

JANUARY 1984

VOLUME 26

NUMBER 1

STORM DATA



"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AND IS COMPILED FROM INFORMATION RECEIVED AT THE
NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, N.C. 28801"

L. Ray Hoxit
ACTING DIRECTOR

NATIONAL CLIMATIC DATA CENTER

This publication is funded by the
National Oceanic and Atmospheric Administration and the Federal Emergency Management Agency

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, N.C.

C O N T E N T S

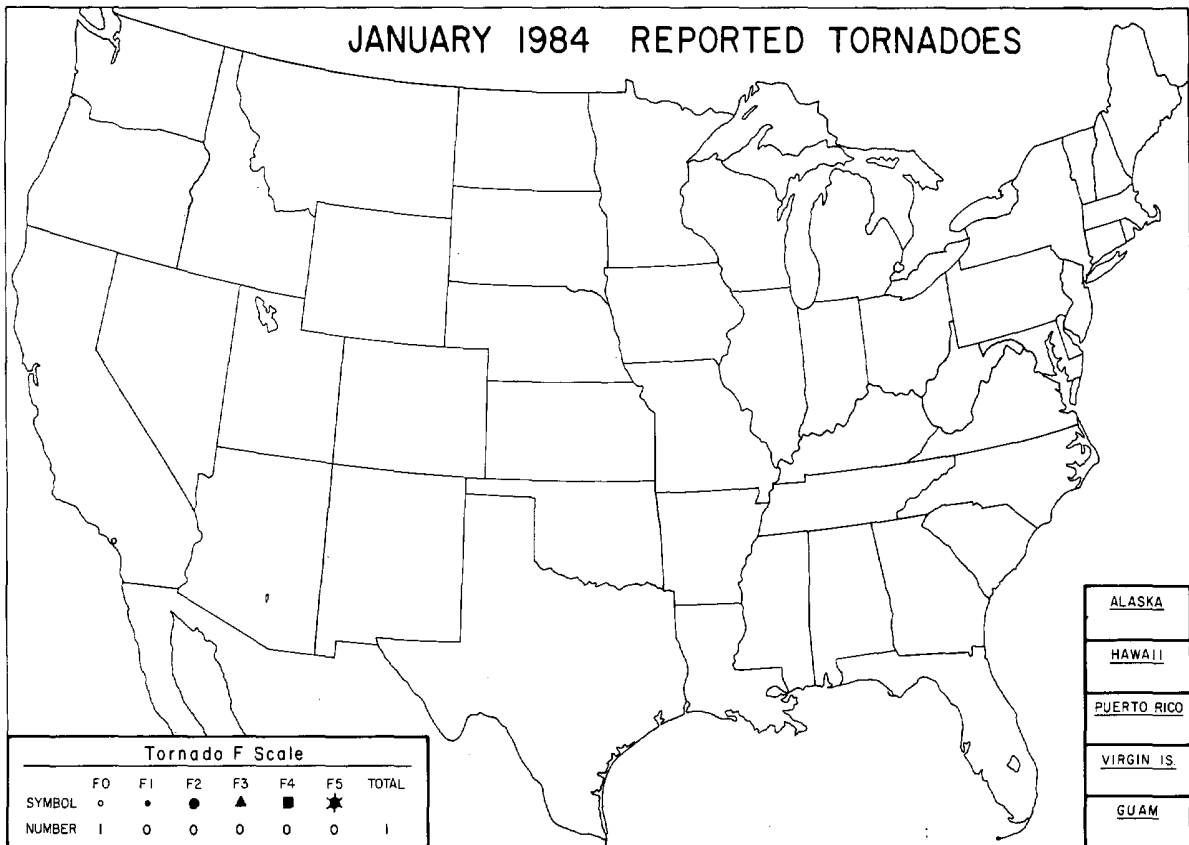
| | <u>Page</u> |
|---|-------------|
| Outstanding Storms of the Month..... | 3 |
| Storm Data and Unusual Weather Phenomena..... | 6 |
| Storm Summary..... | 12 |
| Late Reports and Corrections..... | 13 |
| Reference Notes..... | 14 |
| "F" Scale Definitions..... | 14 |

Cover:

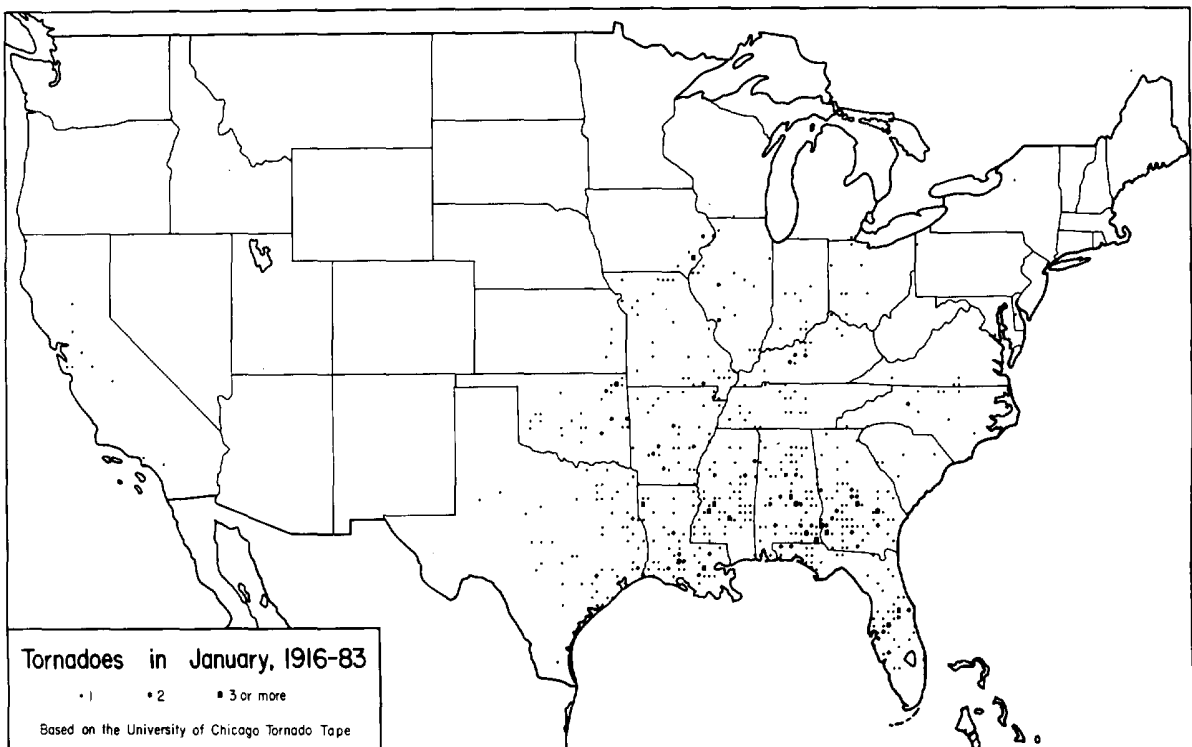
NOTE: The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, University of Chicago. The narrative descriptions of Storms by State and Summaries of Hurricanes and Tropical Storms are prepared by the National Weather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

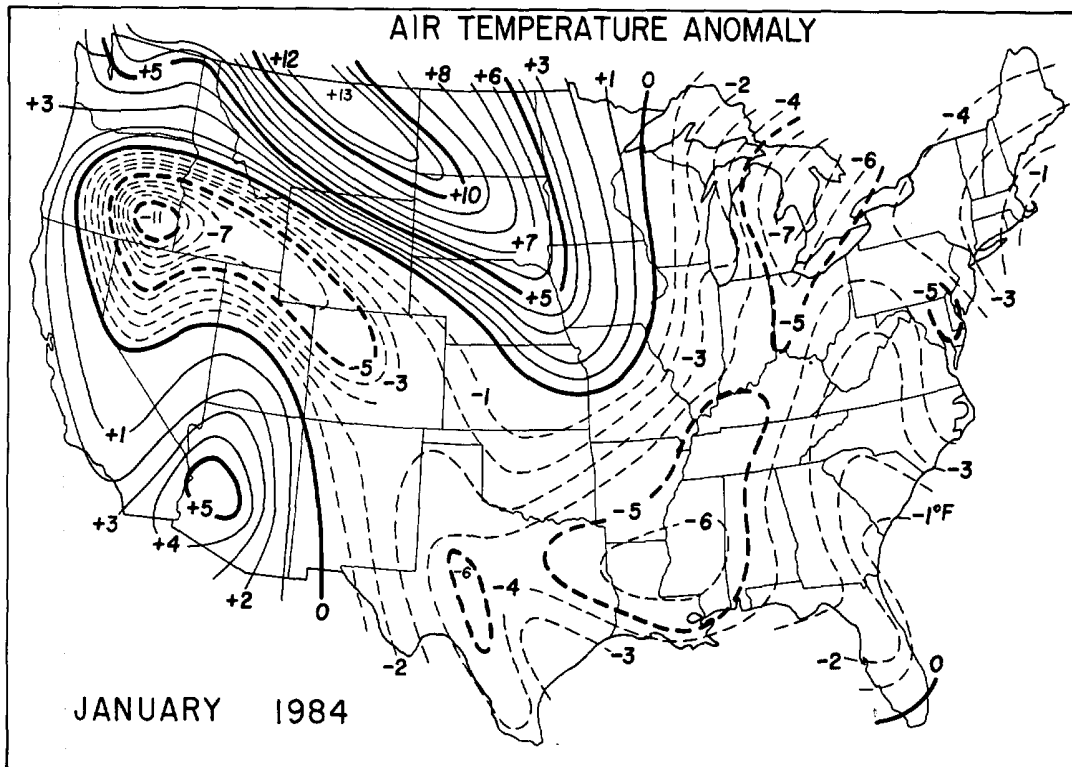
STORM DATA - (ISSN 0039-1972) is published monthly. Subscription, pricing, and ordering information is available from: Publications Section (E/CC413), The National Climatic Data Center, National Environmental Satellite, Data, and Information Service, NOAA, Federal Building, Asheville, NC 28801-2696.

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 | ● 40TN | ● 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) | |



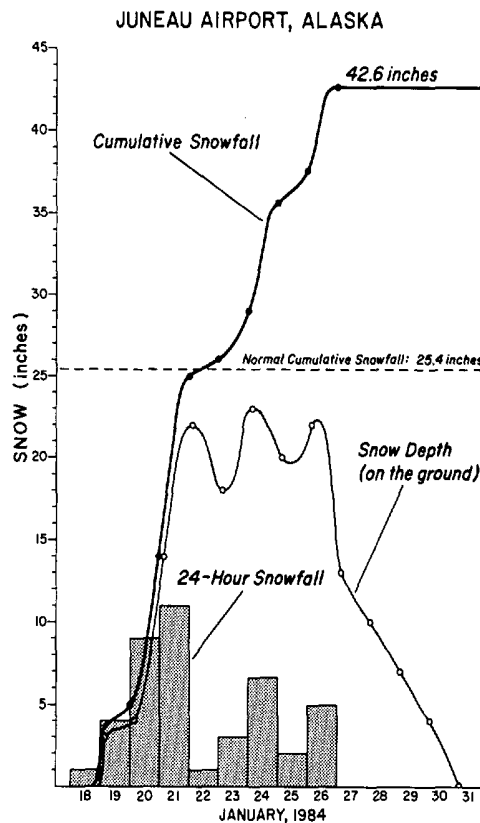


---Data base from NOAA/USDA Joint Agricultural Weather Facility.

1. HEAVY SNOW at JUNEAU, ALASKA on January 18-26, 1984

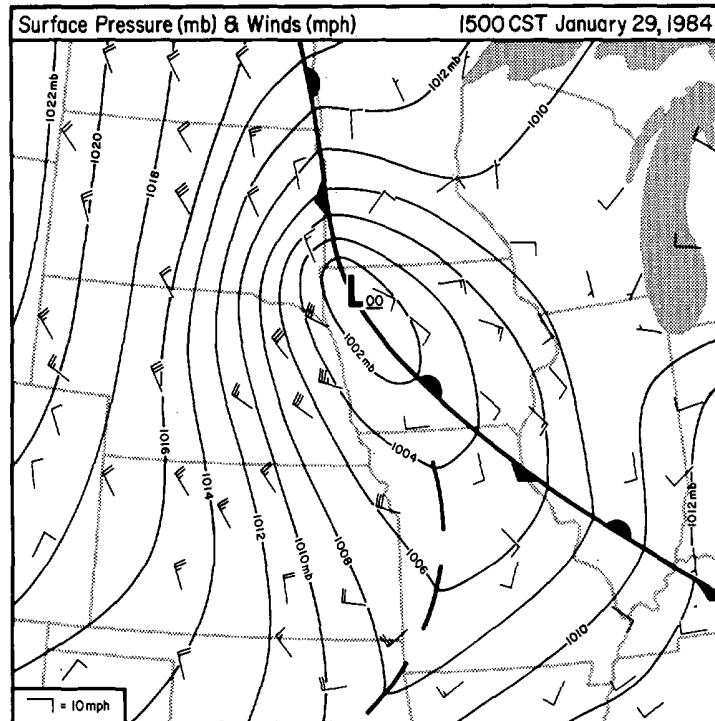
Juneau, Alaska received 42.6 inches of snow during a 9-day period from January 19th to the 26th, exceeding its normal January snowfall of 25.4 inches by 17.2 inches. The heavy snow caused some structural damage and an area wide power outage.

RIGHT: Snowfall statistics for Juneau, AK during late January, 1984. The 24-hour snowfall period is from midnight to midnight PST, and the snow depth readings were taken at 0300 PST. ---Data supplied by Leif Lie, NWSFO Juneau, AK.

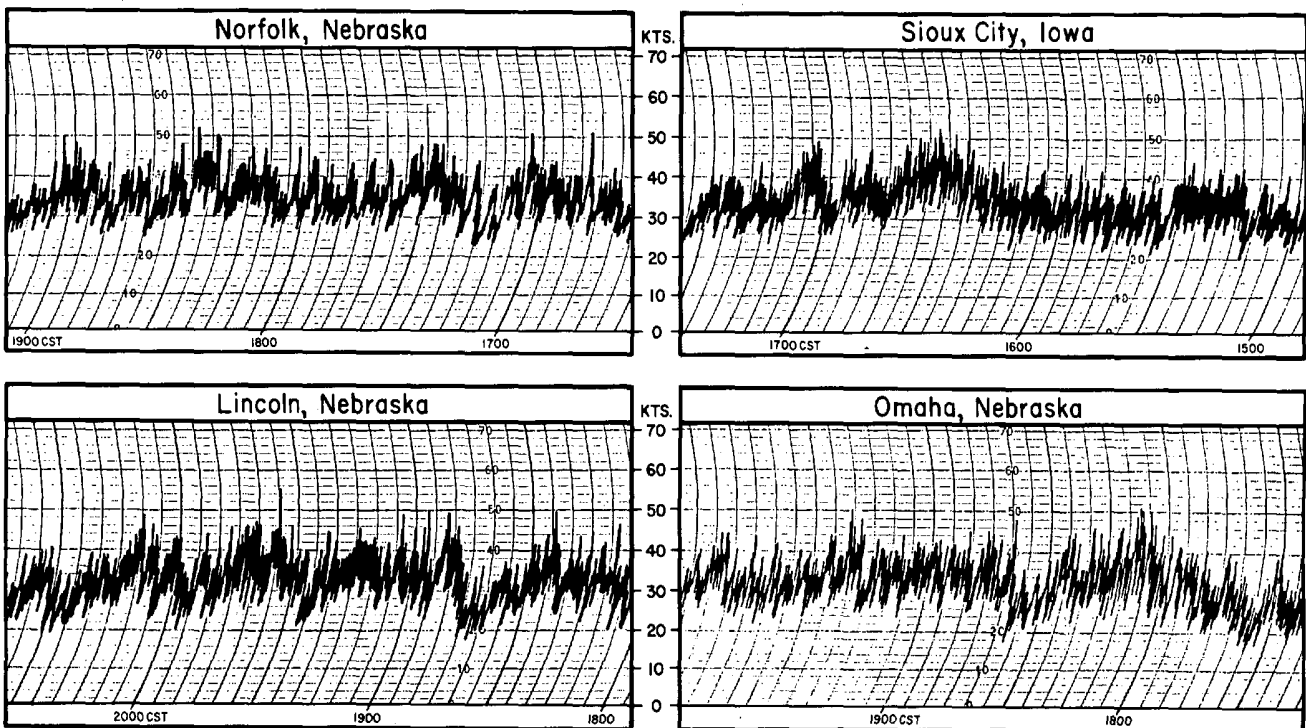


2. HIGH WINDS in EASTERN NEBRASKA and WESTERN IOWA on January 29, 1984

A rapidly intensifying low pressure system moved southeastward along a stationary front through western Iowa, bringing strong, gusty winds to eastern Nebraska and extreme western Iowa on January 29th. The winds, gusting up to 65 mph, caused blowing and drifting of snow which reduced visibilities to near zero, and wreaked minor structural damage throughout the area.



---Data supplied by National Weather Service.



Gust recorder traces from four cities which experienced strong, gusty winds on January 29th. Peak winds were as follows: Norfolk 52 kts. (60 mph), Sioux City 52 kts. (60 mph), Lincoln 55 kts. (63 mph), and Omaha 51 kts. (59 mph).

---Data supplied by National Climatic Data Center

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 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 | |
| 1 ALABAMA ————— NONE REPORTED | | | | | | | | | |
| 2 ARIZONA ————— NONE REPORTED | | | | | | | | | |
| 3 ARKANSAS | | | | | | | | | |
| Miller County | 02 | unknown | | | 1 | 0 | - | - | Low Temperatures |
| A continuation of an unusually cold period, which began in December of 1983, claimed another life because of hypothermia. | | | | | | | | | |
| Pulaski County | 11 | unknown | | | 1 | 0 | - | - | Low Temperatures |
| A hypothermia death was reported in the county. | | | | | | | | | |
| Sebastian County | 17 | unknown | | | 1 | 0 | - | - | Low Temperatures |
| A hypothermia death was reported in the county. | | | | | | | | | |
| 4 CALIFORNIA, Northern | | | | | | | | | |
| Southern Sierra Nevada, Tehachapi Mountains | 26 | 0600- | | | | | | | |
| | 27 | 0700PST | | | 1 | 2 | 5 | 4 | Wind |
| Violent winds ripped through sections of the southern Sierra Nevada, knocking down trees and power lines. Yosemite National Park was closed to traffic as hurricane-force winds knocked down dozens of trees. Wind gusts of 50 to 80 MPH were reported in some areas. A tree blew over and crashed into a housing area at Yosemite Park, killing one man. | | | | | | | | | |
| 4 CALIFORNIA, Southern | | | | | | | | | |
| Huntington Beach, Orange County | 13 | 1819PST | short narrow | | 0 | 0 | 3 | 0 | Tornado (F0) |
| A tornado briefly touched down, ripping a porch canopy and roof from a mobile home. | | | | | | | | | |
| Los Angeles Los Angeles County | 26 | ? | | | 2 | ? | ? | 0 | High Wind |
| High winds blew one man off a 150-foot high cliff. He died several hours later in a nearby hospital. Another man was killed when he grabbed a live wire that had fallen in front of his car. A number of traffic lights were darkened, trees were toppled and telephone and power lines were felled. | | | | | | | | | |
| Lone Pine Inyo County | 26 | ? | | | 0 | ? | ? | 0 | High Wind |
| Due to high winds, some trees were downed, tree limbs were broken and there were reports of some minor roof damages. | | | | | | | | | |
| 5 COLORADO | | | | | | | | | |
| Southwest | 13-14 | | | | 0 | 0 | 0 | 0 | Heavy snow |
| 20 inches of snow fell at Wolf Creek Pass; at lower elevations, 10 inches blanketed Durango. | | | | | | | | | |
| Northeast | 14-15 | | | | 0 | 0 | 0 | 0 | Heavy Snow |
| Many parts of northeast Colorado received 6 to 12 inches of snow. 11 inches fell at Burlington, with 8 inches at Fort Collins. | | | | | | | | | |
| Statewide | 18 | morning | | | 1 | 0 | ? | 0 | Cold |
| This was the coldest morning of the winter at many spots in Colorado. Many cities recorded record low temperatures, including -19 at Denver; -20 at Colorado Springs; and -28 at Fort Collins. It was even colder in northwestern Colorado. Official readings there included -51 at Maybell and -44 at Craig; an unofficial temperature of 52 below zero was observed two miles east of Craig. In Weld county, an elderly man froze to death after falling outside his home. | | | | | | | | | |
| Northeast Foothills | 29 | 0100-0400MST | | | 0 | 0 | 5 | 0 | High winds |
| Winds gusted as high as 71 mph in Boulder. A plane was flipped over at Jefferson County Airport and damaged beyond repair. In Lakewood, two construction trailers were damaged by the gusts. | | | | | | | | | |
| 6 CONNECTICUT ————— NONE REPORTED | | | | | | | | | |
| 7 DELAWARE | | | | | | | | | |
| Northern | 10-11 | | | | 0 | 0 | 0 | 0 | Snow |
| Low pressure moving off the mid-Atlantic coast brought the first significant snow of the season. Amounts ranged from 2 inches to nearly 4 inches through portions of Kent and Newcastle Counties.. the night of the 10th into the morning of the 11th. | | | | | | | | | |
| Statewide | 18 | | | | 0 | 0 | 0 | 0 | Snow |
| A weak low pressure center moved along a cold front, bringing 2 to 4 inches of snow to the state. Snow began during the morning and ended by late afternoon. | | | | | | | | | |
| Statewide | 24-25 | | | | 0 | 0 | 0 | 0 | Fog |
| Dense fog developed during the afternoon and evening of the 24th and continued through the morning of the 25th. Many highway accidents occurred as visibilities dropped to only a fraction of a mile in many sections. | | | | | | | | | |
| 8 FLORIDA | | | | | | | | | |
| Greenacres, Palm Beach County | 19 | 1605EST | | | 0 | 0 | 3 | - | Thunderstorm wind |
| Several sheds were blown over, awnings destroyed, and several tree branches were blown down. Pea sized hail was observed. | | | | | | | | | |
| 9 GEORGIA | | | | | | | | | |
| Chatham County | 18 | 2100EST | | | 0 | 0 | 2 | 0 | Wind |
| Thunderstorm winds downed three pine trees and a power line on Old Louisville Road about 4 miles southeast of the Savannah Airport. | | | | | | | | | |
| 10 IDAHO ————— NONE REPORTED | | | | | | | | | |
| 11 ILLINOIS ————— NONE REPORTED | | | | | | | | | |
| 12 INDIANA | | | | | | | | | |
| Vanderburgh County Southwest Indiana | 01 | 0700EST | | | 0 | 0 | 3 | 0 | Glaze |
| Glaze on the road surfaces caused many minor auto accidents. | | | | | | | | | |
| Statewide | 19-20 | | | | 0 | 4 | 0 | 0 | Extreme Cold |
| Extreme cold with wind chill readings of 45 to 50 below zero. Four known cases of frostbite. | | | | | | | | | |
| Vanderburgh County Southwest Indiana | 23 | 1900EST | | | 0 | 0 | 2 | 0 | Glaze |
| Glaze on the road surfaces caused many minor auto accidents. | | | | | | | | | |
| Northern Indiana | 30 | 0000EST | | | 0 | 0 | 0 | 0 | Heavy Snow |
| Four to eight inches of snow fell across Northern Indiana. Many secondary roads were drifted shut by strong gusty winds. The heaviest snow fell at Wabash and Marion where 8 inches were reported. | | | | | | | | | |
| 13 IOWA | | | | | | | | | |
| Iowa Statewide | 29- | Evening | | | 0 | 0 | 4 | 0 | Snow and Windstorm |
| | 30 | Morning | | | | | | | |
| Snow combined with high winds produced blowing and drifting that often reduced visibilities to near zero. The snow accumulated to a depth of 4-7 inches in much of West Central through North Central and Northeast Iowa. Even where the new snowfall was far less, there were problems due to the high winds and consequent reduced visibility. Winds gusted to 61 MPH in Sioux City, where two television stations had to shut down for a short time due to a dangling telephone pole, near the transmission site. | | | | | | | | | |
| 14 KANSAS ————— NONE REPORTED | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 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 | |
| 15 KENTUCKY | | | | | | | | | |
| Gallatin County | 14 | UNKNOWN | | | 1 | 0 | 0 | 0 | Extreme Cold - Hypothermia Death |
| <p>Herman Johnson, a 78 year old retired farmer who lived alone on the Sparta Pike, a mile south of Sparta, died of hypothermia. A volunteer worker found him lying under his bed fully clothed. There was no heat in his house.</p> | | | | | | | | | |
| Monroe County | 14 | MRNG | | | 1 | 0 | 0 | 0 | Extreme Cold - Hypothermia Death |
| <p>Bill Evans, 55, of Tompkinsville was found dead in the Harlan Heights area. The cause of death was circumstantial exposure to the cold.</p> | | | | | | | | | |
| Nelson County | 19 | 0930 EST | | | 1 | 0 | 0 | 0 | Extreme Cold - Hypothermia Death |
| <p>John B. Woods Jr., 45, of New Haven was found on the roadside of KY 84 about 7 miles east of Howardsdown. The cause of death was hypothermia. Mr. Woods was found face down in the snow, twenty feet from his truck that had become stuck in the snow and mud. Temperatures at that time in the area averaged 22 degrees below zero.</p> | | | | | | | | | |
| 16 LOUISIANA ————— NONE REPORTED | | | | | | | | | |
| 17 MAINE | | | | | | | | | |
| West Coastal (York, Cumberland, Sagadahoc & Lincoln Counties) | 10-11 | Early AM | | | 1 | 0 | 5 | 0 | Heavy Snow |
| <p>Two weak low pressure areas moved along the Eastern Seaboard and through eastern Nova Scotia producing the Region's first major snow of the season. In 24 hours, 10 to 16 inches were recorded over West Coastal sections with 8 to 12 inches reported inland and over East Coastal sections. Portland recorded 14.8 inches, Augusta 9 inches and Bangor 8 inches. Many schools let out early Tuesday, and companies cancelled second and third shifts. All schools in the region called off classes Wednesday. The only fatality was a 19 year old Clinton male who died when his snowmobile ran head-on into a dump truck's snow plow on Route 100 in Benton late Tuesday night. There were the usual fender bender accidents with no major injuries.</p> | | | | | | | | | |
| East Coastal (Knox, Waldo, Hancock and Washington Cties) | 31 | 0030EST | | | 0 | 0 | 5 | 0 | Heavy Snow and High Winds |
| <p>A developing low pressure area off the Virginia coast Monday, raced through the Gulf of Maine, reaching western Nova Scotia Tuesday night. Rain, which began late Monday night, turned to heavy wet snow early Tuesday morning. By late Tuesday afternoon, the snows began to abate and the winds picked up. Snow amounts varied from 9 to 14 inches due to the length of rainfall. Underfooting became treacherous and many schools closed along with businesses and County Courts. The clinging heavy wet snow coupled with gale force winds tore down tree limbs and utility wires producing many power outages throughout the East Coastal Region. The Owl's Head Light in Rockland recorded 52 mph wind gusts Tuesday afternoon. The wind and snow reduced visibility to near zero in open areas and travel was severely impeded and even halted for short periods throughout the region.</p> | | | | | | | | | |
| 18 MARYLAND and D.C. | | | | | | | | | |
| Statewide | 10-11 | | | | 0 | 0 | 0 | 0 | Snow |
| <p>Low pressure moved northeastward from the southeastern states and brought the first significant snowfall to many sections. Snow accumulated to 4 to 6 inches over western and north central counties. East of the mountains, rain changed over to freezing rain and sleet as colder air moved in during the afternoon and evening of the 10th., changing to snow during the night and ending in early morning of the 11th. The southern and Eastern Shore counties received 1 to 3 inches of snow.</p> | | | | | | | | | |
| Central, North-Central & District of Columbia | 13-14 | | | | 0 | 0 | 0 | 0 | Freezing Rain |
| <p>Extensive glaze developed in late afternoon and evening of the 13th., ending during the early hours of the 14th. A rash of traffic accidents occurred as some sections reported up to a quarter-inch accumulation of ice on roads. In the west portion of the state, up to 2 inches of snow fell.</p> | | | | | | | | | |
| Statewide & District of Columbia | 16 | | | | 0 | 0 | 0 | 0 | Snow |
| <p>A weak low pressure disturbance moved eastward out of the Ohio Valley, bringing snow from the early morning to early in the afternoon. Accumulations ranged generally from 2 to 4 inches of new snow.</p> | | | | | | | | | |
| 19 MARYLAND and D.C. | | | | | | | | | |
| Statewide & District of Columbia | 18 | All Day | | | 0 | 0 | 0 | 0 | Snow |
| <p>Weak low pressure moved eastward along a cold front, bringing snow totaling 4 to 6 inches for the most part. Heaviest was over Frederick County, with 7 inches of new snow, while the western-most counties reported only 2 to 3 inches.</p> | | | | | | | | | |
| Statewide & District of Columbia | 20-23 | | | | 1 | 0 | 0 | 0 | Cold |
| <p>A large mass of high pressure gripped the area..and brought some of the lowest temperatures of record. On the morning of the 22nd Baltimore-Washington International Airport had a 4 below zero reading and Dulles Airport minus 18 degrees. One death due to exposure occurred in Washington, D.C., where a man was found in a snowdrift on the 20th.</p> | | | | | | | | | |
| North Central and Western. | 24 | Early Morning | | | 0 | 0 | 0 | 0 | Glaze |
| <p>Light rain falling on very cold surfaces caused disruptions during the morning rush hour..with many accidents reported. Melting took place later in the day as warmer air moved in.</p> | | | | | | | | | |
| Statewide & District of Columbia | 24-25 | | | | 0 | 0 | 0 | 0 | Dense Fog |
| <p>Warm moist air moving in over cold surface layers brought very poor visibilities..only a few feet in many places..from afternoon of the 24th through the morning of the 25th. Numerous highway accidents resulted as visibilities dropped to one-half mile to around zero.</p> | | | | | | | | | |
| Western | 29-31 | | | | 0 | 0 | 0 | 0 | Snow |
| <p>Recurring storms during the three-day period piled snow up to a depth of over one foot. Many sections of Garrett County were all but paralyzed as accumulations of up to 15 inches occurred.</p> | | | | | | | | | |
| 20 MASSACHUSETTS ————— NONE REPORTED | | | | | | | | | |
| 21 MICHIGAN ————— NONE REPORTED | | | | | | | | | |
| 22 MINNESOTA | | | | | | | | | |
| Southwest | 29 | afternoon & evening | | | 0 | 0 | 0 | 0 | Heavy snow |
| <p>Light freezing rain in southwest Minnesota changed to a combination of rain and snow during the morning of January 29th. Snowfall increased during the afternoon and by evening 6 inches of snow had fallen southwest of the Minnesota River from Montevideo to Mankato. Eight inches of snow was reported from Marshall to St. James. Winds also increased to 30-35 mph by late afternoon causing near zero visibility in blowing and drifting snow.</p> | | | | | | | | | |
| 23 MISSISSIPPI ————— NONE REPORTED | | | | | | | | | |
| 24 MISSOURI ————— NONE REPORTED | | | | | | | | | |
| 25 MONTANA ————— NONE REPORTED | | | | | | | | | |
| 26 NEBRASKA | | | | | | | | | |
| Southwest Nebraska | 14 | Morning -Evening | | | 0 | 0 | 0 | 0 | Heavy Snow |
| <p>Areas of heavy snow fell in southwest Nebraska with five inches reported at McCook and four inches at Imperial.</p> | | | | | | | | | |
| Central and Eastern Nebraska | 29 | Midday -Evening | | | 0 | 1 | 6 | 0 | High Winds |
| <p>Strong northwest winds gusting 55 to 65MPH hit much of central and eastern Nebraska resulting in power outages, downed tree limbs, broken signs and traffic signals and some roof damage. Store windows were reported blown out in Norfolk, Fremont, Nebraska City and Columbus. In Omaha a woman was injured in the late afternoon when she was struck in the head by part of a downtown building partition blown off by the wind. Also in the Omaha area a light plane was flipped over at the south Omaha Airport. The winds ripped the roof and wall off of the grandstand at the Pierce County Fairground. Some of the higher wind gusts included 65MPH at Offutt AFB, 63MPH at Lincoln and Hasting, 60MPH at Norfolk and 59MPH at Omaha.</p> | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 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 | |

| | | | | | | | | | |
|--|-------------------|---------------|----|---|---|--|--|--------------------------|---|
| 26 | NEVADA | NONE REPORTED | | | | | | | |
| 27 | NEW HAMPSHIRE | NONE REPORTED | | | | | | | |
| 28 | NEW JERSEY | NONE REPORTED | | | | | | | |
| 29 | NEW MEXICO | NONE REPORTED | | | | | | | |
| 30 | NEW YORK, Coastal | NONE REPORTED | | | | | | | |
| 30 | NEW YORK, Central | | | | | | | | |
| EASTERN NEW YORK | 09 2000EST | 2 | 43 | 5 | 0 | | | Snow Storm | <p>The first of a double-barrelled snow storm hit Eastern New York. The storm resulted in the standard traffic accidents and power outages. One 8 year old was buried alive when heavy snow accumulations slid off the roof of his home, trapping him beneath the snow pile for several months. The Mohawk Valley received the most snow, about 8 inches in Saratoga County. Lesser amounts fell elsewhere in Eastern New York.</p> |
| EASTERN NEW YORK | 10 1800EST | 0 | 3 | ? | 0 | | | Snow Storm | <p>The second major snow storm of the season hit Eastern New York. The snow resulted in usual traffic accidents and inconvenience. Snow depth ranged from 4 inches in the Adirondacks to nearly 7 inches in the lower Hudson Valley/Southern Tier.</p> |
| SULLIVAN, DUTCHESS, ULSTER, DELAWARE, ORANCE, PUTNAM | 18 NOON EST | 1 | 21 | 5 | | | | Snow Storm | <p>The fringe of a coastal storm swept thru the lower Hudson Valley. Highest snow totaled about 6 inches. Two school buses were involved in an auto accident due to poor visibility. 20 students were injured.</p> |
| ALL COUNTIES EXCEPT HAMILTON, WARREN, ESSEX, CLINTON, FRANKLIN, ST. LAWRENCE | 24 0400EST | 2 | 5 | ? | 0 | | | Freezing Rain/Snow Storm | <p>Freezing rain and snow caused several auto accidents and 2 deaths. The freezing rain was preceded by a few days of below zero temperature. By Tuesday afternoon, temperatures climbed above freezing and thick fog formed, causing its own problems.</p> |
| 30 | NEW YORK, Western | | | | | | | | |
| Orchard Park, Erie County; Monroe County; parts of Western and Central New York | 5 | | | 4 | | | | Snow | <p>The weight of accumulated snow on a barn's roof in Orchard Park caused it to collapse. Building materials stored inside were damaged.</p> <p>Many roadways were covered with ice and heavy snow. Travel was very dangerous. There were many vehicular accidents and injuries. A few persons were killed.</p> |
| Rochester, Monroe County and adjacent areas to Southern Lake Ontario; parts of Tompkins; Chemung County & parts of the Finger Lakes. | 10-11 | | | 5 | | | | Snow | <p>A lake-effect snowstorm commenced during the evening of the 10th and lasted till late morning the next day. Up to a foot of snow fell. Roadways during the rush-hours were clogged with cars that were immobile at times. There were numerous fender-bender accidents. Thousand of employees were late for work. Many businesses were forced to close.</p> <p>Snow glazed roadways in the Southern tier Counties. There were many vehicular accidents. Some resulted in injuries and deaths.</p> |
| Rochester, Monroe County; parts of Cattaraugus, Chautauqua, & Onondaga Counties. | 24 0200EST | | | 5 | | | | Freezing Rain | <p>Freezing rain transformed the area into a giant ice rink. Cars slipped and slid along major highways. Minor collisions were reported. Numerous schools were forced to close.</p> <p>In Portville, Cattaraugus County, an ice-coated tree branch broke, fell on a power transformer and started a fire. The fire shorted out the transformer. The whole town and village had no power for several hours.</p> |

| | | | | | | | | | | |
|--|-------------------|---------|--|--|--|--|--|---------|-----------------------|---|
| NEW YORK, Western | | | | | | | | | | |
| Batavia, Genesee County; parts of Cattaraugus County | 25 | Morning | | | | | | 4 | Ice, Wind & Fog | <p>Winds with gusts up to 50 MPH downed power lines. Area roads were glazed with ice and caused many vehicular accidents. Fog forced Syracuse Hancock Airport to close for a few hours. Thousands of passengers incurred departure and arrival delays.</p> |
| Parts of Steuben, Chemung, Allegany, & Schuyler Counties | 30 | | | | | | | 4 | Snow | <p>Up to three and a half inches of snow fell. Area roads became hazardous. Clean-up crews worked many hours. Many fender-bender accidents with several injuries were reported.</p> |
| 31 NORTH CAROLINA | | | | | | | | | | |
| Central and Western Sections | 13 | | | | | | | 0 0 ? ? | Ice Storm | <p>Light freezing rain and sleet moved from the mountains into the piedmont during the day, creating treacherous driving conditions. Countless automobile accidents were attributed to the glazing, which otherwise produced little damage.</p> |
| Western Sections | 18 | | | | | | | 0 0 ? ? | Ice Storm | <p>The second ice storm within a week concentrated its efforts upon the western third of the state, as sleet and freezing rain made driving very hazardous. As with the first storm, however, damage was generally light, limited to automobile accidents</p> |
| 32 NORTH DAKOTA — NONE REPORTED | | | | | | | | | | |
| 33 OHIO | | | | | | | | | | |
| Entire State | 19 22 | | | | | | | 1 0 5 0 | Extreme Cold | <p>Record low temperatures were recorded in many areas of Ohio on the 20th and 21st. Temperatures fell to 20 to 25 below zero in several locations. There were several reports of problems due to the cold, especially frozen and burst water lines. A 72 year old woman froze to death in a makeshift home made out of a chicken coop.</p> |
| 34 OKLAHOMA | | | | | | | | | | |
| Northern Half | 17 | All Day | | | | | | 0 0 ? ? | Snow | <p>A winter storm produced 8 inches of snow across the Panhandle and 4 to 6 inches of snow elsewhere across the northern half of the state.</p> |
| Northern Sections | 18 | Morning | | | | | | 0 0 ? ? | Freezing Temperatures | <p>Near all-time record low temperatures for the state occurred with the panhandle and northeast reporting temperatures of minus 21 degrees. Numerous water pipes and meters froze.</p> |
| Eastern Half | 22 | Evening | | | | | | 0 0 ? ? | Freezing Rain | <p>Widespread Freezing rain and drizzle fell across the Eastern half of the state.</p> |
| 35 OREGON | | | | | | | | | | |
| Morrow County | 3 | | | | | | | 0 0 2 0 | Flood | <p>A four to five-foot wall of water released from a sudden thaw struck a mail truck. The occupants were rescued uninjured. Some mail was washed away.</p> |
| Union County | Dec 20 - Jan 4 | | | | | | | 0 ? ? ? | Ice & Snow | <p>Union County was declared a disaster area due to an accumulation of snow, freezing rain, and ice. These caused widespread power outages and disrupted transportation.</p> |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 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 | |

| OREGON | | | | | | | | | | |
|--|-------|---------|--|--|---|---|---|---|-------------|--|
| Union County | 24-27 | | | | 0 | 0 | 6 | ? | Flooding | |
| Ice jams fostered by rain and warm temperatures forced several rivers to overflow their banks. 15 people were evacuated from homes along Catherine Creek. Homes were invaded by water. Some livestock was lost. Several roads were closed and extensive damage was done to state parks. The areas around LaGrande, Elgin and Union City were the most effected. | | | | | | | | | | |
| 36 PENNSYLVANIA, Eastern | | | | | | | | | | |
| Eastern Penna. | 10 | 1100EST | | | | | | | | |
| | 11 | 0300EST | | | 0 | 0 | 2 | 0 | Snow | |
| Precipitation which started as rain or sleet in many places changed to snow and continued until after midnight. Accumulations ranged from 2 to 5 inches south and 3 to 8 inches north. Slippery roads resulted in many accidents with a number of deaths and many injuries. | | | | | | | | | | |
| Eastern Penna. | 13 | 0400EST | | | | | | | | |
| | 14 | 1000EST | | | 0 | 0 | 2 | 0 | Snow, Glaze | |
| Light snow that was intermittent for the first eight hours or so deposited up to 8 inches on some sections. The snow became mixed with or changed to freezing rain and freezing drizzle over southeast sections. Slippery roadways resulted and caused numerous accidents. | | | | | | | | | | |
| Eastern Penna. | 18 | 1400EST | | | | | | | | |
| | 19 | 0900EST | | | 0 | 0 | 3 | 0 | Snow | |
| A snow storm which brought some snow to all of Eastern Pennsylvania gave the heaviest amounts to southeast sections. Southeast sections had accumulations of 6 to 8 inches while the southwest to northeast portion had 3 to 6 inches and only about 2 inches fell over the northwest. As usual, slippery roadways resulted in many accidents with accompanying injuries. There also were a few deaths to persons collapsing while engaged in snow removal. | | | | | | | | | | |
| Eastern Penna. | 20 | 0300EST | | | | | | | | |
| | 23 | 1000EST | | | 0 | ? | 4 | 0 | Cold Wave | |
| Arctic air moved over Eastern Pennsylvania bringing below zero readings in the mornings to most of the area. Some of the coldest temperatures reported during this period were: 25 below at Turbotville, Northumberland County; 24 below at Pleasant Mount, Wayne County; 23 below at Landisville, Lancaster County and Tobyhanna, Monroe County; 22 below at Mildred, Sullivan County, New Columbia, Northumberland County and English Center, Tioga County. Following are some of the known records that were set. New record low temperatures for the date: Harrisburg 4 below on the 21st and 9 below on the 22nd, Williamsport 11 below on the 21st and 13 below on the 22nd, at Wilkes-Barre 11 below on the 21st and 11 below on the 22nd, at Philadelphia 3 below on the 20th and 7 below on the 22nd. At Philadelphia the temperature fell to 3 below on the 20th, 3 below on the 21st and 7 below on the 22nd equalling the record for the most days with below zero readings in January and also for the winter season. The 7 below reading equalled the record for the lowest temperature in January. The cold weather resulted in many frozen and burst pipes including some water mains. Although hospitals did treat some people for frost bite, the exact number was not available. One woman was found frozen in a vacant building, but information on the cause of death is not available. | | | | | | | | | | |

| PENNSYLVANIA, Eastern | | | | | | | | | | | | |
|--|----|--------------------|--|--|--|--|---|-----|----|---|-------|------|
| Eastern Penna. | 24 | 0200EST 1200EST | | | | | 0 | 12+ | 4 | 0 | Glaze | |
| Freezing rain and freezing drizzle put a coating of ice over the region. The slippery roadways resulted in numerous accidents with at least five deaths. Pedestrians falling on the ice accounted for over 12 injuries. The accumulation of ice brought down limbs and utility lines disrupting service. | | | | | | | | | | | | |
| Eastern Penna. | 30 | 1300EST | | | | | | 0 | 4+ | 2 | 0 | Snow |
| | 31 | 1200EST | | | | | | | | | | |
| Snow accumulations reached 1 to 3 inches south and 2 to 5 inches north. The snow caused slippery roadways resulting in many accidents with several deaths and many injuries. At least 4 people sustained injuries in falls due to slippery conditions. Some light snow also fell on the 29th between 6:00 AM and 7:00 PM with accumulations of an inch or less. Slippery conditions that accompanied the snow caused many traffic accidents. | | | | | | | | | | | | |
| 36 PENNSYLVANIA, Western | | | | | | | | | | | | |
| Washington County | 10 | 2030EST | | | | | 1 | 0 | ? | 0 | 0 | Snow |
| A heavy snowstorm, producing up to 8 inches of snow in some areas, caused treacherous driving conditions which resulted in the death of a man whose car collided with the rear of a slow moving tractor-trailer and careened into a coal truck on Interstate 79, 10 miles south of Washington. | | | | | | | | | | | | |
| Westmoreland County | 11 | 1230EST | | | | | 2 | 2 | ? | 0 | 0 | Snow |
| A two car accident occurred on an icy Route 30 in the area of the North Huntingdon-Hempfield Township line. A car struck an icy patch, veered out of control and crossed the center line of the highway into the path of the oncoming car. The female driver and five year old daughter were killed. The other passenger, and the driver of the second car were injured, but not seriously. | | | | | | | | | | | | |
| Allegheny County | 18 | 0945EST | | | | | 1 | 0 | ? | 0 | 0 | Snow |
| A local college professor drowned when his car skidded off a 40 foot embankment and into the Monongahela River, off Interstate 376 in Pittsburgh, during a heavy snowstorm. | | | | | | | | | | | | |
| Forest County | 19 | ? | | | | | 2 | 0 | ? | 0 | 0 | Snow |
| A couple died when their car skidded across the center line of a snow covered Route 62 near Tionesta and collided head on with a truck hauling 22 tons of coal. | | | | | | | | | | | | |
| Greene County | 25 | 0830EST | | | | | 1 | 1 | ? | 0 | 0 | Snow |
| A man died when his car skidded on an icy Route 188 and struck a fire hydrant. A passenger in the car was slightly injured. | | | | | | | | | | | | |
| Westmoreland County | 25 | 1005EST | | | | | 1 | 0 | ? | 0 | 0 | Snow |
| A man died in a two vehicle accident on Route 22 in Salem Township when his car swerved sharply across the eastbound lane and into a truck. The truck driver was not hurt. | | | | | | | | | | | | |
| Butler County | 30 | 1440EST | | | | | 1 | 0 | ? | 0 | 0 | Snow |
| A woman died when her car was hit broadside by a school bus on Route 422 bypass during a heavy snowfall. | | | | | | | | | | | | |
| Somerset County | 30 | evening | | | | | 1 | 0 | ? | 0 | 0 | Snow |
| A female passenger died when the car she was riding in had a head on collision on Route 601 in Somerset Township during a heavy snowfall. The driver couldn't stop fast enough behind a stopped car ahead, so he went into the left hand lane where his vehicle collided head on with an oncoming car. | | | | | | | | | | | | |
| 37 RHODE ISLAND | | | | | | | | | | | | |
| NONE REPORTED | | | | | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 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 | |
| 38 SOUTH CAROLINA | | | | | | | | | |
| Northwestern South Carolina | 10 | A.M.&P.M. | | | 0 | 0 | 4 | 3 | Heavy rains flash flooding. |
| | Heavy rains of from two to four inches flooded streets, clogging drains and sewer systems. The area most seriously affected included Anderson, Greenville, Greenwood, Chester, Union, Lancaster and York counties. | | | | | | | | |
| Northern half of South Carolina | 13 | A.M.&P.M. | | | 0 | 0 | 5 | 4 | Freezing rain, glaze. |
| | Freezing rain fell across the northern half of the state, north of a line extending from McCormick County in the East, through Richland County, and to Horry County in the West. Glaze resulting from the freezing rain caused hundreds of wrecks, disrupted utilities and interrupted many normal activities. | | | | | | | | |
| Sumter, Sumter County | 30 | 1610 EST | | | 0 | 0 | 5 | 0 | Lightning |
| | Lightning heavily damaged large home. | | | | | | | | |
| 39 SOUTH DAKOTA | | | | | | | | | |
| Southwest Corner of State | 15-16 | Late Eve Afternoon | | | 0 | 0 | 0 | 0 | Heavy Snow, Wind |
| | Strong winds created ground blizzard conditions and near zero visibility in the southwestern counties. Heavy snow accompanied the strong winds in the Black Hills, with the Deadwood and Lead areas (Lawrence County) receiving ten to fifteen inches of snow. Very few problems resulted. | | | | | | | | |
| Extreme Eastern Part of State | 28-29 | Late Eve Late Eve | | | 0 | 0 | 0 | 0 | Freezing Rain Ground Blizzard |
| | Freezing rain coated extreme eastern counties, followed by light snow and very strong winds, creating very hazardous driving conditions. Up to one-half inch accumulation of ice occurred in Campbell and McPherson counties, where no travel was advised. Numerous accidents and stranded vehicles resulted, as maintenance crews were called off roads due to drifting and zero visibility. Travel became impossible the evening of the 28th in Roberts, eastern Day and Marshall Counties. The ground blizzard spread southeast, with no travel advised south and east of Mitchell (Davison County) the following evening. | | | | | | | | |
| 40 TENNESSEE | | | | | | | | | |
| Statewide | 17-19 | | | | ? | ? | | | Heavy snow |
| | Snow began during the late evening (9 pm at Memphis) on the 17th and continued into the day on the 18th as it spread eastward. A mixture of rain, sleet, and snow did not finally end until mid-day in the east. Heavy snow (3 to 4 inches) fell in a band across West and Middle Tennessee from Union City to Nashville. The rest of Middle and West Tennessee had 1 to 2 inch amounts. General one inch amounts were reported over the eastern one-third of the state with greater amounts at higher elevations. The wintery precipitation disrupted travel and forced the closing of most school systems. While the whole state was affected, the counties along the southern border of Tennessee were affected the least. | | | | | | | | |
| Statewide | 19-23 | | | | ? | ? | | | Extreme cold |
| | The winter storm which brought the snow on the 17th and 18th ushered in a period of several days of extremely cold weather. New record low temperatures were set at several locations including: | | | | | | | | |
| | | | | | Date | 20 | 21 | | |
| | Location | | | | | | | | |
| | Memphis | | | | | 9 | (tied old record) | | |
| | Nashville | | | | -3 | -5 | | | |
| | Chattanooga | | | | | 8 | | | |
| McKenzie, Carroll County | 22 | | | | | 1 | | | Cold |
| | A 67-year-old McKenzie man died of exposure in his unheated home. Low temperatures in the area were reported to be around 1 degree. | | | | | | | | |
| 41 TEXAS, Northern ————— NONE REPORTED | | | | | | | | | |
| 41 TEXAS, Southern ————— NONE REPORTED | | | | | | | | | |
| 41 TEXAS, Western ————— NONE REPORTED | | | | | | | | | |
| 42 UTAH ————— NONE REPORTED | | | | | | | | | |
| 43 VERMONT ————— NONE REPORTED | | | | | | | | | |
| 44 VIRGINIA | | | | | | | | | |
| Central & North | 10-11 | | | | 0 | 0 | 0 | 0 | Snow |
| | Low pressure moving from the southeastern corner of the nation northeastward off the mid-Atlantic coast brought a general rainy pattern across the state. This changed to sleet and freezing rain late on the 10th, turning to snow from evening of the 10th into the morning of the 11th. Snowfall totaled around one inch in the southern portion of the area to 4 inches in the north. | | | | | | | | |
| Statewide | 13-14 | | | | 0 | 0 | 0 | 0 | Glaze |
| | Low pressure moved east-northeastward out of the upper Ohio Valley bringing snow to the higher elevations and mixed freezing rain and sleet east of the mountains. Snow that totaled 2 to 4 inches over the central mountains began in the morning of the 13th. Sleet and freezing rain developed east of the mountains in the afternoon and through the night of the 13th, ending in early morning of the 14th. Hundreds of highway accidents occurred, and the hazardous conditions left many travelers stranded and forced the closing of I-95, in Stafford County, for several hours. | | | | | | | | |
| West Central | 16 | | | | 0 | 0 | 0 | 0 | Snow |
| | A weak low center moved eastward from the Ohio Valley. This brought snowfall amounts ranging from 2 to 4 inches over the western highlands region, from pre-dawn and into the afternoon. | | | | | | | | |
| Northern Half | 18 | All Day | | | 0 | 0 | 0 | 0 | Snow |
| | A cold front, accompanied by a weak low pressure development, brought a fairly extensive snow covering over the northern half of the state. Amounts ranged from 2 to 5 inches generally, with up to 8 inches reported over portions of the northern Shenandoah Valley. | | | | | | | | |
| West Central | 24 | Morning | | | 0 | 0 | 0 | 0 | Glaze |
| | Freezing rain made for difficult driving conditions during the morning rush hour. In Botetourt County, conditions were particularly bad, with a number of school buses stranded for a time. | | | | | | | | |
| 45 WASHINGTON ————— NONE REPORTED | | | | | | | | | |
| 46 WEST VIRGINIA | | | | | | | | | |
| Northern and Southern Mountains, Potomac Highlands and Greenbrier Valley | 10 | Mid Aft. -Eve | | | 0 | 5 | 4 | 0 | Heavy Snowstorm |
| | A snowstorm produced by a cold front moved across the state on January 10th depositing up to eight inches of snow on sections of the state. Pocahontas County in the Greenbrier Valley measured 6-8 inches of snow. Measurements of 4-6 inches were recorded in the Southern Mountains and 3-5 inches was measured in the Potomac Highlands and Northern Mountains. The snow was the cause of several traffic accidents. | | | | | | | | |
| Entire State | 18 | 0700-1900EST | | | 0 | ? | ? | 0 | Heavy Snowstorm |
| | A snowstorm moved across the state on January 18 dropping an average of 3-7 inches of snow with peaks up to 10 inches in the higher elevations. The storm was the cause of several traffic accidents. At Raleigh County Airport, a twin-engine airplane slid off a snow-covered runway during an aborted take-off. | | | | | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

JANUARY 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 | PROPERTY | CROPS | |
| | | | | | | | | | | | |
| 47 WISCONSIN | | | | | | | | | | | |
| Extreme Northwest Counties | 13-Afternoon Hours into 14 Afternoon Hours | | | | 0 | 0 | 0 | 0 | 0 | 0 | Heavy Snow |
| | Cold Northeast winds blowing across Lake Superior dumped heavy snow in the "Lake Superior Snow Belt". Superior in Douglas county received 2 to 3 inches with amounts of 8 inches or more toward the Washburn county line. From 3 to 8 inches fell in Bayfield county, 12 inches were deposited in the city of Ashland, Ashland county. | | | | | | | | | | |
| Statewide | 17-Early Morning Hours into 23 Early Morning Hours | | | | 2 | 0 | ? | 0 | 0 | 0 | Severe Cold |
| | An Arctic air mass settled over the state resulting in sub zero temperatures as well as wind chill factors in the 35 to 58 below zero range. 2 people died in Milwaukee as a result of exposure to the cold on the 20th. The coldest temperatures were noted on the morning of the 20th when Lake Thompson in Oneida county recorded a minus 39. A number of low temperature records were either tied or broken throughout the state during the cold snap. Several cases of frostbite were reported as well as numerous water main breaks and vehicle failures. | | | | | | | | | | |
| 48 WYOMING ————— NONE REPORTED | | | | | | | | | | | |
| 49 ALASKA, Northern | | | | | | | | | | | |
| Eastern Arctic Coast | 06 1000-1900 AST | | | | 0 | 0 | ? | 0 | 0 | 0 | Blizzard |
| | A cold front passed eastward over the eastern Arctic coast of Alaska during the early morning hours of Jan. 6. High pressure built over the central Brooks Range following this, causing strong west winds, 35 to 45 miles an hour, visibility down to 1/8 mile, and chill factors to 75 below at Barter Island. No blizzard occurred at Prudhoe Bay. No damage reported. | | | | | | | | | | |
| Eastern Arctic Coast | 19-21 | | | | 0 | 0 | ? | 0 | 0 | 0 | Blizzard |
| | A strong westerly cold frontal passage on the morning of Jan. 18, combined with strong high pressure building over eastern Siberia, caused strong west winds on the Arctic coast of Alaska east of Prudhoe Bay. Winds briefly increased to 40 miles an hour on the evening of Jan. 18, but diminished slightly later that night. Then, on the morning of Jan. 19, winds increased to 35 to 50 miles an hour, with visibility close to zero in blowing snow. This continued through the evening of Jan. 21. Total whiteout conditions, with chill factors as low as 80 below, persisted for hours at a time during this 2 1/2 day period. Scheduled daily air service to Barter Island was suspended for 5 days (Jan. 19-23), due to the blizzard. Blizzard conditions did not materialize at Prudhoe Bay. | | | | | | | | | | |
| Norton Sound | 28 evening | | | | 0 | 0 | 4 | 0 | 0 | 0 | Strong wind |
| | A large, strong low pressure system tracked south of the Aleutians on the 27th and early on the 28th, and then headed northeast toward Bristol Bay. The circulation around this vigorous weather system reached Norton Sound on the evening of Jan. 28. 100 crab pots, set through holes in thin ice about 1/2 mile offshore from Nome, were lost as north winds to 40 knots drove new ice southward, shearing off the buoys tied to the pots. 2 areal searches following the storm failed to turn up any trace of the lost equipment. | | | | | | | | | | |
| 49 ALASKA, Southern ————— NONE REPORTED | | | | | | | | | | | |
| 49 ALASKA, Southeastern | | | | | | | | | | | |
| Juneau Area | 19-26 | | | | 0 | 0 | 5 | 0 | 0 | 0 | Heavy Snow |
| | 42.6 inches of snow fell during the 9 day period. Some roofs collapsed due to the heavy snow. An area wide power outage also resulted. | | | | | | | | | | |
| 50 HAWAII | | | | | | | | | | | |
| Lanai | 14 1100HST | | | | 0 | 0 | 0 | 0 | 0 | 0 | Waterspout |
| | A waterspout was reported by the Coast Guard 3 miles off the southwest tip of Lanai. | | | | | | | | | | |
| Molokai | 15 0815HST | | | | 0 | 0 | 0 | 0 | 0 | 0 | Waterspout |
| | A waterspout was reported by a pilot off Cape Halawa. | | | | | | | | | | |
| Molokai | 15 0920HST | | | | 0 | 0 | 0 | 0 | 0 | 0 | Waterspout |
| | A waterspout moving east was reported by a pilot just west of Kalapapa. | | | | | | | | | | |
| Kauai | 17 1200HST | | | | 0 | 0 | 3 | 0 | 0 | 0 | Wind |
| | Minor wind damage to buildings and overhead wires occurred along the north shore of Kauai from Princeville to Hanalei. | | | | | | | | | | |
| 51 PUERTO RICO ————— NONE REPORTED | | | | | | | | | | | |
| 52 VIRGIN ISLANDS ————— NONE REPORTED | | | | | | | | | | | |
| 53 PACIFIC ————— NONE REPORTED | | | | | | | | | | | |

STORM SUMMARY

JANUARY 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arizona | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| California | 1 | 1 | | | | | | | | 3 | ? | 5 | 4 | | | | | | | | | | | | | | 3 | | | | | | |
| Colorado | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | 1 | | ? | | | | |
| Connecticut | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delaware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Florida | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Georgia | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Illinois | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indiana | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iowa | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 4 | | | |
| Kansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kentucky | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Louisiana | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maryland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Massachusetts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Michigan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minnesota | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Montana | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nebraska | | | | | | | | | | | | 1 | 6 | | | | | | | | | | | | | | | | | | | | |
| Nevada | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Hampshire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Jersey | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Mexico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New York | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| North Carolina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| North Dakota | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ohio | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 | | | | |
| Oklahoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ? | | | | |
| Oregon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ? | | | | |
| Pennsylvania | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rhode Island | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Carolina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Dakota | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tennessee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Texas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utah | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vermont | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Washington | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Virginia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wisconsin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wyoming | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alaska | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| Hawaii | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Pacific | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Puerto Rico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virgin Islands | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OCTOBER 1983 | LATE REPORT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Virginia | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAY 1983 | CORRECTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New York | 6 | 1 | 3 | ? | 8 | | | | | | | | 1 | 6 | ? | | | | | | | | | | | | | | ? | | | | |

STORM DATA AND UNUSUAL WEATHER PHENOMENA

LATE REPORTS

CORRECTIONS

| 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 | |
| 30 NEW YORK, Central | | | | | | | | | |
| <u>MAY 1983</u> | | | | | | | | | |
| Waverly, Tioga County | 2 | 1915EST | 2 | 880 | 0 | ? | 6 | 0 | Tornado (F3) |
| <p>A tornado touched down in Waverly and ravaged an area 1/2 mile wide by 2 miles long on Ellis Creek Road. Eight buildings were demolished. Many homes, a few autos and numerous trees were damaged. One house was moved off its foundation. The trees fell in all directions. A boy on a porch was picked up and dropped 100 yards away. Several people saw the funnel and reported hail and/or heavy rain had accompanied it.</p> | | | | | | | | | |
| Boonville, Oneida County | 2 | 2130EST | 3 | 450 | 0 | 3 | 8 | 0 | Tornado (F3) |
| <p>A tornado moved through Boonville the evening of May 2nd, almost totally destroying the village. The local Police Station was demolished, with only the toilet bowl left standing. Homes were blown off foundations, roofs ripped off, cars tossed over and through buildings. 12 structures were leveled and about 50 others were extensively damaged. The roof was stripped off of Ethan Allen, Inc., a furniture manufacturer that employs 200 people.</p> <p>One man was blown out of his livingroom chair, through a window, and into the yard. Most everyone reported hail and sounds of a freight train, with some actually seeing the funnel. Some also reported a "vacuum, everything started flying". Others reported intense pressure such that it caused pain.</p> <p>Local and State Governments declared Boonville a disaster area, and State and Federal aid was requested. Storm was investigated by National Weather Service Observer, Liv Lansing.</p> | | | | | | | | | |
| Schoharie County | 2 | 2200EST | | | 0 | 1 | 5 | 4 | Wind |
| <p>A severe thunderstorm hit Schoharie County. Damage was distributed in a straight line across the county. Large trees were downed, and some homes and outbuildings were destroyed. Corn crops also received damage. The storm path extended in a straight line from confirmed tornadoes in the Southern Tier of New York.</p> | | | | | | | | | |
| Clinton County | 7 | PM | | | 0 | 0 | 4 | 0 | Wind |
| <p>Wind-driven waves caused shore erosion in several places along Lake Champlain in Clinton County. Some homes were damaged, and local government had to move in to protect others. About 2 dozen families were evacuated.</p> | | | | | | | | | |
| Eastern New York | 18-19 | PM-AM | | | 0 | 0 | 0 | ? | Record Cold |
| <p>Overnight, record cold temperatures caused some crop damage, affecting farmers already late with planting due to a wet Spring. Damage estimates are unavailable, but damage was reported to apple trees, corn and other crops.</p> | | | | | | | | | |
| Albany, Saratoga, Rensselaer, Warren, Washington and Schenectady Counties | 23 | 1600-1900EST | | | 0 | 1 | 6 | ? | Thunderstorms, Hail, High Winds |
| <p>A line of thunderstorms moved through the Capital District, leaving hail over 1 inch in diameter in some areas and over 6 inches deep. Power and phone lines were downed. City streets were flooded when storm sewers could not handle the heavy downpours. Rainfall totaled over 3 inches in some areas. Many called this the worst storm in years.</p> | | | | | | | | | |
| 44 VIRGINIA | | | | | | | | | |
| <u>OCTOBER 1983</u> | | | | | | | | | |
| <p>DELETE: TWO TORNADOES</p> <p>in Fairfax County at 1855EST on October 13 (page 20), and in Falls Church at 1912EST on October 13 (page 20).</p> | | | | | | | | | |
| <p>ADD: TWO TORNADOES</p> <p>listed below:</p> | | | | | | | | | |
| Fairfax County | 13 | 1855EST | 1/4 | 10 | 0 | 0 | 3 | 0 | Tornado (F0) |
| <p>Touched down briefly in the 7300 block of Lee Highway in the east portion of the County. Scattered minor damage was reported.</p> | | | | | | | | | |
| Falls Church | 13 | 1912EST | 7 | 40 | 0 | 0 | 6 | 0 | Tornado (F2) |
| <p>Many homes heavily damaged on one street. As the tornado proceeded northeastward into the McLean area, two trucks were overturned and several other homes and buildings were damaged.</p> | | | | | | | | | |

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.

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



From J. Atmos. Sci., August 1981, p. 1517-1519

USCOMM-NOAA-ASHEVILLE, NC 1984-2500

DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

COM 210
THIRD CLASS
BULK RATE

