

WEATHER HISTORY FOR 1ST - 10TH

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November 1st:

1570

The All Saints Day Flood killed an estimated 400,000 people in Western Europe.

1755

Lisbon, Portugal was a prosperous city when a massive 8.5 magnitude earthquake struck off the Portuguese coast on this date.

The city's palaces and cathedrals were reduced to rubble.

Fires raged for over a week, completing the destruction. 60,000 people died in what is Europe's worst earthquake in history.

A huge tsunami swept across the entire North Atlantic, bringing a 12 foot tidal wave to the West Indies.

1846

87 pioneers were trapped by early snows in the Sierra Nevada that piled up to 5 feet deep with 30 to 40 foot drifts.

Only 47 survivors lived to tell of the 'Donner Pass Tragedy'.

1861

The "Hatteras Hurricane" battered a Union fleet of ships attacking Carolina ports, sinking two of the ships, running several aground and scattering the rest.

The storm also produced high tides and high winds in New York State and New England.

1870

United States Army Signal Corps observers at 24 sites around the country simultaneously made weather reports and transmitted them to Washington where a national weather map was drawn.

This started the process of sending out weather reports by telegraph to metropolitan newspapers. This would be the beginning of our present day National Weather Service.

1889

The infamous "White Winter" began with unusually cold temperatures and tremendous snows in parts of Nevada from November 1889 - March 1890, devastating the state's cattle industry.

1950

Strong high pressure across the southeast ridged from the southern Plains to the Great Lakes and East Coast bringing record highs.

Locations reporting all-time November record highs included: Baltimore, MD: 86°, Newark, NJ: 85°, Harrisburg, PA: 84°,

Philadelphia, PA: 84°, New York (Central Park), NY: 84°, Winona, MN: 84° (also warmest state record for November),

Williamsport, PA: 83°, Springfield, IL: 83°, New York (LaGuardia Airport), NY: 83-Tied°, South Bend, IN: 82°,

Cleveland, OH: 82°, Erie, PA: 82°, Indianapolis, IN: 81°, Detroit, MI: 81°, Grand Rapids, MI: 81°, Allentown, PA: 81°,

Avoca, PA: 81°, Rochester, NY: 81°, Syracuse, NY: 81°, Neillsville, WI: 81°, Peoria, IL: 81°-Tied, Platteville, WI: 80°,

Columbus, OH: 80°-Tied, Toledo, OH: 80°-Tied, Fort Wayne, IN: 79°, Lansing, MI: 79°, Flint, MI: 79°-Tied,

Grand Meadow, MN: 78°, Guttenberg, IA: 78°, Alma, WI: 78°, Mather, WI: 78°, Viroqua, WI: 78°, Alpena, MI: 77°, Owen, WI: 76°.

Other daily record highs included: Austin, TX: 88°, Austin (Bergstrom), TX: 88°, Macon, GA: 88°, Columbia, SC: 88°,

Raleigh, NC: 88°, Corpus Christi, TX: 88°-Tied, Savannah, GA: 86°, Richmond, VA: 86°,

Jacksonville, FL: 86°-Tied,

Augusta, GA: 86°-Tied, Pensacola, FL: 85°, Columbus, GA: 85°, Charleston, SC: 85°, Norfolk, VA: 85°, Washington, D.C.: 85°,

Wilmington, DE: 85°, Pana, IL: 84°, Huntington, WV: 84°, Greenville-Spartanburg, SC: 84°,

Charlotte, NC: 84°,

Atlantic City, NJ: 84°, Louisville, KY: 83°, Athens, GA: 83°, Asheville, NC: 83°, Lynchburg, VA: 83°,

Roanoke, VA: 83°, Decatur, IL: 83°, Chattanooga, TN: 83°-Tied, Huntsville, AL: 83°-Tied, Paducah, KY: 82°,

Chicago, IL: 81°, Oak Ridge, TN: 81°, Atlanta, GA: 81°, Evansville, IN: 80°, Pittsburgh, PA: 80°, Champaign, IL: 80°, Lexington, KY: 80°-Tied, Akron, OH: 79°, Dayton, OH: 79°, Youngstown, OH: 79°, Bristol, TN: 79°, Albany, NY: 78°, Mansfield, OH: 77°, Milwaukee, WI: 77°-Tied, Elkins, WV: 77°-Tied, Buffalo, NY: 76°, Worcester, MA: 71° and Burlington, VT: 71°.

1962

Palm Springs, CA soared to 102°, their hottest November temperature. Yuma, AZ and Astoria, OR set record highs for the date with 96° & 69° respectively.

1966

Santa Ana winds caused record heat in parts of California. Tragedy struck when fires caused by the winds claimed the lives of at least 16 firefighters.

Record highs for November included: Santa Ana, CA: 101°, Long Beach, CA: 101°, Los Angeles (LAX), CA: 101°, Downtown Los Angeles, CA: 100° and San Diego, CA: 97°-Tied.

Daily record highs included: Santa Maria, CA: 92°, Bakersfield, CA: 90°, Fresno, CA: 88°, Victorville, CA: 86°, San Francisco Airport, CA: 82° and Eureka, CA: 70°-Tied.

Caribou, ME set a November record high with 68°.

1968

A tornado touched down west of Winslow, AZ, but did little damage in an uninhabited area.

1982

This date began a five day heat wave across much of the east as high pressure anchored off the Carolina coast bringing a south to southwesterly flow.

Record highs for the date included: Corpus Christi, TX: 88°-Tied, Meridian, MS: 86°, Sterling (Dulles Airport), VA: 84°, Huntsville, AL: 83°-Tied, Cincinnati, OH: 80°, Wallops Island, VA: 79°, New York (Kennedy Airport), NY: 77°, Milton, MA: 74°-Tied and Worcester, MA: 72°.

1987

Early morning thunderstorms in central Arizona produced hail an inch in diameter at Williams and Gila Bend, and drenched Payson with 1.86 inches of rain. Hannagan Meadows, AZ, was blanketed with 3 inches of snow.

Unseasonably warm weather prevailed across the Ohio Valley. Lexington, KY set a record for the month of November with 83°.

Other daily record highs included: Memphis, TN: 84°, Paducah, KY: 83°, Louisville, KY: 83°-Tied, Oak Ridge, TN: 81°-Tied, Evansville, IN: 80°-Tied and Jackson, KY: 79°.

1988

Low pressure brought gales and locally heavy rain to the Northeast. The rainfall total of 1.46 inches at Newark, NJ was a record for the date. New York City was soaked with more than 2 inches of rain.

Record heat plagued parts of the west. The high temperature of 87° at Las Vegas, NV set the all-time warmest reading for November.

Other daily records included: Pueblo, CO: 80°, Scottsbluff, NE: 78°, Denver, CO: 78°, Winslow, AZ: 77°, Boise, ID: 74°, Billings, MT: 72°-Tied, Salt Lake City, UT: 72°-Tied and Colorado Springs, CO: 71°-Tied.

1989

A strong cold front ushered snow and arctic air into the north central U.S. Snow whitened North Dakota and the Central Plains Region. Up to 5 inches of snow blanketed Denver, CO. Yellowstone Park, WY was the cold spot in the nation with a morning low of -4°.

1991

The great ocean storm that had battered the East Coast of the U.S. for the past 2 days underwent a remarkable transformation.

Convection grew and wrapped tightly around the center and on satellite imagery an eye formed. An Air Force recon plane found a rather small but intense circulation near 39.5N/66.5W with a central pressure of 981 millibars or 28.97 inHg and sustained winds of 75 mph.

Just a couple of days before, the large extratropical cyclone which contained former Hurricane Grace created havoc along the east coast.

This type of evolution from a large extratropical low pressure to a small hurricane is rare but not unprecedented.

The storm was never named, but it was the basis for the book and movie "The Perfect Storm".

Smoke from West Virginia wildfires limited visibilities to an eighth of a mile at Charleston, WV. Most outdoor activities had to be cancelled.

From October 31st through November 2nd, a blizzard swept through southeastern South Dakota, southwestern Minnesota and northwest Iowa. Snow accumulated up to 16 inches in some areas. The snow combined with winds of 60 mph at times produced widespread blizzard conditions. Interstates 29 and 90 as well as most other roads east and south of Sioux Falls were closed as a result of the storm.

1993

A series of low pressure areas associated with the deep upper level trough which had been responsible for the record cold across the southern and central U.S. Over the past few days dumped big early season snows over the Ohio Valley and the Northeast. 3-day totals included 19.5 inches at Ellenburg Depot, NY, 19 inches at Mount Mansfield, VT and Sabinsville, PA, and 18.5 inches at Stillwater Reservoir, NY. The 10.3 inches that fell at Mansfield, OH and 9 inches at Burlington, VT were the greatest snowfalls ever for so early in the season.

1997

Super Typhoon Keith became one of the most intense typhoons ever recorded in the western Pacific east of Guam. Satellite estimates gave Keith a T8.0 on the Dvorak scale, the highest the scale goes, which translates to sustained surface winds of at least 185 mph and a central pressure in the 870-875 millibar range or 25.69 to 25.84 inHg.

1999

An Alberta Clipper with record November winds of 54 mph gusting to 70 mph swept across Winnipeg, Manitoba Canada.

2000

November started with record warmth across much of the country. Memphis, TN set a November record high with 86° and Birmingham, AL tied their all-time November record high with 85°. Other daily records included: Tupelo, MS: 86°, Columbus, GA: 86°, Montgomery, AL: 86°-Tied, Birmingham, AL: 85°-Tied, Huntsville, AL: 84°, Galveston, TX: 82°-Tied and Moline, IL: 80°-Tied.

As road crews cleared snow from highways in western North Dakota, at least 3 tornadoes touched down 125 miles away in Bismarck, ND. The F1 twisters struck without warning in the early afternoon damaging 42 homes. Tornado watches and winter storm warnings were in effect for some locations in the Dakotas at the same time on this unusual weather day. 31.9 inches of snow fell at Lead, SD to establish a new 1-day snowfall record for November.

On this date through the 2nd, heavy and persistent rains across the eastern half or the windward side of the "Big Island" of Hawaii dumped 27.24 inches of rain at the Hilo Airport in 24-hours, breaking the previous 24-hour rainfall record.

2002

The earliest below zero temperature on record for Sidney, NE was recorded as they dropped to -2°.

November 2nd:

1743

Benjamin Franklin's "eclipse hurricane" unlocked the key to storm movement. Ben Franklin, at Philadelphia, PA was prevented from viewing a lunar eclipse in a northeast rainstorm, but his brother, who was in Boston, saw it, though the rain began an hour later.

1810

An early season winter storm produced 7 inches of snow in New York City.

1861

The Federal Expedition, the largest fleet of American warships assembled up to that time, sailed from Maryland to attack Confederate installations in South Carolina. Upon rounding the North Carolina capes it ran into a hurricane that sank two of the ships. The fleet otherwise survived and five days later captured Port Royal Sound, South Carolina.

1945

A major wind and rain storm hit Prince Rupert, British Columbia Canada.

Coming after several days of snow in the mountains, the rain caused over 30 slides and washouts while trapping a train carrying 141 American soldiers for two days.

1946

A three day snowstorm was in progress at Denver, CO.

By the time the storm was over, 30.4 inches of snow fell at downtown Denver and 31 inches at the former Stapleton International Airport.

Snow fell for 70 hours and 46 minutes (from 4:22am MT on this date to 3:08am MT on the 4th).

This is the second longest period of continuous precipitation on record and the second heaviest snowfall on record at that time for Denver.

The 17.7 inches of snowfall from this date through the 3rd was the greatest 24-hour snowfall ever recorded during the month of November.

Schools were closed and transportation was disrupted.

Secondary roads in rural areas were blocked for 2 to 3 weeks after the storm and livestock losses were high. 2.03 inches of liquid precipitation was recorded.

This exceeded the greatest amount ever recorded during the entire month of November breaking the previous monthly record of 1.95 inches set back in 1922.

1950

High pressure off the East Coast brought another day of record warmth from the Mid-Atlantic States into New England.

Many locations recorded record highs for the month of November including: Boston, MA: 83°, Hartford, CT: 83°, New York (LaGuardia Airport),

NY: 83°-Tied, Providence, RI: 81°, Milton, MA: 81°, Concord, NH: 80°, Worcester, MA: 79°,

Bridgeport, CT: 77° and Burlington, VT: 75°-Tied.

Other record high temperatures for the date included: Baltimore, MD: 84°, Newark, NJ: 84°,

Boston, MA: 83°, Norfolk, VA: 83°, Washington, D.C.: 83°,

New York (Central Park), NY: 83°, Albany, NY: 82°, Wilmington, DE: 81°, Atlantic City, NJ: 81°,

Philadelphia, PA: 81°, Allentown, PA: 80°,

Harrisburg, PA: 79°, Avoca, PA: 78°, Williamsport, PA: 74°, Portland, ME: 73° and Caribou, ME:

63°.

1951

A large ridge of Canadian high pressure pushed a cold front into the southeast states southwest into northern Mexico bringing an early taste of winter.

Many record lows were set including: Colorado Springs, CO: -8°, Lander, WY: -7°, Fargo, ND: -7°,

Denver, CO: -6°, Pueblo, CO: -6°, Bismarck, ND: -5°,

Alamosa, CO: -4°, Goodland, KS: -4°, Sheridan, WY: -2°, Rapid City, SD: -2°, International Falls,

MN: -2°, Cheyenne, WY: -1°, Scottsbluff, NE: -1°,

Duluth, MN: -1°, St. Cloud, MN: -1°, Valentine, NE: 1°, North Platte, NE: 3°, Sioux Falls, SD:

5°, Grand Island, NE: 6°, Sioux City, IA: 7°,

Norfolk, NE: 8°, Dodge City, KS: 8°, Dubuque, IA: 8°, Rochester, MN: 8°, Marquette, MI: 8°,

Minneapolis, MN: 9°, Green Bay, WI: 9°,

Lincoln, NE: 10°, Des Moines, IA: 10°, Waterloo, IA: 10°, Omaha, NE: 11°, La Crosse, WI: 11°,

Madison, WI: 11°, Peoria, IL: 12°,

Rockford, IL: 12°, Amarillo, TX: 13°, Milwaukee, WI: 13°, Moline, IL: 13°, Springfield, IL: 13°,

Chicago, IL: 14°, Grand Junction, CO: 14°,

Ste. St. Marie, MI: 14°, Concordia, KS: 15°, Columbia, MO: 15°, Springfield, MO: 15°, South Bend,

IN: 15°, Indianapolis, IN: 16°,

St. Louis, MO: 18°, Evansville, IN: 18°, Grand Rapids, MI: 18°, Muskegon, MI: 18°, Paducah, KY:

18°, Lubbock, TX: 19°, Flint,

MI: 20°, Alpena, MI: 20°-Tied, Louisville, KY: 22°, Detroit, MI: 22°-Tied, Tulsa, OK: 23°,

Lexington, KY: 23°, Cincinnati,

OH: 23°-Tied, Fort Smith, AR: 24°, Little Rock, AR: 25°, San Angelo, TX: 25°, Nashville, TN: 25°,

Shreveport, LA: 26°,

Memphis, TN: 26°, Abilene, TX: 27°, Wichita Falls, TX: 27°, Dallas, TX: 28°, Waco, TX: 28°,

Huntsville, AL: 28°-Tied,

Austin (Bergstrom), TX: 29°, Dallas (DFW), TX: 29°, Austin, TX: 30°, Beaumont-Port Arthur, TX:

31°, San Antonio,

TX: 32°, Victoria, TX: 36°, Lake Charles, LA: 36°-Tied, Houston, TX: 37°, Galveston, TX: 41°,

Corpus Christi, TX: 42° and Brownsville, TX: 43°-Tied.

1961

A large ridge of high pressure brought record autumn heat from the Great Lakes into the Southeast.

Locations recording their all-time record high for November included: Augusta, GA: 90°, Columbia, SC: 90° and Atlanta, GA: 84°.

Other record highs for the date included: Tampa, FL: 88°, Macon, GA: 88°, Savannah, GA: 88°,

Charleston, SC: 87°, Jacksonville,

FL: 87°, Athens, GA: 86°, Columbus, GA: 86°, Charlotte, NC: 85°, Meridian, MS: 85°, Chattanooga,

TN: 84°, Birmingham, AL: 84°,

Huntsville, AL: 84°, Evansville, IN: 83°, Knoxville, TN: 83°, Memphis, TN: 83°, Nashville, TN:

83°, Oak Ridge, TN: 83°,

Greenville-Spartanburg, SC: 83°, Little Rock, AR: 83°, Evansville, IN: 83°, Louisville, KY: 81°,

Cincinnati, OH: 80°,
St. Louis, MO: 80°, Springfield, IL: 80°, Indianapolis, IN: 78°, Chicago, IL: 77°, Columbus, OH:
77°-Tied, Dayton,
OH: 77°-Tied, Fort Wayne, IN: 76°, Muskegon, MI: 76°, Rockford, IL: 76°, Toledo, OH: 76°-Tied,
Green Bay, WI: 69° and Marquette, MI: 66°.

1966

A storm brought 18 inches of snow to Celia, KY in 24 hours. It tied the state 24-hour snowfall record first established at Bowling Green.

1971

A ridge along the east coast with upper level high pressure off the Florida coast brought record heat from parts of southern New England to the south.

Locations recording their highest November temperature included: Mobile, AL: 87°-Tied and Sterling (Dulles Airport), VA: 84°-Tied.

Other locations reporting record highs for the date included: Jackson, MS: 88°, Montgomery, AL: 86°, Washington, D.C.: 85°, Tupelo, MS: 85°,
Richmond, VA: 84°-Tied, Lynchburg, VA: 82°, Harrisburg, PA: 82°, Roanoke, VA: 82°-Tied,
Asheville, NC: 80°, Williamsport, PA: 80°,
Bristol, TN: 80°-Tied, Greensboro, NC: 80°-Tied, Cape Hatteras, NC: 78°-Tied, Syracuse, NY: 76°, Binghamton, NY: 74° and New York (Kennedy Airport), NY: 73°.

1972

A strong winter storm affected portions of central and eastern South Dakota.

South central and east central sections of the state were hit with a heavy snow event while the southeast was coated with a layer of ice.

Snow amounts of up to 20 inches blanketed the south central part of the state.

The snow was quite wet and downed many trees and power lines. Some snow amounts included:

Gregory, SD: 19.5 inches, Wewala, SD: 18 inches, and Platte, SD: 12 inches.

Meanwhile a light, steady freezing rain deposited up to two inches of ice on trees, bushes, cars, and buildings in southeastern South Dakota.

1982

High pressure off the Delmarva Peninsula brought the Mississippi & Ohio Valley to the East Coast record high temperatures for the date including

Meridian, MS: 86°, Williamsport, PA: 81°, Avoca, PA: 80°, Jackson, KY: 79°, Erie, PA: 78°,

Youngstown, OH: 78°-Tied, Binghamton, NY: 77°,

Columbus, OH: 77°-Tied and Syracuse, NY: 76°-Tied.

1987

More than a dozen cities, mostly in the Ohio Valley, reported record high temperatures for the date including: Memphis, TN: 84°, Fort Smith, AR: 84°-Tied,

Paducah, KY: 83°-Tied, Nashville, TN: 83°-Tied, Louisville, KY: 82°, Cincinnati, OH: 81°, St.

Louis, MO: 80°-Tied, Columbus, OH: 79°, Toledo, OH: 78°,

Lexington, KY: 78°-Tied, Fort Wayne, IN: 77°, Dayton, OH: 77°-Tied and Mansfield, OH: 76°-Tied.

Showers and thundershowers over southern Florida, associated with a tropical depression, produced 4.77 inches of rain at Tavernier, located in the Upper Florida Keys.

1988

A very intense area of low pressure brought heavy rain, snow, and high winds, to parts of the northeastern U.S. Portland,

ME established a record for November with 4.52 inches of rain in 24 hours, and winds along the coast of Maine gusted to 74 mph at Southwest Harbor.

Heavy snow blanketed parts of northern Vermont and upstate New York, with 15 inches reported at Spruce Hill, NY.

1989

Squalls in the Upper Great Lakes Region the first 3 days of the month buried Ironwood, MI under 46 inches of snow, and produced 40 inches at Hurley, WI.

Midland-Odessa and El Paso, TX reported record low temperatures for the date with 22° and 28° respectively.

1991

Strong low pressure of 988 millibars or 29.18 inHg north of Lake Superior combined with high pressure over southern Canada brought record winter-like cold from parts of the Rockies into the Plains.

Kimball, NE matched their record earliest below zero with -2°. Other daily record lows included: Alamosa, CO: -21°, Great Falls, MT: -16°, Casper, WY: -14°,

Helena, MT: -13°, Lander, WY: -12°, Pueblo, CO: -10°, Cheyenne, WY: -7°, Scottsbluff, NE: -4°,

Billings, MT: -2°, Sheridan, WY: -2°-Tied, Valentine, NE: -2°,

North Platte, NE: 1°, Missoula, MT: 0°, Grand Island, NE: 4°, Dodge City, KS: 4°, Norfolk, NE:

5°, Concordia, KS: 8°, Lincoln, NE: 9°, Omaha, NE: 9°.

Amarillo, TX: 10°, Kansas City, MO: 12°, Topeka, KS: 14°-Tied, Wichita, KS: 14°-Tied, Oklahoma City, OK: 19°, Lubbock, TX: 19°-Tied, Abilene, TX: 25°, Dallas (DFW), TX: 28° and Houston, TX: 34°.

1992

Another infamous November Great Lakes storm brought near-hurricane conditions to Minnesota's Lake Superior shoreline.

70 mph winds caused waves to crash over 130 foot walls along the shore.

1998

The Chikaskia River at Blackwell rose to a record crest of 34.40 feet, which is nearly five and a half feet above flood stage.

This was in association with a 3 day flood event across northern and north-central Oklahoma, in which 16 river forecast points were above flood stage, with 17 counties affected.

Unfortunately, one woman drowned when her car was swept off a highway near Aline.

2000

27.24 inches of rain fell at Hilo, HI beginning the previous date through this date; easily breaking their record for rainfall in a 24-hour period.

The previous record was 22.30 inches set on February 19-20, 1979. 37 inches of rain fell at Kapapala Ranch on the big island of Hawaii. 22.25 inches of it occurred in just 6 hours.

This just missed breaking the all-time 24-hour rainfall record for the state of 38 inches at Kilauea Sugar Plantation on Kauai in January 1956.

2001

An intense storm, dubbed Cyclone Manfred by the Deutscher Wetterdienst, began as rain then turned to heavy wet snow in Central Finland.

40,000 households lost power for up to 24 hours. The storm appeared to be one of the strongest depressions to ever hit Finland.

2004

A strong storm system and associated cold air resulted in measurable snow accumulations over the plains of southeastern New Mexico on the morning of Election Day.

By mid morning, a band of heavy snow had developed from northern Lea County, eastward across the Texas South Plains. Snowfall totals between 4 to 6 inches were reported near Tatum.

November 3rd:

1922

A northwesterly gale spawned huge waves that caused severe damage along the northern coast around Cape Breton, Nova Scotia Canada.

Winds exceed 80 mph during the storm.

1924

A rare warm November day in Geneva, Switzerland as the temperature rose to 73°.

1927

A tropical storm formed south of Cuba, crossed the Bahamas then became an extra-tropical cyclone southeast of North Carolina.

The remnants accelerated northward, passing the Mid Atlantic states and moving into New England. Heavy rains accompanied the storm.

As the system raced through New England, Portland, ME, measured a wind gust to 70 mph.

As much as 15 inches of rain fell during a 2-day period over western New England resulting in devastating flooding in the Winooski Valley.

8 to 10 feet of water was standing in downtown Montpelier, VT. The "Great Vermont Flood" resulted in 200 deaths in New England, including 84 in Vermont.

In addition, 8.77 inches of rain fell at Somerset, VT to establish a 24-hour record for the state.

1961

A rare November thunderstorm produced snow at Casper, WY.

1964

Up to 5.4 inches of rain was measured in Mountain View, OK.

This rain fell within a three hour and fifteen minute period. Farm ponds in the area were filled to capacity for the first time in 35 months,

and 23 country road bridges, as well as cotton crops, were ruined in nearby Kiowa County.

This was all part of a 3 day flood event. By the end of the event, Mountain View had measured an astounding 7.2 inches.

Several locations across the Midwest reported record highs. Locations reporting their warmest

November highs included:

Hillsboro, WI: 75°, Necedah, WI: 75°, Trempealeau, WI: 75° and Genoa, WI: 74°.

Other locations reporting record highs for the date included: Springfield, IL: 79°, Peoria, IL: 77°, Madison, WI: 76°, Chicago, IL: 75°, La Crosse, WI: 74°, South Bend, IN: 74°, Milwaukee, WI: 74°-Tied, Fort Wayne, IN: 74°-Tied and Dubuque, IA: 73°-Tied.

1966

An early season snowfall, which started on the 2nd, whitened the ground from Alabama to Michigan. Mobile, AL had their earliest snowflakes on record. Louisville, KY measured 13.1 inches, Nashville, TN checked in with 7.2 inches and Huntsville, AL had 4 inches of snow.

6 to 12 inches of snow fell across southwest lower Michigan while parts of Kentucky picked up 18 inches.

1978

Seven inches of rain fell at Memphis, TN causing widespread flooding. A congregation was stranded inside their church.

Locations in the Midwest and Missouri Valley reported record highs. Dodge, WI hit 76°, their warmest November temperature.

Other locations reporting daily record highs included: Kansas City, MO: 82°, Sioux City, IA: 81°, Memphis, TN: 81°-Tied, Springfield, MO: 80°, Columbia, MO: 79°, Des Moines, IA: 76°, Waterloo, IA: 76°, La Crosse, WI: 75°, South Bend, IN: 75°, Indianapolis, IN: 75°-Tied, Minneapolis, MN: 74°, St. Cloud, MN: 74°, Marquette, MI: 74°, Alpena, MI: 74°-Tied, Rochester, MN: 73°, Dubuque, IA: 73°-Tied and International Falls, MN: 66°.

1980

The 24 degree temperature range with a low of 19° in northwest suburbs to 43° in downtown Washington D.C. was very unusual.

1982

Surface high pressure along the Mid Atlantic combined with upper level high pressure off the Bahamas brought unseasonably warm weather to the East Coast.

Sterling(Dulles Airport), VA: 82°, Georgetown, DE: 80°, Philadelphia, PA: 76°-Tied, Binghamton, NY: 75°, Williamsport, PA: 74°, Albany, NY: 74°, Burlington, VT: 74°, Syracuse, NY: 74°-Tied and Worcester, MA: 73°.

1987

Many cities, mostly in the Ohio Valley and Deep South, reported record high temperatures for the date.

The afternoon high of 80° at Columbus, OH was their warmest reading on record for so late in the season.

Other daily record highs included: Houston, TX: 87°, Midland-Odessa, TX: 85°, Fort Smith, AR: 85°, Montgomery, AL: 85°, Shreveport, LA: 84°, St. Louis, MO: 82°, Memphis, TN: 82°, Evansville, IN: 81°, Columbia, MO: 79°-Tied, Peoria, IL: 78°, Lexington, KY: 78°-Tied, Indianapolis, IN: 77°, Dayton, OH: 77°, Toledo, OH: 77°, Jackson, KY: 77°-Tied, Fort Wayne, IN: 76°, South Bend, IN: 76°, Flint, MI: 75°, Chicago, IL: 75°-Tied, Detroit, MI: 75°-Tied and Grand Rapids, MI: 73°-Tied.

Showers and thundershowers associated with a tropical depression south of Florida produced 4.28 inches of rain at Clewiston in 24 hours.

1988

A sharp cold front brought about an abrupt end to "Indian Summer" in the North Central U.S. Up to a foot of snow blanketed Yellowstone Park, WY, and winds in the mountains near the Washoe Valley of southeastern Wyoming gusted to 78 mph.

Unseasonably warm weather continued in the South Central U.S. Del Rio, Laredo and McAllen, TX tied for honors as the hot spot in the nation with a record warm afternoon high of 91°. Bishop, CA hit 84°, their warmest November temperature. Other record highs included: Corpus Christi, TX: 88°, San Angelo, TX: 88°, Abilene, TX: 87°, Midland-Odessa, TX: 86°, Austin (Bergstrom), TX: 85°-Tied, Roswell, NM: 85°-Tied, Winslow, AZ: 80° and Alamosa, CO: 66°-Tied.

1989

Cold weather prevailed in the central U.S. Three cities in Texas & Minnesota reported record low temperatures for the date including:

International Falls, MN: 2°, San Angelo, TX: 24° and Midland-Odessa, TX: 27°.

1991

Brownsville, TX recorded its first snow since 11/28/1976.

Only a trace fell but this stands out as significant, since snow occurred so far south so early and the fact that Portland, ME had not recorded its first snow of the season up to this date. The last measurable snow in Brownsville was way back in February 1895 when the local paper reported 5 inches on the ground.

Brownsville did not receive measurable snow on any date in the 20th century.

Record cold prevailed across Colorado behind the "Halloween Mega Storm". Pueblo dropped to -17°, breaking the previous record for the day by an amazing 28 degrees.

Alamosa recorded -26°, breaking the old daily record by 18 degrees. Other daily record lows included: Havre, MT: -15°-Tied, Lander, WY: -12°, Glasgow, MT: -11°, Helena, MT: -8°, North Platte, NE: -6°, Bismarck, ND: -4°, Scottsbluff, NE: -4°, Colorado Springs, CO: -2°, Sioux Falls, SD: -2°, Norfolk, NE: -2°, Missoula, MT: 0°, Clayton, NM: 0°, Fargo, ND: 0°, Grand Forks, ND: 0°, Rapid City, SD: 0°, Grand Island, NE: 0°, Valentine, NE: 0°, St. Cloud, MN: 0°, Aberdeen, SD: 1°, Huron, SD: 1°, Lincoln, NE: 1°, Goodland, KS: 1°, Dodge City, KS: 3°, Sioux City, IA: 3°, Concordia, KS: 4°, Rochester, MN: 4°, Omaha, NE: 6°, Amarillo, TX: 7° (broke previous record by 11 degrees), Lubbock, TX: 7° (broke previous record by 16 degrees), Des Moines, IA: 7°, Minneapolis, MN: 8°, Waterloo, IA: 9°, Kansas City, MO: 10° (broke previous record by 10 degrees), Oklahoma City, OK: 11° (broke previous record by 10 degrees), La Crosse, WI: 11°, Wichita, KS: 12°, Columbia, MO: 12°, Springfield, MO: 12°, Mansfield, OH: 14°-Tied, Grand Junction, CO: 15°, Tulsa, OK: 16°, St. Louis, MO: 16°-Tied, Akron, OH: 18°-Tied, Albuquerque, NM: 19°, Wichita Falls, TX: 19°, Youngstown, OH: 19°, Columbus, OH: 20°, Abilene, TX: 21°, Jackson, KY: 21°, Midland-Odessa, TX: 22°, San Angelo, TX: 24°-Tied, Dallas (DFW), TX: 25° and Dallas, TX: 27°.

1992

A significant snowfall blanketed much of the South Dakota.

The greatest snow amounts of over one foot occurred across the north central and northeast as well as in the northern Black Hills while 3 to 7 inches fell elsewhere.

Some of the higher totals included 25.2 inches at Lead, located in the Black Hills, 15 inches at Eureka, and 14 inches near Summit.

Numerous traffic accidents resulted from the storm and a building under construction near Madison collapsed as the snow and wind weakened the supports.

Corpus Christi& Houston, TX reported record highs of 88° and 87°respectively.

2000

At least 300 people evacuated their homes in York, England as the River Ouse reached its' highest level in 400 years of records.

The raging river came within two inches of breaching the town's flood defense dikes as it crested at 17.8 feet above normal.

2002

A magnitude 7.9 earthquake struck the remote interior section of Alaska, causing the Trans Alaska Pipeline to shut down.

No leaks were found along the pipeline, which was designed to withstand an 8.5 magnitude quake. The quake's epicenter was located 75 miles south of Fairbanks in a sparsely populated area. The quake was felt over the entire state. Highways were damaged, with major cracks reported in two roadways.

2007

Dense fog resulted in an 86 vehicle pile-up just north of Fowler, CA on I-99 during the early morning hours.

Two people were killed and 41 others were injured. After the fog burned off, record high temperatures were set at: Merced, CA: 78°, Madera, CA: 78° and Hanford, CA: 77°.

November 4th:

Radiosondes are weather instruments that measure temperature, humidity, and barometric pressure of the atmosphere.

These radiosondes are carried into the sky using weather balloons filled with helium or hydrogen. When inflated, the balloon is about 4-5 feet in diameter and several feet high.

However, as the balloon ascends, the decreased effects of barometric pressure cause the balloon to expand. It will usually pop at an elevation close to 100,000 feet off the ground. By this time, the balloon is about the size of a small house.

1927

The great Vermont flood occurred. Tropical rains deluged the Green Mountain area of Vermont causing the worst flood in the history of the state. Torrential rains, up to 15 inches in the higher elevations, sent streams on a rampage devastating the Winooski Valley. Flooding claimed 200 lives and caused \$40 million dollars damage. The town of Vernon reported 84 deaths. Flooding left up to eight to ten feet of water in downtown Montpelier VT.

1935

The "Yankee" Hurricane hit Miami, FL. The storm was so-named because it came from a northeasterly direction. This was rare, because hurricanes almost never approach south Florida from the northeast. Winds exceeded 95 mph at Miami.

1940

The longest period with snow at 200 days ended on this date at Denver, CO with the first snow of the season, a trace. The last snow prior was on 4/17/1940.

1946

The United Kingdom recorded its hottest November day on record when the high temperature reached 71° at Prestatyn, Wales.

1950

An F3 tornado skipped from the Neighborville-Reamstown area, to Adamstown and Tuckerton, Berks County, Pennsylvania, damaging or destroying 14 buildings.

1970

An F2 tornado touched down during the afternoon in Atlantic County, New Jersey. An intense hailstorm at Point Pleasant Beach, NJ produced significant accumulation.

1976

Parts of the west enjoyed record heat. San Diego, CA hit 97°, setting their highest November temperature. Other daily records included: Los Angeles (LAX), CA: 96°, Downtown Los Angeles, CA: 96°, Sacramento, CA: 84°, Stockton, CA: 83°-Tied, Havre, MT: 76° and Quillayute, WA: 65°.

1980

Vancouver, British Columbia Canada set a record high and their warmest November day ever as the mercury soared to 65°. Further south record highs occurred across parts of the west. Idyllwild, CA tied their highest reading for November with 80°. Other daily record highs included: Borrego Springs, CA: 94°, Las Vegas, NV: 85°, Elko, NV: 78°, Winnemucca, NV: 76°, Lander, WY: 69°-Tied, Portland, OR: 69°-Tied and Quillayute, WA: 65°-Tied.

1982

The five day long heat wave along the east coast came to an abrupt end with the passage of a strong cold front. For the previous five days, a strong ridge of high pressure moved from the Midwest across the Ohio Valley to off the east coast. Temperatures warmed into the 70's all the way into New England and the low 80's to Philadelphia. Record highs for the date included: Vero Beach, FL: 87°, Newark, NJ: 77°-Tied, Burlington, VT: 73° and Caribou, ME: 66°.

1985

Tropical rains from the remnants of Hurricane Juan dumped up to 15 inches in the mountains of Virginia and West Virginia causing devastating damage and claiming 40 lives.

1987

Many cities in the eastern and south central U.S. reported record high temperatures for the date. Highs of 89° at Dallas, TX, 86° at Fort Smith, AR and 74° at Portland, ME and equaled November records. Other daily record highs included: Houston, TX: 88°, San Angelo, TX: 88°, Wichita Falls, TX: 88°, Dallas (DFW), TX: 88°-Tied, Miami, FL: 88°-Tied, Midland-Odessa, TX: 87°, Abilene, TX: 87°-Tied, Lake Charles, LA: 85°, Galveston, TX: 82°, Evansville, IN: 82°, Paducah, KY: 82°, Memphis, TN: 82°, Nashville, TN: 81°, Tupelo, MS: 81°, Louisville, KY: 80°, Columbus, OH: 78°, Oak Ridge, TN: 78°, Wallops Island, VA:

78°, Newark, NJ: 78°, Hartford, CT: 78°, Boston, MA: 78°, Cincinnati, OH: 78°-Tied, Cape Hatteras, NC: 78°-Tied, Jackson, KY: 77°, Asheville, NC: 77°, Providence, RI: 77°, Milton, MA: 77°, Albany, NY: 76°, New York (LaGuardia Airport), NY: 76°, Syracuse, NY: 75°, Concord, NH: 75°, Worcester, MA: 74°, Portland, ME: 74°, Binghamton, NY: 72° and Islip, NY: 70°.

A cold front ushered much colder air into the north central U.S. Gale force winds lashed all 5 Great Lakes.

Heavy rain and storms began on this date and lasted into the next day brought 2.02 inches of rain to Palomar Mountain, CA and 1.16 inches to San Diego. Numerous roads were flooded around San Diego along with mudslides in nearby areas. Flash flooding stranded 8,000 people in Death Valley, CA.

1988

Thunderstorms developing ahead of a fast moving cold front produced severe weather over the Tennessee Valley and the Central Gulf Coast States during the afternoon and evening hours, and into the next morning.

Thunderstorms spawned 19 tornadoes, including 11 in Mississippi.

One tornado narrowly missed a high school football game in McComb, MS. An F3 tornado struck a school at New Site, MS just as it was dismissing.

Alert teachers rushed the students back into hallways just in time.

The last of the 19 twisters killed a woman in her mobile home in Lee, FL. A tornado in Culbert, AL injured 16 people, and caused \$2 million dollars damage.

Thunderstorms also produced baseball size hail in Alabama.

Unseasonably hot air prevailed south of the cold front. McAllen, TX was the hot spot in the nation with a high of 102°.

Locations setting high temperature records for November included: Corpus Christi, TX: 98°, Del Rio, TX: 96°,

San Antonio, TX: 94°, Victoria, TX: 93°, Houston, TX: 89°-Tied, Key West, FL: 87°-Tied, Galveston, TX: 85°-Tied and Bishop, CA: 83°. Big Bear Lake, CA tied their all-time November high temperature record with 74°.

Other daily record highs included: Brownsville, TX: 97°, Austin, TX: 89°, Austin (Bergstrom), TX: 89°,

Midland-Odessa, TX: 89°, Miami, FL: 89°, El Paso, TX: 86°, Roswell, NM: 86° and Las Vegas, NV: 85°-Tied.

1989

Snow and high winds plagued parts of Colorado and Wyoming. Winds gusted to 71 mph near Wheatland, WY, and reached 80 mph west of Fort Collins, CO.

Up to 5 inches of snow blanketed Yellowstone Park, WY closing many roads. Snow also blanketed northern Minnesota, with 7 inches reported at Baudette.

1991

Record cold continued to prevail from the Rockies to the Southeast as cold high pressure built in behind the Halloween Meg-Storm.

Record low temperatures were set at: Alamosa, CO: -13°, Norfolk, NE: -9°, St. Cloud, MN: -9°, Sioux Falls, SD: -6°, Lincoln, NE: -4°,

Grand Island, NE: -3°, Sioux City, IA: -3°, Minneapolis, MN: -3°, Aberdeen, SD: -2°, Lander, WY: -2°, International Falls, MN: -2°,

Rochester, MN: -2°, Valentine, NE: 0°, Huron, SD: 0°, North Platte, NE: 2°, Omaha, NE: 3°,

Pueblo, CO: 3°, Concordia, KS: 4°,

Des Moines, IA: 4°, Waterloo, IA: 4°, La Crosse, WI: 4°, Duluth, MN: 4°-Tied, Dubuque, IA: 6°, Marquette, MI: 6°,

Kansas City, MO: 7°, Dodge City, KS: 9°, Topeka, KS: 9°, Springfield, MO: 10°, Moline, IL: 10°,

Rockford, IL: 10°-Tied, Chicago, IL: 11°, Peoria, IL: 11°, Springfield, IL: 11°, Elkins, WV: 11°, Columbia, MO: 13°,

Akron, OH: 13°, Youngstown, OH: 14°, Cincinnati, OH: 16°, Cleveland, OH: 16°, Paducah, KY: 16°, Wichita, KS: 17°,

Evansville, IN: 17°, Midland-Odessa, TX: 18°, Columbus, OH: 18°, Lexington, KY: 18°, Flint, MI: 18°-Tied,

Huntington, WV: 19°, Fort Smith, AR: 20°, Jackson, KY: 20°, Louisville, KY: 20°, Nashville, TN: 20°, Huntsville, AL: 20°,

San Angelo, TX: 21°, Tulsa, OK: 21°, Tupelo, MS: 21°, Charleston, WV: 21°, Amarillo, TX: 22°, Memphis, TN: 22°,

Birmingham, AL: 22°, Waco, TX: 23°, Shreveport, LA: 23°, Little Rock, AR: 23°, Dallas, (DFW), TX: 25°,

Austin (Bergstrom), TX: 27°, Baton Rouge, LA: 27°, Montgomery, AL: 27°-Tied, Houston, TX: 28°, San Antonio, TX: 28°, Mobile, AL: 28°, Austin, TX: 29°, Del Rio, TX: 30°, Pensacola, FL: 30°, Lake Charles, LA: 31°, Beaumont-Port Arthur, TX: 32° and Galveston, TX: 37°.

1994

A record warm November day in The Netherlands occurred when the high temperature reached 70° in Oost Maarland and Beek.

2000

The record string of days with no precipitation finally ended at some sites in North Carolina. The Raleigh and Durham International Airport received 0.01 of an inch of rain; the first measurable rain since September 26th when 0.03 of an inch of rain fell.

The 38-day streak was the longest on record at the site breaking the 32-day record set from 11/23 to 12/24/1965.

2001

Hurricane Michelle was only the 5th November major hurricane in the Atlantic.

At its peak intensity on the 3rd, the Category 4 hurricane had top winds of 135 mph.

Hurricane warnings were in effect for Cuba on the 3rd as the island braced for its worst hurricane since 1944.

The storm weakened before landfall, but Cuba suffered significant damage to crops and infrastructure, especially the important sugar cane crop that was ready for harvest. Fortunately, the hurricane missed major cities and crossed less inhabited agricultural areas.

A few locations out west reported record highs for the date including: Phoenix, AZ: 95°, Tucson, AZ: 91°-Tied, Merced, CA: 77° and Pocatello, ID: 66°-Tied.

November 5th:

1894

The famous Election Day snowstorm occurred in Connecticut. As much as a foot of wet snow fell, with high winds caused great damage to wires and trees.

Winds gusted to 60 mph at Block Island RI.

1948

A waterspout made landfall at Vlieland in the Netherlands.

While it passed over the local weather station, the anemometer measured a gust of 126 mph, the strongest gust ever recorded in the Netherlands.

1961

Strong Santa Ana winds fanned the flames of the Bel Air and Brentwood fires in southern California destroying many homes.

At 10 pm local time, the Los Angeles Civic Center reported a temperature of 74° along with a dew point of 5°. The next day, Burbank reported a relative humidity of 3%.

1975

Regina, Saskatchewan Canada experienced its warmest November day when the temperature rose to 74°.

Havre, MT tied their November record high with 78°. Other record highs included: Grass Range, MT: 85°, Fort Benton, MT: 79°, Sheridan, WY: 78°, Lewistown, MT: 78°, Stanford, MT: 77°, Huron, SD: 76°, Great Falls, MT: 76°, Grand Forks, ND: 75°, Rapid City, SD: 75°, Bismarck, ND: 74°, International Falls, MN: 73°, Billings, MT: 73°, Boise, ID: 73°-Tied, St. Cloud, MN: 72°, Pocatello, ID: 71°, Cut Bank, MT: 71°, Minneapolis, MN: 70°, Fargo, ND: 70°, Duluth, MN: 68°, Glasgow, MT: 67°-Tied and Wisdom, MT: 63°.

1977

A slow moving storm produced 5 to 9 inch rains across northern Georgia causing the Toccoa Dam to burst.

As the earthen dam collapsed the waters rushed through the Toccoa Falls Bible College killing 3 people in the dorms.

38 people perished at a trailer park along the stream.

1987

Low pressure off the California coast produced stormy weather in the southwestern U.S.

Flash flooding stranded 8,000 people in the Death Valley National Park of southern California. Thunderstorms over southern Nevada produced dime size hail and wind gusts to 68 mph around Las Vegas, NV.

Unseasonably mild weather in the northeastern U.S. was replaced with snow and gale force winds.

1988

A powerful storm produced high winds from the Great Plains to New England, and produced heavy snow in northern Wisconsin and Upper Michigan.

A wind gust of 64 mph was measured in Knoxville, TN. Winds gusted to 80 mph at Pleasant Valley, VT.

1989

Temperatures warmed into the 80s across much of Texas with some locations reporting record high temperatures for the date including:

San Angelo, TX: 88°, Dallas (DFW), TX: 86°, Abilene, TX: 86°-Tied and Dallas, TX: 85°.

1991

Record cold occurred in the East. Elkins, WV dropped to 8°, set not only a new daily record low but also a record for the coldest temperature so early in the season.

Pittsburgh, PA bottomed out at 11° setting the same two records as Elkins. Other daily record lows included: Marquette, MI: 5°, Mansfield, OH: 13°, Youngstown, OH: 13°, Huntington, WV: 14°, Akron, OH: 14°, Cincinnati, OH: 14°, Columbus, OH: 14°, Charleston, WV: 15°, Indianapolis, IN: 15°, Lexington, KY: 16°, Paducah, KY: 16°, Cleveland, OH: 16°, Toledo, OH: 16°, Evansville, IN: 16°, Oak Ridge, TN: 17°, Peoria, IL: 17°, Detroit, MI: 17°, Bristol, TN: 18°, Nashville, TN: 18°, Louisville, KY: 18°, Avoca, PA: 19°, Sterling (Dulles Airport), VA: 19°, Huntsville, AL: 19°, Roanoke, VA: 20°, Asheville, NC: 20°, Erie, PA: 21°, Lynchburg, VA: 21°, Birmingham, AL: 21°, Knoxville, TN: 21°
Springfield, IL: 21°, Reading, PA: 22°, Chattanooga, TN: 22°-Tied, Jackson, MS: 23° Meridian, MS: 24°, Atlantic City, NJ: 24°, Macon, GA: 24°, Montgomery, AL: 24°, Shreveport, LA: 24°, Memphis, TN: 24°, Richmond, VA: 25°, Harrisburg, PA: 25°
-Tied, Atlanta, GA: 26°, Baton Rouge, LA: 26°, Mobile, AL: 27°, Augusta, GA: 27°-Tied, Charlotte, NC: 28°, Islip, NY: 29°, Lake Charles, LA: 29°, New Orleans, LA: 29°, Wallops Island, VA: 30°, Pensacola, FL: 30°, Norfolk, VA: 30°-Tied and Tallahassee, FL: 30°-Tied.

1998

Rejuvenated Tropical Storm Mitch, a mere shadow of its former killer self, made landfall near Naples FL with top winds of 65 mph.
5 tornadoes were spawned in South Florida: 2 in the Florida Keys, 1 each in Broward, Palm Beach, and Collier Counties.
Overall the twisters injured 65 people and damaged or destroyed 645 homes.

2001

Hurricane Michelle battered Cuba and the Bahamas while Hurricane Noel moved toward Newfoundland in the north Atlantic.
Michelle killed 5 people, devastated crops and left the western half of the island without electricity.
100,000 - 500,000 were evacuated and in Havana, 180 buildings collapsed and 1,200 trees are blown down.
With winds up to 135 mph it was the strongest hurricane there in 50 years and went on to cause some damage in Nassau, the Bahamas.
This was the first time that two hurricanes formed in November in the Atlantic/Caribbean Ocean basin since 1994.

The Coast Guard station at Loran Station at Attu, AK, in the Aleutian Islands.
Winds blew from 69 to 104 mph for 18 hours, which was caused by an intense low pressure of 960 millibars off the coast.

2002

Springtime is the main season for tornadoes in Alabama, but there is a secondary tornado season in the fall that many people do not think about.
For the 3rd straight year, the secondary tornado season of November and December in Alabama proved to be the most deadly.

2005

Late season severe weather caused extensive wind damage across central and southeast Illinois, late on the 5th to just after midnight on the 6th.
Peak wind gusts from the storms included 89 mph at the Lawrenceville Airport, and 86 mph at Chrisman, where significant tree and structural damage occurred.
Significant damage also occurred west of Bloomington, near Stanford.

A severe thunderstorm drenched Porto Alegre, Brazil with up to 4 inches of rain in less than an hour, the heaviest rain in decades.

November 6th:

One of the foggiest places in the Lower 48 states is the appropriately named Cape Disappointment, WA where they have around 2,552 hours per year of foggy weather.
That means that roughly 1/4 of the year it is foggy there.

1880

A Great Lakes gale wrecked or disabled a score of ships on Lake Ontario, including the "Belle Sheridan", a collier just 10 miles from Toronto. Only one of seven crew members survived.

1921

Winds gusted to 101 mph at Hook of Holland in the Netherlands, the strongest non-tornadic gust ever recorded in the Netherlands.

1951

Snow fell from the Texas panhandle to the Lower Great Lakes, leaving record totals of 14.1 inches at Springfield, MO and 12.5 inches at St. Louis, MO.

Other heavier snowfall totals included 20 inches at Nevada, MO, 13.5 inches at Sedan, KS, 13 inches at Decatur, IL, and 10 inches at Alva, OK.

In the Saint Louis area, up to 20 inches was reported in Washington County. The snow at St. Louis, MO was the greatest ever for so early in the season.

In Chicago, IL up to 8 inches fell causing traffic problems. Transit bus schedules of ordinarily under one hour took up to four hours to complete.

Strong easterly winds drove high waves along the Lake Michigan shoreline causing extensive damage and flooding.

1953

A tropical depression moved east from the central Gulf of Mexico and across Florida accompanied by heavy rain and 30 to 40 mph winds.

As it reached the Atlantic Coast and passed over the Gulf Stream it rapidly intensified.

At the same time, an unusual cold outbreak was developing in the Midwest and Northeast.

As the storm intensified it turned sharply to the north and moisture from the storm was thrown back into the cold air mass, creating a band of snow that develop from North Carolina to New York.

Snow began in Washington in the early-morning hours of the 6th.

A tight pressure gradient set up between the strong ocean storm and the cold high-pressure system to the north causing winds in Washington, D.C. to reach 30 mph.

Monmouth County, NJ reported a wind gust to 78 mph.

Old Kings Highway in Alexandria, VA was blocked by a large drifts and the total snowfall at National Airport was recorded at 6.7 inches.

This is one of Washington's biggest early season snow falls, not far behind the Veteran's Day snowstorm of November 11, 1987, which piled up 11 inches in Washington.

27 inches of snow fell in the Pennsylvania Mountains and winds gusted to 98 mph at Block Island, RI.

Other snowfall totals included 11 inches at Harrisburg, PA, 8.8 inches at Philadelphia, PA (their earliest snowstorm of 4 or more inches), 9 inches at Takoma Park, MD and 3 inches at Richmond, VA.

1959

On Hawkins Hill, located on North Island of New Zealand, the wind speed reached 155 mph, the windiest event ever recorded on the North Island.

1961

Strong Santa Ana winds in Southern California fanned fires that burned many homes in the Brentwood and Bel Air areas.

1969

On this date through the 13th, a severe ice storm between Quebec City and the Manicouagan River power dam in Quebec Canada caused over \$1.5 million dollars damage to transmission lines and towers.

Over 30 transmission towers under construction were brought down.

1977

5 to 9 inches of rain caused an earthen dam above the town of Toccoa, GA to burst during the pre-dawn hours of a Sunday morning, flooding the town and killing 37 people.

The Toccoa Falls Bible College was flooded and several people were killed.

There were many bridge and road washouts in North Georgia during the event, including 18 in Madison County alone.

1986

On this date through the 7th, a storm brought heavy snow across parts of the northern Rockies. Snowfall totals included:

Mystic Lake, MT: 35 inches, Red Lodge, MT: 27 inches, Nye, MT: 16 inches, Burgess Junction, MT: 15 inches,

Sheridan, WY: 13 inches, Pryor, MT: 9 inches, Broadus, MT: 7 inches and Billings, MT: 5 inches.

1987

High winds in the northeastern U.S. gusted to 63 mph at Rhode Island turning a recent warm spell into a distant memory.

Squalls resulting from the high winds produced 7 inches at Rome, NY and 5 inches of snow at

Marquette, MI.

A storm in the southwestern U.S. brought heavy snow to some of the higher elevations of Arizona, Colorado and Utah.

1988

A powerful low pressure system over the Great Lakes Region continued to produce snow across parts of the Ohio Valley and the Great Lakes Region.

Snowfall totals along the shore of Lake Superior reached 24 inches, with 3 feet reported in the Porcupine Mountain area of Upper Michigan.

Marquette, MI established a November record with 17.3 inches of snow in 24 hours.

El Paso, TX enjoyed a record high of 83°.

1989

Unseasonably warm weather prevailed in the south central and southeastern U.S.

Several cities from Florida to Oklahoma and Texas reported record high temperatures for the date as readings warmed into the 80s to near 90°.

The high of 89° at the Dallas/Fort Worth Airport in Texas equaled their record for November.

Other locations reporting record high temperatures for the date included: Austin (Bergstrom), TX: 89°, Waco, TX: 89°, Dallas, TX: 87°, San Angelo, TX: 87°, Shreveport, LA: 86° and New Orleans, LA: 84°-Tied.

1994

San Francisco, CA set a 24-hour rainfall record with 6.19 inches.

1996

Heavy showers and thunderstorms moved across central and southern Oklahoma on this date in 1996, and continued through the early morning of the 7th.

Flash flooding occurred across many counties. Durant received up to 5 inches, as city streets became impassable with as much as two feet of water covering the roads.

San Antonio, TX set a record high of 91°.

2005

An F3 tornado cut a 41 mile track through Henderson County in Kentucky, Vanderburgh, Warrick, and Spencer Counties in Indiana during the predawn hours, killing 24, injuring 238, and doing \$87 million dollars in damages.

A large mobile home park was hit near the southern city limits of Evansville where 20 were killed. This was the worst Indiana tornado since the super-outbreak of 1974.

Further to the south in the warm air, record high temperatures were at Meridian, MS: 86°, Baton Rouge, LA: 86°-Tied, New Orleans, LA: 85°-Tied and Galveston, TX: 83°.

November 7th:

1837

One of the most intense hurricanes ever to strike Hawaii brought winds of 115 mph to Hilo. 730 people were missing or killed.

1940

The Galloping Gertie Bridge at Tacoma, WA collapsed in strong winds resulting in a \$6 million dollar loss, just 4 months after the grand opening of the new bridge.

The winds caused the evenly sized spans of the bridge to begin to vibrate until the central one collapsed. From that point on bridges were constructed with spans of varying size.

1943

An early season snowstorm dropped up 2 feet of snow over Minnesota and South Dakota.

In eastern South Dakota a million thanksgiving turkeys were smothered by the heavy snowfall. Grand Meadow, MN reported 6 inches.

1951

At 7am local time, a blinding flash, a huge ball of fire, and a terrific roar occurred over parts of Texas, Oklahoma and Kansas, caused by a disintegrating meteor.

Windows were broken in and near Hinton, OK.

1975

A ridge of high pressure along the east coast was responsible for record highs from the southern Plains to the East Coast.

Daily record highs included: Del Rio, TX: 90°, Austin (Bergstrom), TX: 88°, Brownsville, TX: 88°-Tied, Dallas, TX: 87°, Shreveport, LA: 84°, Pensacola, FL: 83°.

Fort Smith, AR: 82°, Wilmington, NC: 80°-Tied, Richmond, VA: 79°, Cape Hatteras, NC: 78°, Norfolk, VA: 78°-Tied, Baltimore, MD: 77°-Tied, Avoca, PA: 76°, Reading, PA: 75°, Wilmington, DE: 75°-Tied, Hartford, CT: 74°, Binghamton, NY: 72°, Buffalo, NY: 72°-Tied, Mt. Pocono, PA: 71°, New York (LaGuardia Airport), NY: 68°, Bridgeport, CT: 68° and New York (Kennedy Airport), NY: 66°.

1986

An early season blizzard struck the Northern Plains Region into Southern Manitoba Canada. North Dakota took the brunt of the storm with wind gusts to 70 mph, and snowfall totals ranged up to 25 inches at Devils Lake. Further to the north, Winnipeg, Manitoba reported a foot of snow with winds gusting to 56 mph creating whiteout conditions.

A Bermuda heat ridge brought record highs temperatures to the south. Orlando, FL tied their record high for November with 89°. Other daily record high temperatures for the date included: Tampa, FL: 88°, Jacksonville, FL: 87°-Tied, New Orleans, LA: 86°, Augusta, GA: 86°, Savannah, GA: 86°, Columbus, GA: 85°, Macon, GA: 85°, Charleston, SD: 84°, Columbia, SC: 84° and Meridian, MS: 83°.

1987

Heavy snow fell across parts of eastern New York State during the overnight hours, with 12 inches reported at the town of Piseco, located in the Mohawk Valley.

Visibilities over a large part of the Eastern United States were reduced as a result of a temperature inversion combined with smoke from forest fires in Kentucky and West Virginia. Visibilities in some areas were reduced to less than one mile.

A storm in the southwestern U.S. left 9 inches of snow at the Winter Park ski resort in Colorado.

1988

Unseasonably warm weather continued from Texas to California. Several cities reported record high temperatures for the date. McAllen, TX was the hot spot in the nation with a high of 96°.

Borrego Springs, CA hit 98°, their hottest reading for November and Waco, TX tied their November record high with 92°.

Other daily record highs included: Del Rio, TX: 92°, San Angelo, TX: 91°, Corpus Christi, TX: 91°, Austin, TX: 89°, Dallas, TX: 88°, Dallas (DFW), TX: 88°-Tied, San Antonio, TX: 88°-Tied and Palomar Mountain, CA: 78°.

1989

Shortly after daybreak, strong thunderstorms developed over a narrow, but almost stationary, east-west band across New Orleans, in southeastern Louisiana. As a result, heavy rains persisted over the same area until mid afternoon before tapering off, which triggered flash flooding across a 5 county area. 8 to 12 inch rains deluged the area between 9 AM and 6 PM, and totals for the 48 hour period ending at 7 AM on the 8th ranged up to 19.78 inches, between Lake Lexy and Lake Borgne. Approximately 6,000 homes in the area reported water damage. The rainfall total for November of 19.81 inches at New Orleans was their highest total for any given month of the year.

Strong winds buffeted many areas of the Foothills west of Denver, CO. Winds gusted between 60 and 70 mph at Boulder and Longmont.

Tumbleweeds piled up in drifts 14 feet high near Mobridge, SD behind a cold front.

Little Rock, AR set a record high for the date with 85°.

1991

A ridge of high pressure out west brought record high temperatures to parts of the southwest. Palm Springs, CA hit 100°, their latest triple digit reading on record.

Other record highs included: Redding, CA: 83°, Las Vegas, NV: 83°-Tied and Reno, NV: 76°.

Out ahead of a strong cold front, Fort Smith, AR set a record high with 83°.

1996

Heavy rains across Hawaii were the result of rare southerly winds that blocked the usual northeasterly trade winds and allowed humid air to move across the state from the south.

1999

A very strong unseasonable heat ridge brought unusual November heat across the nation's mid-

section as temperatures ran 25 to 30 degrees above normal over a large area from Nebraska to Montana, North Dakota and Minnesota.

Several locations tied or broke their all-time record highs for November including: Winner, SD: 85°, Bismarck, ND: 79°, Minot, ND: 78° and Williston, ND: 76°.

Locations tying record highs for November included: Valentine, NE: 86°-Tied, Rapid City, SD: 83°-Tied and Billings, MT: 77°-Tied.

Locations reporting daily record highs included: Tucson, AZ: 89°-Tied, North Platte, NE: 81°, Paducah, KY: 81°, Tupelo, MS: 81°, Memphis, TN: 81°-Tied, Chattanooga, TN: 79°, Scottsbluff, NE: 79°-Tied, Denver, CO: 78°, Boise, ID: 76°, Great Falls, MT: 76°, Sheridan, WY: 74°, Glasgow, MT: 73°, Cheyenne, WY: 73°, Grand Forks, ND: 73°, Casper, WY: 72°, Huron, SD: 72°, Fargo, ND: 70° and Burns, OR: 66°.

2001

Typhoon Lingling struck the southern Philippines killing 171 people with 118 missing in Camiguin. The typhoon struck Vietnam 5 days later killing an additional 18 people.

2004

The Aurora Borealis, also known as the northern lights, were seen over the skies of Oklahoma. The light show was even seen across parts of California, New Mexico, and as far east as Alabama.

November 8th:

1870

Professor Increase A. Lapham believed that warnings of deadly storms on the Great Lakes could be derived from telegraphed weather observations.

A bill was introduced and signed into law to establish a national telegraphic weather service. The Signal Corps began taking observations of November 1, 1870.

On this date, Lapham would issue the first storm warning, a cautionary forecast for the Great Lakes.

1876

Two days of rain dumped 4.9 inches on Fredericton, New Brunswick Canada.

The rail line near Lawrence Station was washed out causing the derailment of the morning St. John-Fredericton run.

1914

It finally rained on this date in Bagdad, CA breaking an incredible rain-free streak of 767 days, the U.S. record.

1943

An early season snowstorm raged across eastern South Dakota and Minnesota into northern Wisconsin.

The storm produced 22 inches at Fairbault and Marshall, MN, 20 inches at Redwood Falls, MN, and 10.1 inches at Minneapolis, MN. Drifts 15 feet high were reported in Cottonwood County, Minnesota.

The storm produced up to 2 feet of snow in South Dakota smothering a million Thanksgiving day turkeys.

1953

Residents of New York City suffered through 10 days of smog resulting in 200 deaths.

1985

Indian summer came to an abrupt end when a winter storm dumped 10 to 18 inches of snow along the Front Range Foothills in Colorado and 6 to 10 inches across Denver causing flight delays up to 3 hours and snarling traffic.

7.3 inches fell at the airport. The temperature at Denver plunged from a high of 66 on this date to a low of 13 the next morning after the passage of a strong cold front.

On the 10th, the high temperature at Denver only climbed to 19, setting a record low maximum. Snow also fell across the upper Midwest with 4 to 8 inches common across parts of Minnesota, Iowa and Wisconsin.

Hokah, MN, Ontario, WI and Waukon, IA reported 6 inches of snow.

1986

A new Utah state record for the strongest wind gust was established at 6:16 am MST, when a wind gust of 124 mph was recorded on 11,000 foot high Hidden Peak in the Snowbird area.

North Dakota was blasted by a blizzard which was, for many parts of the state, the worst November blizzard on record.

One to two feet of snow fell with the highest amount reported at Devil's Lake with 25 inches. Winds gusted as high as 70 mph at many locations.

1987

Thunderstorms over Texas produced locally heavy rains in the Hill Country, with 3.50 inches reported at Lakeway, and 3.72 inches reported at Anderson Mill.

Thunderstorms over Louisiana produced hail an inch in diameter at Clay and at Provencial. Blustery northwest winds, ushering cold air into western Kansas and into northwest Texas, gusted to 46 mph at Hill City, KS.

1988

Fair weather prevailed across much of the nation for Election Day. Midland, TX equaled their record for November with an afternoon high of 89°, and the record high of 87° at Roswell, NM was their fifth in 8 days.

1989

Afternoon and evening thunderstorms developing along and ahead of a cold front produced severe weather from northern Louisiana into central Georgia. Thunderstorms spawned three tornadoes, and there were 64 reports of large hail or damaging winds. A late afternoon thunderstorm in central Georgia spawned a tornado which killed one person and injured 8 others at Pineview.

Late afternoon thunderstorms in central Mississippi produced baseball size hail around Jackson, and wind gusts to 70 mph at Walnut Grove.

1991

The first week in November in Iowa was extremely cold. The average temperature over the state for the week was 18.3°, which is 24.7 degrees below normal. This was easily the coldest first week of November in 100 years of record.

1992

A thunderstorm occurred at St. Paul Island off the coast of Alaska in the Bering Sea. The thunderstorm is extremely rare at this location. The last thunderstorm observed at this location was over 40 years ago on 11/21/1951.

1999

Numerous record high temperatures fell across the Midwest as Indian Summer weather was felt across the region.

Many locations set new high temperature records for the month of November, not just for the date, including Pierre, SD: 87°, Valentine, NE: 86°, Elkader, IA: 79°, Decorah, IA: 78°, Oelwein, IA: 78°, Austin, MN: 77°, Lynxville, WI: 75° and Jump River, WI: 71°. Other records included 86° in Huron, SD and 82° in Omaha, NE. Kennebec, SD reached 89° breaking the all time record for the states warmest November

high temperature ever but was also the high temperature in the country.

The low temperature at Billings, MT was 51°, and the high was 73°; this was their 3rd straight day with a high above 70°, a November record

2001

A warm front moved through into central Wisconsin. To the south of this warm front, strong southwest winds brought unseasonably warm air into the region. Temperatures across northeast Iowa, southeast Minnesota, and southwest Wisconsin climbed into the 70s. Meanwhile, temperatures in central Wisconsin remained in the upper 40s. Oelwein, IA hit 79°, their warmest November temperature on record.

A powerful storm with strong winds and major storm surge in the North Sea forced Britain and the Netherlands to activate flood defenses.

Netherlands authorities closed the new Maeslant Barrier, which protects the mouth of Europe's largest port, for the first time under storm conditions since its construction in 1997. The Thames River barrier, downstream from London, was also closed.

2006

Denver, CO climbed to 80°. their highest November temperature since records began in 1872 and the highest temperature for so late in the season.

Chadron, NE also hit 80°, their latest 80 degree reading for so late in the season.

November 9th:

1864

A tornado in southeastern Missouri crossed the Mississippi River into southwestern Illinois, affecting the areas around Chester and Richview. A ferry boat on the river was hit with much of the debris being blown over a quarter mile. Four

people in Chester were killed when the late-night tornado destroyed 14 houses. Half of the town of Chester was destroyed and as many as 20 people were killed overall.

1913

On this date through the 11th, a massive storm that became known as the "Freshwater Fury" or the "White Hurricane" sank numerous ships on the Great Lakes and caused millions of dollars in damage across Michigan.

This storm was one of the deadliest and most destructive natural disasters to hit the Great Lakes, killing more than 250 people while wrecking 19 ships and stranding 19 others. The financial loss in vessels alone was nearly \$5 million 1913 dollars. Lost cargo, such as coal, iron ore, and grain was estimated at over 68,000 tons. Cleveland, OH reported 17.4 inches of snow in 24 hours, and a total of 22.2 inches, both all-time records. During the storm, winds at Cleveland averaged 50 mph, with gusts to 79 mph. The storm produced wind gusts to 80 mph at Buffalo, NY, and buried Pickens, WV under three feet of snow.

1921

The greatest 24 hour rainfall in Israel history fell at Haifa as 10.73 inches was recorded.

1926

A tornado doing F4 damage in Charles County in southern Maryland killed 17 people. The twister with winds estimated at 250 mph touched down about 5 miles southwest of La Plata at about 2:30 PM. It moved northeast through La Plata and continued on the ground traveling 18 miles in 20 to 25 minutes to Cedarville in Prince Georges County. Its damage path was about 500 feet in width. The tornado's roar was heard up to three miles away. From this description in Monthly Weather Review for November 1926, the "vortex swayed from side to side as it progressed", it was likely a multi-vortex tornado. At some places, the tornado actual cut or "furrowed into the soil". In La Plata, four homes, several large barns and the schoolhouse were completely destroyed. The schoolhouse, with its 60 children and two teachers was lifted from its foundation and smashed against a grove of trees 50 feet away. Debris from the school, children's belongings, and school furnishings were scattered in all directions. Some of the children were carried 500 feet and the body of one child was found in the top branches of a tree 300 feet away. Parts of desks were found seven miles away. Some of the wreckage of the schoolhouse was found deposited in a field a mile north of Upper Marlboro, 25 miles away. A page from a school ledger was found in Bowie, 36 miles to the north-northeast. Just over six miles from Annapolis, almost 50 miles from La Plata, an 8-foot by 2-foot piece of galvanized roofing from the school was found. Of the school, 14 children were killed. The two teachers and all the other children but one were injured. Additional four homes were badly damaged and 14 tobacco barns and their contents of 4,000 to 7,000 pounds of tobacco were a total loss. At Cedarville, one home, one store, and four barns were destroyed. Several other homes were badly damaged. Six families were left homeless. The clerk of the general store was sucked out the front door, across the road, and slammed against a telephone pole where the wind tore his trousers off of him. On a farm, a barn in which a horse and cow were feeding was picked up and carried away, leaving the animals in their places uninjured. Chicken were de-feathered. In the destruction of homes, three people were killed and 9 people were injured. Structures, trees, and telephone poles in the path of the tornado were all leveled. A number of automobiles were demolished. Damages were estimated at \$100,000 (1926 dollars). A total of 17 people were known to have died with 60 reported injured. The weather pattern an intense low-pressure area was moving rapidly northeast from central Indiana to extreme southern Ontario. A trough extended south from the low center over the region. About the same time as the tornado struck La Plata, a thunderstorm dropped 0.65 inches of rain at Washington, D.C. in just 9 minutes.

1977

A major blizzard struck the eastern two-thirds of South Dakota, western Minnesota, and northwest Iowa through the 10th. A strong area of low pressure moved from northeast Colorado across north central Iowa bringing a variety of problems to the region. On the 8th, the storm began as rain with temperatures in the 50's in most areas. The tri-state area was then coated with freezing rain and sleet before the precipitation changed to snow.

Up to 6 inches of snow fell in northwest Iowa with wind gusts up to 65 mph making travel impossible. Amounts were generally 4 to 12 inches across eastern South Dakota with gusts to 70 mph. Portions of western Minnesota were the hardest hit with snow amounts up to 14 inches and winds howling up to 80 mph.

Drifts piled up to 8 feet deep across portions of Minnesota. Hundreds of cars were stranded across the area as the snow piled up.
Two of the stranded vehicles were trucks transporting turkeys.
As the temperatures plunged about half of the turkeys were prematurely frozen. The winds also blew down trees, power lines, and several radio towers.

1982

Seven tornadoes touched down in southern California, three of which began as waterspouts off of Point Mugu, Malibu and Long Beach.
The Long Beach tornado traveled inland 10 miles causing extensive damage. The other two tornadoes were in Garden Grove and Mission Viejo.

1987

Showers and gusty winds associated with a cold front helped extinguish forest fires in the Appalachian Region and clear out smoke in the eastern U.S.

Thunderstorms produced locally heavy rains from eastern Texas to the Tennessee Valley. Longview, TX received 3.12 inches of rain, including two inches in two hours.
Tupelo, MS was soaked with 2.80 inches of rain.

1988

Thunderstorms developing ahead of a strong cold front produced severe weather from eastern Oklahoma to central Indiana.
Hail more than two inches in diameter was reported around Tulsa, OK.

1989

High winds prevailed along the eastern slopes of the Rockies from the afternoon of the 8th into the early morning hours of the 9th.
Winds of 50 to 80 mph prevailed across the northwest chinook area of Wyoming, with gusts to 100 mph.
Winds in Colorado gusted to 97 mph at Fritz Peak, located near Rollinsville the previous evening and early in the morning on this date, gusted to 78 mph west of Fort Collins.

1991

Canadian high pressure over the Great Lakes was responsible for record lows from Texas to the Ohio Valley and Gulf Coast including: Peoria, IL: 9°, Springfield, IL: 9°, Moline, IL: 10°, Columbia, MO: 11°, Dubuque, IA: 12°, Mansfield, OH: 12°, Toledo, OH: 12°, Lansing, MI: 12°-Tied, Dayton, OH: 13°, Flint, MI: 14°, Chicago, IL: 14°, Paducah, KY: 14°, Des Moines, IA: 15°, Fort Wayne, IN: 15°, St. Louis, MO: 16°, Grand Rapids, MI: 17, Evansville, IN: 17, Indianapolis, IN: 17, Lexington, KY: 17, Detroit, MI: 18, Akron, OH: 18°, Columbus, OH: 18°, Cincinnati, OH: 19°, Youngstown, OH: 19°-Tied, Little Rock, AR: 20°, Jackson, KY: 20°, Louisville, KY: 20°, Memphis, TN: 20°, Fort Smith, AR: 21°, Springfield, MO: 21°-Tied, Nashville, TN: 22°, Shreveport, LA: 23°, Kansas City, MO: 23°, Austin (Bergstrom), TX: 26°, Baton Rouge, LA: 26°, Lake Charles, LA: 28°, Dallas (DFW), TX: 28°-Tied, Beaumont-Port Arthur, TX: 29°, Houston, TX: 29°, San Angelo, TX: 29°, San Antonio, TX: 29°, Mobile, AL: 30°-Tied, Victoria, TX: 32°, New Orleans, LA: 32°, Corpus Christi TX: 34° and Galveston, TX: 36°.

1995

High gradient winds not associated with thunderstorms downed a power line which touched off a grass fire near Galena, KS.
The fire consumed 300 acres of grass and timber, along with a house and a mobile home.

1996

Up to 20 inches of lake effect snow fell between Grand Haven and New Buffalo, MI.
On this date through the 14th, 40 inches of lake effect snow fell in portions of northern Lower Michigan.

1998

A tremendous storm system moved across the Plains states through the 10th, producing record low barometric pressure readings across parts of Iowa: 28.54 inHg and Minnesota: 28.43 inHg the next day (up to that time).
The storm, one of the strongest on record in the Midwest, was reminiscent of the storm that caused the wreck of the Edmund Fitzgerald in 1975.

A late night F3 tornado struck parts of Columbia, MO shortly after midnight. Miraculously, no one was killed, but 16 people were injured and damage totaled \$6 million dollars.

1999

For the third day in a row, record warmth occurred across the Midwest. Some of the record highs for November included: Kimball, NE: 83°, Osage, IA: 77°, Preston, MN: 76°, Sparta, WI: 76° and Marquette, MI: 73° (broke previous record by 14 degrees).

Other daily record highs included: Grand Island, NE: 79°, Topeka, KS: 79°, Chattanooga, TN: 79°, Norfolk, NE: 78°, North Platte, NE: 78°, Columbia, MO: 78°, Kansas City, MO: 78°, Concordia, KS: 77°, Des Moines, IA: 77°, Moline, IL: 77°, Oak Ridge, TN: 77°, Indianapolis, IN: 76°, Waterloo, IA: 75°, La Crosse, WI: 75°, Milwaukee, WI: 75°, Alpena, MI: 75°, Detroit, MI: 75°, South Bend, IN: 75°, Lincoln, NE: 74°, Dubuque, IA: 74°, Green Bay, WI: 74°, Chicago, IL: 74°, Rockford, IL: 74°, Toledo, OH: 74°, Fort Wayne, IN: 74°-Tied, Sioux Falls, SD: 73°, Omaha, NE: 73°, Madison, WI: 73°, Flint, MI: 73°, Lansing, MI: 73°, Sioux City, IA: 73°-Tied, Mansfield, OH: 72°, Youngstown, OH: 72°-Tied, Duluth, MN: 71°, Rochester, MN: 71°, Minneapolis, MN: 70°, Houghton Lake, MI: 69°-Tied, St. Cloud, MN: 68° and Ste. St. Marie, MI: 67°.

2001

Heavy rains fell at Algiers, Algeria in just a few hours, more than the average month's total of 3.7 inches. Massive floods and mudslides devastated northern Algeria and killed more than 700 people causing nearly \$300 million dollars in damage.

2002

Laden with tropical moisture, an early season winter storm brought gusty winds and snow to the higher elevations of the Sierra Nevada in California and heavy rains to the lower elevations. At Chagoopa Plateau, a storm total of 80 inches of snow was recorded. Up to the 10 inches of rain fell in the foothills, with the town of Johnsondale receiving 16.38 inches of rain in just three days beginning on the 7th through the 10th. Numerous roads were closed due to flooding and mudslides with many residents losing power.

5.68 inches fell at Idyllwild, their greatest daily amount on record for November. Incredibly, no rain at all fell just on the other side of the mountain at Palm Springs.

Rain finally extinguished the Biscuit Fire which had burned nearly 500,000 acres in parts of northern California and southern Oregon. The wildfire began on July 13th and was caused by lightning. The fire cost more than \$154 million dollars in firefighting costs. The 2002 fire season was the second biggest in the U.S. in 50 years, as 6.7 million acres burned. Firefighting costs for the year totaled over \$1.4 billion dollars.

2005

A rare November F1 tornado occurred in Hamilton, Ontario Canada, hitting a local school about 4 PM and lasted 10 minutes. Two students were slightly injured.

November 10th:

1911

A strong cold front dropped the temperature 68 degrees at Denver, CO from a high of 66° at 12:40 pm to 23° at midnight and -2° at 7:15 am the next morning. The low temperature of 23° at midnight was also the high temperature on the 11th. Winds gusted over 50 mph with the frontal passage.

1915

An unusually late season tornado struck Great Bend, KS killing 11 people along its 35 mile track. The tornado destroyed 160 homes and caused a million dollars damage. Hundreds of dead ducks dropped from the sky northeast of the track's end.

1956:

A strong ridge of high pressure brought record warmth from the northern Rockies to the West Coast. Escondido, CA hit 98° tying their highest temperature on record for November with 11/2/1997. Other daily record highs for the date included: Santa Ana, CA: 94°, Riverside, CA: 94°, Los Angeles (LAX), CA: 93°, Downtown Los Angeles, CA: 93°, San Diego, CA: 91°, Long Beach, CA: 91°, Yuma, AZ: 91°, Fresno, CA: 83°, Stockton, CA: 80°-Tied, Idyllwild, CA: 79°, Palomar Mountain, CA: 75°, Winnemucca, NV: 74°, Sheridan, WY: 72°, Ely, NV: 71°, Chinook, MT: 70°, Fort Benton, MT: 70°, Helena, MT: 67°, Havre, MT: 67°-Tied and Kalispell, MT: 58°.

1975

A large ore carrier on Lake Superior, "The Edmund Fitzgerald", sank near Crisp Point with the loss of its crew of 29 men. The ship ran into winds of up to 90 mph and high waves and foundered at about 7:30 pm north of Whitefish Point. Eastern Upper Michigan and coastal Lower Michigan were hardest hit by the storm, which produced wind gusts to 78 mph at Grand Rapids, MI and 71 mph at

Sault Ste Marie, MI toppling trees and power lines. Severe land and road erosion occurred along the Lake Michigan shoreline. The Fitzgerald's last voyage began at Superior, WI when it sailed for Detroit hauling 26,116 tons of iron ore. By the next day, it was being pounded by 90-mph wind gusts and 30-foot waves. "Fitzgerald" Capt. Ernest Mc Sorley radioed a trailing freighter, "The Arthur M. Anderson", his ship had sustained topside damage and was listing. At 7:10 p.m., he told the Anderson: "We are holding our own." Shortly after that, the Fitzgerald disappeared from radar without issuing an SOS. Several days later, a vessel with sonar located it 15 miles from Whitefish Bay. A Coast Guard investigation concluded the Fitzgerald's cargo hold probably flooded when waves swept over the deck and water leaked through improperly fastened hatch covers. A popular hit song by Gordon Lightfoot was inspired by the storm.

1987

A cold front brought snow to the Appalachian Region and freezing temperatures to the central U.S. Up to 9 inches of snow blanketed Garrett County in extreme western Maryland. Freezing temperatures were reported as far south as El Paso and San Angelo, TX. Gale force winds lashed the Mid-Atlantic Coast and the coast of southern New England. Rain and drizzle in the Poconos changed to snow and became heavy during the afternoon. Total amounts ranged from 4 to 7 inches.

Thunderstorms brought fire quenching rains to Alabama, and produced large hail and damaging winds to eastern North Carolina.

Ahead of the cold front, seven cities in Florida and Georgia reported record high temperatures for the date as readings warmed into the 80s.

Record highs included: West Palm Beach, FL: 88°, Miami, FL: 88°-Tied, Vero Beach, FL: 87°, Key West, FL: 87°-Tied, Daytona Beach, FL: 86°, Augusta, GA: 84°and Macon, GA: 81°-Tied.

1988

Strong winds circulating around a deep low pressure system in southeastern Ontario buffeted the northeastern U.S., with the Lower Great Lakes Region hardest hit.

Winds in western New York State gusted to 78 mph at Brockport, NY, 69 mph at Niagara Falls and 68 mph at Buffalo, NY. Four people were injured at Rome, NY when a tree was blown onto their car.

1989

Strong southwesterly winds prevailed along the eastern slopes of the Rockies in Montana and Wyoming.

Winds of 80 to 90 mph prevailed across the northwest Chinook zone of Montana, with gusts to 112 mph. Unseasonably warm weather accompanied the high winds.

Record highs from the Rockies to the West Coast included: Palm Springs, CA: 96°, Santa Maria, CA: 92°, Long Beach, CA: 91°-Tied, Phoenix, AZ: 90°, Bishop, CA: 78°-Tied, Yakima, WA: 73°, Burns, OR: 68°, Billings, MT: 66°, Lewiston, ID: 66°, Portland, OR: 65°, Glasgow, MT: 65°-Tied, Pocatello, ID: 64°, Salem, OR: 64°, Lincoln Ranger Station, MT: 61°and Kalispell, MT: 59°.

Windy and wet weather prevailed across Washington State. Strong southerly winds gusted to 70 mph at Rattlesnake Ridge, near Hanford.

Six rivers in western Washington State rose above flood stage between the 9th and the 11th of the month, following 8 days of moderate to heavy rain.

Rainfall over the western slopes of the Cascade Mountains between the 3rd and the 10th ranged from 14 to 24 inches.

High freezing levels also caused the early snowpack to melt, adding to the runoff in the rain-swollen rivers.

Damage was heaviest in Whatcom County, where the Nooksack River caused nearly \$6 million dollars damage, mostly to roads and bridges.

1990

A strong F2 tornado touched down on Hatteras Island in North Carolina. Winds gusted to 78 mph at the nearby airport.

1995

A strong cold front moved across the southern Plains during the late afternoon and early evening bringing a dramatic drop in temperatures.

The afternoon high at Oklahoma City, OK was a warm 83°, but by late evening, over an inch of snow covered on the ground.

The night's football games were played in heavy snow that reduced visibilities to less than the length of a football field.

In north Texas, temperatures rose into the 80s during the afternoon and then dropped into the 30s by mid evening.

Strong winds associated with the cold front caused structural damage at Crowell and Henrietta, TX.

Ahead of the front, a severe thunderstorm with one to two inch hail heavily damaged homes in and around Lockwood, MO.

Also, a tornado skipped across the Lebanon area, destroying several buildings including the Tracker Marine plant, and heavily damaged another 30 homes.

1997:

A waterspout came ashore at Newport Pier, CA becoming a tornado. It quickly dissipated over western Costa Mesa.

Winds were estimated at 60 to 70 mph. There were minor power outages and little damage. A fisherman was blown from one end of the Newport Pier to another.

1998

A November superstorm lashed the Great Lakes with wind gusts in excess of hurricane force. Winds gusted to 95 mph on Mackinac Island, MI. Waves on Lake Michigan ran as high as 20 feet.

A state record low pressure was measured at Austin and Albert Lea, MN at 28.43 inHg.

The high winds literally blew much of the water out of Saginaw Bay, with the water level dropping several feet and large sections of the Bay becoming dry land for a time.

A waterspout on Lake Michigan briefly moved inland near Muskegon, but rapidly dissipated and caused no damage.

The storm brought sustained winds of 45 mph with gusts to 65 mph across northern Illinois. A squall line moved through during the early morning hours also bringing winds gusts to 65 mph. Structural damage was reported. Very strong winds also moved across southeast Minnesota, northeast Iowa, and western Wisconsin.

Wind gusts greater than 90 mph were recorded, with property damage estimated at \$1.7 million dollars.

1999

Record autumn warmth moved eastward to the mid-Atlantic and Northeast courtesy of a southwesterly flow around high pressure over the Carolinas.

Record highs for the date included: Atlantic City, NJ: 76°, Washington, D.C.: 76°-Tied,

Baltimore, MD: 75°, New York (LaGuardia Airport), NY: 75°,

Wilmington, DE: 74°, Philadelphia, PA: 73°, Providence, RI: 73°, Wallops Island, VA: 73°-Tied,

Newark, NJ: 73°-Tied, Islip, NY: 72° and New York

(Kennedy Airport), NY: 72°.

2002

A late-season, major outbreak of tornadoes caused damage in 13 states across the Ohio and Tennessee Valley. A total of 105 tornadoes struck from the 9th through the 11th, resulting in at least 36 deaths.

Four tornadoes spun from Blackford to Henry County, Ohio, including an F4 twister that devastated the west side of Van Wert. Four people were killed, and 26 were injured.

The superstition in the small Ohio town of Fostoria was that tornadoes didn't strike there because the town sits on an Indian burial ground.

A tornado dispelled that myth when it caused heavy damage in the town and derailed a CSX freight train in the center of town.

Thunderstorm winds blew numerous trees down one mile north of Decatur. 81mph downburst winds derailed a train two miles southeast of Hamler.

Thunderstorm winds tore down trees and power lines in Cairo and Lima.

Residents of the small East Tennessee towns of Mossy Grove believed the legends that the mountains that towered over their secluded homes held magical powers.

Powers that would protect them from bad things, like storms. But as an F3 tornado roared down Lone Mountain and into their little valley,

their sense of security was shattered along with their homes killing 7 people.

2006

An area of low pressure moved from the Southern Plains to across northern Indiana by evening.

Precipitation developed to the north and west of this low center,

moving into southeast Minnesota and northern Iowa overnight and then into western Wisconsin early in the next morning.

Mild air was in place across the Upper Mississippi River Valley as the low moved in, resulting in a wide variety of precipitation types for the region.

Showers and even a few thunderstorms affected parts of northeast Iowa, southern Wisconsin, and northern Illinois for much of day.

Sleet was mixed in at times with these showers. To the north and northwest of there, enough

colder air had been entrained into the storm system to create snow.
A band of heavy snow set up from northern Iowa into north central Wisconsin.
The movement of the surface low was such that this band sat nearly stationary over these areas for much of Friday morning.
With accumulations of 1 to 2 inches per hour common, snow quickly accumulated.
A 10 to 14 inch swath of snow was centered along an axis from near Austin, MN to around Withee, WI.
