

SEPTEMBER 1ST - 10TH WEATHER HISTORY

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September 1st:

1869

Professor Cleveland Abbe of the Cincinnati Astronomical Society realized the value of plotting telegraph weather reports to forewarn about killer storm on the Great Lakes. Abbe assembled a partnership with the Associated Press, Western Union and the remaining Smithsonian observers. His bulletins would be the first public weather forecasts.

1894

A forest fire driven by high winds burned down the town of Hinkley, MN killing 418 people.

1914

A trace of snow fell at Long Falls Dam, ME and a half inch was reported atop Mt. Washington, NH.

9.78 inches of rain fell at Bloomington, MI, establishing the state's 24 hour rainfall record.

1923

A typhoon which swept over Tokyo, Japan was followed by an earthquake that evening. The high winds fanned fires set by quake. 143,000 people died in the multi-disaster.

1935

The 1935 Labor Day Hurricane began intensifying from a tropical storm early in the day to a Category 2 by the end of this day. Over the next 24 hours the cyclone would go through "bombogenesis" intensifying to a Category 5 storm with maximum sustained winds estimated at 160 mph with gusts exceeding 200 mph. This was the first Category 5 storm to hit the U.S.

1939

Lightning struck a hillside in Box Elder County, Utah killing 835 sheep out of a herd of 850. The shepherd was knocked unconscious also.

1950

A tornado moved across northwestern Alberta Canada from Rycroft to Eaglesham damaging crops, farm buildings and machinery.

Palm Springs, CA set their all-time September high temperature record with 121°. Other daily record highs included: Yuma, AZ: 123°, Phoenix, AZ: 116°, Las Vegas, NV: 113°, Sacramento, CA: 108°, Tucson, AZ: 107°, Stockton, CA: 105°, Bishop, CA: 104°, Winnemucca, NV: 101°, Winslow, AZ: 99°, Reno, NV: 99°, Elko, NV: 97° and Ely, NV: 93°.

1953

A heat wave that began in late August continued into early September continued across parts of the Midwest. Platteville, WI & South Bend, IN recorded their hottest September temperatures with 100° and 99° respectively. Fort Wayne, IN & Muskegon, MI tied their all-time September high temperature record with 100° & 95°. Other daily record highs included: Goshen, IN: 101°, Grand Rapids, MI: 97°, Lansing, MI: 96°.

1955

A heat wave caused temperatures to soar to record levels across parts of southern California. The temperature in Downtown Los Angeles, CA soared to an all-time high of 110° during an 8 day string of 100 degree weather. Los Angeles (LAX Airport), CA set a daily record high with 108°. Other daily record highs included: Santa Ana, CA: 108°, Escondido, CA: 107°, San Diego, CA: 104°, Santa Maria, CA: 102°, Idyllwild, CA: 96° and San Francisco, CA: 94°.

1974

Lt. Judy Neuffer became the first female to fly a Hurricane Hunter aircraft through the eye of a hurricane.

1979

An explosion aboard an oil tanker in the Houston Ship Channel was caused by lightning from a thunderstorm associated with Tropical Storm Elena. 3 people were killed. People downwind from the explosion reported black, oily raindrops.

A home in Centerville, TN was hit by lightning and totally destroyed. It marked the third time the house had been struck since being built in 1970.

1980

A strong cold front barreled through the Northern Plains causing severe weather damage in several states. In northeast Nebraska, high winds and large hail downed trees and power lines and damaged crops in Knox, Antelope, Pierce and Madison Counties. Especially hard hit were the Creighton and Norfolk areas where 65 mph winds were clocked.

1983

Record heat gripped parts of the northern Rockies. Several locations recorded record highs for September including: Miles City, MT: 106°, Billings, MT: 103° and Sheridan, WY: 103°. At Billings, it was the 8th consecutive day with high temperatures above 90°.

1984

The new month started out hot across parts of the Missouri Valley, with temperatures near the century mark. St. Louis, MO & Springfield, IL set their high temperature record for September with 104° & 101° respectively.

1985

Erratic Hurricane Elena baffled forecasters and Gulf Coast residents on the Sunday before Labor Day. The Hurricane had threatened the central Gulf Coast on Friday, only to turn east and spend Saturday menacing the Tampa Bay area with high winds, tides and heavy rains. By lunchtime Sunday, Elena was on the move again, but this time back to the west. The storm reached its minimum pressure of 951 millibars or 28.08 inHg while the storm was 75 miles south of Apalachicola, FL. Elena's maximum reported coastal winds were over Dauphin Island, AL, where sustained winds of 105 mph with gusts to 135 mph were reported. Other maximum gusts reported ranged from 120 mph at Gulfport, MS, to 92 mph at Pensacola, FL. Maximum tides of 10 feet above normal were recorded at Apalachicola, FL, with reports of 6 to 8 feet above normal on Dauphin Island, AL. Approximately 1 million people were evacuated from low lying coastal areas during Elena's approach. This large evacuation contributed to the fact that there were no deaths in the area of landfall. The four deaths which occurred resulted from falling trees and automobile accidents. One resident died of a heart attack. Total damage ranged from \$1 to \$1.5 billion dollars.

1987

Cool Canadian air invaded the Midwest. Several cities reported record low temperatures for the date, including Indianapolis, IN with 44°.

Remnants of Tropical Storm Lidia brought thunderstorms to the San Diego valleys with lightning and strong damaging winds, possibly a tornado. Lightning struck a power pole in El Cajon, which ruptured gas lines. Another bolt started a house fire there. Lightning caused several small fires in the area. What was reported as a dust devil was probably a microburst or a tornado that damaged awnings and other items to mobile homes near Lake Jennings. In El Cajon a tree with an 8-inch trunk was snapped in half. 35 mph winds were reported at Pt. Loma.

Hot weather continued in the western U.S. Record highs included: Wild Animal Park, CA: 109°, Hanover, WA: 106°, El Cajon, CA: 106°, Escondido, CA: 105°, Santee, CA: 105°, San Diego State University, CA: 99°, National City, CA: 89° and San Diego, CA: 83°.

1988

Thunderstorms produced heavy rain in the Upper Mississippi Valley. Ely, MN was drenched with 3 inches of rain in 2 hours, and pelted with 1 inch diameter hail. The heavy rain flooded streets and basements, and the high water pressure blew the covers off manholes.

1989

Thunderstorms developing ahead of a cold front produced severe weather in Oklahoma during the late afternoon and evening hours. Thunderstorms produced hail 2 inches in diameter west of Arapahoe, and wind gusts to 70 mph at Luther and south of Harrah. Early morning thunderstorms over Indiana drenched Kokomo with 5 to 8 inches of rain, and spawned a tornado which injured 3 people at Bruce Lake.

1990

Severe thunderstorms tore across portions of northwest South Dakota. The thunderstorms produced huge hail and damaging winds. Hail as big as grapefruit fell at Sorum doing tremendous damage to houses and farm buildings. The next day, thunderstorm winds approaching 90 mph ripped the roofs of outbuildings and in some cases carried the debris for over 2 miles.

1999

Erratic Dennis was downgraded to a Tropical Storm as he drifted aimlessly just off Cape Hatteras, NC. Dennis would move southward, then northwestward before making landfall on the 4th with winds of 70 mph. Dennis' heavy rains would set the stage for massive flooding when Hurricane Floyd arrived a few weeks later.

2002

Across southern California, a heat wave sent temperatures soaring to 118° at Dulzura, 113° at Temecula, and 112° at Riverside and Menifee. Temperature gradients were remarkable near the coast. It was 77° at Newport Beach and 107° in Santa Ana, only ten miles difference, 72° in Oceanside Harbor and 87° in Oceanside Airport, only two miles difference, 81° in Sea World to 91°

in San Diego - Lindbergh Field, only three miles difference.

In Tapachula in southern Mexico 5.67 inches of rain fell in 24 hours. 5.48 inches of this fell in just 6 hours. Their average September rainfall is 17.71 inches.

2003

By midnight, Indianapolis, IN recorded its wettest day on record with 7.20 inches.

2006

Norfolk, VA set their all-time record for wettest day with 8.93 inches of rain.

Hurricane John hit Baja California with maximum sustained winds near 110 mph. John caused four deaths in Mexico.

2007

A heat wave began on this day across the southwest with abnormally high humidity. Temperatures exceeded 95° along the coasts and the mountains, 105° in the valleys, 110° in the Inland Empire and high deserts, and 115° in the lower deserts. At least six deaths were reported from heat related illnesses.

September 2nd:

1906

The U.K. recorded its hottest September day on record when the temperature reached 96° in Bawtry. It was also one of the 10 hottest days on record in the U.K.

1935

The "Labor Day" hurricane struck the Florida Keys. The storm was only 40 miles in diameter, but the barometric pressure measured at Long Key was 892 millibars or 26.35 inHg. Sustained winds reached 160 mph with gusts to 200 mph resulted in tides 15 feet above normal. Henry Flagler had built his Florida East Coast Railroad from Miami to Key West several years before. As part of the Works Progress Administration program of the New Deal, 700 men were working to build a highway alongside Flagler's railroad to Key West. A rescue train sent to remove World War I veterans and residents from the Florida Keys was swept from the tracks. The tracks of the Flagler Railroad were washed from the Long Key viaduct at an elevation of 30 feet above mean low water. A survey by the US Corp. of Engineers sometime after the storm found that the tide level never reached the rails there, but the hurricane surge and wind driven waves superimposed on the tide probably helped in carrying the tracks away. As many as 423 people lost their lives, mostly due to drowning, but the death toll may have been much higher. Following the storm, the Florida East Coast railroad was abandoned, but the Overseas Highway would eventually be completed and still stands today.

1937

A storm surge pushed in by a typhoon flooded villages along the coast of Tolo Harbour. Thousands of lives were lost and about 3.6 miles of embankment between Sha Tin and Tai Po are destroyed.

1950

The temperature at Mecca, CA soared to 126° to establish a U.S. record for the month of September. The low that morning was 89°. Other daily records included: Idyllwild, CA: 96° and Palomar Mountain, CA: 95°.

1953

This was the second day in a row with extreme heat across parts of the Midwest to the East. Fort Wayne, IN & Boston, MA had their all-time hottest September temperatures with 100°. Angola, IN rose to 99°, Goshen, IN 101°, and Albion, IN 102°. Chicago, IL hit 101° for the second day in a row and the tenth of 11 consecutive days with a high temperature at 90° or higher.

1961

Denver, CO picked up 4.2 inches of snow, the earliest measurable snow for the Mile High City.

1982

Thunderstorms moved across western New York. Pea-sized hail and strong winds were reported in West Seneca knocking down trees and cutting power to over 2,000 customers. A wind gust of 121 mph was reported at the Chautauqua County Airport near Jamestown, NY causing an estimated half million dollars in damages to the terminal building, planes, cars and landing instruments. Rainfall totals exceeded two inches in places.

1984

Ontario Canada's tornado alley extending from Windsor to London was hit with 8 confirmed tornadoes throughout the Labor Day weekend.

1985

After teasing residents along the Gulf of Mexico for two days, Hurricane Elena finally came ashore at Biloxi, MS. The hurricane, packing winds of 125 mph, caused more than a billion dollars

damage. The storm produced wind gusts up to 120 mph from Florida to Louisiana and gusts up to 135 mph were recorded at Gulfport, MS.

1987

Late evening thunderstorms in the Northern Plains produced wind gusts to 75 mph at Jordan, MT, and a "hot flash" at Redig, SD. The temperature at Redig rose from 66° at 10pm to 86° at 11pm as thunderstorm winds gusted to 36 mph.

Several cities in the Upper Ohio Valley, the Tennessee Valley and the Central Gulf Coast States reported record low temperatures for the date, including Elkins, WV with a reading of 38°.

1988

Unseasonably hot weather prevailed in the northwestern U.S. Afternoon highs of 110°, 105° at Portland, OR and 98° at Medford, OR established records for the month of September. Quillayute, WA equaled their September record with a high of 97°.

A narrow squall line associated with a cold front moved through eastern Nebraska and western Iowa. Especially hard hit was the Omaha/Council Bluffs metro area where thunderstorm winds averaged 60 mph. Power line and tree damage was common.

With the Summer of '88 unofficially drawing to a close, many cities across the nation's heartland and throughout the east will remember the past season as one of the hottest ever. Philadelphia, PA recorded 49 days of 90 degree-plus heat and five days over the century mark. Salt Lake City, UT averaged 77.7° throughout June, July, and August, establishing this summer as the hottest on record in 115 years. Milwaukee, WI recorded an average 3 month temperature of 73.8°, shattering previous record of 72.8° set in 1955.

1995

Sydney, Australia's longest dry spells came to an end. Between July 18th and September 2nd no measurable precipitation fell. August 1995 is the only dry calendar month on record for that location.

1996

After teasing the entire Atlantic coast with winds as high as 140 mph, Hurricane Edouard skirted New England without making landfall. Hurricane force winds were recorded on Nantucket and Cape Cod, but wind damage was relatively minor. While physical damage was relatively light, many businesses had closed on the busiest holiday weekend of the year.

Large swells from Hurricane Fran knocked five people out of an 18-foot fishing boat in Jupiter Inlet, FL. The Coast Guard rescued all five people.

1997

Thunderstorms in parts of southern California brought one inch diameter hail to Mount Mesa and dropped 1.11 inches of rain in just 30 minutes at Ridgecrest. The heavy rain at Ridgecrest caused numerous intersections in town to flood and some were covered with 2 to 6 inches of mud. An automated weather station just west of Ridgecrest recorded 0.90 inches of rain in just 8 minutes. Further south, a thunderstorm at Pine Cove, CA dropped 3.7 inches of rain in just one hour. Strong storms produced wind gusts of 104 mph at Twentynine Palms. Apple Valley reported a wind gust to 62 mph.

1998

A series of severe thunderstorms hit Southern California with high winds, lightning and heavy rains. Widespread flash flooding was reported along with downed power lines. A funnel cloud was reported near Pomona, CA. The lightning sparked several large wildfires, with the largest consuming over 1,500 acres of grass near Bakersfield, CA.

2002

An F3 tornado roared into downtown Ladysmith, WI at mid-afternoon, heavily damaging 64 blocks of the business district. Fortunately, it was Labor Day, and most of the stores were closed for the holiday or the toll would have been much worse. The National Weather Service came under fire for not issuing a tornado warning before the storm struck. The peak temperatures soared to 87° at Goose Bay, Labrador Canada where the average September high is 55°. The low temperature the following morning dropped only to 69°. Their average September low is 41°.

2003

Indianapolis, IN was drenched with 7.20 inches of rain on this date for its greatest single day rainfall on record.

2006

Tropical Storm Ernesto dumped 8.93 inches of rain on Norfolk, VA for the city's greatest single day rainfall on record.

2008

In Chicago the thermometer at O'Hare IAP hits 94°, and Midway topped out at 95°, the first such high there in 761 days, and the warmest day of the year.

September 3rd:

1815

A powerful hurricane made landfall near Swansboro, NC. Damage was extensive at Onslow with great loss of life.

1821

A hurricane made landfall at Long Island, near Kennedy Airport, then moved through western Connecticut. The estimated Category 3 hurricane raised the water level at the Battery to 13 feet above normal. The East River and Hudson Rivers reportedly merged, inundating Manhattan to Canal Street. A similar storm today is a worst case scenario for preparedness officials. A similar storm striking Manhattan today would result in incredible destruction and loss of life.

1921

The temperature at Lunenburg, Nova Scotia Canada soared to 90° as a month-long drought continued.

1933

On this date through the 4th, there was extensive property damage on Florida's east coast from Vero Beach to West Palm Beach due to a landfalling hurricane. A few houses were destroyed and a number blown off their blocks. More than four million boxes of citrus were blown from the trees statewide. The property loss ran into the millions. Two deaths were attributed to storm.

1953

A late summer heat ridge off the Carolina coast brought record heat from the Ohio Valley to the Northeast. The temperature at Erie PA reached 99°, and Stroudsburg PA established a monthly record for September with a reading of 106°.

Huntington, WV: 102°, Harrisburg, PA: 102°, Williamsport, PA: 102°, Cleveland, OH: 101°, Charleston, WV: 101°, Lexington, KY: 100°, Detroit, MI: 100°, Wilmington, DE: 100°, Avoca, PA: 100°, Philadelphia, PA: 100°, Albany, NY: 100°, Chattanooga, TN: 99°, Akron, OH: 99°, Cincinnati, OH: 99°, Columbus, OH: 99°, Allentown, PA: 99°, Rochester, NY: 99°, Louisville, KY: 99°-Tied, Paducah, KY: 98°, Toledo, OH: 98°, Alpena, MI: 98°, Washington, D.C.: 98°, Buffalo, NY: 98°, Chicago, IL: 97°, Mansfield, OH: 97°, Flint, MI: 97°, Elkins, WV: 97°, Syracuse, NY: 97°, Pittsburgh, PA: 96°, Binghamton, NY: 96°, Hartford, CT: 96°, Lynchburg, VA: 96°-Tied, Oak Ridge, TN: 95°, Youngstown, OH: 95°, Grand Rapids, MI: 95°, Beckley, WV: 95°, Muskegon, MI: 94°, Atlantic City, NJ: 94°, Newark, NJ: 94°, Marquette, MI: 92°, Ste. St. Marie, MI: 92° and New York (LaGuardia Airport), NY: 92°.

1961

Denver, CO received 4.2 inches of snow, their earliest date of first snow, trace or measurable of the season. Laramie, WY recorded about a half inch of snow, while to the west near Centennial, WY, 3 inches of snow fell. Along with the snow was record cold temperatures including: Lander, WY: 29°, Colorado Springs, CO: 32°, Denver, CO: 33°, Sheridan, WY: 33°, Clayton, NM: 37°, Salt Lake City, UT: 39°, Grand Junction, CO: 43°, Albuquerque, NM: 47°, Amarillo, TX: 47° and Midland-Odessa, TX: 56°.

1967

A huge hail and windstorm affected the Texas Panhandle. Winds gusted over 100 mph and golfball size hail fell over a large area. One hailstone measured 11 inches in diameter. Crop damage was extensive.

1970

A severe thunderstorm at Coffeyville, KS dropped the largest hailstone ever measured in the U.S. The hailstone had a diameter of 5.7 inches, a circumference of 17.5 inches, and weighed 1.67 pounds. It was the largest measured hailstone in United States weather records up until 6/22/2003, when a larger stone was reported at Aurora, NE.

1972

Hurricane Hyacinth moved as far west as 125 West before recurving to the northeast. The remnants made landfall between Los Angeles and San Diego, CA with winds of 25 mph and rainfall of up to one inch in the mountains from this day through 9/6. This tropical cyclone holds the distinction of traveling the farthest west before recurving and making landfall in Southern California. This occurred during the El Niño of 1972-73. Only 0.44 inches was measured at San Diego.

1974

A strong Canadian air mass brought an early taste of Autumn extending the Plains to the Great Lakes & Ohio Valley. The earliest freeze on record in Sioux Falls, SD recorded their earliest freeze on record when they dropped to 31°. Other record lows included: North Platte, NE: 26°, St. Cloud, MN: 27°, Bismarck, ND: 28°, Valentine, NE: 30°, Aberdeen, SD: 31°, Huron, SD: 31°, Duluth, MN: 32°, Minneapolis-St. Paul, MN: 32°, Scottsbluff, NE: 32°, Rochester, MN: 33°, Grand Forks, ND: 33°, Ste. St. Marie, MI: 33°, Goodland, KS: 34°, Grand Island, NE: 34°, Norfolk, NE: 34°, Omaha, NE: 34°, Lincoln, NE: 35°, Waterloo, IA: 36°, Rapid

City, SD: 36°, Sioux City, IA: 37°, Des Moines, IA: 40°, Concordia, KS: 40°, Dubuque, IA: 41°, Springfield, MO: 41° (the second of five straight record lows), Columbia, MO: 43°, Moline, IL: 43°, Peoria, IL: 43°, Milwaukee, WI: 44°, Kansas City, MO: 45°, St. Louis, MO: 45°, Amarillo, TX: 46°, Wichita, KS: 46°, Oklahoma City, OK: 47°, Tulsa, OK: 47°, Chicago, IL: 47°, Lubbock, TX: 48°, Evansville, IN: 48°, Abilene, TX: 52°, Wichita Falls, TX: 52°, San Angelo, TX: 54°, Little Rock, AR: 54°-Tied, Midland-Odessa, TX: 55°, Shreveport, LA: 57°, Del Rio, TX: 58°, Austin, TX: 59°, Dallas, TX: 60°, San Antonio, TX: 61°, Beaumont-Port Arthur: 61°-Tied, Austin-Bergstrom: 63°-Tied and Galveston, TX: 65°.

1979

Hurricane David made landfall about 20 miles south of Melbourne, FL with 90 mph winds. It was the first hurricane to strike the Cape Canaveral area since the hurricane of 1926, but there was debate among longtime residents whether Tides were 3 to 5 feet above normal near the eye track and 1 to 2 feet above normal elsewhere on the Florida east coast. Light to moderate beach erosion occurred along most of the coast. Severe erosion was reported in Brevard County and south Volusia County. Agricultural losses were substantial, exceeding \$25 million dollars. The principal citrus damage was near the coastline, from Jupiter in Martin County to Oak Hill in Volusia County. Nursery plants sustained considerable damage. Storm rainfall was quite variable with totals mostly 6 to 9 inches near the track of the eye, with a few reports to 11 inches. Elsewhere, rainfall was less than 5 inches. No deaths reported in Florida. Nine tornados were reported along the coast doing mostly minor damage and causing no serious injuries. The strongest of David's tornados destroyed or damaged about 50 trailers in Melbourne Beach, severely damaged a condominium, and did \$1.5 million dollars damage to a shopping center.

1987

Temperatures dipped into the 40s and 50s for morning lows across much of the eastern half of the country, with many cities reporting record lows for the date. Pellston, MI tied Gunnison, CO for honors as the cold spot in the nation with a low of 30°. Other record lows included: Marquette, MI: 33°, Ste. St. Marie, MI: 33°-Tied, Youngstown, OH: 40°, Knoxville, TN: 50°, Oak Ridge, TN: 50°, Jackson, KY: 54°, Meridian, MS: 54°, Waco, TX: 59°, Houston, TX: 60°, Beaumont-Port Arthur: 61°-Tied, Lake Charles, LA: 63°, Austin-Bergstrom: 63°-Tied and New Orleans, LA: 67°-Tied.

1988

Many cities in the northwestern U.S. reported record high temperatures for the date; including Redding, CA with 116° and Stampede Pass, WA with 89°; both records for September. Highs of 100° at Yakima, WA and 98° at Spokane, WA and equaled their September records. Other daily record highs included: Medford, OR: 106°, Reno, NV: 100°, Burns, OR: 97°-Tied, Portland, OR: 93° and Seattle, WA: 92°.

1989

Thunderstorms developing ahead of a cold front produced severe weather from Minnesota to Nebraska during the day and evening. Evening thunderstorms in Nebraska produced wind gusts to 100 mph at Valentine and Gretna, and produced baseball size hail at Lewellen. Thunderstorms in Arizona produced 2.20 inches of rain in 40 minutes at Green Valley, and wind gusts to 60 mph.

Several cities in Texas and Florida reported record high temperatures for the date, including Victoria, TX: 102°, San Antonio TX: 102°, Brownsville, TX: 98°-Tied and Pensacola, FL: 94°-Tied.

1990

At Swan Quarter, NC, five people took shelter from a thunderstorm under a wooden pier. One person was killed and four were hurt when the lightning hit the pier.

1998

Hurricane Earl made landfall during the early morning hours near Panama City, FL as a category 1 storm with maximum sustained winds near 80 mph. The cyclone brought drought breaking rains to Georgia and the Carolinas.

2002

A prolonged summer drought in southern Illinois gradually worsened, becoming severe by early September. Many parts of southern Illinois received little measurable rainfall since July. The main effect of the drought was on agriculture. Crop loss estimates totaled around \$53 million dollars. The corn crop, which was especially susceptible to the combined effects of heat and drought, took the biggest hit. A few outdoor fires broke out, including a 20-acre blaze in Saline County, several miles west of Eldorado. The remnants of Tropical Storm Isidore provided much-needed heavy rainfall late in September. One to 3 inches of rain fell over most of southern Illinois from this storm, which greatly eased the drought.

2007

Key West, FL set a record high of 95°. This was the first occurrence of a 95° or higher reading since August 1957.

September 4th:
1766

An intense hurricane struck Galveston Bay, TX, driving five Spanish treasure ships aground. Most of the treasure was salvaged, but the ships were totaled.

1929

The Netherlands' hottest September day occurred as Maastricht hit 95.4°.

1939

The remnants of a hurricane tracked northeastward across northern Baja California into southwest Arizona starting on this day and ending on 9/6. Up to 7 inches of rain fell on the mountains and deserts. Blythe, CA received more rain than would normally fall in a year and Imperial, CA received more rain than would normally fall in two years. Four tropical cyclones would impact Southern California during the month of September 1939, an unprecedented occurrence. 1.21 inches fell at San Diego, CA. Floods through eastern canyons inundated Thermal, CA with three feet of water. Extensive damage occurred in Mecca.

A thunderstorm deluged Washington D.C. with 4.4 inches of rain in 2 hours. September of that year was very dry across much of the nation, and Washington D.C. received more rain in that two hour period than most other places in the country that entire month.

1941

Five people were killed when a tornado struck Minneapolis, MN.

1945

Record heat blasted parts of the Southwest into the Plains. The high of 108° established the record high for the month of September at Liberal, KS. Other daily records included: Yuma, AZ: 116°, Phoenix, AZ: 112°, Las Vegas, NV: 109°, Tucson, AZ: 106°, Grand Island, NE: 103°, Concordia, KS: 102°, Dodge City, KS: 102°, Amarillo, TX: 102°, Goodland, KS: 100°, Pueblo, CO: 98°-Tied and Flagstaff, AZ: 90°.

1950

A ridge across the Rockies brought record heat. Billings, MT high temperature was 100 degrees, their record latest occurrence of 100 degrees. Other record highs included: Miles City, MT 105°, Stockton, CA: 104°, Columbus/Roundup, MT: 102°, Glasgow, MT: 100°, Salt Lake City, UT: 98°, Havre, MT: 97°, Pocatello, ID: 95°, Helena, MT: 93° and Ely, NV: 89°-Tied.

1965

Hurricane Betsy stalled 350 miles east of Jacksonville, FL just before the busy Labor Day holiday weekend, causing major headaches for weather forecasters.

1970

The greatest natural disaster on record for Arizona occurred. Unprecedented rains courtesy of the remnants of Tropical Storm Norma caused rivers in central Arizona to rise 5 to 10 feet per hour, sweeping cars and buildings as far as 30 to 40 miles downstream. Flooding claimed 23 lives, mainly campers, and caused millions of dollars damage. Water crested 36 feet above normal near Sunflower, AZ. Workman's Creek was deluged with 11.40 inches of rain in 24 hours to establish a state record.

1983

Record heat occurred across parts of the Midwest and Plains ahead of a strong cold front. Record highs included: El Paso, TX: 101°, Roswell, NM: 100°-Tied, Midland-Odessa, TX: 99°-Tied, Albuquerque, NM: 97°, Clayton, NM: 97°, Fort Wayne, IN: 95° and Chicago, IL: 95°-Tied.

1984

A tropical air mass lasting two weeks and high sea surface temperatures led to record minimum temperature records set each day except one at San Diego starting on this date and ending on the 19th. Low temperatures ranged from 73° to the highest minimum of all time of 78° on this day and on 9/17. The high was 100° on 9/8. The low temperature of 80° reached in both Santa Ana and Escondido are each the highest minimum temperature on record. San Diego reached 100°, the hottest day since 9/15/1979. Poor air quality and high humidity caused numerous health problems.

1986

An unusually strong dust devil moved across Flagstaff, AZ's Pulliam Airport. The dust devil blew open the doors of the National Weather Service office scattering papers and bringing down a ceiling-mounted light fixture.

1987

Thunderstorms developing along a stationary front produced heavy rain across the Southern Atlantic Coast. Up to 8 inches was reported north of Charleston SC. Monks Corner, SC reported serious flooding.

Several cities in the northeastern U.S. reported record low temperatures for the date; including Houlton ME dipped to 32°, Concord, NH: 34°, Portland, ME: 39°, Burlington, VT: 40°, Binghamton, NY: 40°, Rochester, NY: 40°-Tied, Milton, MA: 46° and New York (LaGuardia Airport), NY: 57°-Tied.

1988

The western U.S. experienced another day of record heat. The afternoon high of 91° at Stampede Pass, WA established an all-time record for that location, and Downtown Los Angeles CA equaled their all-time record high with a reading of 110°. A record high of 107° at San Diego, CA was their hottest reading in 25 years. Red Bluff, CA was the hot spot in the nation with an afternoon reading of 118°. Other record highs included: Redding, CA: 115°, Bakersfield, CA: 109°, Santa Ana, CA: 108°, Sacramento, CA: 108°, Escondido, CA: 107°, Fresno, CA: 107°, Long Beach, CA: 107°, Los Angeles (LAX), CA: 106°, Stockton, CA: 105°, Reno, CA: 100°, Yakima, WA: 98°, Spokane, WA: 96° and Kalispell, MT: 91.

1989

A large area of thunderstorms developed over eastern Nebraska and moved into western Iowa. In southwest Iowa in Mills County, one of the thunderstorm cells became severe and produced violent winds which ripped a portion of a roof off a business in Mineola, IA. The windows were also blown out. In addition, tree damage was widespread and some of the trees which fell landed on cars. To add insult to injury, a small tornado touched down twice in Mineola, but damage from the tornado was minor compared to the damage done by the straight line winds. The storms also produced heavy rains 1.5 to 3.5 inches with locally higher amounts of up to 7 inches. Creston, NE reported 6.97 inches.

It was also a soggy Labor Day for northern Florida. Jacksonville reported 6.82 inches of rain and evening thunderstorms produced 2.75 inches of rain in one hour at Sandlewood.

1995

A strong 594 decimeter heat ridge brought record highs across parts of the Rockies to the southern Plains. Denver, CO hit 97° equaling a September (9/5/1899, 9/5/1960 & 9/1/1995). Other record highs included: Dallas, TX: 102°, San Angelo, TX: 101°, Grand Junction, CO: 100°, Houston, TX: 100°-Tied, Galveston, TX: 98°, Lake Charles, LA: 98° and Lander, WY: 94°.

1996

Hurricane Fran reached peak strength of 120 mph 275 miles off the east coast of Florida. The Space Shuttle Atlantis had to be rolled back from its launch pad at Cape Canaveral as the storm threatened the east coast of Florida. The storm would make landfall the following evening on the North Carolina coast to become the most damaging hurricane of the 1996 Atlantic season.

1998

A strong heat ridge extending from the south to the Rockies produced record high temperatures for the date. Scottsbluff, NE equaled their warmest September temperature with a high of 102°. Other record highs included: Fort Smith, AR: 109°, Dallas, TX: 108°, Dallas (DFW), TX: 108°, Wichita Falls, TX: 108°, Oklahoma City, OK: 107°, Tulsa, OK: 107°, Waco, TX: 106° and Austin (Camp Mabry), TX: 101°.

1999

Tropical Storm Dennis ruined the debut of South Carolina Football Coach Lou Holtz, as North Carolina State took advantage of Mother Nature induced miscues to win a rainy game at Raleigh 10-0.

2000

A strong heat ridge was in control from the central Plains to the Gulf Coast. Houston and College Station, TX recorded their hottest day on record when highs reached 109° and 112° respectively. Other daily record highs included: Wichita Falls, TX: 111°, Waco, TX: 111°, Dallas, (DFW), TX: 111°, Austin, (Bergstrom) TX: 110°, Austin (Camp Mabry), TX: 110°, Dallas, TX: 110°, Victoria, TX: 110°, San Antonio, TX: 109°, Shreveport, LA: 108°, Corpus Christi, TX: 107°, Del Rio, TX: 107°, Abilene, TX: 106°, Beaumont-Port Arthur, TX: 105°, San Angelo, TX: 105°, Lake Charles, LA: 105°, Baton Rouge, LA: 104°, Brownsville, TX: 103°, Dodge City, KS: 103°, Amarillo, TX: 102°-T, Galveston, TX: 101°, Lubbock, TX: 101°, Midland-Odessa, TX: 101° and New Orleans, LA: 99°.

2006

A slow moving low pressure system triggered scattered thunderstorms across northern Illinois during the afternoon. A series of slow moving storms moved into and sat over the east side of Rockford. As much as 5 to 10 inches of rain fell in a localized area, while less than 3/4 inch fell nearby at the airport. The heavy rain produced severe flooding of Keith Creek in the late afternoon and early evening. Hundreds of basements were flooded and 15 homes were left uninhabitable. Streets and parking lots were flooded and cars were submerged in water. Damage was estimated around \$20 million dollars.

2007

Hurricane Felix came ashore in the pre-dawn hours as a Category 5 storm on the Miskito Coast in Nicaragua. At the time of its landfall, the maximum sustained surface winds were approximately 160 mph. Felix killed at least 130 people along the Miskito Coast, with damage in Nicaragua totaling \$46.7 million dollars. With Felix following the footsteps of Hurricane Dean, also a Category 5 hurricane, it marks the first time since record-keeping began that the first two hurricanes of the Atlantic hurricane season reached Category 5 intensity and also the first season where two hurricanes made landfall at Category 5.

As Hurricane Felix walloped the Central American coastline, Hurricane Henriette, also a Category 5 storm, slammed into resorts on the tip of Baja California. This is the first time since records began in 1949 that both Atlantic and Pacific hurricanes make landfall on the same day.

A deluge of 4.29 inches of rain swamped Marquette, MI. The downpour not only smashed the previous maximum precipitation record for the date, but also sets the all-time daily maximum precipitation record since the station was moved to that location in 1961.

2008

The remnants of Hurricane Gustav brought heavy rains to southern Lower Michigan. Muskegon set a daily rainfall record of 3.25 inches and Grand Rapids sets a record with 2.82 inches.

September 5th:

One of the many forms of lightning is called sheet lightning. Sheet lightning occurs when either the lightning flash occurs inside of a cloud or intervening clouds obscure the flash such that a portion of the cloud or clouds appear as a luminous white or blue sheet.

1913

Record late summer heat blasted parts of the Midwest & Missouri Valley. Quincy, IL & Osage, IA set their highest September temperatures on record with 105° & 101° respectively.

Other daily records included: Tulsa, OK: 107°, Sioux Falls, SD: 104°, Dallas-Fort Worth, TX: 104°, Lincoln, NE: 103°, Topeka, KS: 102°, Huron, SD: 102°, Norfolk, NE: 101°, Omaha, NE: 100°, Sioux City, IA: 99°, Minneapolis-St. Paul, MN: 97°, Williston, ND: 96°, Glasgow, MT: 95° and Rochester, MN: 94°.

1922

An intense lightning storm killed two boys taking refuge under a stock of grain in the Seamans District, Saskatchewan Canada.

1925

Searing heat extended from the Midwest to the East. The temperature at Centerville, AL soared to 112° to establish a state record. Every reporting station in Alabama was 100° or above that afternoon. Birmingham was recording its third of seven straight days with temperatures over the century mark. On the 5th and 6th, the temperature at Birmingham topped out at 106°. After a brief reprieve, the temperature would once again reach the century mark on 9/22 the latest Birmingham has ever seen 100°.

Other daily record included: Huntsville, AL: 107°, Athens, GA: 107°, Montgomery, AL: 106°, Jackson, MS: 105°, Mobile, AL: 103°, Evansville, IN: 103°, St. Louis, MO: 103°, Meridian, MS: 103°, Pensacola, FL: 102°, Atlanta, GA: 102°, Augusta, GA: 102°, Nashville, TN: 102°, Tallahassee, FL: 101°, Columbia, SC: 101°, Rockford, IL: 100°, Kansas City, MO: 100°, Knoxville, TN: 100°, Charleston, WV: 100°, Springfield, IL: 99°, Des Moines, IA: 99°, Charlotte, NC: 99°, Greenville-Spartanburg, SC: 99°, South Bend, IN: 98°, Gainesville, FL: 97°, Greensboro, NC: 97°, Jacksonville, FL: 96°, Roanoke, VA: 95°, Asheville, NC: 94° and Mansfield, OH: 91°.

1929

3 inches of early season snow was recorded near Lusk, WY.

1933

A hurricane hit Brownsville, TX causing 40 deaths and an estimated \$12 million dollars in damage.

1938

A streak of 10 consecutive days with measurable rainfall for La Crosse, WI began on this date. The streak ran through the 14th, with a total of 6.89 inches falling during the period.

1944

The temperature at Portland, OR soared to 102°, the only time in the city's history the temperature reached the century mark in September.

Other daily records across the country included: Medford, OR: 103°, Salem, OR: 103°, Lewiston, ID: 103°, Augusta, GA: 102°-Tied, Eugene, OR: 101°, Daytona Beach, FL: 99°, Savannah, GA: 99°, Charleston, SC: 99°, Jacksonville, FL: 98°, Gainesville, FL: 97°-Tied and Seattle, WA: 88°.

1950

On this date through the 6th, Hurricane Easy looped twice off the west coast of Florida, moving little from the 4th through the 6th. This slow movement allowed tremendous rainfall amounts to accumulate in some areas. The 24-hour rainfall of 38.7 inches that fell at Yankeetown from this date through the 6th is the highest ever in Florida, and the second highest all-time 24 hour amount in North America. Easy had top winds of 125 mph and a barometric pressure of 958 millibars or 28.30 inHg. The tide at Tampa Bay, FL rose to 6.5 feet. Severe beach erosion was reported from Sarasota to Cedar Key. Cedar Key reported hurricane force winds from 6am to 6pm on this date. The fishing fleet of Cedar Key was destroyed by high wind and waves.

1953

Albany, NY endured their 10th straight day of 90° temperatures, their longest heat wave on record when they set a record high of 90. Other records included: Avoca, PA: 89° and Worcester, MA: 88°.

1954

A dominate heat ridge across the Ohio Valley was responsible for a three day heat wave that started on this date. Daily records included: Paris, IL: 105°, Nashville, TN: 105°, Decatur, IL: 104°, Louisville, KY: 104°, Paducah, KY: 104°, Lexington, KY: 103°, Tupelo, MS: 103°, Knoxville, TN: 103°, Memphis, TN: 103°, St. Louis, MO: 103°-Tied, Evansville, IN: 103°-Tied, Chattanooga, TN: 102°, Oak Ridge, TN: 102°, Charlotte, NC: 101°, Roanoke, VA: 101°, Indianapolis, IN: 100°, Cincinnati, OH: 100°, Richmond, VA: 100°, Huntington, WV: 100°, Detroit, MI: 99°, Cleveland, OH: 99°, Columbus, OH: 99°, Youngstown, OH: 99°, Bristol, TN: 99°, Lynchburg, VA: 99°, Springfield, IL: 99°-Tied, Greenville-Spartanburg, SC: 99°, Akron, OH: 98°, Columbus, GA: 98°-Tied, Macon, GA: 98°-Tied, Raleigh, NC: 97°, Greensboro, NC: 97°-Tied, Baltimore, MD: 96°, Asheville, NC: 95°, Mansfield, OH: 95°, Toledo, OH: 95°, Williamsport, PA: 95°, Flint, MI: 94°, Beckley, WV: 94°, Harrisburg, PA: 93°, Madison, WI: 93°-Tied, Elkins, WV: 92° and Grand Rapids, MI: 92°-Tied.

1955

A strong heat ridge was across the Great Basin produced record heat. Record highs included: Palm Springs, CA: 116°, Riverside, CA: 110°, Escondido, CA: 109°, Las Vegas, NV: 109°-Tied, Victorville, CA: 107°, Fresno, CA: 105°-Tied, Bishop, CA: 103°, Winnemucca, NV: 100°, Burns, OR: 99°, Reno, NV: 98°, Boise, ID: 97°, Elko, NV: 97°, Yakima, WA: 97°, Palomar Mountain, CA: 96°, Sheridan, WY: 96°, Pocatello, ID: 95°, Salt Lake City, UT: 95°, Spokane, WA: 94°, Portland, OR: 93°, Ely, NV: 92°-Tied and Olympia, WA: 89°.

1958

The heaviest hailstone recorded in Great Britain at 0.31 pounds was observed at Horsham in Sussex.

1965

One of the most unpredictable hurricanes ever in the North Atlantic, Hurricane Betsy, was making a series of loops off the Southeastern U.S. coast, baffling forecasters and upsetting the Labor Day Holiday plans for millions of vacationers.

Severe thunderstorms crossed southwest Oklahoma. The storms brought torrential rain, up to five inches in one hour at some locations, which caused street flooding in Martha, Blair, and Hester. Some residents had water up to their porches. The storms also produced strong winds that caused major damage in Blair.

1969

Heavy thunderstorms produced flooding across low lying areas of the northwest suburbs and the northwest side of Chicago, IL. 1.28 inches of rain was recorded in about 30 minutes at O'Hare Airport.

1970

Bug Point recorded Utah's record maximum 24 hour precipitation record (also the lowest of all U.S. states) as 6 inches of rain fell.

1971

Hurricane Ginger was born in the Atlantic and would be active for 31 days, setting the record as longest lived tropical cyclone on record.

1975

Strong winds reduced visibilities to near zero in blowing dust resulting in a 22-car chain reaction accident on Interstate 10 near Toltec, AZ. Two people were killed, and 14 others were injured.

1979

Hurricane David made landfall near Savannah, GA then tracked through interior sections of the Eastern Seaboard. The storm produced dozens of tornadoes and flash flooding in the Mid-Atlantic region on this date through the 6th. Baltimore, MD experienced one of its most destructive flash floods as more than 6 inches of rain fell, most within a few hours between Washington, D.C. and Baltimore. David spawned tornadoes across New Castle County, Delaware and Berks & Chester Counties in Pennsylvania, where a man was killed in his trailer. The New Garden Township tornado in Chester County, Pennsylvania was classified as an F3, as was the tornado that moved across parts of Oley and Alsace Townships in Berks County, Pennsylvania.

1987

Thunderstorms over the Southern and Mid-Atlantic Coast States drenched the coastal regions of South Carolina. Charleston, SC received 5.50 inches of rain, and 13.50 inches in two days, flooding homes, leaving roads and bridges under water, seriously damaged cotton crops and resulted in an unusually high number of mosquitoes. Between 8/30 and 9/8, Charleston received 18.44 inches of rain.

1988

Five days of heavy rain, through the 9th, drenched west central Florida. Up to 20 inches of rain in 4 days resulted in extensive urban flooding, and the evacuation of 1,000 homes. All time record flood crests were recorded on the Hillsborough River at Middleburg, the Manatee River at Myakka, and the Little Manatee River at Wimauma. Flooding claimed four lives, and caused more than \$5 million dollars in property damage.

1989

Thunderstorms produced 6 to 10 inches of rain in south central Kansas during the morning hours. Serious flooding was reported around Wichita, with water four feet deep along some roads.

A cold front crossing the Northern Plains Region produced wind gusts to 63 mph at Sheridan, WY.

1991

Flooding surged down the Newsome Creek Canyon in Oregon. A wall of water five feet deep and 200 feet wide roared down the canyon sweeping farm equipment, animals and vehicles downstream as far as six miles. One man drowned.

1996

Hurricane Fran made landfall near Cape Fear, NC with 115 mph sustained winds. The area had just finished cleaning up from Hurricane Bertha less than two months earlier. A storm surge of up to 12 feet occurred in Onslow County. 90% of the homes were damaged or destroyed at North Topsail Beach. 6 to 14 inches of rain fell in sections of North Carolina, Virginia, and West Virginia with widespread flash flooding. As many as 34 people were killed by Fran and total damage was \$3.2 billion dollars. Hurricane Fran was the most costly natural disaster in North Carolina's history.

1997

Erika reached hurricane strength in the Atlantic. The hurricane was notable because it was the only named storm in the Atlantic during the months of August and September. That was the first time since 1929 that only one tropical storm strength system formed in the Atlantic during these two months.

2000

Another day of record heat gripped Texas. All-time record high temperatures were set at Austin, TX: 112°, San Antonio, TX: 111°, Victoria, TX: 111°, Corpus Christi, TX: 109° and Galveston, TX: 104°.

Other record highs included: Del Rio, TX: 109°, Houston, TX: 108°, Waco, TX: 108°, Abilene, TX: 107°, San Angelo, TX: 106°, Brownsville, TX: 105°, Beaumont-Port Arthur, TX: 104°, Lake Charles, LA: 104°, Lubbock, TX: 102°, Baton Rouge, LA: 101° and Alamosa, CO: 86°-Tied.

2003

Category 3 Hurricane Fabian pounded Bermuda with sustained winds of 120 mph and driving rain. The storm knocked out power in 26,000 homes and ripped wind-measuring instruments from their moorings at Bermuda's Weather Service Office. Fabian was the strongest hurricane to hit Bermuda since Hurricane Arlene in 1963. Damage was estimated at \$300 million dollars.

2004

Hurricane Frances made landfall at Hutchinson Island on the east central coast of Florida with winds of 105 mph and a central pressure of 960 millibars or 28.35 inHg. An 8 foot storm surge occurred at Vero Beach and High Springs was drenched with 15.84 inches of rain. Frances moved northwestward crossing Florida, into Georgia, and then recurved northeastward up the Appalachians over the next several days, dumping excessive rains: 23.57 inches at Mt. Mitchell, NC, 18.07 inches at Linville Falls, SC and 11.50 inches at Big Meadows, VA. Frances spawned a near record 106 tornadoes. There were 7 fatalities and total damage was \$9 billion dollars.

2007

As many as three tornadoes are reported during the afternoon near Soda Springs in southeast Idaho, one downed 46,000-volt power lines.

September 6th:

1667

A major hurricane struck Virginia. The storm surge was reported at 12 feet above normal. Up to a foot of rain was reported in some areas. Crop loss was extensive.

1776

Over 6,000 people died when a major hurricane struck the island of Guadeloupe in the Caribbean.

1840

The first official weather observation in Canada was taken at King's College, University of Toronto Canada by members of the British Royal Artillery.

1881

Forest fires in Michigan and Ontario resulted in 'Yellow Day' in the northeastern U.S. 20 villages in Michigan burned, and a total of 500 people were killed. Fires caused \$2.3 million dollars in losses near Lake Huron. Candles were needed at the noon hour.

1909

Topeka, KS was drenched with 8.08 inches of rain in 24 hours to establish an all-time record for the city.

1929

Iowa's earliest snow on record occurred as a few flakes were observed in the morning hours at Alton. Three inches of snow was reported in Harrison, NE.

1955

A prolonged heat wave continued in the southwest. Riverside, CA & Escondido, CA set their September high temperature records with 114° and 111° respectively. The 111° reading in Escondido was their highest reading in 50 years until it was broken on 7/22/2006 when they hit 112°. Other record highs included: Las Vegas, NV: 110°, Victorville, CA: 106°, Bishop, CA: 103°, Downtown Los Angeles, CA: 102°, Pendleton, OR: 102°, Boise, ID: 98°, Long Beach, CA: 98°, Winnemucca, NV: 98°, Salt Lake City, UT: 97°, Pocatello, ID: 97°, Yakima, WA: 97°, Winslow, AZ: 97°-Tied, Burns, OR: 96°, Elko, NV: 95°, Palomar Mountain, CA: 94°, Ely, NV: 91° and Flagstaff, AZ: 86°-Tied.

1965

After stalling and looping, Hurricane Betsy moved into the Bahamas, heading for South Florida with maximum sustained winds of 115 mph and a central pressure of 956 millibars or 28.23 inHg.

1972

Tropical Depression Hyacinth was the first tropical cyclone to strike southern California since 1939. Rainfall exceeded three inches in the mountains. Winds were only 30 mph and no deaths or serious damage resulted. This occurred during the El Nino of 1977-78.

1974

Hurricane Carmen caused rough seas, high tides, and minor beach erosion along the western coast of Florida as it passed far to the west beyond 90 degrees longitude intensifying to a major Category 3 Hurricane late in the day with maximum sustained winds of 115 mph and a minimum central pressure of 967 millibars or 28.56 inHg. The storm began moving northward from Yucatan on September 5th, passing through the central Gulf of Mexico and moving inland on the Louisiana coast during the predawn hours of September 8th.

1978

Heavy rain from Tropical Depression Norman destroyed 95% of California's raisin crop, which was drying outside during a normally dry time of the year.

1984

Thunderstorms produced damaging high winds in and around the Black Hills of South Dakota. Winds gusted to an estimated 100 mph at Mt. Coolidge and to 75 mph over the northern Black Hills and adjoining Plains. The winds damaged many trees, in some cases snapping branches as big as 6 inches in diameter. Winds also caused power outages in many areas and damaged numerous roofs, buildings, and signs. In the Martin area winds estimated at 90 mph destroyed several small buildings.

1987

Thunderstorms produced more than 7 inches of rain in parts of north Georgia. Four people drowned, and two others were injured, as three couples attempted to cross Mills Stone Creek at Echols Mill (east of Atlanta) in their automobiles.

200 people were killed in their automobiles west of Caracas, Venezuela as a mudslide roared down on a mountain road.

1988

Unseasonably cool weather prevailed across the north central and northeastern U.S. Many cities reported record low temperatures for the date, including: St. Cloud, MN: 35°, Waterloo, IA: 35°, Dubuque, IA: 38°, Green Bay, WI: 38°, St. Joseph, MO: 38°, Binghamton, NY: 39°, Moline, IL: 40°, Springfield, IL: 40°-Tied, Columbia, MO: 41°, Peoria, IL: 41°, La Crosse, WI: 41°-Tied, Des Moines, IA: 42°, Allentown, PA: 42°, Kansas City, MO: 43°, Paducah, KY: 43°, Indianapolis, IN: 44°, Atlantic City, NJ: 44°, Evansville, IN: 45°, Lexington, KY: 45°, Harrisburg, PA: 46°-Tied, Philadelphia, PA: 48°-Tied, Bridgeport, CT: 48°-Tied, Islip, NY: 49°, Nashville, TN: 51°, Chattanooga, TN: 53°-Tied, New York (Kennedy Airport), NY: 53°-Tied, New York (LaGuardia Airport), NY: 53°-Tied and Little Rock, AR: 55°. The mercury dipped to 31° at Hibbing MN and Philips WI.

1989

An early afternoon thunderstorm produced wind gusts to 104 mph at Winter Haven, FL flipping over four airplanes, and damaging five others. The high winds also damaged a hangar and three other

buildings.

Powerful Hurricane Gabrielle and strong easterly winds combined to create waves up to 10 feet high along the southern half of the Atlantic coast.

A cold front produced strong winds and blowing dust in the Northern Plains, with gusts to 54 mph reported at Buffalo, SD.

1992

An unusual nighttime warm up occurred at Will Rogers World Airport in Oklahoma City, OK. At 12:50am, the temperature was 71° with a south wind. Just 25 minutes later, at 1:15am, the temperature was up to 83°. The warm up was due to a heat burst, caused by downward flowing air from a dissipating thunderstorm. By 2:05 AM, the temperature had returned to a more normal reading of 66°.

1995

A very strong thunderstorm caused damage to more than 250 homes in Lake Havasu City, several extensively. Roofs were ripped off and air conditioners at three homes were blown to the ground. Winds overturned some boats with a few of them crashing into the street. Winds also knocked down power lines. Torrential rains caused washes to run very high.

1996

Hurricane Fran brought unprecedented rain and wind to parts of North Carolina, with up to 9.5 inches and hurricane force winds that snapped thousands of trees and knocked out power to one million people. As the torrential rains continued through the night, the waters of Crabtree Creek rose rapidly, flooding the huge Crabtree Valley Mall and the Sheraton Crabtree, where automobiles floated in 6 feet of water in the lobby. It was the worst flooding ever remembered in history on Naked Creek between Page County and Rockingham County & the Hawksbill Creek in Luray, VA. Damage totaled \$6 billion dollars from the Carolinas through the Mid Atlantic and westward into Ohio.

2002

Typhoon Sinlaku drenched Japan and surrounding islands. The Category 2 Cyclone packed winds of 100 mph. Naha, Okinawa reported 6.74 inches of rain. Their monthly average is 7.13 inches. In Miyakoshima 10.13 inches of rain fell in the 24 hours. Their September average is 8.04 inches. The typhoon knocked out electricity to tens of thousands of homes, killed at least five people and injured 25 more.

2004

Hurricane Frances moved across Georgia causing heavy rainfall across the southern U.S. Over 15 inches of rain were recorded in some places in North Carolina and Virginia, causing heavy flooding. Frances was downgraded to a tropical depression and dissipated over Pennsylvania on September 9th.

September 7th:

1881

The hottest September day on record occurred in the Northeast with 104° at Washington D.C., 102° in Boston, MA 101° at New York City and 100° at New Haven, CT.

1888

Much of the Middle and North Atlantic Coast region experienced freezing temperatures. Killer frosts resulted in a million dollars damage to crops in Maine.

1909

Topeka, KS was drenched with 8.08 inches of rain in 24 hours to establish a record for that location.

1930

A hailstorm produced stones as large as baseballs along a 60 mile path from Beresford, SD, to near Oto, IA. The swath of hail damage was five miles wide. Some hail would be evident four days later.

1939

Record heat prevailed across the Midwest. Locations recording their hottest September temperatures included Rockford, IL: 103°, New Hampton, IA: 101° and Lancaster, WI: 100°. Prairie du Chien, WI tied for Wisconsin's highest September temperature with 104°. Other record highs included: Waterloo, IA: 102°, Columbia, MO: 102°, Kansas City, MO: 102°, Des Moines, IA: 101°, St. Louis, MO: 101°, Peoria, IL: 101°-Tied, Chicago, IL: 100°, Springfield, IL: 100°, Dubuque, IA: 99°, Cincinnati, OH: 99°, Toledo, OH: 99°, Springfield, MO: 99°, Tupelo, MS: 99°, Moline, IL: 99°-Tied, Columbus, OH: 98°, Indianapolis, IN: 98°-Tied, Madison, WI: 97°, Milwaukee, WI: 97°, Akron, OH: 97°, Detroit, MI: 97°, Lexington, KY: 97°-Tied, Mansfield, OH: 95°, Cleveland, OH: 94°, Flint, MI: 92° and Grand Rapids, MI: 92°-Tied.

1949

Santa Ana, CA began with a record low of 51° then quickly warmed to a record high temperature of 105°. Other record highs for the date across the Southland included: Escondido, CA: 106°, Downtown Los Angeles, CA: 103°, Long Beach, CA: 101° and San Diego, CA: 92°.

1955

The heat wave in the southwest continued. Record highs included: Yuma, AZ: 113°, Riverside, CA: 109°, Las Vegas, NV: 108°, Victorville, CA: 106°, Bishop, CA: 100°, Boise, ID: 97°, Salt Lake City, UT: 96°, Idyllwild, CA: 95°, Pocatello, ID: 94°, Los Angeles (LAX), CA: 92° and Ely, NV: 90°.

1962

Billings, MT recorded their earliest measurable snowfall with two inches, followed by 4.3 more inches the next day. Red Lodge, MT received 15 inches from this day through the 8th. Columbus, MT received four inches and Livingston, MT received one inch.

1970

A lightning bolt struck a group of football players at Gibbs High School in St. Petersburg, FL, killing two people and injuring 22 others. All 38 players and four coaches were knocked off their feet.

1971

Around the evening rush hour Sioux Falls, SD was hit by a severe thunderstorm packing high winds. Winds estimated between 70 and 90 mph caused extensive damage on the southwest side of town. The Park Ridge shopping mall was hit hard by the storm and considerable damage was also done at Western Mall. Damage was mostly to roofs, windows, as well as trees and utility lines. Four people were injured by broken glass at the Western Mall when a skylight was broke by the storm. Total damage was estimated at \$60,000 dollars.

1987

Showers and thunderstorms produced 4 to 8 inches of rain in 3 to 6 hours in parts of Virginia, with totals across the state for the Labor Day weekend ranging up to 14 inches. The Staunton River crested at 34.44 feet at Altavista on the 8th, its highest level since 1940. Damage due to flooding was estimated at \$7 million dollars around Bedford, Henry, and Franklin.

1988

Many cities across the eastern U.S. reported record low temperatures for the date. The low of 56° at Mobile, AL was their coolest reading on record for so early in the season. The mercury dipped to 31° at Athens OH, and 30° at Thomas, WV.

Other daily records included: Toledo, OH: 38°, Columbus, OH: 40°, Huntington, WV: 41°, Cincinnati, OH: 41°, Pittsburgh, PA: 41°, Paducah, KY: 42°, Indianapolis, IN: 42°, Akron, OH: 42°-Tied, Dayton, OH: 42°-Tied, Mansfield, OH: 42°-Tied, Evansville, IN: 43°, Charleston, WV: 45°, Islip, NY: 46°, Louisville, KY: 46°-Tied, Jackson, KY: 47°, Bristol, TN: 47°-Tied, Meridian, MS: 48°, Lexington, KY: 48°-Tied, Tupelo, MS: 49°, Little Rock, AR: 49°, Nashville, TN: 49°, Birmingham, AL: 50°, Memphis, TN: 50°, Huntsville, AL: 51°, Wallops Island, VA: 52°-Tied, Montgomery, AL: 55°, Shreveport, LA: 55°, Baton Rouge, LA: 56°, Lake Charles, LA: 58°, Pensacola, FL: 60° and Tallahassee, FL: 60°.

1989

Thunderstorms in the central U.S. produced up to 6 inches of rain in southwestern Iowa. Evening thunderstorms in eastern Colorado produced golf ball size hail at Clear Creek and at Nederland. Late evening thunderstorms in Iowa drenched Oelwein with 7.19 inches of rain and Harlan with more than 4 inches of rain.

1991

A 30 minute hailstorm dropped softball size hail on Calgary, Alberta Canada's subdivisions, breaking windows and siding, splitting trees, and crushing birds. Homeowners filed a record, 116,000 insurance claims for losses exceeding \$450 million dollars; making it the most destructive hailstorm ever in Canada.

1995

Severe thunderstorms in Kingman, AZ initially produced high winds and hail and then heavy rain with high winds in a second wave. The winds of the latter event overturned cars and blew a mobile home completely off of its foundation. The heavy rain flooded washes and city streets prompting search and rescue missions to save some trapped motorists.

1998

A fast-moving cluster of thunderstorms known as a derecho swept through upstate New York during the pre-dawn hours, producing winds of 80 to 90 mph. Significant thunderstorm wind damage was reported from Rochester and Syracuse eastward. Later in the day, a squall line moved through New York City producing wind gusts up to 100 mph. Three people were killed, mainly from falling trees. Many people went without power on Labor Day, and some were without power as long as a week later.

2003

A string of 61 consecutive days with temperature 70° or above ended at Seattle-Tacoma, WA. The previous run had been 49 days in 1958.

2008
The temperature soared to a record high of 100° at Szeged, Hungary.

2009
Barrow, AK ended their streak of 68 consecutive days above freezing, which began on July 1, when the low dropped to 31°. This shattered their old record of 51 consecutive days from 7/24-9/11/1979.

September 8th:

1588
The Spanish Armada was hit hard by a strong storm system while off the coast of Scotland. Two ships were sunk. The storm inflicted heavier losses on the Spanish than any other battle with the English during the war.

1900
The greatest weather disaster in U.S. history occurred when a hurricane struck Galveston, TX. A 15 to 20 foot storm surge driven by 120 mph winds washed over the island demolishing and carrying away buildings. The hurricane killed 6,000 to 8,000 people and destroyed more than 3,636 homes. Total damage was estimated at \$30 million dollars. Following the storm, the surf was 300 feet inland from the former water line. The hurricane claimed another 1,200 lives outside of the Galveston area. The Galveston Hurricane led to the recognition of the storm surge as a phenomenon of tropical cyclones.

1909
Topeka, KS picked up 8.08 inches of rain in 24 hours to establish the record.

1951
A cool Canadian air mass settled across the Great Lakes southward to the Tennessee Valley. Record lows included: Houghton Lake, MI: 29°, Muskegon, MI: 31°, Grand Rapids, MI: 36°, Beckley, WV: 36°-Tied, Akron, OH: 38°, Youngstown, OH: 38°, Columbus, OH: 39°, Green Bay, WI: 39°, South Bend, IN: 40°-Tied, Cleveland, OH: 41°, Buffalo, NY: 42°, Charleston, WV: 45°-Tied, Indianapolis, IN: 46°-Tied, Bristol, TN: 51°, Oak Ridge, TN: 51° and Greensboro, NC: 51°-Tied.

1952
The first official nationally televised broadcast featured Meteorologist Percy Saltzman in Cross, Canada.

1962
Canadian high pressure brought record chill from parts of the Rockies to the east coast. Denver, CO: dipped to 31°, their earliest freeze on record.
Other daily record lows included: Kalispell, MT: 25°, Cheyenne, WY: 25°, Casper, WY: 29°, Lander, WY: 29°, Sheridan, WY: 29°, Billings, MT: 32°, Great Falls, MT: 32°, Scottsbluff, NE: 33°, Rapid City, SD: 36°, Lewiston, ID: 37°, Salt Lake City, UT: 38°, Goodland, KS: 38°, Williamsport, PA: 41°, Hartford, CT: 41°, Allentown, PA: 42°, Philadelphia, PA: 45°, Baltimore, MD: 46°, Harrisburg, PA: 47°, Richmond, VA: 48°, Wilmington, DE: 48°-Tied, Lynchburg, VA: 49° and Bridgeport, CT: 49°.

1965
Hurricane Betsy passed extreme south Florida early on this date with maximum sustained winds of 125 mph and a minimum central pressure of 948 millibars or 27.99 inHg. Betsy moved across the upper Keys, through Florida Bay and into the Gulf of Mexico north of Key West, and across the Gulf of Mexico to New Orleans, LA. The strongest winds were gusts from the northwest estimated at 140 mph in the Keys. The passage of the storm center across the upper Keys produced strong onshore winds and high tides along the southeast coast with gusts to 60 mph reported as far north as Melbourne. Flooding on the upper Keys was extensive and water reached depths of several feet in many areas, covering highways and first floors of buildings. Storm tides reached 6.1 feet along the Miami Beach oceanfront and rising waters flooded extensive sections of Key Biscayne. Most of the total damage occurred in the east coastal areas south of Palm Beach County and on the Keys. There were five known fatalities. Three additional people were missing in the Gulf and presumed lost, making the death toll total eight in Florida. A tornado spawned by Betsy destroyed a dozen trailers near Marathon, FL.

1974
A weakening Hurricane Carmen made landfall on the Louisiana coast with sustained winds of 80 mph causing \$152 million dollars in damage, mainly from sugarcane losses. 75,000 people fled low lying areas as the storm approached and only one storm related fatality was reported.

1977
A strong cold front raced across South Dakota and into Iowa and Minnesota. The front brought tremendous winds across the state and into western sections of Iowa and Minnesota. At Rapid City,

SD winds gusted to 75 mph at the airport. The strong winds leveled many trees and damaged buildings, roofs, and broke windows. Portions of western South Dakota reported blowing dust which greatly reduced visibilities and led to many traffic accidents. However, the high winds were even more widespread in the east. About 12 miles south of Ft. Pierre, SD 68 mph winds ripped a camper off of a truck and demolished it. 70 mph winds destroyed a two and one-half million gallon oil tank near Watertown, SD. Across northeast Nebraska, 60 to 70 mph winds were common damaging trees, power lines, buildings and windows. Norfolk had an official wind gust of 66 mph which damaged a boat in nearby Battle Creek.

1984

Severe thunderstorms affected central and southern Oklahoma. They brought hail as large as baseballs and winds up to 80 mph to the Paoli area, in Garvin County. Six barns were destroyed around Paoli, and damage was estimated at \$200,000 dollars. Rosedale, in McClain County, also had 80 mph winds, combined with hail up to softball size. North and east side windows were broken out of most homes in the area and damage was estimated at \$100,000 dollars.

1986

Cool Canadian high pressure settles in across the Missouri Valley bringing record cold from the Midwest to the east coast. Record lows included: Waterloo, IA: 35°, Dubuque, IA: 37°, Toledo, OH: 37°, Youngstown, OH: 37°, Rockford, IL: 37°, Madison, WI: 37°, Flint, MI: 37°, Pittsburgh, PA: 37°, Rochester, PA: 37°, Moline, IL: 38°, Indianapolis, IN: 38°, Peoria, IL: 39°, Springfield, IL: 39°, Fort Wayne, IN: 39°, Detroit, MI: 39°, Buffalo, NY: 39°, Norfolk, NE: 39°-Tied, Sioux City, IA: 40°, South Bend, IN: 40°-Tied, Topeka, KS: 41°, St. Louis, MO: 42°, Columbia, MO: 43°, Kansas City, MO: 43°, Chicago, IL: 43°, Evansville, IN: 43°, Jackson, KY: 51°, New York (Central Park), NY: 54°-Tied and Norfolk, VA: 56°-Tied.

1987

A tropical depression off the coast of South Carolina brought another round of heavy rain to the Mid Atlantic Coast and the Upper Ohio Valley. Showers and thunderstorms produced extremely heavy rain in eastern Pennsylvania, where flooding caused more than \$55 million dollars damage across a 7 county area.

The afternoon high of 97° at Miami, FL was a record for the month of September.

1988

Many cities in the south central and eastern U.S. reported record low temperatures for the date, including Roanoke, VA: 42°, Asheville, NC: 42°-Tied, Atlantic City, NJ: 43°, Harrisburg, PA: 45°, Little Rock, AR: 50°, Shreveport, LA: 51°, Greenville-Spartanburg, SC: 51°, Jackson, KY: 51°-Tied, Washington, D.C.: 52°, Charlotte, NC: 54°-Tied and Lake Charles, LA: 56°.

1989

Thunderstorms developing along a stationary front produced very heavy rain in the central U.S. Thunderstorms during the late morning and afternoon produced 5 to 9 inches of rain around Lincoln, NE, with an unofficial total of 11 inches near Holmes Park. Up to 6.5 inches of rain soaked northern and western Iowa. Shenandoah, IA, reported 5.89 inches of rain causing basement flooding in 80-90% of the homes.

1991

Philadelphia, PA broke its record for most days over 90° when the temperature reached the 90 degree mark for the 50th time. The previous record was 48 days set in 1988.

1997

Fresno, CA received a trace of rain. This is the only day during the month of September that Fresno has recorded any measurable rain.

1998

A severe thunderstorm rapidly developed over the south end of the Las Vegas Valley in Nevada and moved north focusing damaging winds and heavy rain mainly across the eastern half of the metro area. High winds toppled trees in Henderson and downed power lines. Rainfall amounts of 0.75 to 1.20 inches fell in less than 30 minutes in many locations producing widespread street flooding. Henderson Executive Airport recorded wind gusts of 80 mph. Air traffic control personnel temporarily evacuated the airport tower, but no damage was reported. Approximately 15 homes and trailers in Moapa were severely damaged by thunderstorm winds estimated at 80 to 90 mph. Flash flooding also occurred and caused some roadway erosion.

2003

Flagstaff, AZ recorded its 18th day in a row with measurable precipitation, a record for that location. 3.72 inches of rain fell during the period.

Exceptionally heavy rains over the Sahel region in Africa during late August and early September caused flooding that affected regions of Burkina Faso, Mali, Mauritania and Niger. The flooding was responsible for at least 15 deaths and destroyed thousands of homes.

Meteorological events that happened on September 9th:

Today is the latest day of the year in which no snow has been recorded at Cheyenne, WY. Snow has been recorded in Cheyenne on every remaining day of the year from September 9 through the end of the year.

1775

The Independence Hurricane slammed into Halifax, Nova Scotia Canada. Many ships were sunk and buildings demolished. 4,000 people died in what is considered to be Canada's deadliest hurricane disaster.

1821

New England experienced its most significant tornado outbreak in history in terms of widespread destruction. Warm & muggy conditions were in place to setup a major severe weather event, similar the conditions that produced the deadly Worcester, MA tornado in June 1953. The Great New Hampshire Tornado produced a 23 mile path across Sullivan and Merrimack Counties, killing six people, easily making this the most deadly tornado in the history of New Hampshire.

1889

A hurricane that formed east of the Antilles moved north and then northward toward New Jersey. The storm came within 150 miles of Atlantic City, NJ before becoming nearly stationary for 4 days. The storm, one of the greatest storms to affect the shore and ocean, then turned to the southwest toward Norfolk, VA, and dissipated. Atlantic City measured a gust to 100 mph on the 10th. At Philadelphia, PA, rain began on the 10th. This began a period of 12 consecutive days of measurable rain, with a final total of 3.70 inches. Another sudden and damaging storm surge hit Long Island, NY and the Jersey shore during the evening on the 10th, following the 1st surge that hit on the 8th. The storm was located south of Cape Cod and east of Norfolk, VA, when the surge moved in. Considerable hurricane damage occurred along the Atlantic coast, as well as shipwrecks with loss of life. 29 ships were sunk in the Delaware Bay, killing at least 31 sailors. Officially, 40 lives were lost attributed to this hurricane.

1919

300 lives were lost mostly in ships near Key West, where winds were reported at 110 mph as a violent hurricane caused considerable damage. Brick structures had walls blown out and large vessels were torn from their moorings and blown on banks. A tornado destroyed six buildings and damaged 19, injuring six people at Goulds in Dade County. This hurricane killed hundreds more on its track to south Texas. The final death toll of over 600 was mostly in ships at seas.

1921

224 people were killed as a weakening tropical depression dumped 38.2 inches of rain at Thrall, TX. Of that total, 36.4 inches fell in just 18 hours.

1944

The "Great Atlantic Hurricane" ravaged the east coast. The storm killed 22 people and caused \$63 million dollars damage in the Chesapeake Bay area, then besieged New England killing 390 people and causing another \$100 million dollars damage.

1960

Extremely dangerous Category 4 Hurricane Donna was taking aim on the Florida Keys for the first of her four U.S. landfalls. On this date, Donnas' winds peaked at 150 mph with a minimum central pressure of 934 millibars or 27.58 inHg.

1964

Hurricane Dora, the first storm of hurricane intensity to cross into northeast Florida from the Atlantic in 80 years of recordkeeping, moved inland over St. Augustine early on the 10th. St. Augustine was in the eye of the storm and recorded a sea level pressure of 966 millibars or 28.52 inHg. Dora produced sustained winds of around 100 mph, and abnormally high tides to almost all coastal points north of Daytona Beach. Highest sustained winds, from the southwest, and estimated at 125 mph were reported at St. Augustine. Sustained winds of 82 mph were recorded in Jacksonville, and this was the first time in Weather Bureau history that winds of full hurricane force have been observed in Jacksonville. Storm tides reached 12 feet at St. Augustine and ranged between 5 and 10 feet above normal north of Daytona Beach. Wind and tide damage was extensive along the Atlantic coast north of St. Augustine. High winds in the Jacksonville area caused a massive utilities failure. Agriculture sustained considerable damage because of the flooding throughout north Florida. One death and 8 injuries were reported from Dora.

1965

One day after striking extreme southern Florida, Hurricane Betsy struck southeastern Louisiana, with the eye crossing Grand Isle. Tremendous damage was reported along the coast from the point of landfall east to Mobile, AL. New Orleans, LA was flooded when power to its elaborate pumping stations was knocked out. 58 people died in Louisiana. Betsy became the first billion dollar hurricane with losses totaling \$1.4 billion dollars.

1971

Hurricane Ginger formed, and remained a hurricane until October 5th. The 27.25 day life span remains the longest on record for any hurricane in the Atlantic basin. The overall record is Hurricane John in the eastern Pacific in 1994; lasting 31 days.

1976

Record rains that started on this day and ended on the 12th came from Tropical Storm Kathleen (called a 160+ year event by Meteorologists). 14.76 inches fell on south slopes of Mt. San Geronio, 10.13 inches at Mt. Laguna, 8 inches at Mt. San Jacinto, Over 4 inches in the Little San Bernardino Mountains, and 1.8 to 2.8 inches in the Coachella Valley. Deep Canyon (above La Quinta) recorded 2.96 inches in three hours on the 10th. Rainfall in the Santa Rosa Mountains above the Coachella Valley was called the "heaviest in recorded history." Six were buried and killed in sand in Ocotillo. Floods of record were attained at numerous streams around the Coachella Valley. This occurred during the El Niño of 1976-77. Hurricane Kathleen also brought the southwest the highest sustained winds ever associated with an eastern Pacific tropical cyclone with sustained winds of 57 mph at Yuma the next day.

1978

The U.S. Coast Guard began the first of 122 search and rescue efforts as a sudden, early season gale swept through the albacore tuna fleet, which was 80 miles offshore Washington and Oregon. Six boats sank and two people perished. One fisherman floated for 22 hours in a survival suit before rescued.

1983

On this date through the 10th, strong winds blasted through east central South Dakota, leaving in its wake damaged crops, hundreds of downed trees, broken windows, damaged roofs and buildings, downed power poles, and damaged vehicles. Gusts of up to 75 mph in Huron moved a semi trailer one-half block into a truck. Standing crops of corn, beans, and sunflowers suffered extensive damage in many areas with losses up to 50% reported.

1987

Thunderstorms in West Texas spawned four tornadoes in the vicinity of Lubbock, and produced baseball size hail and wind gusts to 81 mph at Ropesville. Thunderstorms produced hail two inches in diameter at Downs, KS and Harvard, NE, breaking car windows.

1988

Florence became a hurricane and headed for the Central Gulf Coast. Florence made landfall early the next morning, passing over New Orleans, LA with winds gusting to 61 mph. Wind gusts to 80 mph was recorded at an oil rig south of the Chandeleur Islands. Total property damage from Florence was estimated at \$2.5 million dollars.

1989

The first snow of the season began to whiten the mountains of Wyoming early in the morning, as for two days a moist and unusually cold storm system affected the state. By the morning of the 11th, a foot of snow covered the ground at Burgess Junction.

Thunderstorms developing along a cold front crossing the Ohio Valley produced severe weather in Indiana during the late afternoon and early evening hours. Strong thunderstorm winds blew down a tent at Palestine injuring seven people, and frequent lightning interrupted the Purdue and Miami of Ohio football game, clearing the stands.

1990

Birmingham, AL recorded an afternoon high of 99°. This was their 32nd consecutive day with readings of 90° or higher, which broke the previous record of 31 days set in 1954.

1994

The temperature rose from 67° at 5:02am to 97° by 5:17am at Glasgow, MT. The heat burst was short-lived as the temperature dropped back to 68 degrees 23 minutes later.

Hurricane John became extratropical in the north central Pacific Ocean, ending its 31-day life span as a tropical cyclone, the longest lived storm on record.

2002

6.62 inches of rain fell at Nimes, France in six hours. Their average September rainfall is 2.56 inches. In the town of Orange 2.68 inches fell in six hours, with 1.81 inches falling in just one hour. Their average September rainfall is 3.47 inches. The storms responsible for the wet weather killed 20 people in southeastern France where some mountain regions reported close to two feet of rain.

2004

Western and central New York was inundated by drenching rains as the remnants of hurricane Frances drifted north. Area-wide rainfall totaled 3 to 5 inches with the bulk of it falling in a 6 to 9 hour period from very late on this date into the next day. At least one person was killed. Across the border, heavy rains of close to 4 inches over southern Quebec Canada. Local rainfall

amounts included: 3.78 inches fell at L'Assomption, 3.90 inches in St-Jovite and 3.94 inches at High Falls.

2008

Nome, AK reached a high temperature of 62°, which tied the high temperature record for the date and represented the third day during the month that a high temperature record was either tied or broken.

September 10th:

Today is the climatological peak of the Atlantic Hurricane Season.

1811

As a tropical storm passed near Charleston, SC, it produced a significant tornado that moved northwest across the center of the city. 60 homes, many of them mansions, were destroyed. 11 people were killed.

1900

South Dakota registered its maximum 24 hour precipitation record as 8.01 inches of rain fell at Elk Point.

1917

Duluth, MN saw its earliest freezing temperature reading with a record low of 31°.

1919

A hurricane struck the Florida Keys drowning more than 500 people.

1944

Navy and Army Air Force B-24 Liberator planes flew into the "Great Atlantic Hurricane" from September 10th through the 15th. These were the first sanctioned military flights to obtain data on a hurricane. The data sent back was instrumental in helping hold the death toll from the destructive hurricane to 27 people.

1960

Hurricane Donna crossed over the middle Florida Keys between 2 and 3am on the 10th. After keeping a short distance offshore it reached the coastline again south of Naples and then turned north over Ft. Myers, then more northeastward, going out to sea a short distance north of Daytona Beach. At Sombrero light on the Keys, the highest wind speed was 106 mph with gusts to 150 mph. At Tavernier, the highest winds were 120 mph, which was the highest point on the dial. Maximum sustained winds on the Keys were estimated around 140 mph, with gusts possibly as high as 175 mph to 180 mph. The lowest barometric pressure reported was at Craig Key where three barometers ranged from 27.40 to 27.50 inHg. The pipeline supplying the Keys with fresh water was broken in at least three places. The Overseas Highway was overflowed by storm tides at several places. 75% of the buildings and docks between Marathon and Tavernier were damaged or destroyed. Fort Myers was in the eye for 71 minutes. In the Citrus Belt, most of the avocado crop was blown from the trees. Wind damage was enormous on the Keys and on the southwest coast from Everglades City to Punta Gorda. Rainfall ranged from 5 to 10 inches in an 80 to 100 mile wide belt extending roughly 50 to 75 miles to the right of the storm track and 40 to 50 miles to the left of the track. Lake and stream overflow forced evacuation of some homes on the central peninsula. High waters also closed many roads and inundated considerable agricultural land throughout the southern and central peninsula. At least a dozen people were killed in Florida and 1,794 injuries reported. Once offshore, Donna accelerated north and made landfall during the early morning on the 12th on the North Carolina coast near Wilmington with sustained winds of 105 mph with gusts to 115 mph and a minimum central pressure of 958 millibars or 28.29 inHg. Charleston, SC reported a wind gust to 121 mph. Donna continued northward making another landfall on Long Island, NY shortly after noon on the 12th with sustained winds near 100 mph and a minimum central pressure of 965 millibars or 28.50 inHg. Blue Hill Observatory, MA reported a wind gust of 138 mph. Donna transitioned to an extratropical cyclone over Maine two days later before moving into the Canadian Maritimes, producing more than 5 inches of rain. Overall, Donna claimed at least 364 lives and caused more than \$900 million dollars damage.

1961

As the center of Hurricane Carla approached the Texas coast, reconnaissance aircraft indicated a central pressure of 931 millibars or 27.49 inHg just prior to landfall with maximum sustained winds of 150 mph. When the center of Hurricane Carla made landfall early in the morning of the 11th, the intensity had weakened slightly but the storm was still packing winds of 120 mph in areas from Port O'Connor up the coast to Galveston. Port Lavaca, recorded the lowest pressure anywhere on land at 935 millibars or 27.61 inHg before the needle dipped below the reported scale. Storm tides reached 10 to 15 feet all along the beaches east of the storm's landfall to Galveston, 120 miles away. The maximum storm surge height recorded was 18.5 feet. Bay City, TX received 17.48 inches of rain. The highest reported sustained wind speeds were 115 mph in Matagorda, 110 mph in Victoria and 88 mph in Galveston. Peak wind gusts were estimated at 150 mph in Victoria and 175 mph at Port Lavaca. Corpus Christi, TX reported a peak wind gust of 81 mph at the tower of the Weather Bureau Office, before the instrument failed. Carla was a huge storm, with her circulation affecting the entire Gulf of Mexico. Carla also spawned a tornado which

swept across Galveston Island killing 8 people. Overall, 45 people died and damage was estimated at \$408 million dollars. The remnants of Carla produced heavy rain in the Lower Missouri Valley and southern sections of the Upper Great Lakes Region.

1963

Paishih, Taiwan received 49.13 inches of rain in association with a Super-Typhoon.

1964

Dora was the first hurricane to cross the coast of northeast Florida from the Atlantic. The storm made landfall near St. Augustine with sustained winds of 100 to 110 mph, gusts to 125 mph and a minimum central pressure of 966 millibars or 28.53 inHg. Tides reached 12 feet above normal, four feet higher than ever recorded previously. Jacksonville, FL recorded their first ever hurricane force winds of 82 mph. 23.73 inches of rain was recorded at Mayo, FL. Damage totaled \$280 million dollars.

1965

After ravaging the Florida Keys on the 8th, Hurricane Betsy slammed in Louisiana with sustained winds of 125 to 130 mph and a minimum central pressure near 948 millibars or 28.00 inHg. Houma, LA reported a wind gust of 130 mph. There were as many as 76 deaths and thousands injured. The storm surge and flooding from torrential rains caused an enormous amount of damage making this the greatest insured property loss in the U.S. up to the time. Betsy is known as first billion dollar hurricane with damage exceeding \$1.4 billion dollars.

1969

Birmingham AL dipped to 49°; their earliest recorded temperature under 50°. Other record low temperatures included: Atlanta, GA: 49°, Tupelo, MS: 50°, Chattanooga, TN: 50°-Tied, Montgomery, AL: 52°, Meridian, MS: 52°-Tied, Macon, GA: 52°-Tied and Tallahassee, FL: 54°.

1972

Violent thunderstorms produced high winds, tornadoes and very heavy rains over portions of west central and southwest Iowa. The Council Bluffs area received wind damage and Shelby and Audobon Counties experienced a tornado which severely damaged one farm. Rainfall totals in the three days from this date through the 12th were very impressive. Harlon, Iowa received 21 inches with 12.49 inches occurring on one day. Hundreds of families were left homeless from the flooding and losses of crops and buildings totaled nearly \$20 million dollars.

1976

Tropical Storm Kathleen moved northward from the Baja into the desert region of southern California; officially weakening to a depression just before crossing into the U.S. Yuma, AZ reported sustained winds of 57 mph, the highest on record associated with an eastern Pacific tropical cyclone in the southwestern U.S. San Diego, CA reported 50 mph wind gusts. A wall of water left a 700 foot wide, 40 feet deep gap at the Myer Creek Bridge on I-8 in Ocotillo, CA. The 4 to 6 foot high wall of water destroyed 70% of the homes. Daggett, CA received 2.28 inches of rain which was the greatest one day amount in recorded history. Overall, five people died and damage was estimated at \$333 million dollars.

1982

A small tornado damaged a farm house at Wilmot on Prince Edward Island, Canada.

1987

A late afternoon thunderstorm moved through Austin TX producing wind gusts to 81 mph, and 2.17 inches of rain in one hour. The high winds toppled 6 National Guard helicopters at the Robert Mueller Municipal Airport, and damaged or destroyed numerous other aircraft.

1988

Hurricane Florence passed well west of Florida, making landfall near New Orleans, but heavy rains of 5 to 10 inches on the eastern fringes caused flooding that damaged 39 homes and three businesses. At one time on the 11th, 50 people were stranded in their homes and 17 roads were washed out.

Thunderstorms developed across south central sections of South Dakota bringing too little rain, too late in the year to help much. To add insult to injury lightning started numerous fires in the parched range lands. The fires burned nearly 14,000 acres of grassland and some 4,000 acres of timber. The resulting damages exceeded \$60,000 dollars.

Cool air sweeping into the north central U.S. brought snow to some of the higher elevations of Montana. The town of Kings Hill, southeast of Great Falls, was blanketed with 6 inches of snow.

Tropical Storm Gilbert strengthened to a hurricane over the eastern Caribbean Sea.

1989

A tropical depression formed off the western coast of Africa. The depression would grow into an intense Cape Verde hurricane known as Hugo, which would cause tremendous destruction across the Caribbean and eventually in South Carolina.

Light snow fell in Montana during the overnight hours, with 3 inches reported at Fairfield. Sheridan, WY & Billings, MT reported record lows of 28° & 33° respectively.

Unseasonably warm weather prevailed in the northeastern U.S., with record highs: Burlington, VT: 90°, Milton, MA: 90°-Tied, Burlington, VT: 90°-Tied, Islip, NY: 89° and Caribou, ME: 86°.

1990

Borrego Springs, CA hit 117°, their hottest September temperature. This record was tied the next day.

1998

Tropical Storm Frances made landfall near Matagorda Bay, TX, causing the worst coastal flooding and beach erosion since Hurricane Carla in 1961. The storm's heavy rains ended a drought in East Texas, but caused serious river flooding in parts of Texas and Louisiana. The highest rain total noted was 21.10 inches at Terrytown in southeast Louisiana. A major disaster declaration was issued for Cameron, Jefferson, Lafourche, and Terrebonne parishes in Louisiana.

1999

Straight line winds caused extensive damage at the Ardmore Industrial Park in Carter County, two miles northeast of Gene Autry, where a gust of 102 mph was measured. One aircraft hangar was completely destroyed and several were damaged. Several aircraft were overturned and three were destroyed. Damage was estimated at \$2 million dollars.

2008

Hurricane Ike emerged in the south-central Gulf of Mexico heading for the Texas coast with maximum sustained winds of 100 mph and a minimum central pressure of 945 millibars or 27.91 inHg.

2009

Honolulu, HI tied a record high of 92° while Molokai, HI set a record high of 91°.
