread minor to moderate damage was reported. Several homes and office buildings received substantial roof and window damage in Lake Charles. There were numerous trees and power lines downed during the storm.</p>									
Beauregard Parish	12	0900CST					5		SVR TSTM
<p>A severe thunderstorm passed through the parish and caused considerable damage near DeRidder. Several mobile homes were destroyed by high winds along with trees and power lines downed. Also, several airplanes at the airport were destroyed.</p>									
Cameron Parish	12	0912CST					?		SVR TSTM
<p>A severe thunderstorm passed over the city of Cameron. Wind gusts to 80 mph were measured at a helicopter operations center.</p>									
Evangeline, Acadia, St. Landry, and Jeff Davis Parishes	12	1010CST					5		SVR TSTM
<p>A line of severe thunderstorms passed through the named parishes producing considerable areas of minor to moderate wind damage. Most of the damage reported occurred at Jennings, Crowley, Eunice, and Mamou. Many signs along I-10 were destroyed by the high winds. There were numerous reports of damage to trees, power lines, and roofs.</p>									
St. Landry Parish	12	1030CST					4		SVR TSTM
<p>A severe thunderstorm produced winds that destroyed several barns near the town of Washington.</p>									
Iberville and Pointe Coupee Parishes	12	1100CST			1	5			SVR TSTM
<p>Severe thunderstorms moved through these two parishes causing areas of wind damage. One mobile home was destroyed at White Castle with one person injured. Also, farm buildings near Gross Tete and Maringouin were destroyed. In southern Pointe Coupee Parish, widespread tree and power line damage was reported.</p>									
Lafayette and St. Martin Parishes	12	1100CST					5		SVR TSTM
<p>Severe thunderstorms moved through these two parishes and were accompanied by large hail and damaging winds. Roof, tree, and power line damage was reported in Lafayette. Several mobile homes were destroyed south of Arnaudville. Also, baseball size hail was reported in Breaux Bridge.</p>									
West Baton Rouge Parish	12	1115CST					5		SVR TSTM
<p>High winds accompanying a line of severe thunderstorms damaged the roofs and windows of 15 houses in the parish. In addition considerable tree and power line damage was reported.</p>									
Vermillion Parish	12	1130CST					6		SVR TSTM
<p>High winds accompanying a severe thunderstorm capsized an oil rig in Vermillion Bay. Damage was in excess of 1 million dollars.</p>									
<b>— LOUISIANA —</b>									
East Baton Rouge and Livingston Parishes	12	1130-1230CST					5		SVR TSTM
<p>A line of severe thunderstorms passed through these two parishes causing a considerable of minor to moderate wind damage. Most of the reported damage occurred in the southern sections of Baton Rouge and in Denham Springs. Several mobile homes received substantial damage and widespread damage to trees, power lines, and signs was reported.</p>									
Ascension Parish	12	NOON CST					4		SVR TSTM
<p>A severe thunderstorm caused scattered areas of roof and window damage in Donaldsonville.</p>									
St. Helena Parish	12	1230CST					4		SVR TSTM
<p>High winds accompanying a severe thunderstorm damaged trees and farm buildings in the Pine Grove area.</p>									
Tangipahoa Parish	12	1230CST					4		SVR TSTM
<p>High winds accompanying a line of severe thunderstorms caused minor but widespread damage in the parish. Numerous trees were uprooted, windows blown out, and farm buildings destroyed.</p>									
Terrebonne Parish	12	1240CST	.5	100			5		Tornado (F1) SVR TSTM
<p>A severe thunderstorm moved through the parish causing widespread wind damage. A tornado touched down briefly in Houma and caused moderate damage to 8 homes. Winds of 74 mph were recorded at the Houma Airport. Also, wind and damage from large hail was reported from Pointeaux to Dulac.</p>									
St. Charles Parish	12	1245CST					4		SVR TSTM
<p>A severe thunderstorm passed through the parish and high winds damaged several warehouses in Hahnville.</p>									
Lafourche Parish	12	1315CST					5		SVR TSTM
<p>A severe thunderstorm moved through the parish causing widespread wind damage from Thibodaux to Raceland. Several mobile homes were destroyed along with numerous trees and power lines downed. Wind speeds were estimated near 80 mph.</p>									
St. Tammany Parish	12	1315CST					4		SVR TSTM
<p>A severe thunderstorm struck the Slidell area. Two houses on the shore of Lake Pontchartrain lost their roofs. Also, marble size hail fell in the northern portion of Slidell.</p>									
Orleans and Jefferson Parishes	12	1320CST					5		SVR TSTM
<p>A line of severe thunderstorms moved through the metro New Orleans area causing scattered areas of wind damage. Damage was confined to trees, power lines, roofs, carports, and windows. Winds were estimated at 85 mph in the southern sections of New Orleans. At 1345 CST NWS wind equipment on Lake Pontchartrain clocked winds between 60 and 75 mph. At Grande Isle in Jefferson Parish, 3 large helicopters were damaged by the high winds.</p>									
St. Bernard Parish	12	1400CST					4		SVR TSTM
<p>High winds accompanying a severe thunderstorm caused damage to several homes, numerous trees and power lines at both Poydras and Violet.</p>									
Washington Parish	12	1400CST	?	?	2	5			Tornado (F1) SVR TSTM
<p>A severe thunderstorm moved across the parish producing wind damage with large hail also reported. A tornado touched down in the community of Oak Grove destroying several mobile homes, and downing trees and power lines. Two persons in one of the mobile homes were slightly injured.</p>									
Plaquemines Parish	12	1400CST					?		SVR TSTM
<p>Winds of 70 mph were measured by an oil rig at the mouth of the Mississippi River. No damage was reported.</p>									
<b>17 MAINE ————— NO REPORT RECEIVED</b>									
<b>18 MARYLAND and D.C.</b>									
District of Columbia & Eastern Maryland	11-13				0	0	0	0	Dense Fog
<p>Extensive fog developed as warm, moist air overrode cool surface conditions. Visibilities over much of the area were down to only fractions of a mile for prolonged periods. Numerous traffic accidents resulted. In addition, there were several minor boating mishaps on Chesapeake Bay and adjacent tributaries.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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					KILLED	INJURED	PROPERTY	CROPS	

## MARYLAND and D.C.

Western Maryland & District of Columbia	13-15				0	0	6	0	0	Rain
<p>Low pressure developed on a slow-moving cold front. Rainfall of 2 to 3 inches was prevalent over the area, and some sections reported up to 5 inches. Flooding was experienced over low-lying land along the Potomac River valley as well as along the Monocacy River in Frederick County. Heavy damage was inflicted upon the Chesapeake and Ohio Canal Park...with some 70 miles of the park covered by water, leaving 12 miles of top surface badly eroded and a 300-foot section completely washed away. In Frederick County four persons were rescued from an inundated vehicle and another had a close call when her car was carried away, leaving her hanging onto tree limbs. High waters prompted the closing of 40 roads in Frederick County, alone. Elsewhere, hundreds of flooded basements were reported from Washington County west through Garrett County. The prolonged rainfall that began late on the 13th and tapered off during the day on the 15th, brought a peak flow of the Potomac River of 142 billion gallons at Washington, D.C. This was the largest total since the 232 billion gallons per day that was generated by Tropical Storm "Agnes" in 1972.</p>										
Western	27-28				0	0	0	0	0	Snow, Sleet, Freezing Rain
<p>A large low pressure system moved northeastward out of the southern Mississippi Valley...bringing a combination of snow, rain and sleet. Snowfall began during the middle of the day on the 27th, changing to mixed sleet and freezing rain during the night and into early on the 28th. Snow accumulation was less than 4 inches, but glazed roads were responsible for many highway accidents from western Frederick County westward into Washington, Allegany and Garrett Counties.</p>										

19 MASSACHUSETTS ————— NONE REPORTED

## 20 MICHIGAN

West shore of Saginaw Bay, from Bay City State Park to White's Beach, Arenac Co.	27	Evening			0	0	5	0	0	Ice Jam
<p>East to northeast gales forced ice sheet onto shore. 300 persons evacuated. Many shoreline structures destroyed. 17 houses damaged, 5 of them seriously. One house burned when gas line ruptured.</p>										
Delta and Menominee Counties	28	Afternoon			0	0	4	0	0	Wind
<p>Gusts to 70 mph at Escanaba airport. Factory unroofed at Wilson.</p>										

## 21 MINNESOTA

West	4/5	Afternoon through Morning			16	?	0	0	0	Blizzard
<p>Blizzard conditions began in the extreme northwest corner of Minnesota around 1400 CST on February 4th. Blizzard conditions spread south at approximately 50 miles an hour reaching the Iowa border between 2000 CST and 2100 CST. Strong winds were channeled and therefore blizzard conditions enhanced through the Red River Valley into the Minnesota River Valley and along Buffalo Ridge in the southwest corner of the state. The onset of the blizzard was sudden and caught many off guard. Snowfall was light and accumulations reached only an inch or two but the wind increased instantaneously to 50 miles per hour with gusts to 80 miles per hour, the affect of which was described as a wall of white. Visibility was reduced to nothing and the wind chill index dropped to 70 below. The blizzard left everything immobilized in its path. Newspaper articles accounted for over 380 individuals that were stranded in cars, fish houses and in the open until the following day. Drifts reached heights of 10 feet in Watowan and Cottonwood counties. Although the National Guard was able to rescue about 80 people with the use of a crawler type vehicle, most rescue attempts had to be delayed due to the severe cold and lack of visibility. In some cases people became lost or disoriented on snowmobiles and near their cars. It took 6 to 8 hours for conditions to improve enough to permit rescue attempts in the northwest and as much as 12 to 14 hours in the southwest. Some were stranded in cars up to 17 hours. Rescue operations continued around Butterfield until 1500 CST on February 5th. Sixteen people died after becoming stuck or stalled in their automobiles in west central and southwest Minnesota. In separate cases two elderly couples died after leaving their cars. In one case the couple became separated and disoriented and in the other case the couple became lost near their farm. A family of six became stranded on Highway 60 east of Windom around 2000 CST of February 4th. A rescue team got the family to a hospital late the following morning but all eventually died of carbon monoxide poisoning. Ice had formed around their car's exhaust. Five other deaths were attributed to individuals</p>										

## MINNESOTA

Southern Minnesota	18/19	Afternoon through Morning			0	0	0	0	0	Heavy Snow
<p>abandoning their automobiles and another elderly man died from weather related causes near his car. There were numerous cases of frostbite, some of which required hospitalization.</p> <p>The storm began Saturday afternoon with freezing rain and drizzle coating power lines and highways in portions of the southwest part of the state. Snow increased in intensity and dropped 8 to 12 inches in the southwest and 5 to 8 inches in the south central and southeast. Winds 30-40 mph piled 10 to 15 ft. drifts over many of the highways in the southwest. Numerous people were stranded and electricity was cut off to thousands of homes after power lines were downed due to the heavy buildup of ice.</p>										

## 22 MISSISSIPPI

Handcock County	12	1330CST			0	4	4	0	0	High Winds
<p>Strong thunderstorm winds picked up a lighted portable road sign and tossed it through a Picayune fast food store. Trees were uprooted and a barn was destroyed in the Catahoula Community</p>										
Jones County	12	1400CST			0	0	4	0	0	High Winds
<p>Winds from a severe thunderstorm destroyed a barn and damaged the roof of a church near Moselle.</p>										
Green County	12	1500CST			0	0	5	0	0	High Winds
<p>High winds from severe thunderstorms passed over the county damaging three homes, destroying several barns and uprooted numerous trees.</p>										
Wayne County	12	1530CST			0	0	4	0	0	High Winds
<p>Thunderstorm winds destroyed an unoccupied mobile home near Waynesboro. No other wind damage was reported.</p>										

## 23 MISSOURI

SOUTH CENTRAL, SOUTHWEST, EAST and CENTRAL	25-27				?	?	6	0	0	Winter Storm Heavy Snow
<p>Heavy snow began in portions of the Ozarks on the night of the 25th. The snow spread to central and east portions on the 26th. Some thunderstorms were mixed in with the snow and this increased the snowfall rates in those locations. The heaviest amounts were in the Rolla-Vichy area where it piled up to 24 inches of heavy wet snow. Amounts of 8 to 16 inches were common over the rest of the area. The heavy snow was combined with strong winds the night of the 26th and early on the 27th. This resulted in many downed power lines and tree limbs. Some deaths were attributed to snow shoveling and to traffic accidents during and after the storm. Some roofs fell in due to the heavy weight of the snow.</p>										

24 MONTANA ————— NONE REPORTED

## 25 NEBRASKA

Eastern Nebraska	4-5	Night-Early Morning			0	0	3	0	0	High Winds
<p>Strong north winds gusted to 55MPH at Omaha and Norfolk and around 50MPH at Lincoln. A supermarket window was blown out in Blair. Damage to signs and minor power outages were also reported.</p>										
Panhandle Nebraska	11	Afternoon			0	0	0	0	0	Heavy Snow
<p>Four to five inches of snow was reported across the south Panhandle from Big Springs to Kimball. Strong winds resulted in blowing and drifting snow.</p>										
Panhandle and Central Nebraska	15-16	Night-Morning			0	0	0	0	0	Heavy Snow
<p>Locally heavy snow accumulated to four inches at Chadron and Lyman and five inches at Stapleton.</p>										

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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
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## NEBRASKA

Southwest, Central and Northeast Nebraska 17-18 0 0 3 0 Heavy Snow  
 Heavy wet snow accompanied at times with lightning and thunder fell in a swath from southwest through northeast Nebraska bounded on the east from Superior to Tekamah and on the west from Potter to Valentine. Very heavy amounts in excess of ten inches fell in the central and northeast enclosed in an area from Sioux City to David City to Alma to Dunnington to Butte with some snowfalls of 20 inches or more reported in the northeast. These included 24 inches at Verdigris, 22 inches at Norfolk, Madison, Meadow Grove and Randolph and 20 inches reported at Orchard, Plainview and Wisner. Twenty-four hour snowfall records were set at a number of locations including Norfolk and Grand Island. Twenty to forty MPH winds resulted in areas of blowing and drifting snow and many roads in northeast Nebraska were impassable. The wet snow also resulted in scattered power outages.

26 NEVADA ————— NONE REPORTED

27 NEW HAMPSHIRE ————— NO REPORT RECEIVED

28 NEW JERSEY ————— NONE REPORTED

29 NEW MEXICO ————— NONE REPORTED

30 NEW YORK, Coastal ————— NONE REPORTED

## 30 NEW YORK, Central

SCHOHARIE COUNTY, DELAWARE COUNTY	03 0800EST	0	0	2	0	Strong Winds
Strong, gusty (non-convective) winds were responsible for minor wind damage in Schoharie and Northeastern Delaware Counties. Damage was limited to downed powerlines and tree lines.						
EASTERN NEW YORK	05 PM	3	27	6	0	Snowstorm
A severe snowstorm hit Eastern New York on the afternoon of the 5th. The Mid-Hudson Valley around the Orange/Ulster County line was hard hit. Over 6 inches of snow fell in the area, causing several car accidents and power line failures. 7 persons were injured at New Paltz (Ulster County) when their bus slid off a snow-covered road. A mother and her daughter were also killed in Wilmington, Essex County due to snow-covered roads. In Postskill, Rensselaer County, 1,300 homes were without power due to heavy wet snow. And over 10,000 were without power in the Mid-Hudson Valley.						
HERKIMER COUNTY	11 0700EST	0	5	3	0	Freezing Rain
Light rain started to fall about 7AM which started to freeze to bare road surfaces. The roads became slick in the area between Little Falls and East Creek, Herkimer County. Only 2 accidents had been reported.						
CLINTON COUNTY	15 PM	0	0	7	0	Ice Jam Flood
Water from the Great Chazy and Saranac Rivers flooded parts of Clinton County. Ice and water breached one earthen dike around moors.						
OTSEGO COUNTY	15 PM	0	0	5	0	Ice Jam Flood
Melting snow and ice and rain caused water problems along creeks and streams in Otsego County. Minor flooding took place along the tributaries of the north branch of the Susquehanna River.						
HAMILTON COUNTY	15 PM	0	0	4	0	Ice Jam Flood
Ice and melting snow combined with light rain to produce flood conditions along the Sacandaga River. State Rt. 30 was closed for a time due to high water.						
ALBANY, SARATOGA, SCHENECTADY COUNTIES	16 AM	0	0	5	0	Ice Jam Flood
Ice on the Mohawk River had broken loose and caused ice jam flooding on the lower portion of the Mohawk River. A side problem of the warm weather and rain was the fog. This was listed as the cause of several car mishaps.						

## NEW YORK, Central

ULSTER COUNTY	16 AM	0	0	5	0	Ice Jam Flood
The Wallkill River overflowed its bank creating flooding conditions around the New Paltz area.						
BROOME COUNTY	25 AM	0	3	3	0	Snowstorm
After a few days of 60 plus temperatures, Saturday's snowstorm took Broome County off guard. Temperature drops of 15 degrees were not uncommon. As the cold front moved thru, snow began to fall. Only a few minor accidents were reported, with 3 injuries.						
EASTERN NEW YORK	28 AM	4	37	7	0	Freezing Rain
Freezing rain swept into Eastern New York on Tuesday. Traffic throughout Eastern New York came to a stand still for most of Tuesday. Hardest hit areas were the Albany, Schenectady, Saratoga areas and the hilltops of the Lower Hudson Valley and Catskills. In the later stages of the storm, freezing rain changed to snow and gust winds created drifting.						
<b>30 NEW YORK, Western</b>						
Parts of Onondaga County	01 Morning	8	4			Fog
Dense fog reduced visibility to a few feet. Driving was very dangerous. Many accidents occurred. Eight persons were injured. Roads had to be closed. Numerous workers reported late.						
Parts of Erie, Niagara, Cattaraugus, Chautauque, Allegany, Chemung, and other parts of Western and Central New York	13-15			6		Rain & Snow
Mild temperatures melted the snowpack. River ice broke. Ice jams and floods occurred where they usually do every snowmelt time, namely along Cazenovia, Ellicott, Cayuga, Buffalo, Cattaraugus, and Tonawanda Creeks. The most serious ones needing the evacuation of homes, were at the mouths of Cattaraugus and Cazenovia Creeks. Roads and basements were flooded.						
In Chautauque and Cattaraugus Counties, 14 county and state roads were inundated and closed.						
On the 14th, 1 to 2.6 inches of rain fell over the Central Southern Tier. It caused the Chemung River to rise above flood stage at Elmira and Chemung. Minor lowland flooding occurred there.						
In Tioga, Tompkins, Schuyler, and other Central New York Counties, many roads, culverts, and basements were flooded.						
The Genesee River also rose above flood stage at Wellsville and Portageville. The Allegheny River rose to 3 feet above flood stage at Olean. Lowlying lands and many basements were flooded.						
Parts of Western & Central New York	14-15			5		Fog
Dense fog shrouded the area on the evening of the 14th through the early morning of the 15th. Airports were forced to close for many hours. Visibility was at times zero. Travel was very hazardous. There were numerous vehicular accidents.						
Parts of Lewis and Jefferson Counties	16			5		Ice Jams
Ice floes knocked out a railing of a dam at Copenhagen, Lewis County. At Lyons Falls, also Lewis County, power generation was interrupted at the Georgia-Pacific plant due to reduced water at the intakes. Bridges and roads were closed due to the flooding. Several homes were surrounded with water.						
Western and Central New York	27-29			8	7	Snow
A crippling winter storm dumped up to 3 feet of snow over the area. Snow emergencies were declared in many places. Numerous businesses and schools closed for 2 days. Many streets were impassable, a condition that lasted until the first few days of March 1984.						
The Buffalo International Airport was forced to close for one and a half days. Many flights at the Rochester International Airport were cancelled.						
There were countless cases of vehicular accidents because of very poor driving conditions. A dozen cases or more resulted in deaths or injuries to the passengers.						
The weight of the snow was responsible for the collapse of a few structures. The most significant damage was at the Thruway Lanes in Cheektowaga, Erie County. The damage to this popular bowling spot was estimated to exceed 1/2 million dollars.						

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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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	

## 31 NORTH CAROLINA

Western and northern sections	6	0	0	?	?	Snowstorm			
<p>A strong upper-air disturbance resulted in an unexpected snowstorm which dumped between three and seven inches of snow across the mountains, piedmont and northern coastal plain. The snowfall resulted in the cancellation of schools and numerous automobile accidents. Specific snowfall amounts include: Raleigh-Durham 7", Charlotte 6", Asheville 3", Greensboro 4", Rocky Mount 3", and Mt. Mitchell 11".</p>									
Entire State	27	0	0	6	?	High winds			
<p>A sharply defined meso-scale low associated with a gravity wave produced a pressure and wind perturbation that moved eastward across the state during the day. As the wave passed each station the pressure fell dramatically and easterly winds gusted to near-record velocities. At the Raleigh-Durham airport, the pressure fell 14 mb in 50 minutes at 1545 EST, which coincided with a 62 mph wind gust, and a one-minute wind of 44 mph. Similar wind gusts between 50 and 60 mph were reported across the state resulting in widespread damage to trees, powerlines and roofs. Isolated incidents of heavy damage include: \$120,000 to the Charlotte Motor Speedway, \$40,000 to a Cherokee County school, \$100,000 to a 220' radio transmitter tower in Lexington, two homes and a trailer destroyed by fallen trees in Cary. No serious injuries or deaths were reported.</p>									

## 32 NORTH DAKOTA

Southwest	01 Evening	0	0	3	0	High Winds			
<p>High winds (gusts to 59mph at Taylor and 51mph at Dickinson in Stark County) blew out a large picture window and damaged a large sign at Belfield in Stark County.</p>									
East	04 Afternoon and to 05 Morning	5	?	4	0	Blizzard			
<p>A blizzard with extremely strong winds (gusts to 59mph at Fargo in Cass County; 56mph at Grand Forks in Grand Forks County and 52mph at Jamestown in Stutsman County) and light snowfall of about one inch paralyzed Eastern North Dakota. During the blizzard, temperatures dropped to 10 to 20 below zero and wind chill temperatures were around 70 below zero. Numerous roads, including I-94 east of Jamestown and I-29 south of Hillsboro (Traill County), were drifted shut.</p> <p>Several thousand persons became stranded in cars, shopping centers, schools, churches and motels. Four persons died near the Fargo airport from carbon monoxide poisoning after their car struck another vehicle and the driver kept the engine running to use the heater. A man died of exposure near Fredonia (Logan County) when he left his stranded truck and became lost in the storm. Two people died near Sanborn (Barnes County) when their car was hit from behind by a semi-trailer on an icy highway during zero visibility. Several people suffered frostbite injuries, numerous accidents occurred due to icy roads and poor visibilities, plane flights were cancelled, bus service suspended, the metal roofing was ripped from a bank in Grand Forks, and a small plane was flipped over at Larimore (Grand Forks County).</p>									

## 33 OHIO

Entire State	27-28	-	-	1	?	5	0	Heavy Snow	
<p>A severe winter storm dumped up to 2 feet of snow on Ohio. Along with the snow came northeast winds with gusts as high as 50 MPH. The winds dropped visibilities to near zero at times and closed several roads with drifts as high as 6 feet. Many areas in the state were virtually closed for several hours. Hardest hit were the north central and northeast counties. Over a foot of snow fell in the northeast quarter of the state with 4 to 12 inches elsewhere. A patient at a VA Hospital in Chillicothe froze to death after he wandered from his room.</p>									

## 34 OKLAHOMA

Sasakwa, Seminole, County	11	1315CST	0	0	?	?	Hail		
<p>Quarter size hail fell.</p>									
Ada, Pontotoc, County	11	1333CST	0	0	?	?	Hail		
<p>Golfball size hail fell 5 miles west of Ada.</p>									
Sasakwa, Seminole, County	11	1414CST	0	0	?	?	Hail		
<p>Quarter size hail fell.</p>									
Wetumka, Hughes County	11	1445CST	0	0	?	?	Hail		
<p>3/4 inch hail fell.</p>									
Haileyville, Pittsburg County	11	afternoon	0	0	?	?	Lightning		
<p>Lightning struck a car antenna as a man and his wife were driving through Haileyville. Both tires on the passenger side were blown out and the radio and voltage regulator were put out of commission.</p>									
Stigler, Haskell County	11	afternoon	0	0	?	?	Wind		
<p>Strong winds blew a gazebo and a carport onto highway 9 blocking traffic.</p>									
Erick, Beckham County	17	2013CST	0	0	?	?	Wind/Hail		
<p>65 mph winds and marble size hail occurred.</p>									
Erick, Beckham County	17	2030CST	0	0	?	?	Hail		
<p>Golfball size hail fell.</p>									
Gould, Harmon County	17	2038CST	0	0	?	?	Hail/Wind		
<p>3/4 inch hail fell one mile east of Gould and strong winds destroyed a garage and damaged two barns.</p>									
Mangum, Greer County	17	2045CST	0	0	?	?	Wind		
<p>Strong winds lasting for 15 minutes blew down power poles and lines one mile north of Mangum causing road to be closed. Several out-buildings were also damaged.</p>									
Carter, Beckham County	17	2115CST	0	0	?	?	Hail/Wind		
<p>3/4 inch hail and 50 to 60 mph winds occurred.</p>									
Mangum, Greer County	17	2130CST	0	0	?	?	Hail		
<p>1 to 1 1/4 inch hail fell 6 miles north of Mangum.</p>									
Cordell, Washita County	17	2135CST	0	0	?	?	Wind		
<p>Strong winds blew roof off of a trailer, destroyed one out-building and blew many signs down 4 miles west of Cordell.</p>									
Cordell, Washita County	17	2155CST	0	0	?	?	Hail		
<p>3/4 inch hail fell.</p>									
Lawton, Comanche County	17	2313CST	0	0	4	?	Wind/Hail		
<p>Strong winds destroyed 3 mobile homes and damaged 7 others with slight damage occurring across Lawton. Damage estimated at \$40,000. 3/4 inch hail also fell at Fort Sill.</p>									
Lindsay, Garvin County	18	0012CST	0	0	?	?	Wind/Hail		
<p>55 to 60 mph winds and 3/4 inch hail occurred.</p>									
Velma, Stephens County	18	0030CST	0	0	?	?	Hail		
<p>3/4 inch hail fell.</p>									
Chickasha, Grady County	18	0033CST	0	0	?	?	Wind		
<p>Strong winds uprooted a tree causing a road to be blocked.</p>									
Wayne, McClain County	18	0034CST	0	0	?	?	Wind		
<p>Winds estimated at 60 mph occurred.</p>									
Faoli, Garvin County	18	0035CST	0	0	?	?	Hail		
<p>3/4 inch hail fell.</p>									
Noble, Cleveland County	18	0045CST	0	0	?	?	Wind		
<p>Strong winds did considerable damage to several out-buildings 8 miles east of Noble.</p>									
Byars, McClain County	18	0050CST	0	0	?	?	Wind		
<p>Strong winds took parts of roofs off of out-buildings.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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					KILLED	INJURED	PROPERTY	CROPS	PROPERTY	CROPS	

## OKLAHOMA

Ardmore, Carter County	18	0130CST									Wind
Civil Defense director reported strong winds blew a truck off of the road just south of Ardmore and destroyed a barn just west of Ardmore. Damage to the barn was estimated at \$10,000.											
North Half of State	18	all day									Winds
An intense low pressure system moving across southwestern Kansas caused winds to gust in excess of 50 mph at several locations. At Boise City, winds gusted to 75 mph, Gage had a gust to 62 mph, Enid reported 56 mph, and Ponca City, Oklahoma City, and Tulsa each reported gusts to 46 mph. Widespread damage was reported to roofs, fences, and awnings.											
Oklahoma City, Oklahoma County	25	2005CST									Hail
Hail up to 1 1/4 inches fell in northern Oklahoma City.											
Jones, Oklahoma County	25	2020CST									Wind
Strong winds destroyed or heavily damaged several out-buildings and barns just west and northwest of Jones.											
Luther, Oklahoma County	25	2025CST									Hail/Wind
3/4 inch hail fell along with strong winds which blew down trees 15 to 20 feet high and 15 to 20 inches in diameter.											
Wellston, Lincoln County	25	2030CST									Hail
Quarter size hail fell.											
Chandler, Lincoln County	25	2058CST									Wind
Winds gusting to 68 mph damaged several out-buildings and destroyed a carport.											
Perry, Noble County	25	2100CST									Wind
Strong winds blew down power poles and lines keeping residents in a blackout til next morning.											
Agra, Lincoln County	25	2118CST									Hail/Funnel Cloud
Golfball size hail fell 3 miles south of Agra. A funnel cloud was also reported at this time.											
Fairview, Major County	25	2215CST									Hail
Hail the size of pennies fell.											
Okeene, Blaine County	25	2221CST									Hail
Dime size and larger size hail fell.											
Hennessay, Kingfisher County	25	2225CST									Hail/Wind
Hail the size of pennies and winds gusting to 65 mph occurred.											
Waukomis, Garfield County	25	2240CST									Hail
Dime to penny size hail fell.											
Enid, Garfield County	25	2355CST									Hail
3/4 inch hail fell.											
Walters, Cotton County	26	0245CST									Hail
3/4 inch hail fell.											
Marlow, Stephens County	26	0325CST									Wind/Hail
Strong winds blew down power lines, fences, and several large trees. Penny size hail also occurred.											
Bartlesville, Washington County	26	early-morning									Lightning
Lightning struck a house causing \$1,000 damage.											
Entire State	26-27	night-day									Winds
An intense low pressure system moved across the state producing winds of 25 to 35 mph with gusts of 50 to 60 mph. Winds caused damage to many power lines with several cities being without power for several hours. Other damage was done to roofs, mobile homes, awnings and trees.											

## 35 OREGON

Most of Oregon	9										Wind/Thunder/Hail Snow
In Lane County, gusts nearing 40 mph accompanied storm which blew down trees causing several power outages. Thunder, lightning and hail accompanied the storm in the Portland-Metro area. Snow fell in the mountains and Eastern Oregon causing various slick roads and fender benders.											
In Athena (Umatilla County) wind gusts damaged a mobile home.											
Western Oregon	12-13										Heavy Rain & Flooding
A heavy rain caused floods, mudslides, power outages, and accidents. Eugene was drenched with a 4.51 inch, 24-hour total. Flood warnings were issued for the Willamette River at Harrisburg and No. Fork of the Coquille. Mud and rock slides plagued many highways. In many areas, officials advised residents to boil drinking water because of drainage and turbidity problems.											
Keating, Baker County	14										Ice Jam Flooding
Flooding caused by an ice jam caused the closure of Keating school. Water damaged furnaces and equipment so that the building was without heat.											
Southwest Oregon	14										Heavy Snow and Rain
Heavy snowfall caused brief closure of I-5 near Mt. Ashland where the storm dumped 10 inches of snow. Just northward, Roseburg and vicinity was drenched by 3 inches of rain. This caused minor flooding. Gale warnings were posted along the coast where over a half an inch of rain fell in a 24-hour period.											
Coquille Valley	20										Rain
Rain inundated the Coquille Valley causing localized flooding.											
Willamette Valley	24										Wind
Gusts of 45 mph were reported in Eugene and Florence but were not accompanied by power outages.											

## 36 PENNSYLVANIA, Eastern

Eastern Pennsylvania	14-	0100									Heavy Rain, Flood
16 1900 EST											
Rain, which was heavy at times, fell from 1 AM 14th to 9 PM on the 15th. The rain fell on frozen ground which was also snow covered much of the north portion. Rainfall amounts ranged from a little over 1-inch to around 5-1/2 inches. The rain and melting snow could not soak in and quickly ran off. Initially, considerable drainage flooding resulted then widespread small stream flooding followed. Finally there was river flooding. Many of the streams and rivers were ice-covered, which broke up and melted. Ice jams added to the problems on some streams. The worse flooding occurred along and to the west of the main stem of the Susquehanna and along the west branch of the Susquehanna and over its water shed. This was the area of the heaviest rain (2 to 5-1/2 inches). Light to moderate flooding occurred along the East Branch and minor flooding over the remainder of Eastern Pennsylvania. Fields, parks, parking lots, roadways, houses and other buildings were flooded. Drainage and stream flooding washed out or undermined roads, washed out bridges and caused a few mud slides and a few basement walls to collapse. Hundreds of houses or other buildings were flooded causing considerable property damage and forcing evacuation of at least 150 families. Although few crops were in the fields, some winter wheat was damaged and extensive soil erosion resulted in damage to fields. Following are some of the damage estimates that are available:											
											\$500,000
											47,000
											43,000
											10,000
											1,176,200
											125,000
											22,300
											321,000
											200,000
											100,000
											\$5 million
											\$5 million

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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					KILLED	INJURED	PROPERTY	CROPS	
<b>— PENNSYLVANIA, Eastern</b>									
Eastern Penna.	27-1900 EST								
	28 1700 EST				0	1	4	0	Glaze, Wind
	<p>Precipitation began as snow over the northern two-thirds of the area and then changed to sleet and freezing rain. An inch or two of snow and ice accumulated. Rain or freezing rain and sleet fell over south portions, but changed to rain during the morning. The ice coating on trees and wires combined with wind gusts to around 35 MPH to down trees, limbs and utility lines. About 20,000 customers had service interrupted. At least one chimney was toppled and one store window was blown in. The top blown off one tree landed on an automobile injuring the woman driver. The ice and snow on the roads resulted in many traffic accidents with accompanying injuries. The precipitation changed to all rain during the afternoon of the 28th, but changed back to snow at night. The light snow and falling temperatures brought slippery roadways again in the evening and into the morning of the 29th. This brought another rash of traffic accidents.</p>								
<b>36 PENNSYLVANIA, Western</b>									
Centre, Clinton, and Hubtingdon Counties	14-15				0	0	7 <sup>1</sup>	2	Flood
	<p>Three to six inches fell over the area in a 36 hour period causing the Susquehanna River and its tributaries to flood. Many roads were closed, shoulders eroded away, basements flooded, several small bridges washed out or severely damaged, and many families evacuated from their homes. Flashboards were broken at Cold Stream Dam at Phillipsburg. Total damage estimate about \$12 million.</p>								
Bedford and Lawrence Counties	25 morn				2	3	2	0	Snow
<p>A man was killed, and his wife injured in a one car accident on a "slippery road" (Route 30) two miles east of Breezewood. A woman died, and two others were injured in a one car accident on a "slushy" road (Route 208) in Wilmington Township.</p>									
Erie and Venango Counties	27 aftn				4	2	2	0	Snow
<p>A man died in an accident between his car and a jackknifed semi-tractor trailer during a snowstorm that produced about 20 inches of snow. Two passengers were seriously injured. The accident occurred at the intersection of Routes 6 North and 86 in Washington Township. A man died from a heart attack while operating a snow blower in Cranberry Township. Two other men died from shoveling snow in Erie City.</p>									
<b>37 RHODE ISLAND — NONE REPORTED</b>									
<b>38 SOUTH CAROLINA</b>									
NORTHERN & NORTHWESTERN SOUTH CAROLINA	6 A.M.				0	0	4	0	SNOW
	<p>A low pressure area developed in south central South Carolina on the 5th and moved northeastward to a position off the North Carolina Coast on the 6th. Snowfall early on the 6th disrupted traffic, forced schools to close over northern S.C. and was responsible for numerous accidents. The greatest snow accumulations were in York County where snow depths reached 3 to 5 inches. A trace or more of snow fell north of Augusta-Columbia-Florence line.</p>								
EASLEY PICKENS COUNTY	13 2330 EST				0	0	4	0	LIGHTNING
NORTHWESTERN SOUTH CAROLINA	13/14				0	0	4	3	HEAVY RAINS, FLOODING
<p>Heavy rains up to 6 inches over a 48 hr. period caused flash flooding on many headwater streams, Greenville, Rockhill, and other urban areas. Heavy flooding developed along the Broad River with general rises on all other major rivers.</p>									
<b>— SOUTH CAROLINA</b>									
STATEWIDE	27 A.M & P.M.				0	0	5	3	HEAVY RAINS, STRONG WINDS, FLASH FLOODS
<p>An area of heavy rains and strong winds moved across S.C. during the late morning and early afternoon, breaking limbs and trees, disrupting electrical service, and causing other minor damage. Winds were highest near the coast. At Charleston just of 55 miles an hour were recorded at 1101 EST and at Greer at 1016 EST, 43 miles an hour. Falling trees disrupted electrical service and caused other damage in many areas of the state, including but not limited to Greenville, Spartanburg, Anderson, Ware Shoals, Greenwood, Rockhill, Charleston and North Charleston. Two tornados and one or more localized windstorms were also reported and are described separately. Flash flooding in Spartanburg caused minor damage at Church Street. Also other minor flooding occurred across northwestern S.C.</p>									
EDISTO BEACH COLLETON COUNTY	27 1050 EST	0.3	20	0	0	3	0	0	TORNADO (F1)
<p>A waterspout moved inland ripping the porch off a front-row beach cottage and damaging the roof of a second row home before dissipating. Path 0.3 miles long and 20 yards wide.</p>									
JOHNS ISLAND CHARLESTON COUNTY	27 1100 EST	0.3	100	0	0	3	0	0	TORNADO (F1)
<p>A small tornado damaged two homes, felled a number of trees and disrupted utilities. Path 0.3 miles long, 100 yards wide.</p>									
<b>39 SOUTH DAKOTA</b>									
Northeast & East Central	04-05	1700-1200CST	-	-	0	0	0	0	Blizzard
<p>A fast moving blizzard pounded the northeast and east central with light snow and raging winds. Snow amounts were generally less than two inches regionwide. As the storm progressed, temperatures dropped thirty degrees. In three hours and winds gusted to 70 mph. Fierce winds struck quickly, plummeting visibilities to zero and making travel difficult in a matter of minutes. No travel was advised in Roberts, eastern Marshall, eastern Day Counties. Hundreds of travelers became marooned in the white-out and the highway crews were pulled off roads to wait for abating winds. Andover (Day County) had a 4-5 hour power outage as a result of the strong winds.</p>									
Deuel County	11 Evening	-	-	0	0	3	0	0	Ice Storm
<p>An ice storm coated areas with up to three inches of ice. The worst area was from three miles north of Goodwin southeast to Astoria. Eleven utility poles were ruined, resulting in an eight hour power outage in some areas.</p>									
Buffalo and Jerauld Counties	11 Evening	-	-	0	0	2	0	0	Ice Storm
<p>An ice storm left up to six inches of ice from Gann Valley (Buffalo County) to just west of Messington Springs (Jerauld County) damaging several utility poles.</p>									
Marshall County	13 0200-1600CST	-	-	0	0	0	0	0	Ice Storm
<p>An ice storm resulted in a fourteen-hour power outage in the Hills area.</p>									
Southeast	18-19	0500-0100CST	-	-	0	0	0	0	Heavy Snow
<p>Heavy snow, accompanied by strong winds gusting to 50 mph, hampered travel and forced numerous cancellations of church services. Snow began in early morning and continued throughout the day, along with low visibilities. As winds increased in mid-afternoon, roads became blocked or partially blocked by drifts of over a foot. Total accumulations ranged from 6 to 14 inches, as the extreme southeast was hardest hit.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1964

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>40 TENNESSEE</b>									
Milan, Gibson County	5	am			4				High wind
High winds associated with the passage of a cold front caused widespread damage in the northern portions of Milan. At least 14 different locations reported some damage. Damage occurred primarily on Wahl Street, Stewart Street, and N. First Street. Several buildings sustained roof damage; a number of windows were blown out and a number of trees downed. One unoccupied mobile home was flipped over and demolished.									
Eastern half of Tennessee	5-6				?	?			Heavy snow
Snow began falling in Middle Tennessee around midday on the 5th. The snow spread eastward across Eastern Tennessee and did not end until late in the day on the 6th. Snowfall amounts varied considerably, but reports indicate amounts generally around 3 inches. Some specific snowfall amounts by county include: Davidson 1 inch; Pickett 4-5 inches; Cannon 3 inches; Morgan 3-5 inches; Hamilton 1 inch with about 4 inches on Lookout Mountain; Anderson 3-4 inches; Knox 3 inches; Sevier 3 inches; Cocke 3 inches with 5 to 6 inches in the mountains; Sullivan 3 inches. The snow disrupted traffic and business and forced the cancellation of most school systems. A number of automobile accidents were attributed to the weather.									
Nashville, Davidson County	6	0500 cst			1				Cold
A 56-year-old man, described as a transient, was found frozen to death outside the office of Nashville Electric by police. The low temperature in Nashville was 8 degrees.									
Johnson City, Washington County	6	?			1				Cold
A 63-year-old Johnson City man was found suffering from hypothermia. He was reported in serious condition at a local hospital.									
Memphis, Shelby County	9	2245 cst							Hail
Pea-size hail was reported in the midtown section of Memphis at 10:45 pm cst with marble size hail reported in east Memphis at 10:55 pm cst.									
Dyersburg, Dyer County	10	1150 cst			4				Hail, wind
Golf ball size hail and some wind was reported with a thunderstorm which moved across the northern portion of Dyer County. Largest hail was reported to be 2 inches in diameter and covered the ground in Dyersburg. Newbern, just northeast of Dyersburg, reported a small amount of property damage from the wind and hail (shingles off a few houses and signs blown down). No significant property damage was reported. Heavy rains caused urban flooding in Dyersburg (mainly street flooding).									
Near Paris, Henry County	11	0245 cst			4				Lightning
Lightning with a thunderstorm struck a house outside Paris starting a fire which caused extensive damage.									
Roan Mountain, Carter County	23	aftrn							Heavy snow
Snowfall totalled 18 inches on Roan Mountain putting the Carter County school system on a snow schedule.									
Hamilton County	24	1520 cst			?	?			Hail
One-half inch hail was reported to cover the ground in northwest Hamilton County near Mowbray Mountain. Hail was also reported in East Ridge, TN (eastern part of Chattanooga), at about the same time.									
Pigeon Forge, Sevier County	27	0645 cst			5				High wind
An intense low pressure system moving across Middle Tennessee brought southerly winds to the area. The winds combined with the orientation of the valley accelerated to an estimated 60 to 80 miles an hour causing considerable property damage in and around Pigeon Forge, especially across the southern sections of Sevier County. Three barns on one farm collapsed, and a camping trailer was destroyed. Over 100 trees were blown down, power lines were downed, and a large number of signs were damaged or destroyed. A number of businesses and homes reported roof damage including a motel which lost a large portion of its roof. Residents said that it was the worst wind storm since 1979. The section of the county near Wears Valley sustained heavy damage in the high winds.									
Cocke County	27	0730 cst			?	?			High wind
High winds toppled trees and caused numerous power outages. The strongest winds were reported around 8:00 am cst. One mobile home was reported overturned and a number of buildings experienced wind damage. A house in Cosby sustained heavy damage when the wind ripped out one wall.									

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>TENNESSEE</b>									
South Greene County	27	am			5	?			High wind
High winds caused scattered damage across the southern portions of the county. Trees were downed causing power outages. The Holiday Inn in Greeneville and the gym at South Greene High School sustained roof damage, and there were numerous reports of roof and carport damage to houses across the south sections of the county. The high winds moved in a path from the south end of the county to the northeast.									
Unicoi County	27	0845 cst			5	?			High wind
Winds gusting to near hurricane force were responsible for causing thousands of dollars in damage to business and residential property damage. Power and telephone service was disrupted by downed lines. Trees and signs took a beating from the wind. Two businesses in downtown Erwin sustained major wind damage including plate glass windows destroyed.									
White Pine area, Jefferson County	27	1030 cst				?	?		High wind
High winds toppled trees and caused power outages. A large barn was destroyed by wind around noon. Poles 2 feet deep into the ground were lifted completely out of the ground. An observer near White Pine reported wind gusts to 79 miles an hour.									
Jonesboro, Washington County	27	am			5	?			High wind
Practically every building on the Robinson Dairy Farm sustained some damage from high winds. A roof to a new dairy barn was lifted off in two sections and carried about 1000 feet before shattering.									
Elizabethton, Carter County	27	am				?	?		High wind
One mobile home was completely destroyed and at least 5000 homes without power due to high winds in and around Elizabethton. A number of businesses sustained damage ranging from broken windows to roof damage. Several reports of outbuildings blown over and trees uprooted came from Stoney Creek, Hampton, Valley Forge, and Biltmore. A portion of the movie screen at a drive-in was damaged as was a lumbershed.									
Eastern Sullivan County	27	am				?	?		High wind
High winds ripped through the mountainous areas around South Holston Lake damaging homes, barns and other buildings, uprooting trees and knocking out power. Boat docks and boats on the lake were also damaged.									
<b>41 TEXAS, Northern</b>									
Parker County	11	1230CST-1325CST			0	0	0	0	Hail
A thunderstorm moved east across the northern part of the county during the early afternoon. Spotters reported golf ball size hail at Poolville in the northwest corner of the county at 1230CST. Later, at 1325, golf ball size hail fell at Springtown in the northeast corner of the county.									
Erath County	11	1425CST-1600CST			0	0	0	0	Hail
Spotters reported golf ball size hail 10 miles northwest of Stephenville at 1425CST. At 1515, hail, ranging in size from 1/2 to 3/4" was covering the ground 5 miles west of Stephenville. Near Morgan Mill, golf ball size hail was reported at 1555.									
Comanche County	11	1430CST			0	0	0	0	Hail
3/4" hail was reported just southwest of DeLeon.									
Wise County	11	1426CST-1510CST			0	0	0	0	Hail
Amateur radio spotters reported golf ball size hail near Boyd at 1426CST. Later, at 1510, 3/4 inch hail was observed near Boyd. Spotters also reported 3/4" hail near Reno and Newark at 1455.									
Henderson County	11	1715CST-1730CST			0	0	4	?	Hail, Wind
An intense thunderstorm produced high winds which destroyed a barn and inflicted heavy damage to a home near Leagueville. Half dollar size hail was reported at Brownsboro. No injuries were reported.									
Denton County	11	1530CST			0	0	0	0	Hail
3/4" hail was reported by spotters in Denton.									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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>— TEXAS, Northern</b>									
Leon and Anderson Counties	11	1735CST 1800CST 1920CST	1-1/2 1/2 1	100 100 100	0 0 0	3 0 3	6 4 6	? ? ?	Tornado F2 Tornado F2 Tornado F2
									<p>An intense thunderstorm produced at least 3 tornadoes as it moved from southern Leon County, northeastward to Anderson County. The first tornado touched down on the southwest side of Normangee in Leon County at 1735CST. Tearing the business section of the town, it destroyed 15 business buildings and the city hall. A lumber yard and two mobile homes were also destroyed as it traveled about 1-1/2 miles before lifting.</p> <p>Witnesses described one mobile home's destruction as an "explosion" when the tornado struck, throwing debris several hundred feet into the air. In the other mobile home, a man and his infant son were asleep when the tornado struck and flipped the trailer over, breaking it apart. The man was slightly injured, with the infant, which slept through the event, unharmed.</p> <p>Several diners in a cafe were slightly injured by flying glass and debris during the storm. All took shelter inside the structure as the tornado approached.</p> <p>Damage in the city was estimated at near \$2 million.</p> <p>Another tornado touched down briefly just west of Centerville at about 1800CST. Three homes were heavily damaged and a television tower was destroyed.</p> <p>At 1920CST the storm spawned another tornado, this time at Palestine. A path about 100 yards wide and one mile long through a residential area destroyed nine homes, one business building, tore the roof off the primary school and parts of the roofs of the junior high gym and several other school buildings.</p> <p>Several injuries were reported, the worst being a broken arm. Being a Saturday night, most of the residents of the destroyed homes were away at the time. However, one family that was home did experience some minor injuries when the roof was torn from their home. Their three year old daughter was found in the remains of the attic afterwards, sitting astride some rafters, unharmed.</p> <p>Damage estimates were close to \$1 million for the school property.</p>
Collin, Tarrant, and Dallas Counties	11	1910CST- 2005CST			0	0	4	0	Hail
									<p>An intense thunderstorm moving east through northern Tarrant County produced the first report of golf ball size hail in the North Richland Hills area. Amateur radio spotters following the storm reported marble to golf ball size hail in extreme northeast Tarrant and northwest Dallas Counties between 1930CST and 2000. At 2000, 3/4" hail was reported in southern Collin County. 28 jet aircraft at DFW Airport were damaged during the hail storm. As a result, the airline had to cancel approximately 200 flights over the next two days.</p> <p>At 2005CST, 3/4" hail was reported in Benbrook</p>
Cass and Morris Counties	11	1730CST- 1740CST			0	0	0	0	Hail
									<p>Golf ball size hail was reported in Naples in Morris County and near Dalton in Cass County at 1730CST. At 1740, golf ball size hail was reported near Daingerfield on the Morris/Cass County line.</p>
Bowie County	11	1730CST			0	0	0	0	Hail
									<p>Golf ball size hail and winds estimated at 50 MPH reported near Springhill.</p>
Parker County	11	2000CST			0	0	3	0	Hail
									<p>One inch hail broke car windows in eastern Parker County along I-30.</p>
Rusk County	11	2115CST			0	0	0	0	Hail
									<p>One inch hail was reported 15 miles west of Henderson.</p>
Angelina County	15	1635CST			0	0	0	0	Hail
									<p>Golf ball size hail was reported 8 miles north of Lufkin.</p>
Montague County	18	0017CST			0	1	4	0	Winds
									<p>Thunderstorm winds estimated at 80 MPH destroyed a mobile home, did extensive damage to the post office and caused part of another building to collapse onto an occupied truck in Ringgold. The man was trapped for a short time before being rescued, but suffered only minor injuries.</p>
Wise County	18	Early AM			0	0	4	0	Lightning
									<p>Lightning struck a home, setting it ablaze and destroying it. No injuries were reported.</p>
<b>— TEXAS, Northern</b>									
Erath County	26	0400CST	1/4	30	0	0	4	?	Tornado F1
									<p>An amateur radio spotter observed a small tornado destroy his barn, damage another building, and destroy a 100 ft. tall radio tower. The tornado continued a few hundred yards across a field before lifting, causing no more damage.</p>
Mills County	26	0415CST			0	0	0	0	Hail
									<p>Baseball size hail was reported near Mullin.</p>
Bosque and Hamilton Counties	26	0500CST 0512CST			0	0	0	0	Hail
									<p>Golf ball size hail was reported at Hico in Hamilton County at 0500CST. At 0512, hail to golf ball size was covering the ground near Morgan in Bosque County.</p>
McLennan County	26	0710CST	Short Narrow		0	0	4	?	Tornado F1
									<p>A small tornado touched down near Farm Road 2490 near China Spring, destroying one house and damaging another. Several other small out buildings were destroyed in a 50 yard wide and one half mile long path.</p>
Delta County	26	0915CST			0	0	4	0	Lightning
									<p>Eleven head of cattle were killed by lightning during a thunderstorm.</p>
Hunt County	26	1700CST 1715CST 1700CST- 1715CST	Short Narrow Short Narrow		0 0	0 0	0 0	0 0	Tornado F0 Tornado F0 Hail
									<p>Two small cold air tornadoes were observed and filmed during the late afternoon. The first was reported by DPS on the ground near I-30 at Caddo Mills in southwest Hunt County at 1700CST.</p> <p>Several small rope like funnels were observed as the storm tracked northeast toward Greenville, passing south of the city. A Weather Service employee flying on a commercial airline also observed the tornado on the ground at 1715CST just south of Greenville. Amateur radio spotters reported golf ball size hail with the parent thunderstorm. The only reported damage was a few downed trees and power lines as the tornadoes went through open country.</p>
Hopkins County	26	1750CST-			0	0	0	0	Hail
									<p>Numerous reports of golf ball size hail over the entire county were received as a thunderstorm moved through the area.</p>
Delta and Lamar Counties	26	1841CST- 1855CST			0	0	0	0	Hail
									<p>3/4" hail was reported near Cooper at 1841CST in Delta County, and in the western section of Lamar County at 1855.</p>
Wilbarger County	26	2100CST			0	0	4	0	Wind
									<p>High winds blew the roof off the elementary school in Vernon. Several other buildings and houses suffered roof damage, as well as numerous signs being downed during the high wind episode. Gusts were estimated at over 60 MPH.</p>
Bell County	26	Late PM			0	0	4	0	Wind
									<p>High winds, clocked at a peak gust of 62 MPH at Killen airport, caused scattered damage in the county. Numerous roofs were damaged as were signs, trees, and power lines.</p>
<b>41 TEXAS, Southern</b>									
SOUTH CENTRAL	12	0330CST			0	0	5	5	TSTM WINDS
									<p>Thunderstorms formed along a Northeast-Southwest oriented cold front near Del Rio about 2230CST on the evening of the 11th, and began moving eastward at about 25 mph. Strong winds were produced ahead of the line with the first reports of significant weather received from Medina about 0215 CST. Honda indicated marble size hail, brief heavy rains and winds gusting to 50 mph. As the squall line proceeded eastward across South Texas, reports were received north of a line from Laredo to Corpus Christi of wind gusting 40 to 50 mph, with isolated gusts over 60 mph. The highest gust recorded was 70 mph at Hobby airport in Houston. Widespread minor damage reported with strong winds generally included trees knocked over, power and telephone lines down and roof damage to buildings. Numerous storage sheds were tossed about. In addition to the high winds, tornadoes, heavy rain and some flooding were reported as the thunderstorms moved eastward. They are listed in the following summaries by county.</p>

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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	

## — TEXAS, Southern

BEXAR COUNTY	12 0310CST	Small Narrow	0	0	4	0	TORNADO (FO)		
	0315CST	Small Narrow	0	0	2	0	TORNADO (FO)		
	0320CST	Small Narrow	0	0	2	0	TORNADO (FO)		
	0325CST	Small Narrow	0	0	3	0	TORNADO (FO)		
<p>As the storm system moved through Bexar County, four small tornadoes were reported within the city of San Antonio. The first, third and fourth tornadoes, chronologically, were likely produced by the same parent thunderstorm, with the second tornado being produced by another thunderstorm. All four tornadoes were small and characteristically short lived.</p> <p>The only damage was done by the first tornado which touched down in the South Central portion of the town tearing pieces of metal roofing from buildings and tossing them about. It lifted, then touched down a second time disappeared. As it's parent thunderstorm continued along an east - northeastward track, it produced tornado number three in the east Central portion of the city and tornado number four on the extreme east side of the city. Tornado two was produced on the Southeast side of San Antonio by a separate thunderstorm.</p>									
GONZALES COUNTY	12 0430CST		0	0	?	?	HAILSTORM		
<p>A severe thunderstorm moved across northern Gonzales County, briefly producing ping-pong ball size hail. Damage was not indicated.</p>									
HARRIS COUNTY	12 0530CST		0	0	0	0	FUNNEL		
<p>A small funnel was reported by a pilot near Tomball.</p>									
GALVESTON COUNTY	12 0700CST	Small Narrow	0	0	0	0	TORNADO (FO)		
<p>A small tornado was reported by Galveston Police Department. It caused no known damage.</p>									
HARRIS COUNTY	12 0725CST	Small Narrow	0	0	5	2	TORNADO (FO)		
<p>A small tornado touched down near the USF Chemical Plant at LaPorte. The combination of wind and debris broke windows and caused minor structural damage to residences near the plant. Winds were estimated at near 95 mph.</p>									
ORANGE COUNTY	12 0830CST		0	0	0	0	FUNNEL		
<p>A funnel was sighted by the Orange Fire Department near Orangefield.</p>									
JASPER, TYLER NENTON COUNTIES	12 0930CST		0	0	5	5	FLASH FLOOD		
<p>5 to 9 - inch rains caused flash flooding and around Woodville with some damage to roads. Estimated 8 inch rains in the Kirbyville area caused flooding from 0930CST until just after 1200CST. 20 persons were evacuated from around Trout Creek. The mayor credited their community preparedness program with saving the town from "heavy damage or loss of life." Although flash flooding ended near 1200CST, flooding continued until near 1700CST.</p>									
WALKER COUNTY	15 1830CST		0	0	0	0	FUNNEL		
<p>A funnel was sighted by the Walker County Sheriff's Department.</p>									
SOUTH TEXAS	26 1500CST		0	0	6	6	WIND STORM		
<p>A deep low pressure center had intensified on the morning and early afternoon of the 26th as it tracked slowly eastward across North Texas. During the early afternoon of the 26th, skies began to clear and strong winds associated with the low pressure center developed. The first winds gusts above 30 mph were noted over the Hill Country continuing Southwestward into the Del Rio area.</p> <p>As the afternoon continued the winds increased, finally reaching generally 40 mph sustained winds by 1500CST. By 1800CST, sustained winds continued at near 40 mph with frequent gusts to near 50 mph and isolated gusts to over 60 mph. The strong winds continued the remainder of the evening and into the early morning hours.</p> <p>By sunrise the winds had begun to subside with sustained speeds of 25 mph and gusts to near 40 mph. By late afternoon, winds were generally below 20 mph and decreasing.</p> <p>Damage due to the wind was quite widespread, but minor in nature. General reports were received of trees blown over, occasionally causing additional damage, as well as roof and window damage to buildings. The greatest cost to South Texans in the wind storm was due to the rapid spreading of minor fires across fields made dry by months of drought.</p> <p>Although costs directly attributed to the fires are not available, and hence are not included in the damage summary above, brush fires in the Hill Country east and southeastward all the way to the coast accounted for the destruction of nearly 20,000 acre of land. More than 20 homes of these being in Bexar County where fires caused the closing of S.H. 281 just south of San Antonio.</p>									

## 41 TEXAS, Western

Panhandle	15 All Day		0	0	?	0	Wind	
<p>The strong wind, associated with a winter low pressure system, gusted to 60 to 70 mph over the Texas Panhandle causing widespread damage to trees, power lines and roofs.</p>								
Panhandle	17 Evening		0	0	0	0	Severe Weather	
<p>Severe thunderstorms brought heavy hail, high wind and torrential rains to the eastern Texas Panhandle between 7 and 9 p.m. The City of Wheeler sustained the most damage (dollar amount unknown). Power lines were blown down, roofs were peeled off by the high wind while 3 inches of rain flooded the Wheeler Elementary School. Roads in the area were slick with up to 3 inches of hail covering the ground.</p>								
McLean, Gray County	17 1941CST		0	0	?	0	Hail, Wind	
<p>Marble- to golfball-sized hail covered the ground at McLean. Additionally, high wind downed utility poles cutting off the electricity.</p>								
Dozier, Collingsworth County	17 1945CST		0	0	?	0	Hail	
<p>Golfball-sized hail 6 miles northwest of Dozier.</p>								
Lakeview and Memphis, Hall County	17 1955CST		0	0	0	0	Hail	
<p>Marble- to golfball-sized hail at Lakeview and Memphis.</p>								
Wellington and Quail, Collingsworth County	17 2006CST		0	0	?	0	Hail	
<p>Marble- to golfball-sized hail, heavy rains and high winds at Quail and Wellington.</p>								
Wellington, Collingsworth County	17 2039CST		0	0	?	0	Hail	
<p>Three inches of hail on ground at Wellington.</p>								
Carlsbad, Tom Green County	26 0015CST		0	0	?	0	Hail	
<p>A ham radio operator reported golfball-sized hail at Carlsbad.</p>								
Panhandle and South Plains	26 Part of the Day		0	0	?	0	Winter Storm	
<p>Near blizzard conditions in the Panhandle and sections of the South Plains dumped 4 to 8 inches of snow in the Panhandle and lesser amounts on the South Plains. Wind-gusts to 60 mph in the Panhandle caused severe drifting, closed roads and stranded hundreds of motorists. 400 vehicles were stranded elsewhere from south of Tulsa to east of Pampa and beyond. Power failures left many communities without electricity, including Amarillo and Lubbock. TV stations and radio stations were off the air for several hours and many homes went unheated for many hours. Fortunately, there were no known injuries or casualties.</p>								

## 42 UTAH ————— NONE REPORTED

## 43 VERMONT

STATE WIDE	05 PM	0	8	7	0	Snowstorm
<p>A major winter storm hit Vermont keeping public safety crews busy. Hardest hit was Bennington County, where snow measured over 15 inches. Strong, gusty (non-convective) winds created drifting and visibility problems.</p>						

## 44 VIRGINIA

Southern and North Central	13-15	0	0	6	0	Rain
<p>A slow-moving frontal system brought widespread rain of 2 to 3 inches across the area. With some sections reporting up to 5 or 6 inches along the east slopes of the mountains in the northern portion of the state. Although beginning on the 13th and tapering off on the 15th, the major amount of precipitation fell on the 14th. Rivers and creeks overflowed their banks and numerous roads were closed and a number of them seriously damaged. Basement flooding was also widespread and several motor vehicles were total losses. Along the Potomac River basin the worst flooding since the 1972 Tropical Storm "Agnes" occurred. Damage, however, did not approach the severity of that storm.</p>						

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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 <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

45 VIRGINIA										
West and Southwest	23	All Day				0	0	4	0	Snow Heavy wet snow developed as low pressure moved into the state from the Carolinas and continued northeastward off the Delmarva Peninsula. Snowfall amounts of 4 to 8 inches were common, with 12 to 16 inches in portions of Tazewell County, and one report of up to 22 inches in a southwest Virginia community. Many roads were blocked and the heavy wet deposit on trees and power lines brought considerable disruption of electrical service.
Southern	27-28					0	1	5	0	Wind A large low pressure system moved northeastward out of the lower Mississippi Valley bringing damaging winds to the southwestern counties and the Tidewater area. Gusts were reported as high as 70 mph or more in Tazewell County and several buildings were damaged, including heavy roof damage at the community college in Richlands. One student there was injured by flying glass. In Norfolk, winds began late on the 27th and continued into early on the 28th. A home under construction in the Ghent section of Norfolk collapsed, damage estimated at \$40-50,000. Scattered property damage was also reported in the cities of Chesapeake and Suffolk.
46 WEST VIRGINIA										
McDowell and Mercer Counties	23	0830CST-Eve				0	?	0	0	Snowstorm A heavy snowstorm associated with a strong low swept across southern West Virginia dumping from 12 to 14 inches of snow over McDowell and Mercer Counties.
Raleigh and Mercer Counties	27	Late Morn-Eve				0	1	3	0	High Wind Non-convective winds associated with a strong low pressure center which tracked across the Ohio Valley resulted in gusts of up to 75 MPH in South-Central West Virginia. Peak wind speeds reported included 75MPH at Bluefield at 1106EST and 62 MPH at Beckley at 1435 EST. The high winds were responsible for blowing down several utility poles in Bluefield which resulted in a short power outage for 4,682 customers. Also, trees were damaged and several windows and awnings were broken or destroyed. An awning on a market in Bluefield was blown about 50 feet before striking a car and breaking the windshield. One person was injured by flying glass from a shattered window at the Bluefield State College.
Entire State	28					1	?	0	0	Snowstorm A storm system moved across West Virginia on Feb 28th dumping an average of 3-6 inches of snow with amounts of 8-10 inches in the mountains. This storm was blamed for the death of a woman in Mason County who was crushed to death by a boulder the size of an automobile that broke loose from a mountainside and smashed into her house. The boulder was loosened as a result of heavy rainfall at the start of the storm followed by a sudden freeze resulting in ice which acted as a chisel between the rock and mountain.
47 WISCONSIN										
Dunn County	11	2300CST				0	0	3	0	Electrical Lightning hit a chimney and then blew a hole in the roof at the Elk Mound Elementary school.
West Central to Northeast	18-19	Afternoon Hours into Evening Hours				0	0	0	0	Snowstorm A storm system deposited 2 to 6 inches of snow in a swath from the west central to the northeast sections of the state. Lake Thompson in Oneida county received 6 1/2 inches and Pound in Marinette county picked up 6 inches.

48 WYOMING										
Cody and Ralston, Park County	11	Evening				0	0	5	0	High Winds Strong downslope winds of up to 50 miles an hour toppled a grain elevator leg in Ralston. At Cody, a 30-foot high cinderblock wall at a school under construction was blown over by the high winds.
Cheyenne, Laramie County	14	Evening				0	0	?	0	Blizzard A localized blizzard whipped a 6-inch snowfall into 5-foot drifts as winds howled at over 40 miles an hour. All roads around Cheyenne were closed for the night, and several areas had power outages lasting up to six hours.
49 ALASKA, Northern										
Fox (15 miles north of Fairbanks)	all month					0	0	4	0	Glaciation Flood Near-record heavy precipitation (about 3 times the normal total) fell in Fairbanks in October, 1983. Most of this was rain and wet snow. This caused an unusual and significant recharge to ground water levels in the area, which are normally low by early winter. Aside from a brief cold snap in the second week of December, the winter of 1983-84 in Fairbanks had near or above normal temperature up through the third week of January. A significant change followed, and consistently below normal temperatures were the rule in Fairbanks from Jan. 20, 1984 through the end of February. The settlement at Fox, Alaska is built in a valley filled with old mining tailings. With the onset of prolonged cold, groundwater flow through the tailings was progressively restricted by freezing. The result was the groundwater flow was forced upward to the surface of the tailings, where it froze in successive layers of auefs. During the first half of February, groundwater held behind auefs dams began flooding about a half mile south of Fox. By the end of the month, auefs flooding was also occurring just north of Fox. Overall, 5 homes sustained flood damage. Milder temperatures returned in the first week of March, reducing the rate of auefs growth. The auefs, and the water dammed behind it, were not expected to recede until Spring breakup, in May.
Tanana Valley	04					0	0	?	0	Heavy Snow An unusually strong Arctic front settled over the Tanana and Susitna Valleys on Feb. 3. As a small low pressure center moved northeast out of Cook Inlet, the front moved eastward a little. In the western Tanana Valley, heavy snow began falling as cooling commenced aloft. From 8 to 12 inches of snow fell in the lower Tanana Valley, accompanied by temperatures around -10°F -- much colder than it usually is during heavy snowfall in the Interior. The road from Fairbanks to Manley Hot Springs was closed for 3 days following the storm. The Parks Highway -- the principal artery between Fairbanks and Anchorage, was closed near Denali Park due to heavy snow and north winds to 50 miles an hour -- for most of the day Feb. 4.
Eastern Arctic Coast	04-05					0	0	?	0	Blizzard A strong low pressure system moved from the northern Chukchi Sea to the Central Beaufort Sea from Feb. 2-5. High pressure persisted over the Brooks Range, just to the south of the Arctic coast. As the low passed abeam of the Arctic coast of Alaska, gale force westerly winds broke out from Prudhoe Bay to the Canadian border. Winds of up to 50 miles an hour were recorded at Barter Island, and to 45 miles an hour at Prudhoe Bay. Near zero visibility and whiteout conditions persisted for much of the storm. Chill factors were down to -100°F. The storm lasted from the evening of Feb. 4 to the evening of Feb. 5.
Eastern Arctic Coast	25-26					0	0	?	0	Blizzard A low center moving eastward about 500 miles north of the Arctic coast combined with high pressure over the Brooks Range to cause blizzard conditions on the eastern Arctic coast from the early afternoon of Feb. 25 through the early morning of Feb. 26. Peak winds were 55mph at Barter Island on the evening of Feb. 25, and were often accompanied by whiteout conditions. Chill factors reached -95°F. Peak winds at Prudhoe Bay reached 45mph, producing brief blizzard conditions.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1984

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	04-05				0	?	4	0	Heavy Snow
	Widespread heavy snow fell over the Cook Inlet and Susitna Valley areas during most of the 4th and 5th. A strong low moving north over the area from the Gulf of Alaska brought the snow. Snow amounts ranged from 6 to 18 inches. In Anchorage the weight of the new snow caused a collapse of a couple of warehouse buildings. The main highway between Anchorage and Fairbanks was closed for a time due to blowing and drifting snow.								
SOUTHWEST	01-29				0	?	5	0	Cold
	Much of southwest Alaska especially the Yukon and Kuskokwim Delta had the coldest February on record. In Bethel it was the coldest month ever. Several villages experienced a freeze up of water supply and sewage systems.								
<b>49 ALASKA, Southeastern</b>									
Juneau Area	2						3		High Winds
	Gusty surface winds of up to 50 knots caused damage to the roof of a building under construction. The winds caused a 1 1/2 hour power outage in Juneau.								
<b>50 HAWAII</b>									
Hawaii Island	8	0800-2000HST			0	0	3	0	Rain
	Heavy showers associated with a weak tropical disturbance caused minor localized flooding along the windward coast of the Big Island.								
Hawaii Island	22	1020HST			0	0	0	0	Waterspout
	A waterspout was observed 3 miles off Kailua Kona coast.								
Hawaii Island	28-29				0	0	3	0	Surf
	Heavy swell from northerly directions produced high surf and high water in the Hilo area. Kalaniana'ole highway was closed as 2 feet of water and debris covered the roadway between 0100 and 0200HST on the 28th. Campers also had to be evacuated from nearby Onekahakaha Park. Heavy surges occurred in Hilo harbor.								
51 PUERTO RICO	NONE REPORTED								
52 VIRGIN ISLANDS	NONE REPORTED								
53 PACIFIC	NONE REPORTED								

# STORM SUMMARY

FEBRUARY 1984

STATE	TORNADOES					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			PROP. ERTY	CROPS		
Alabama	1	1			4		4				5				4																
Arizona																															
Arkansas							?	?			3	5			5						5	?									
California											1	4																			
Colorado												5	?																		
Connecticut																															
Delaware																															
Florida	4	1			3	6					4				2																
Georgia	2	1			5						5				5																
Idaho											4																				
Illinois																															
Indiana																															
Iowa																															
Kansas	3	1			1	5									5	4															
Kentucky											1	4				2															
Louisiana	2	1			2	5			?	?	1	6																			
Maine	≠																														
Maryland & DC																	6														
Massachusetts																															
Michigan											4																				
Minnesota																															
Mississippi											4	5																			
Missouri																															
Montana																															
Nebraska											3																				
Nevada																															
New Hampshire	≠																														
New Jersey																															
New Mexico																															
New York											2						8	11	?	7		4	42	7							
North Carolina											6	?																			
North Dakota											3																				
Ohio																															
Oklahoma							?	?							3	?															
Oregon										?	?	?			?	?	?														
Pennsylvania											1	4																			
Rhode Island																															
South Carolina																															
South Dakota	2	1			3						5				4																
South Dakota																															
Tennessee							?	?			6	?			4																
Texas	13	3			6	6	5	?			1	6	6		4																
Utah																															
Vermont																															
Virginia											1	5																			
Washington																															
West Virginia											1	3																			
Wisconsin																															
Wyoming																															
Alaska																															
Hawaii																															
Pacific																															
Puerto Rico																															
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.

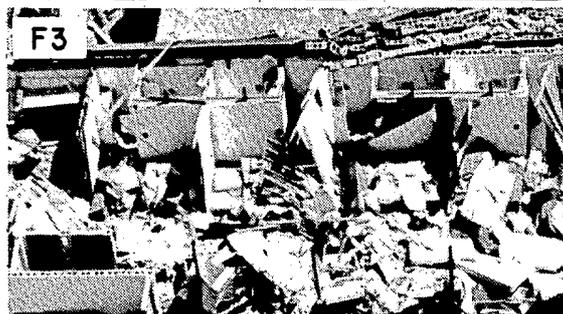
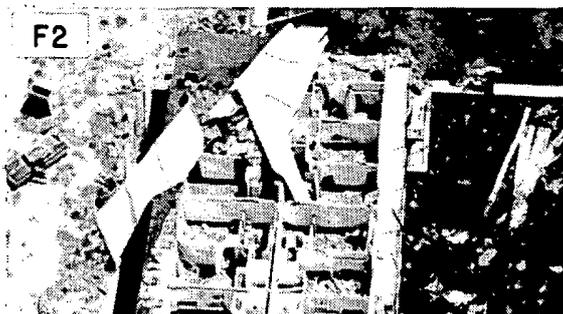
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*(F0+F1) Weak Tornado*

*(F2+F3) Strong Tornado*

*(F4+F5) Violent Tornado*

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