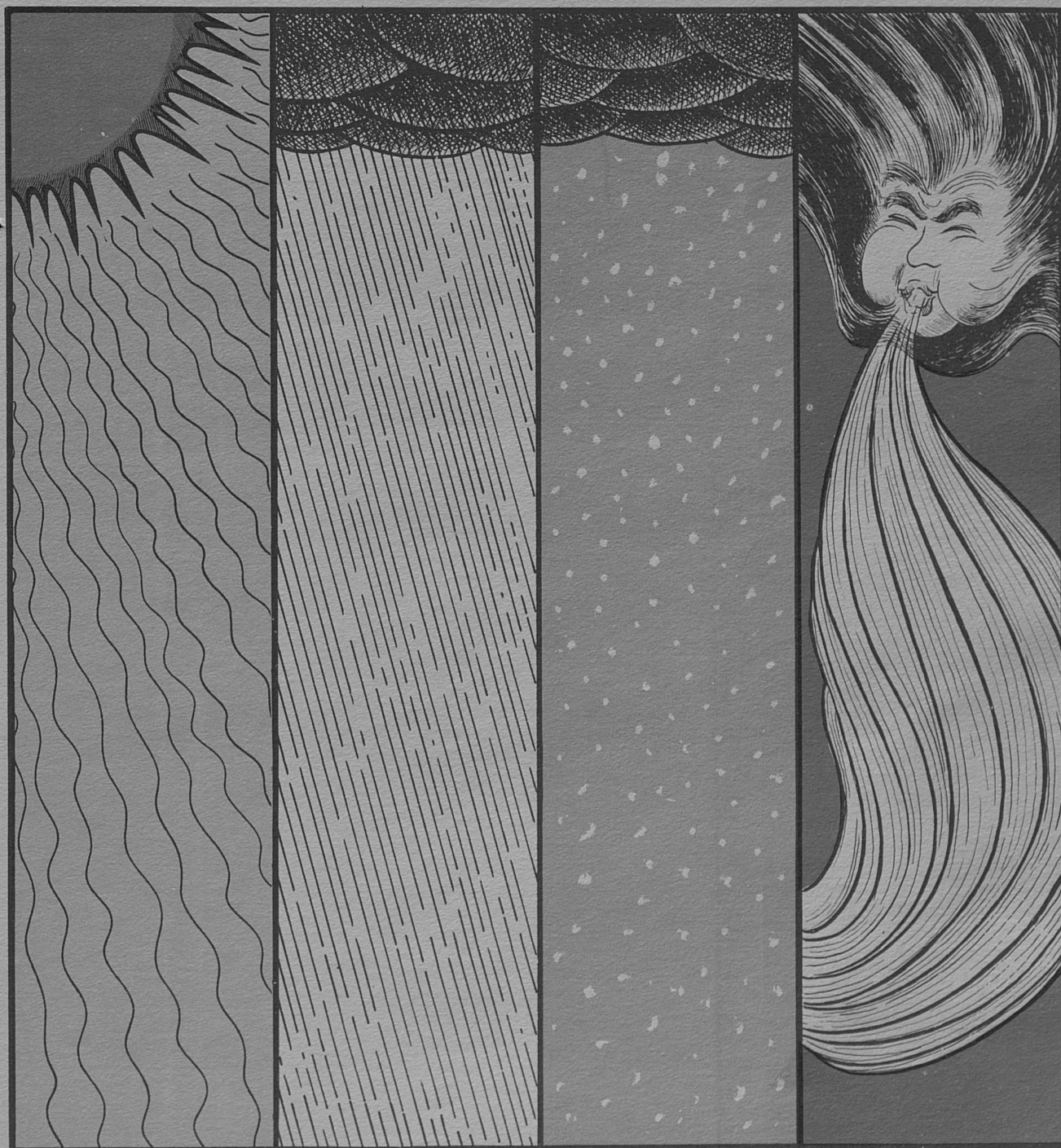


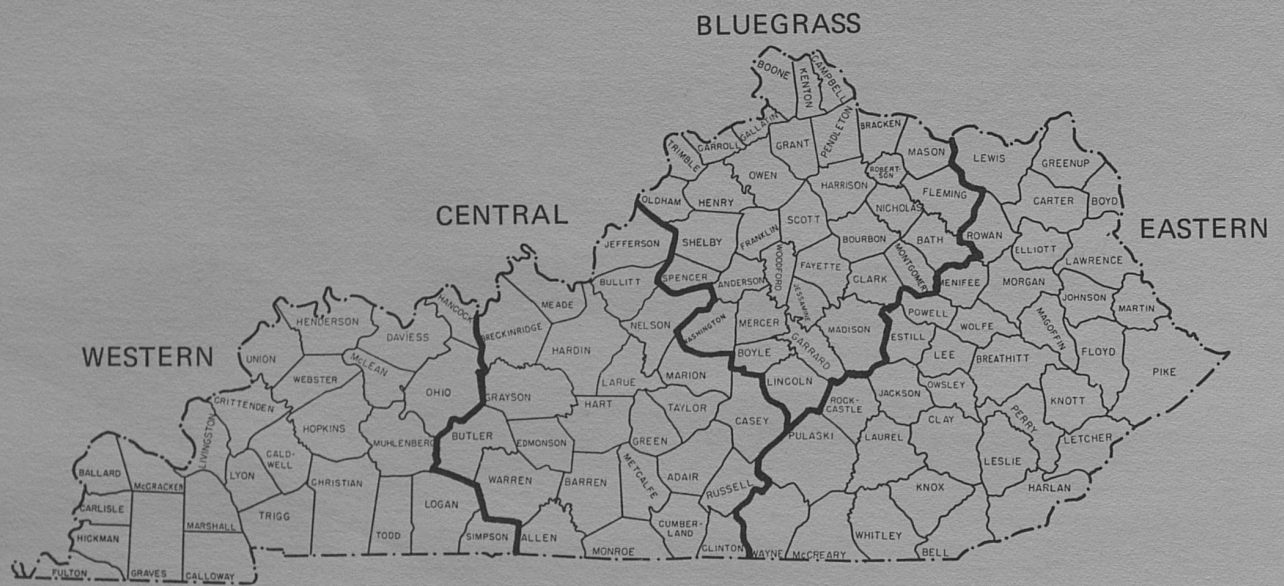
PROGRESS
REPORT 221

by JERRY D. HILL

CLIMATE OF KENTUCKY



UNIVERSITY OF KENTUCKY • COLLEGE OF AGRICULTURE • AGRICULTURAL EXPERIMENT STATION
Department of Agronomy • Lexington



Kentucky climatic divisions.

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CLIMATE OF KENTUCKY

*By Jerry D. Hill**

Kentucky has a number of natural resources, but among the most important is an extremely agreeable climate. If one were to design a climate suitable for a wide-range of activities, it would likely be similar to that which dominates the Bluegrass state. Precipitation is ample without a pronounced dry season, and temperatures are moderate during both winter and summer. There is a minimum of snowfall to disrupt transporation and commerce during the winter. Among the many systems used to classify the climates of the world, the word temperate is most commonly found as a description of the kind which Kentucky enjoys.

The ideal nature of Kentucky climate is apparent in its agriculture where production is seldom seriously limited by weather factors. The evenly-distributed rainfall keeps an ample supply of water in most rivers year-round and allows major streams to be impounded to form large lakes providing a source of recreation to millions.

While the long-term average weather conditions may seem ideal, there are ranges within which it usually varies and extremes which may be reached. In any type of long-range planning it is useful to know the average conditions for a particular location as well as the extremes. For this reason, a study has been made of the various weather factors over a long period of time to determine the climate.

To determine the average weather conditions, it is necessary to have continuous weather observations from many locations. Most climatologists feel that a minimum of 30 years of observations is required to properly document the long-term average. In Kentucky, numerous dedicated volunteer weather observers have taken daily weather observations of temperature and precipitation for many years. Many of these observers are private citizens such as farmers, businessmen, and housewives, while others are the personnel of radio stations, educational institutions, utility companies, or some other organization which rotates the duty among its employees.

In each case, the daily observations are made in a spirit of service to an individual's community and fellow man. There are many examples of exemplary service among this group, such as Mr. and Mrs. Cecil Lovell who have been taking daily weather observations at their home in Greenville since 1916. Mr. Frank Street, of Henderson, has the enviable record of maintaining a weather station on his farm with an unbroken string of observations dating back to the day he started on Sept. 1, 1936. It is to all of these devoted volunteers that this study of Kentucky's climate is dedicated.

WEATHER SYSTEMS AFFECTING KENTUCKY

Almost all of the United States comes under the influence of high and low pressure centers which move across the country bringing irregular and sometimes dramatic changes in the weather. These pressure centers are responsible for distinct types of weather as they move generally from west to east. The low pressure centers have rain and cloudiness associated with them, while high pressure centers are usually accompanied by clear skies and fair weather. These pressure systems have favored regions where they tend to form and preferred routes which they follow as they move across the country. Kentucky is one of the states which finds itself in the path of frequent passages of these weather-makers, causing considerable variability in the day-to-day weather.

During the winter the pressure centers move along paths which cross much of the continental United States bringing changeable weather to most states. In the summer the paths are drawn northward over the Great Lakes and Canada so there are less frequent changes in Kentucky's weather and more prolonged periods of warm temperatures. Often, during the summer, a high pressure center will become stationary along the eastern coast of the United States. Southerly winds on the western side of the high will bring moisture from the Gulf

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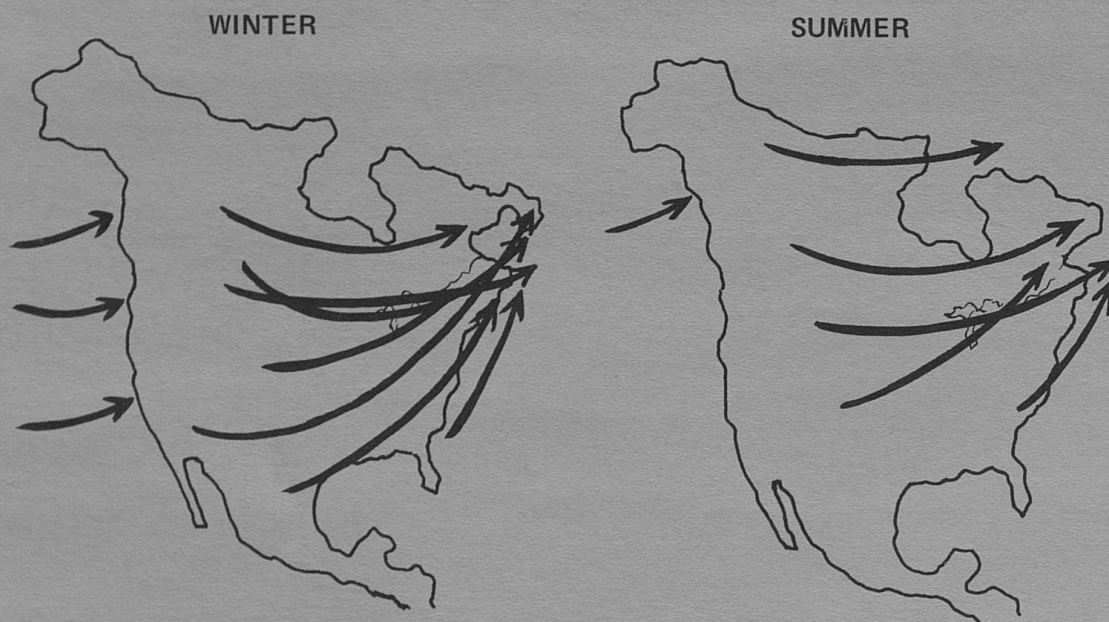


Fig. 1.—Preferred tracks of low pressure centers.

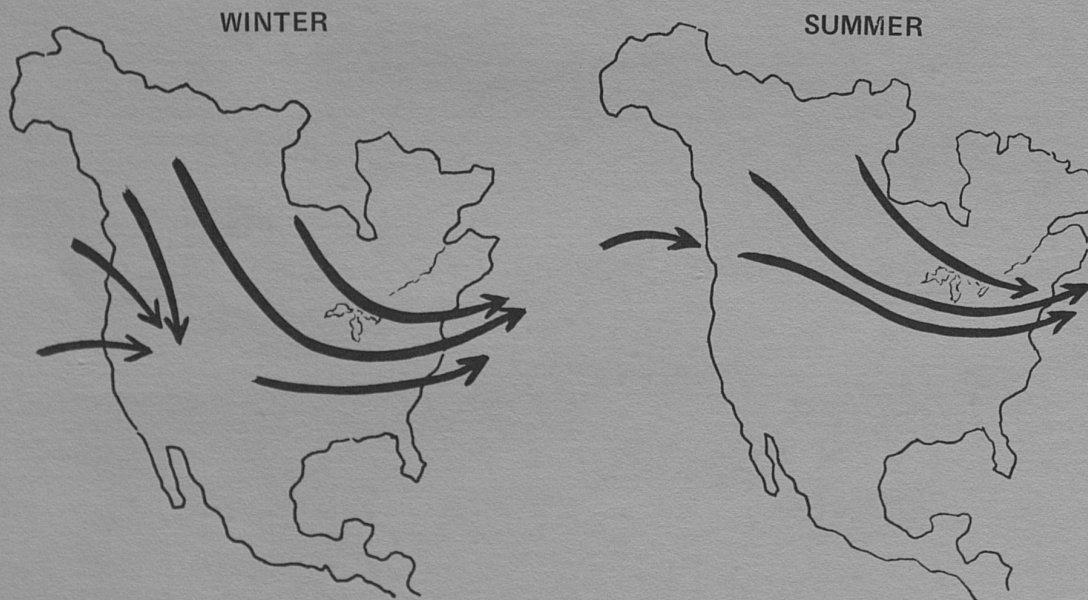


Fig. 2.—Preferred tracks of high pressure centers.

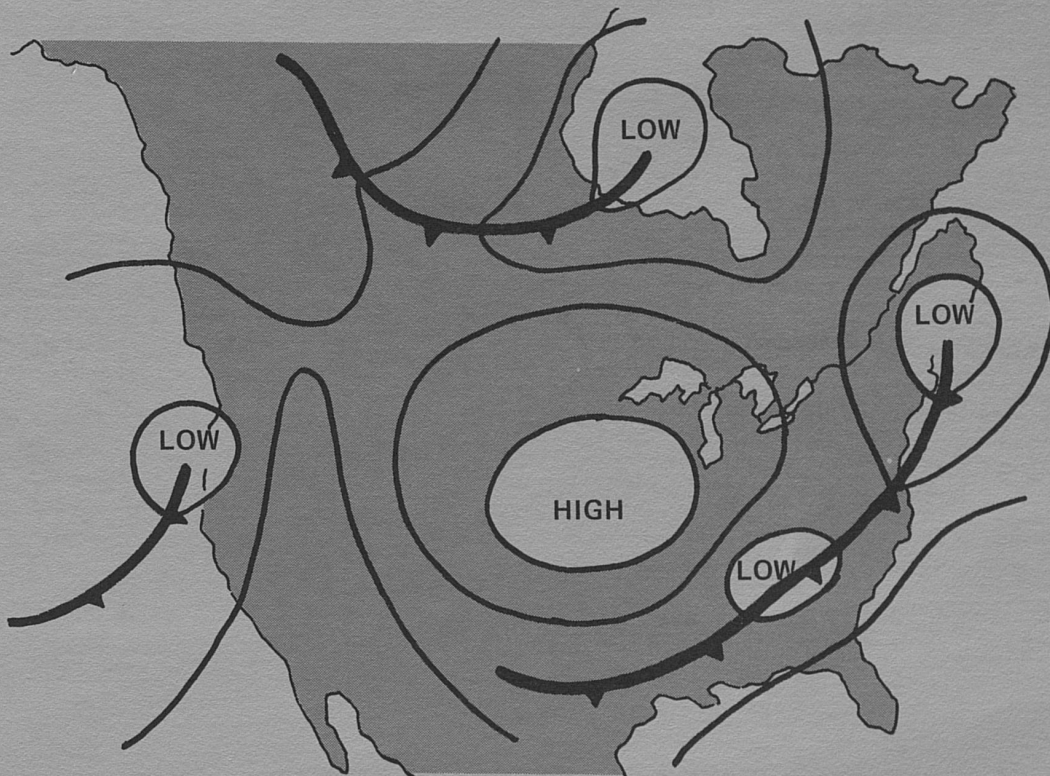


Fig. 3.—Typical winter weather pattern.

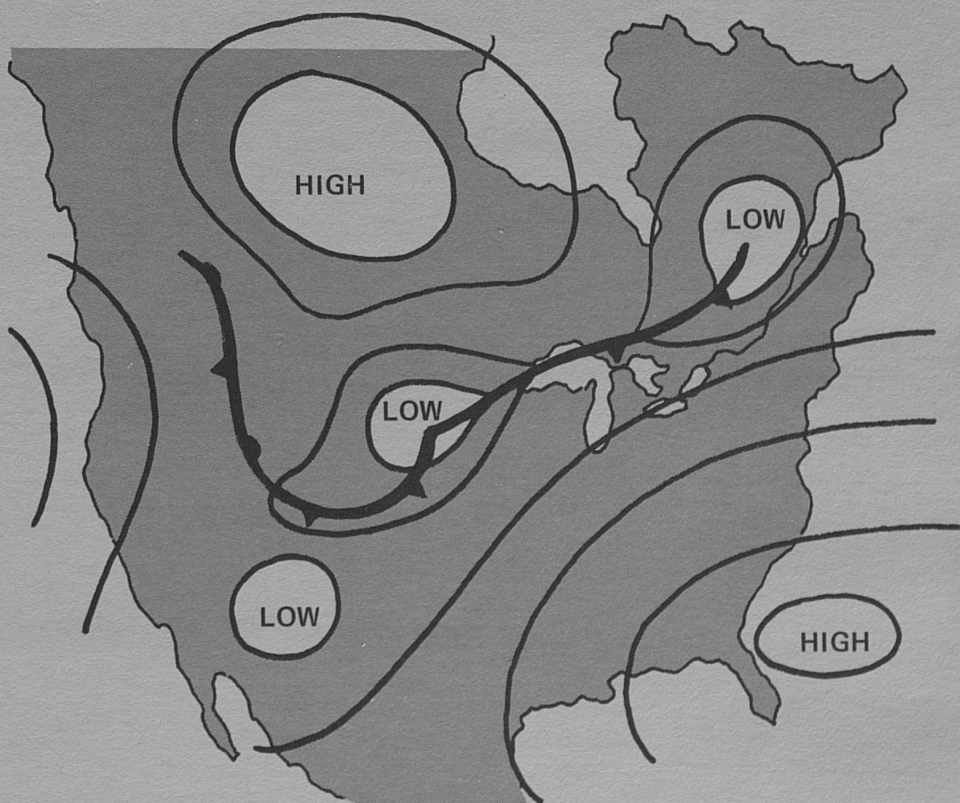


Fig. 4.—Typical summer weather pattern.

of Mexico northward up the Mississippi Valley into Kentucky where showers tend to develop during the afternoon when daytime heating causes air to rise. This weather pattern may persist for several days until a shift in the wind brings drier air from a continental region.

PRECIPITATION

The regular movement of low pressure systems across Kentucky during the winter brings frequent precipitation to all sections. During the summer, the showers which develop bring generally ample rainfall from June through August. If a dry season could be said to exist in Kentucky it would be during September and October when the high pressure dominating the southeastern United States extends into the Mississippi Valley and blocks out some of the moisture available from the Gulf of Mexico. Average rainfall totals for October are 2 to 3 inches, making it normally the driest month of the year.

Greatest monthly rainfall occurs during March when amounts of 4 to 5 inches are normally expected. During the remainder of the months, except October, rainfall averages from 3 to about 4.5 inches. On rare occasions, rainfall observers have reported an entire month with less than a measurable amount of precipitation. The greatest monthly total was 22.97 inches reported at Earlington in January 1937. Average monthly precipitation for each of the state's four climatic divisions (see inside of front cover) is shown in Table 1. Averages for the period 1941-70 at 81 locations in the state are included in Appendix II.

Total annual precipitation averages about 45 inches. The range is from about 39 inches along the Ohio River in extreme northeastern Kentucky to 50 inches in south central Kentucky. The greatest

annual total ever reported from an official observing station was 79.68 inches at Russellville during 1950.

The mountains of eastern Kentucky form a barrier to the eastward movement of air which might normally be expected to increase precipitation amounts owing to the additional lifting as the air is forced over them, but this is not apparent in the weather observations from that region. Average annual rainfall in that section of the state is about 43 to 45 inches. One possible reason for the lack of widespread observations of increased rainfall over the mountains is that the prevailing winds are southwesterly nearly all year, causing the air to move along the prominent ridge lines rather than being lifted over them.

The frequent passage of low pressure centers, especially during the cooler season is apparent in the data showing the number of days with 0.01 inch or more of precipitation each month. On the average, at any particular location there will be about a dozen days with precipitation each month from December through May. Summer showers at any location are somewhat less frequent but can be expected to occur on about 7 or 8 days each month during August, September, and October.

Snowfall is limited in many sections of Kentucky and ranges from about 5 to 10 inches a year in southwestern Kentucky to nearly 25 inches in some of the northeastern sections and 40 inches at higher locations in the southeast. Usually, less than 5% of Kentucky's annual precipitation total is received in the form of snow. Extremely heavy snowstorms have occurred in the state with accumulations in excess of 12 inches during a single day. On March 9, 1960 more than 18 inches of snow fell on Bowling Green in a single day. For that entire month, Cumberland recorded 46½ inches of snow. Generally, the heaviest snowstorms occur during March because the air has become

Table 1.—Average Monthly Precipitation (inches).

Climatic Division	Month												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Western	4.23	3.81	5.09	4.23	4.43	3.95	3.79	3.33	3.19	2.58	3.85	3.90	46.38
Central	4.16	3.89	5.08	4.19	4.35	4.42	4.39	3.45	3.04	2.47	3.74	3.92	47.10
Bluegrass	3.79	3.40	4.74	3.97	4.11	4.19	4.66	3.43	2.95	2.22	3.39	3.35	44.20
Eastern	4.02	3.86	4.67	3.89	3.93	4.19	4.97	3.68	3.13	2.40	3.45	3.77	45.97

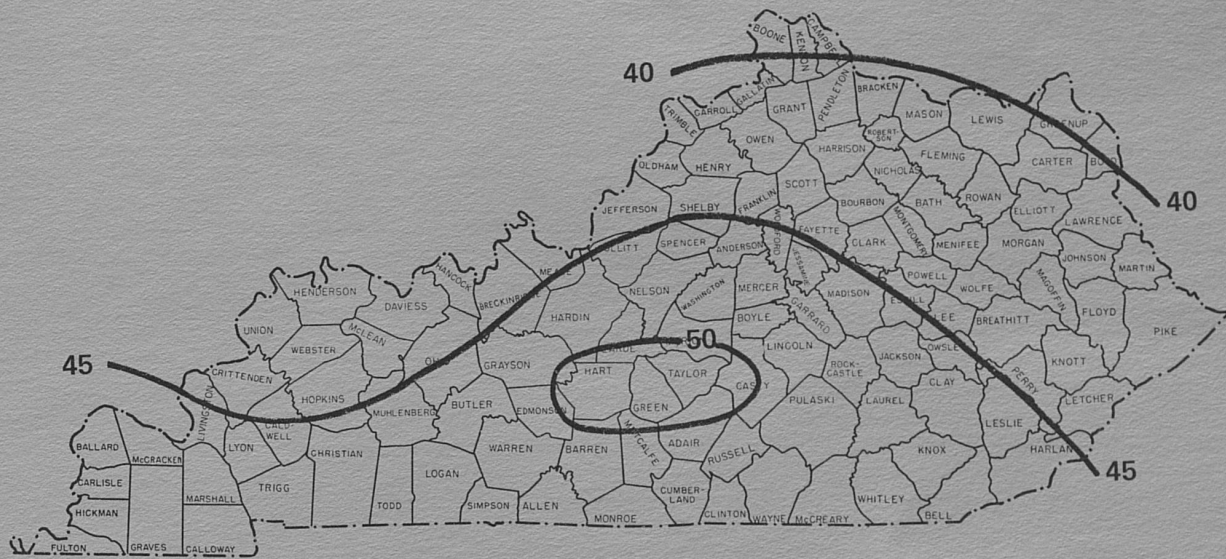


Fig. 5.—Mean annual precipitation (inches).

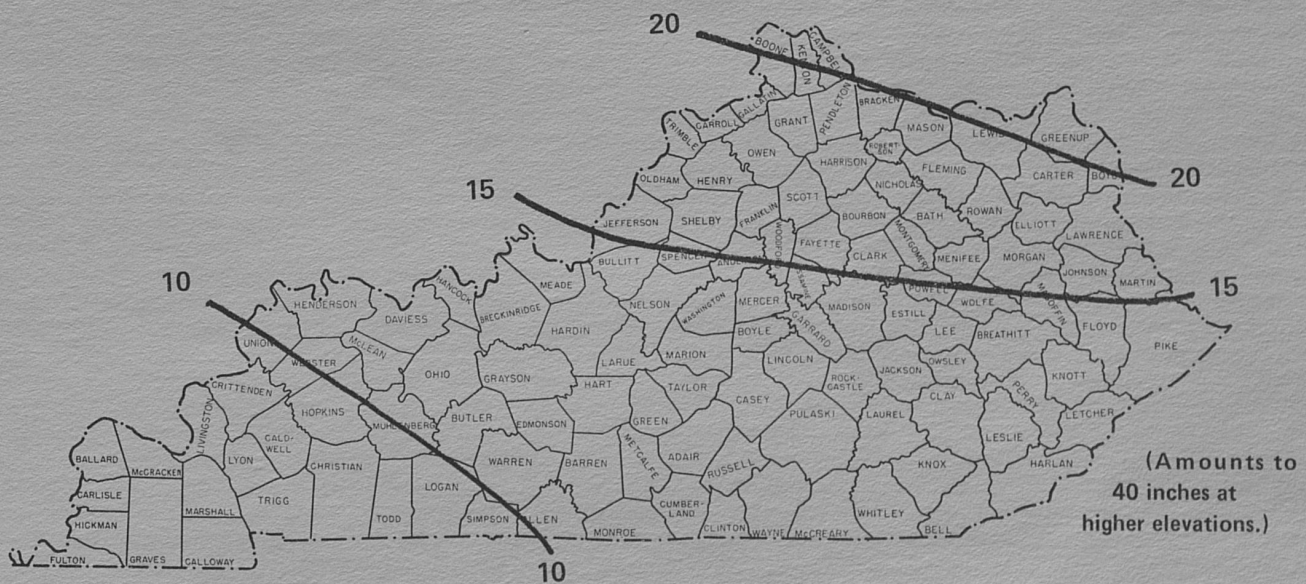


Fig. 6.—Mean annual snowfall (inches).

somewhat warmer than in January and can hold more moisture. Brief periods of warm weather which often develop even during mid-winter cause any snow accumulation to melt rapidly. The total number of days when snow covers the ground to a depth of one inch or more at any particular point averages only 10 days a year in western Kentucky and 25 days in the east.

TEMPERATURE

Kentucky has a large annual temperature cycle typical of a mid-continent climate at this latitude. January is normally the coldest month of the year, while July is the warmest. The difference in mean temperature between these 2 months is about 40F degrees. The mean annual temperature

in Kentucky ranges from about 58°F in the southwest to 54°F in the northeast. Monthly and annual mean temperatures for the period 1941-70 are shown in Appendix I for 34 locations in Kentucky.

The coldest temperature usually experienced in winter is around 0°F or a few degrees below. The extremes range down into the -20s, though, at many locations in the state. The coldest ever observed at an official weather observing station in Kentucky was -34°F, which occurred at Bonnieville in Hart County on Jan. 24, 1963 and also at Cynthiana on Jan. 28, 1963. Generally, the coldest temperatures in the state occur in the central and northeastern portions but considerable variability is reported, owing to the irregular topography in Kentucky. On clear nights when polar air covers the state, cold air has a tendency to drain into the lower elevations where temperatures may sometimes be substantially lower than on an adjacent ridge.

The warmest readings observed in Kentucky have occurred in the western and central portions of the state. The record high was reported at Greensburg on July 28, 1930 when the mercury reached 114°F. Similar readings have been reported at other locations and other times, such as 113 at Henderson; 111 at Frankfort; with 110 at Beaver Dam, Murray, and Princeton.

The prevailing weather patterns over the United States combine with Kentucky's topog-

raphy to create an unusual pattern of the average annual temperature.

Normally, temperatures would be expected to be warmer in the southern portions of the state and cooler in the north. However, strong southerly winds, especially in the summer, are more pronounced across western Kentucky and tend to bring warm air from lower latitudes into that region much more effectively than into the eastern sections. This results in the warmest temperatures occurring in the southwest and coolest in the northeast.

The exact pattern of mean temperature across the mountains of eastern Kentucky is still relatively unknown. There are few locations in that region which have long records of temperature observations, and those are generally located in the valleys. One of the longest records in eastern Kentucky is from Pikeville; however, the thermometers there have been located downtown near the post office and close by a paved parking lot. Such a location is normally warmer than an open, exposed site over grass where weather stations are usually placed, and the long-term averages from Pikeville reflect this. Anyone using the temperature averages from Pikeville should realize that the weather may be considerably cooler in surrounding Pike County than in the downtown area.

An interesting temperature statistic for Kentucky is the occurrence of temperatures above 90

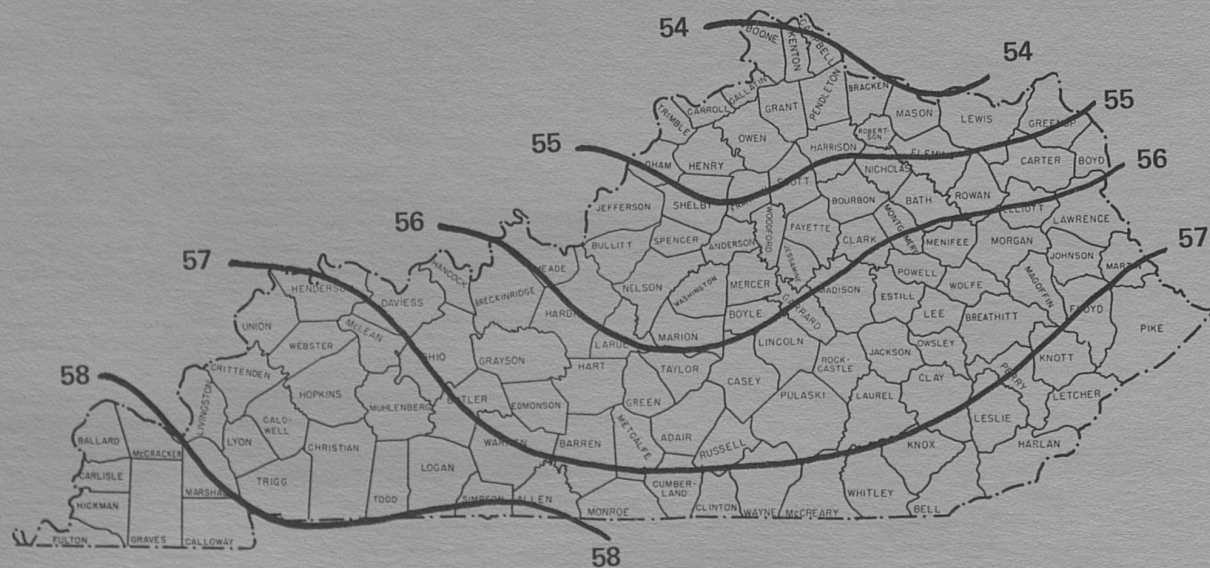


Fig. 7.—Mean annual temperature in Kentucky.

degrees. In the western portion of the state temperatures rise above the 90 degree mark on 50 to 60 days per year. The same occurs on about 40 to 50 days in the central sections and 30 to 40 days in the southeast. The northeast has even fewer hot days, with temperatures in the area from Lexington to Ashland rising above 90 degrees only 15 to 20 days a year.

A similar study can be made for the persistence of cold weather during the winter by examining the number of days when the temperature fails to rise above freezing.

Temperatures can be used for estimating the consumption of heating fuel during the year by calculating the "heating degree days." These are the number of degrees the average daily tempera-

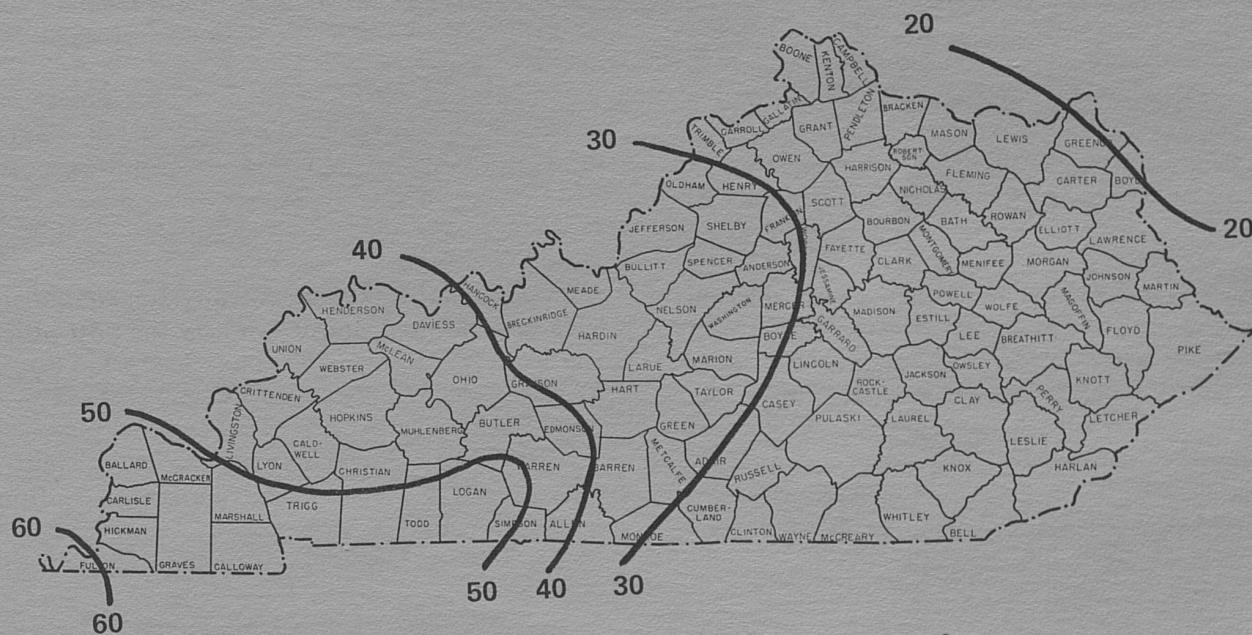


Fig. 8.—Average number of days a year with maximum temperature 90°F or more.

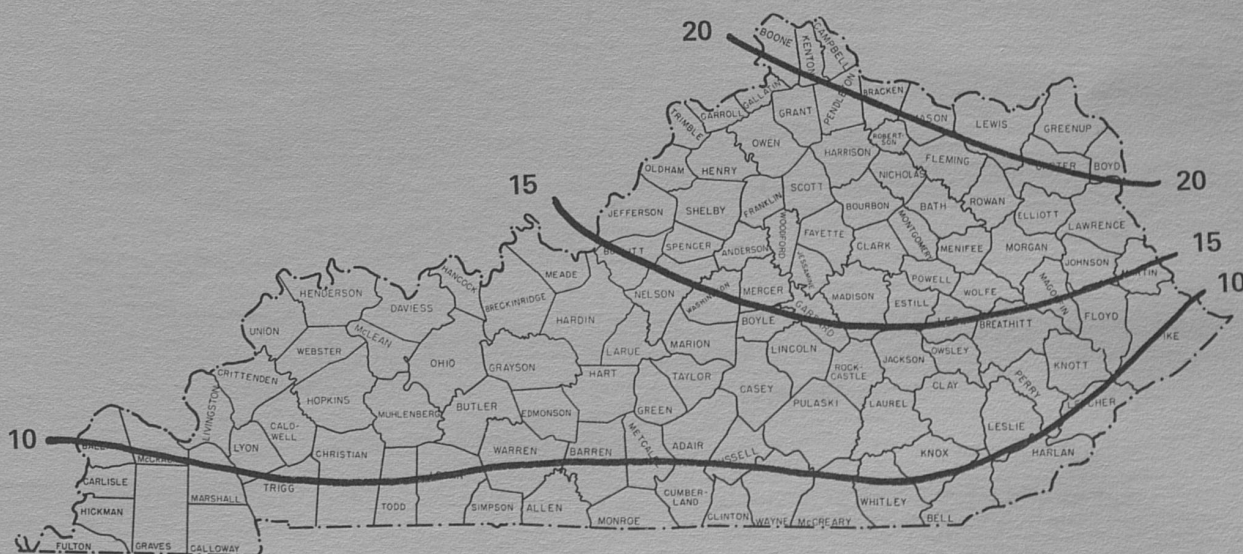


Fig. 9.—Mean number of days a year with maximum temperature less than or equal to 32°F.

ture falls below 65°F . The daily total can be added together from the first day of the heating season to the last and variations in the totals correlate closely with variations in fuel use. For example, one location which accumulates 10% more of these heating degree day units than another would probably require 10% more fuel to keep the same type of home at the same level of comfort. The average annual accumulation of heating degree days in Kentucky ranges from about 4,000 in the south and west to about 5,000 in the north. The actual pattern is shown in Fig. 10a. These totals compare with about 2,500 per year in

Birmingham, Ala., and over 10,000 per year in International Falls, Minn.

A similar method can be used for anticipating the energy requirements for air conditioning. In that case, the number of degrees the average daily temperature exceeds 65°F is calculated and the values added together as the cooling season progresses. These are called "cooling degree days." In most Kentucky locations a few of these cooling degree days begin to accumulate in March and continue into October. The long-term average accumulation ranges from about 1,000 to 1,600 across the state, and the pattern is shown in Fig. 10b.

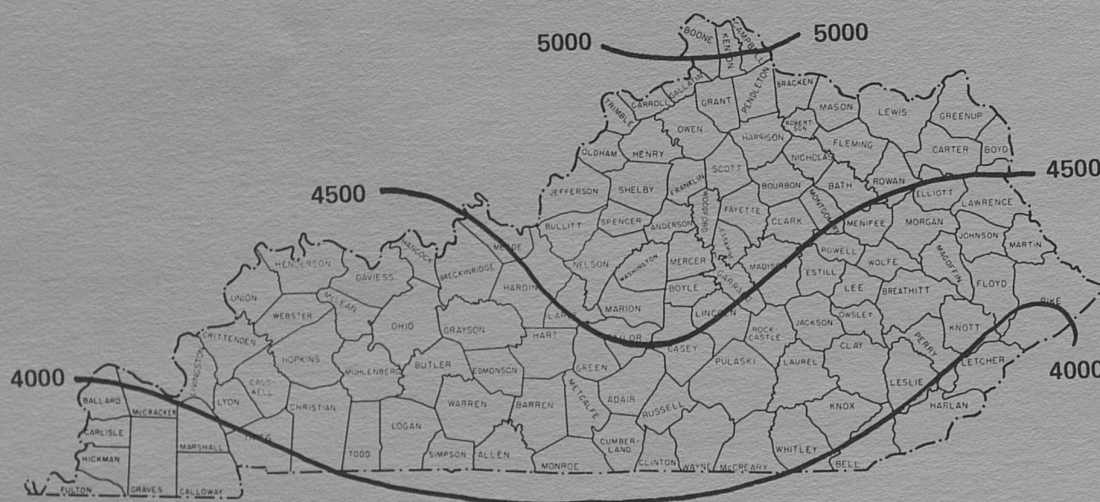


Fig. 10a.—Mean annual heating degree day totals.

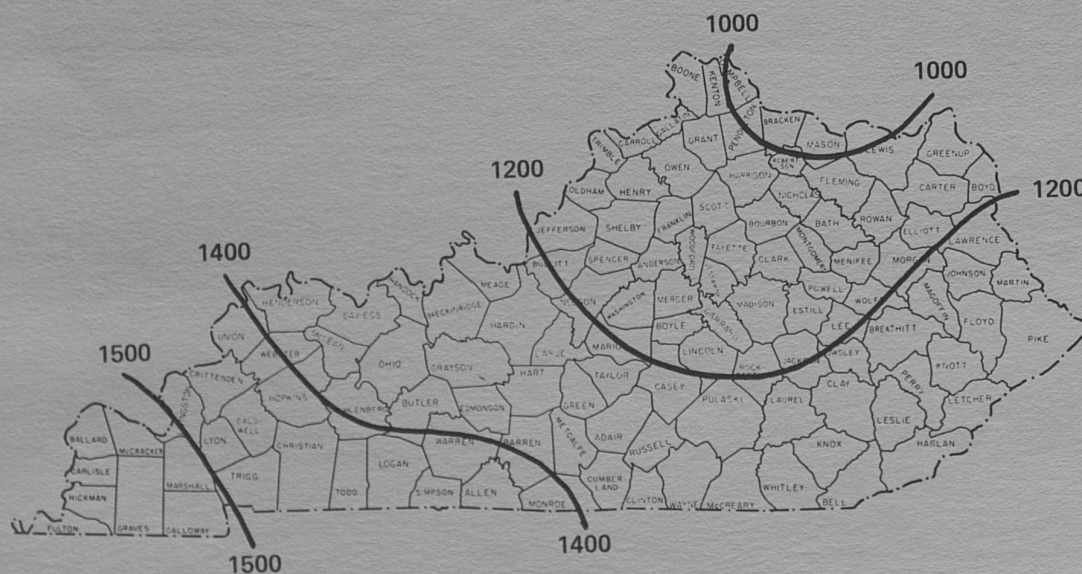


Fig. 10b.—Mean annual cooling degree day totals.

FROST AND FREEZES

Closely related to the temperature distribution in Kentucky is the occurrence of killing freezes in the spring and fall. Normally, temperatures of 32°F or below are used to define the beginning of the growing season in spring and the end in fall; however, killing frost can occur at ground level even when temperatures at the standard thermometer height are as high as 40°F .

The average date of the last freeze in the spring at standard thermometer height ranges from April 5 in Western Kentucky to May 1 in the east. This means that a freeze will occur after those dates in 1 year out of 2. About 3 weeks have to be added to the average date before the risk of a freeze approaches zero. If one prefers to use 36 degrees as a threshold for the risk of cold weather injury, another 10 to 15 days should be added to the average dates for the 32-degree level.

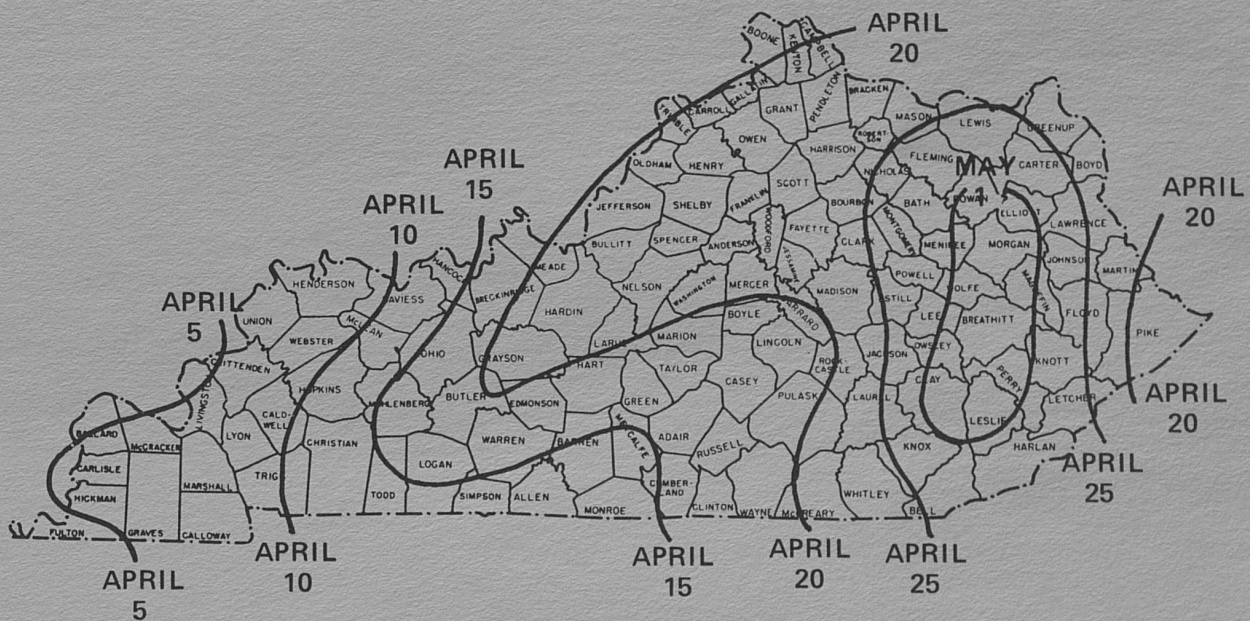


Fig. 11.—Average date of last 32°F in spring.

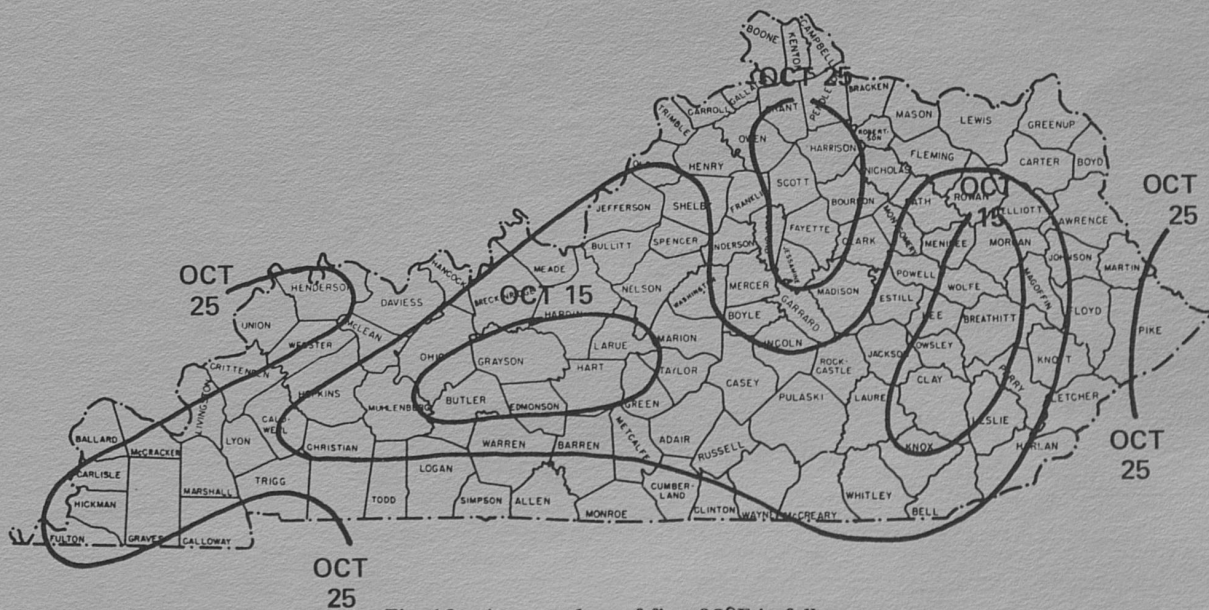


Fig. 12.—Average date of first 32°F in fall.

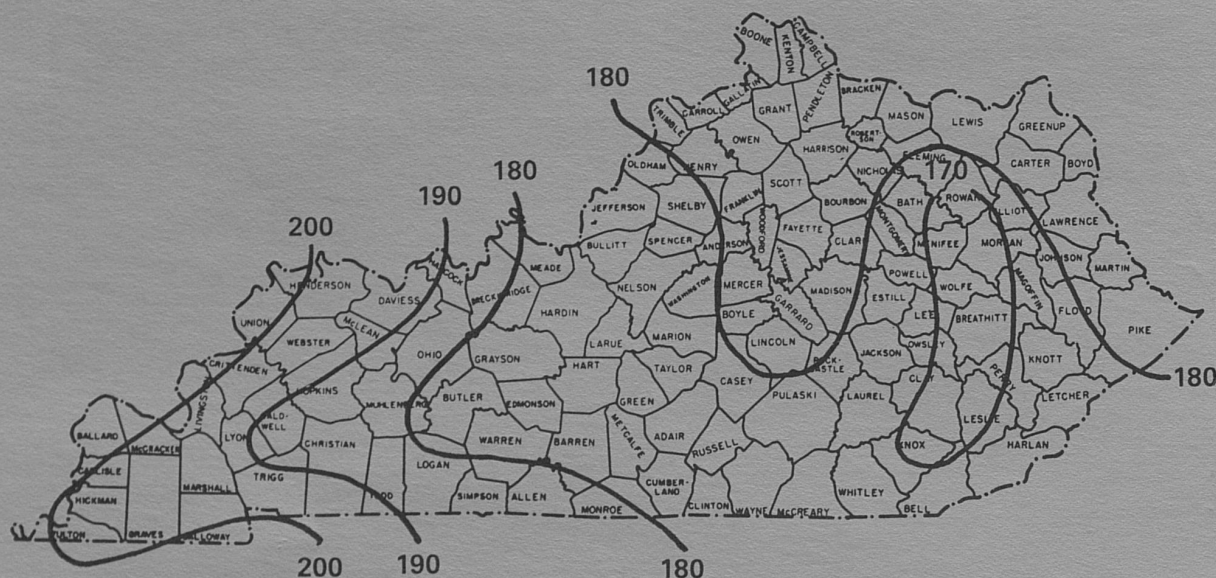


Fig. 13.—Average number of days during the growing season.

In the fall, the average date of the first freeze is October 15 in the east and October 25 in the west. Freezing temperatures at thermometer height have been reported as early as mid-September though in Northeastern Kentucky.

The length of the growing season is a very important climatic factor since it determines to a large extent the crops which can be profitably grown in a region. The average number of days between the last 32°F in the spring and the first 32°F in fall ranges from 200 in Western Kentucky to 170 in sections of the east. In one year out of 10, however, there may be as many as 230 days in western Kentucky and in one year out of 10 there may be as few as 150 days in eastern Kentucky.

Detailed information about frost and freeze risks in Kentucky is available in Kentucky Agricultural Experiment Station Progress Report 214.

WIND

The prevailing or most frequently observed wind direction across Kentucky is southerly, although there are some slight variations. During the late winter months—February and March—there is a tendency for northwesterly winds to predominate in the area generally from Louisville to

Paducah. The persistent southerly winds are an indication of the predominance of the semi-permanent area of high pressure which remains near the southeastern U.S. for most of the year. The southerly winds along its western edge are prevalent northward as far as the Ohio River. Occasional cold fronts which move across Kentucky cause wind shifts to a northerly direction, but these are usually of short duration and southerly winds return within a few days.

Strongest winds occur during winter and early spring when average daily wind speeds are 10 to 12 miles an hour. During the summer the average daily wind speeds are reduced to 6 to 7 miles an hour. Fastest winds are usually measured as the strongest sustained one-minute speed which is less than an instantaneous gust may be. The fastest one-minute wind for most of Kentucky is about 60 miles an hour, and these speeds have occurred in every month except October. Instantaneous gusts exceeding 80 miles an hour have been reported associated with thunderstorms passing across airports having wind recorders. It is likely that brief gusts have occurred, with speeds exceeding 100 miles an hour in thunderstorms which did not affect an airport. Monthly mean wind speeds and prevailing directions are shown in Table 2 for several locations in and near Kentucky.

Table 2.—Monthly Mean Wind Speed (Miles per Hour) and Prevailing Directions.

Month	Cairo		Evansville		Nashville		Covington		Lexington		Louisville		Huntington	
	Speed	Direction	Speed	Direction	Speed	Direction	Speed	Direction	Speed	Direction	Speed	Direction	Speed	Direction
Jan.	9.8	SW	9.5	SSW	9.1	S	10.7	SSW	11.6	S	9.6	S	7.3	
Feb.	9.8	NE	9.8	NW	9.4	S	10.7	SSW	11.7	SSW	9.7	NW	7.6	
Mar.	10.6	SW	10.4	WNW	10.0	S	11.2	SSW	11.9	SSW	10.4	NW	8.1	
Apr.	10.2	SW	10.1	SSW	9.5	S	10.9	SSW	11.5	SSW	10.1	SW	7.6	
May	8.2	SW	8.2	SSW	7.6	S	8.9	SSW	9.2	S	8.1	SE	6.0	
June	7.4	SW	7.4	SW	6.9	S	7.9	SSW	8.3	S	7.3	S	5.3	
July	6.5	SW	6.4	SW	6.3	S	7.1	SSW	7.4	SSW	6.7	S	4.7	
Aug.	6.2	NE	6.0	SW	6.0	S	6.7	SSW	7.0	S	6.3	N	4.7	
Sept.	7.0	NE	6.7	SSW	6.3	S	7.4	SSW	8.0	S	6.8	SE	4.8	
Oct.	7.3	S	7.1	NW	6.5	S	8.0	SSW	8.6	S	7.1	SE	5.4	
Nov.	9.1	S	8.9	NW	8.4	S	9.6	SSW	10.6	S	9.0	S	6.9	
Dec.	9.3	S	9.1	NW	8.8	S	10.1	SSW	11.2	S	9.3	S	7.3	
Year	8.5	SW	8.3	SSW	7.9	S	9.1	SSW	9.7	S	8.4	S	6.3	

(Summarized data not available)

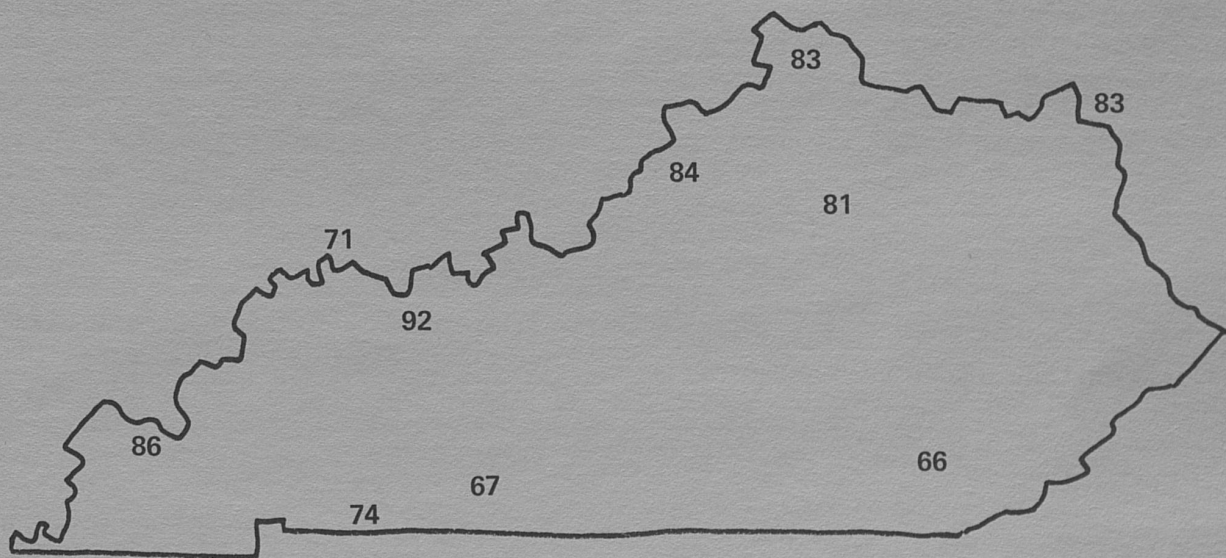


Fig. 14.—Maximum recorded wind gusts (miles per hour). Period of record is approximately 25 years.

RELATIVE HUMIDITY

The predominant southerly winds in Kentucky bring an ample supply of water vapor from

the Gulf of Mexico to maintain a humid climate. Infrequently during the summer, winds become southwesterly for a period bringing a brief flow of drier air from the arid portions of the southern

plains states. The flow of air across the Great Lakes is primarily northwesterly during the winter, which makes them a source of moisture for the states to the north of Kentucky but their effect is slight south of the Ohio River.

The mean relative humidity for the year averages close to 70%. The humidity has a daily cycle, with maximum values normally approaching 90% around sunrise, near the time of the lowest temperature. This brief period of high humidity is often accompanied by light fog or haze which restricts visibility for a short period until temperatures begin to rise. During the mid-afternoon period of warmest temperatures, the humidity normally will drop to the lowest readings of the day. In the spring and summer the afternoon humidity will reach about 50%, while in the winter the lowest reading may only average 60%.

Even though the relative humidity is lower during the summer, it combines with higher temperatures often to produce periods of warm humid weather which are uncomfortable for many persons. The temperature and humidity have been combined to calculate a "comfort index" as a measure of the degree of discomfort felt by most human beings. Few people in summer will be uncomfortable from heat and humidity when this temperature-humidity index is 70 or below. About half of the people will be uncomfortable when the temperature-humidity index reaches 75. Almost everyone will be uncomfortable by the time it reaches 79, and discomfort becomes more acute as the index climbs still higher.

In Kentucky, the temperature-humidity index normally reaches or exceeds 79 about 500 hours a year in the western and south-central portions. That level is reached only about 200 hours per year in the northeastern sections. The frequency of high values of the index follows very closely the pattern of days when the maximum temperature reached or exceeded 90°F, which is shown in Fig. 8.

CLOUDINESS

Frequent low pressure centers and associated cold fronts which affect Kentucky bring considerable cloudiness to the state. Even during periods when they are absent there is sufficient moisture

available for some degree of cloudiness to develop if only just a few cumulus clouds in mid-afternoon. Seldom does a day occur when clouds of some type are not noticeable somewhere in the sky.

Cloudiness is measured as the proportion of the sky which is obscured by clouds. At most airports, hourly observations of the amount of sky cover are recorded as well as the height and type of cloud. These long-term averages of sky cover have been calculated but are usually shown as averages only for the period from sunrise to sunset since that is the time when clouds are effectively reducing the amount of sunlight received. Across all of Kentucky the mean sky cover from sunrise to sunset as shown in Table 3 is about 6 tenths; however, the values are just slightly less in the western portions and closer to 7 tenths over the east. The mountains of eastern Kentucky, even though they do not apparently enhance rainfall, do provide enough lift to the air to produce more clouds. The seasonal variation in cloudiness reveals a maximum during the winter months when 7 tenths of the sky is normally obscured during the day. During the summer the average cloud cover decreases to about 5.5 tenths and reaches a minimum of about 4.5 tenths during October, the driest month of the year.

SOLAR RADIATION

Solar radiation is the basic source of energy for many processes which go on around us such as the growth of plants, heating of the air, or evaporation of water. At some time in the future it may be converted practically into electricity and heat for our homes. It is usually measured as the amount of energy which falls upon a horizontal surface one centimeter square. The energy is usually expressed in calories which is the amount of heat required to raise the temperature of a cubic centimeter of water by one degree centigrade.

The total energy from the sun which finally reaches the earth's surface is determined by the amount of cloudiness which intercepts and reflects it and by the season of the year. If there were no clouds in our atmosphere, an equal amount of solar radiation would be received at every point having the same latitude. Since cloud cover varies, both

Table 3.—Mean Sky Cover (tenths) from Sunrise to Sunset.

	Cairo	Evansville	Nashville	Covington	Lexington	Louisville	Huntington
Jan.	6.6	7.1	7.1	7.5	7.3	7.3	7.3
Feb.	6.3	6.7	6.7	7.3	6.9	6.9	7.3
Mar.	6.2	6.7	6.5	7.4	7.0	7.0	7.5
Apr.	6.1	6.6	6.2	7.2	6.7	6.7	7.0
May	6.1	6.1	5.8	6.7	6.2	6.2	6.7
June	5.6	5.8	5.6	6.2	5.8	5.8	6.6
July	5.6	5.6	5.7	6.1	5.7	5.7	6.8
Aug.	5.0	5.0	5.2	5.6	5.2	5.2	6.5
Sept.	5.0	5.1	5.1	5.7	5.2	5.3	6.4
Oct.	4.5	4.8	4.8	5.4	4.9	5.0	5.6
Nov.	5.9	6.4	6.0	7.2	6.5	6.6	7.5
Dec.	6.5	7.0	6.8	7.6	7.2	7.2	7.8
Year	5.8	6.1	6.0	6.7	6.2	6.2	6.9

daily and seasonally from one location to another, there is considerable variation in the solar energy received at ground level.

At the latitude of Kentucky the sun never quite reaches directly overhead and, consequently, always falls on a horizontal surface from an angle. This reduces the efficiency of the solar energy unless the surface is tilted at an angle so it faces the sun more directly. The sloping hillsides in Kentucky are a good example of how the sun's energy varies in efficiency. The south-facing slopes, which are tilted to receive the rays of the sun more directly, are much warmer than the north-facing or level sites. In the springtime, grass, trees, and flowers are more advanced on those warmer slopes.

In any study of climate, solar radiation must be measured on a horizontal surface in order to provide a uniform measurement from one location

Table 4.—Average Daily Solar Energy on a Horizontal Surface in Kentucky (Calories per Square Centimeter per Day).

Month	Long-term average
Jan.	166
Feb.	231
Mar.	304
Apr.	421
May	516
June	575
July	551
Aug.	480
Sept.	415
Oct.	320
Nov.	220
Dec.	160

to another. Such measurements in and near Kentucky reveal that the greater cloudiness over the eastern sections of the state reduces the average radiation slightly below that available in the west. However, detailed observations are not available to allow any quantitative comparison to be made. Long-term values of solar radiation which can be considered as generally representative of the entire state are shown in Table 4. Further information about solar radiation on sloping surfaces in Kentucky is available in the Kentucky Agricultural Experiment Station Progress Report 208.

EVAPORATION

The drying power of the air is often measured by the amount of water evaporated during a day from an open water surface. This is a particularly important climatic factor useful for anticipating the water loss from a lake or a farm pond. To provide a precise measure of daily evaporation, several weather stations in Kentucky have been equipped with 4-foot diameter open metal pans which are kept filled with water during the warm months of the year. The observer measures the depth of water (usually about a foot) each day and the decrease, after compensating for rainfall which might have occurred, is considered to be the amount of evaporation. Since the pans are all of the same size and material, the amount of evaporation is a standard climatic observation which can be used to measure variations in that factor from place to place.

The amount of water evaporated during a day is determined by the interaction of several climatic elements which have already been discussed. The most important is the amount of solar energy received since it provides the heat necessary to change the liquid water into vapor. High temperatures and low humidity are both favorable for rapid evaporation, as well as strong winds which continue to remove the air which becomes saturated directly over the water surface. In Kentucky these factors interact to cause the greatest amounts of annual evaporation in the western and central sections. Annual totals are slightly less in the Bluegrass section but decrease considerably in the east. This decrease is primarily a result of the greater amounts of cloudiness to restrict the sunshine and also the slightly cooler temperatures. Observing locations in the east are also usually placed in sheltered valleys which receive less sun and have reduced wind speeds.

Approximately 85 to 90% of the total annual evaporation occurs during the months of April through October. Greatest water losses happen in July when daily evaporation from the open pan averages from 0.2 to 0.3 inch per day. Comparisons between the open pans and actual lake evaporation have shown that daily losses from a lake surface are about 75% of that from the pan.

Observations of open pan evaporation for about 10 years have been averaged to provide estimates of monthly evaporation amounts for the 4 climatic divisions of Kentucky.

SOIL TEMPERATURES

The warming and cooling of the soil follows an annual cycle very much like the air temperature. Many plants have minimum temperatures below which seed will not germinate and the plant will

not grow; consequently, a knowledge of soil temperature can be very useful for agricultural planning. Although the time when the soil reaches a certain critical temperature may vary somewhat from year to year, that annual cycle is usually rather consistent. Heavy rains and wet soil may delay warming in the spring, but the time when average temperatures reach 50° or 60°F usually will not vary by more than several weeks.

Like all climatic elements, the soil temperature is measured under standard conditions at every location. The temperature sensor is placed at a depth of 4 inches beneath a grass surface which is kept mowed to the height of an average lawn. When compared with temperatures under bare or plowed soil, the grass location is usually cooler during the day but not as cold at night therefore the average daily temperature under the 2 types of cover is very nearly the same.

The average daily soil temperature at 4 inches reaches a maximum in late July in western Kentucky but not until early August in the northeast. Minimums likewise are separated slightly, with coldest readings in the west during late January and in the northeast about the first of February. The average annual soil temperature ranges from 64°F at Mayfield to 57°F at Flemingsburg. A graph of the average daily soil temperatures throughout the year for these two locations is shown in Fig. 15.

Even though average temperatures at 4 inches below sod remain above freezing throughout the year there are brief periods during the winter when the upper layer will freeze. Bare soil may also occasionally freeze to depths greater than 4 inches. The depth to which soil freezes can be important in determining how deep to place a water pipe or other utilities to minimize the risk of freeze damage. The average depth to which frost penetrates is shown in Fig. 16. There are occasional

Table 5.—Average Monthly Pan Evaporation (Inches).

Climatic Division	April	May	June	July	August	September	October	Total
Western	5.74	6.40	7.15	7.47	6.31	4.66	3.35	41.08
Central	5.66	6.63	6.98	7.54	6.51	4.61	3.79	41.72
Bluegrass	5.23	5.96	6.46	6.72	6.25	4.57	3.34	38.53
Eastern	4.40	5.03	5.36	5.34	4.74	3.60	2.71	27.79

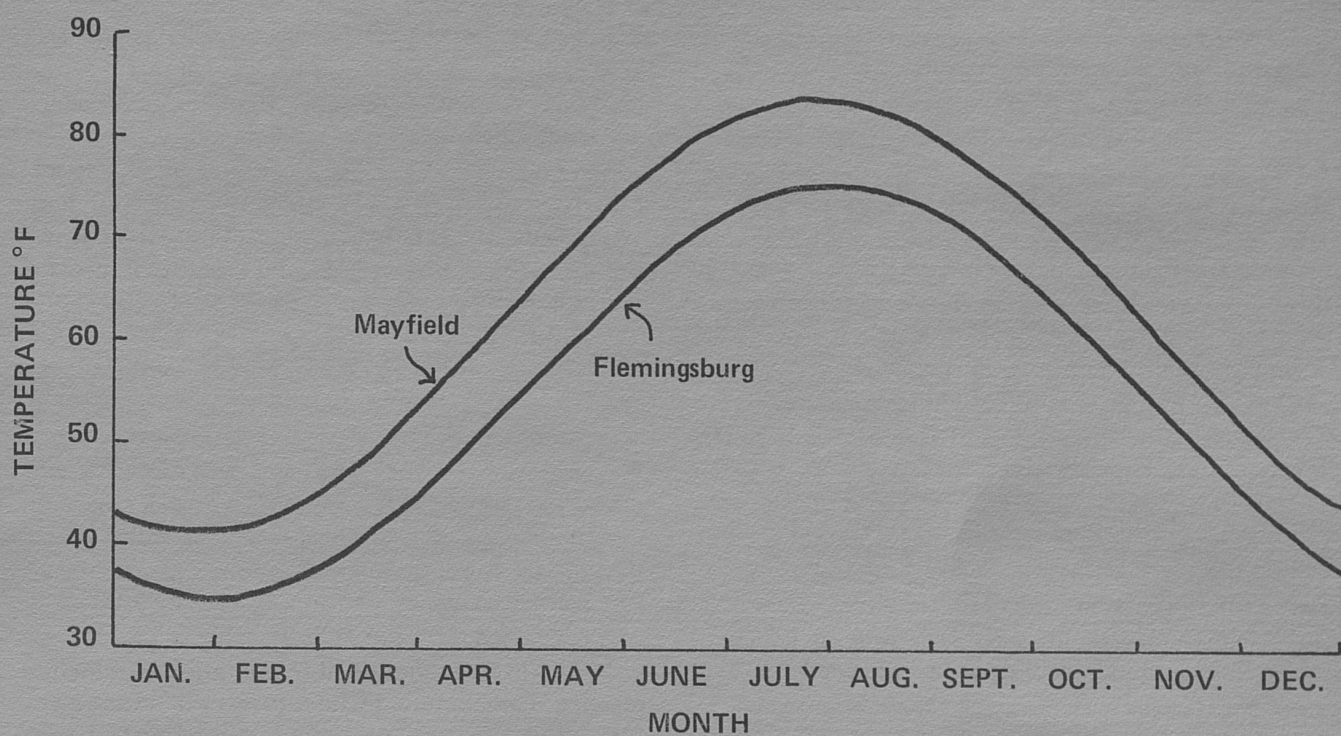


Fig. 15.—Average daily soil temperatures.

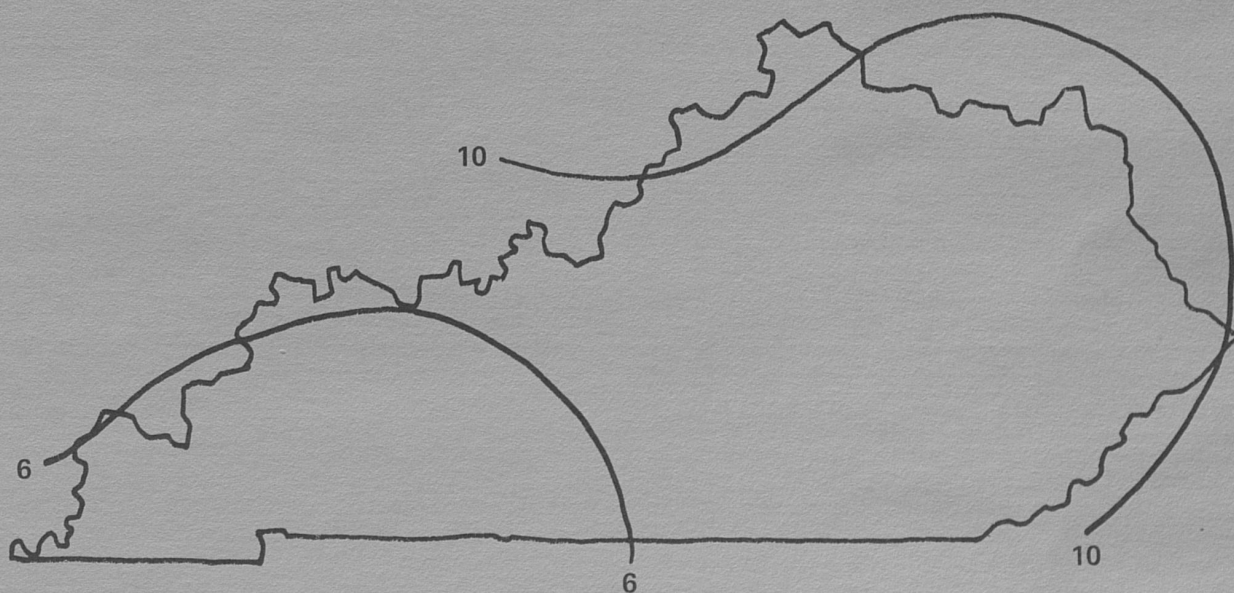


Fig. 16.—Average depth of frost penetration (inches).

instances when the frostline may penetrate deeper than the average depths shown; however, soil thermometers placed under sod at a depth of 20 inches have never recorded a temperature colder than 34°F. For additional information about soil temperatures in Kentucky, see Kentucky Agricultural Experiment Station Progress Report 210.

DROUGHT

Some refer to a period of a week or two of rainfree weather as a drought, especially if it occurs during the growing season, but drought is actually a long-term problem. It develops whenever rainfall is inadequate to meet the usual water needs of an area such as the growth of crops and maintenance of flow in streams. Below-normal rainfall for a prolonged period causes accumulated water deficiencies which become progressively more serious. Whether a month of normal rainfall has ended a drought depends on whether it was able to restore soil moisture and stream flows back to usual levels for that time of year.

In a study of drought, the degree of deficiency of rainfall below requirements can be used to categorize the drought as mild, moderate, severe, or extreme. Each category having a progressively more serious effect on farming, industry, and municipal water supplies. In Kentucky, mild drought is not an uncommon occurrence despite adequate annual rainfall. Below normal rainfall for several consecutive months may cause a drought situation to develop with a slight degree of moisture deficiency and some reduction in crop yields. During extreme drought, crops fail completely, ground water supplies disappear, and entire stands of large trees may die.

Weather data for 42 years were used to calculate the value of a regularly used drought index and the number of months determined when the index fell into each of the four categories of drought severity. Figure 17 divides that period into 6-month intervals and shows the number of months in each interval when drought existed. The figure shows how mild drought is a rather recurrent feature in each of the climatic divisions. More serious drought is less frequent, though, with only two major occurrences of the extreme category. One occurred notably during the period 1930-31 and the other in 1953-54 throughout the state. The

western climatic division seems to have more frequent occurrences of serious drought than does the remainder of the state. Prolonged extreme drought was a problem there also during 1940-41 and 1963-64.

Studies of drought throughout the United States have revealed the dry weather in the early 1930s and the mid 1950s affected not only Kentucky but much of the central part of the nation. Looking even further back, the central United States experienced serious drought during the periods 1911-17, 1887-93, and 1865-70. The records show a tendency for drought to become widespread and more severe at intervals of about 20 to 25 years, although meteorologists have found no reasons why this should reoccur with such regularity.

SEVERE STORMS

The type of severe storms most frequent in Kentucky is thunderstorms which may be accompanied by strong damaging winds, large hail, or possibly a tornado. Severe thunderstorms have been reported in the state during every month of the year, and tornadoes have also been observed during every month. The most frequent time of the year for severe storms to occur is during the months from March through July. Some of the strongest wind gusts accompanying these storms are shown in Fig. 14.

Hail occurs occasionally with severe storms, and the usual size is less than a half inch. Infrequently, a particularly devastating hailstorm will affect a small area such as the one which struck Lexington on May 21, 1917 with hailstones 3/4 inches in diameter. Damaging hail has been observed in every month but is most common during the spring and early summer months.

The most devastating severe weather which occurs in Kentucky is caused by tornadoes. On the average, six tornadoes will be reported in the state during a year, but the totals vary widely. Years have passed without any, while in 1967 16 occurred and on April 3, 1974 there were 27 on a single day (Table 6). Tornado occurrences in a 6-hour period are most frequent between noon and 6 p.m. when about 50% of them are reported. The second most likely period is from 6 p.m. to

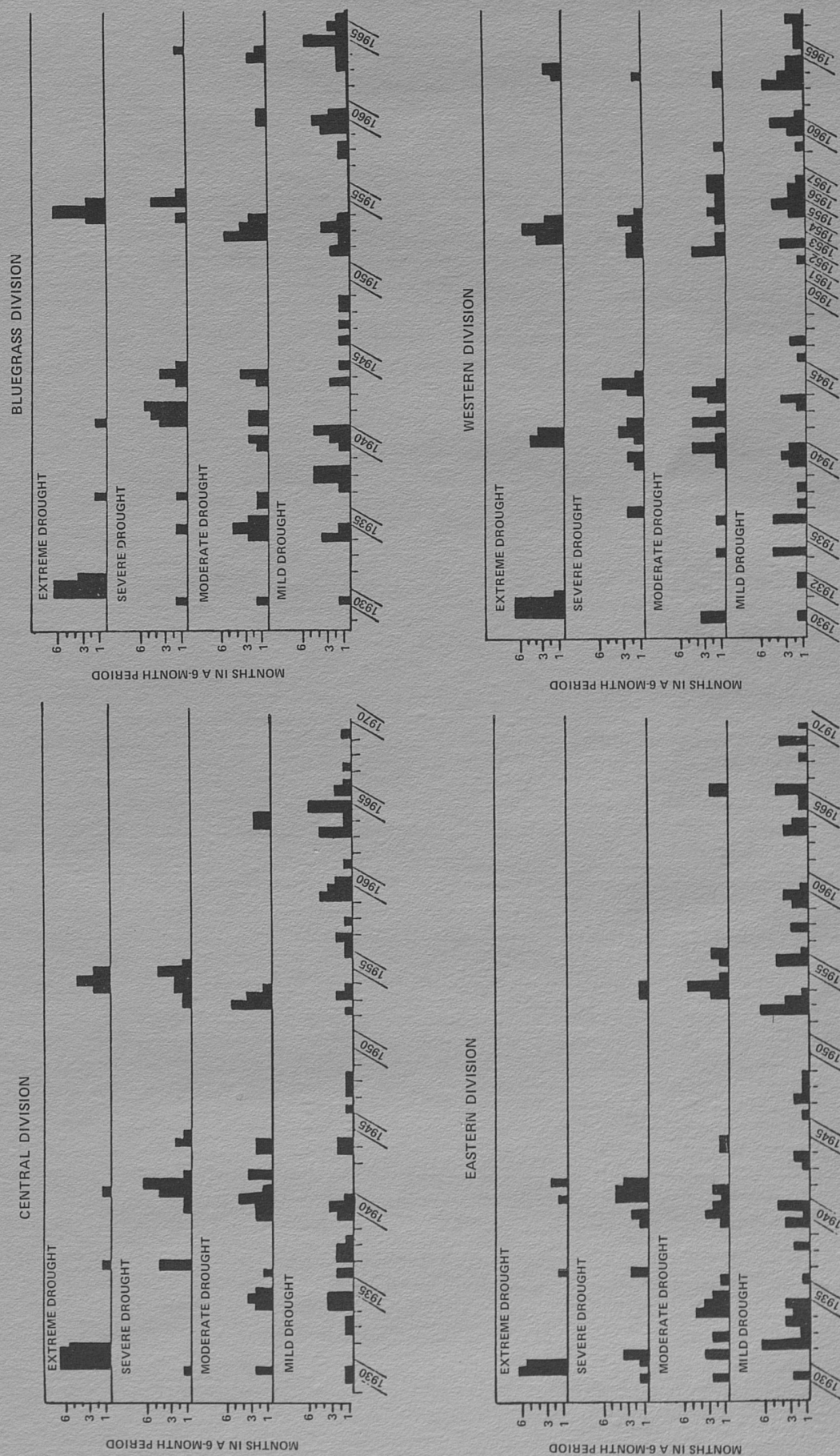


Fig. 17.—Number of drought months in each 6-month period, 1929-71.

Table 6.—Some of the More Notable Kentucky Tornado Outbreaks.

Year	Month	Date	Time	Location	Deaths
1890	March	27	7:56 p.m.	Jefferson County	76
1917	May	27	4-9 p.m.	Fulton, Hickman, Carlisle, and Graves counties	68
1925	March	18	5-8 p.m.	Central and Bluegrass regions	17
1933	May	9	8:30 p.m.	S. Central counties	36
1942	March	16	5:40-7:20 p.m.	Muhlenberg, Grayson counties	24
1968	April	3	11:30 p.m.	Calloway, Trigg, Caldwell, and Christian counties	2
1968	April	23	1:45 p.m.	Pendleton, Bracken, and Mason counties	5
1971	April	27	5-10 p.m.	Hopkins, McLean, Ohio, Muhlenberg, Butler, Warren, Green, Adair, Russell, and Pulaski counties	9
1974	April	3	3 p.m. to midnight	East of a line from Cloverport to Franklin and west of a line from Maysville to Middlesboro	71

midnight when about 25% occur. The remainder are evenly distributed between midnight and noon.

A review of tornado accounts indicates that a tornado can occur in almost any section of the state and in any terrain—hilltop or valley bottom. In general, a greater number occur in the western and northern sections of the state, with fewer being reported in the east although the number reported depends on the population density. Reports indicate that about 80% of all tornadoes approach from a direction ranging from the southwest through the west.

FLOODS

The abundant precipitation received during the year in Kentucky is not so evenly distributed as the long-term averages indicate. While there is normally ample rainfall in every month, frequently there are dry periods which may be compensated by periods of excessive rainfall. The irregular topography of the state which creates numerous valleys makes it almost certain that floods will occur whenever heavy rainfall occurs in a short period.

Depending on the type of storm affecting the area, floods in Kentucky are of two basic types.

The first is the local flash flood caused by a heavy rain over a small area. It will cause very rapid rises on a particular creek, especially in a narrow valley, then the water level will fall in a short period of time. Since the rises may be as much as 20 feet with little or no warning, the flash flood is a serious threat to life and property. The water which falls onto a small watershed usually causes only minor rises a short distance downstream as larger creeks and rivers soon absorb the isolated heavy rainfall.

The second type of flood is caused by widespread heavy rainfall over a large area. While it may cause serious flooding along small creeks and streams, a major effect is also felt along the larger rivers as the accumulated runoff merges into them. As the runoff reaches the main water-carrying stems in Kentucky, the magnitude of the potential damage increases because of the length of these rivers and the development which has taken place along them. The main stems which drain Kentucky are the Ohio, Kentucky, Licking, Cumberland, Green, Big Sandy, and Mississippi rivers.

Floods are most frequent in Kentucky during the winter months when the ground is saturated with water and there is less vegetation to retard the runoff. A study of the highest flood levels revealed

that 63% occurred in January, February, and March; 15% in April; 15% during May through September, and 7% in November and December. No major flooding has occurred in Kentucky during October.

The weather occurrence frequently related to flooding is a very heavy 24-hour precipitation. The greatest ever recorded in the state occurred in June 1960 when a total of 10.40 inches of rain fell in a 24-hour period at Dunmor in Muhlenberg County. This is a very rare event and would not normally be expected to occur at any single location even once in a hundred years. The average maximum 24-hour rainfall which occurs in a year ranges from about 2.8 to 3.7 inches. Table 7 has been prepared to

Table 7.—Rainfall Frequency Values.

Location	Maximum 24-hour Rainfall (inches) Expected to Occur Once in			
	2 years	5 years	10 years	50 years
Hickman	3.6	4.5	5.2	6.6
Hopkinsville	3.4	4.3	4.9	6.3
Owensboro	3.3	4.2	4.7	6.0
Bowling Green	3.4	4.2	4.8	6.1
Louisville	3.2	4.0	4.5	5.7
Somerset	3.2	4.0	4.5	5.8
Lexington	3.1	3.8	4.3	5.5
Covington	3.0	3.7	4.2	5.3
Ashland	2.7	3.5	4.0	5.0
Pikeville	2.9	3.6	4.2	5.4
Hazard	3.0	3.8	4.3	5.5
Elizabethtown	3.2	4.1	4.6	5.9

Table 8.—Greatest Observed Rainfall in Kentucky.

Duration	Rainfall (inches)	Location	Date
5 minutes	0.79	Louisville	Aug. 29, 1917
10 minutes	1.20	Lexington	Aug. 11, 1957
15 minutes	1.54	Lexington	July 3, 1931
30 minutes	2.66	Louisville	July 18, 1971
1 hour	3.87	Berea College	June 26, 1943
2 hours	4.70	Middlesboro	July 24, 1965
3 hours	6.17	Lexington	Aug. 2, 1932
6 hours	8.85	Scottsville	June 23, 1969
12 hours	9.68	Scottsville	June 23, 1969

show the frequency of 24-hour rainfall extremes. Often, flash flooding in a small area or watershed may occur when heavy rain falls in a period shorter than 24 hours. Recording raingages located

throughout the state allow the extremely heavy rainfalls to be evaluated over time intervals as short as 5 minutes. Some of the greatest observed rainfalls for periods of 5 minutes to 12 hours are shown in Table 8.

SOURCES OF CLIMATOLOGICAL DATA

The Environmental Data Service, a U.S. government agency responsible for the collection and distribution of weather observations makes the data available for a charge to anyone who wants it. Observations are conveniently summarized in several publications which can be requested for any particular month in the past or they can be received on a regular subscription basis. The publications containing data for Kentucky are:

Local Climatological Data.—A monthly publication issued for each National Weather Service Office. It contains: temperature data including heating and cooling degree days, dew point, precipitation including snowfall, pressure, wind, sunshine, and sky cover. Hourly observations are listed at 3-hour intervals in addition to daily totals and averages. Locations in and near Kentucky for which this publication is prepared are: Louisville, Lexington, Boone County (Greater Cincinnati Airport), Huntington, W. Va., Evansville, Ind., Cairo, Ill., and Nashville, Tenn.

In addition to the monthly data, an annual summary is prepared for these locations each calendar year. It presents annual totals and averages along with the mean conditions observed over a long period of years.

Climatological Data for Kentucky.—A monthly publication with a separate annual summary for all National Weather Service Offices and cooperative weather observing stations in the state. It contains summary information on daily temperature extremes and precipitation amounts as well as soil temperatures, evaporation, wind, and snow depth. For Kentucky, there are 83 temperature reporting locations and 150 which report precipitation.

Storm Data.—A monthly publication giving the time, place, character, and estimated damage for all reported severe storms or unusual weather phenomena in the U.S.

Hourly Precipitation Data.—At 62 precipitation observing stations in Kentucky, recording rain

gages are used to determine rainfall totals for time intervals ranging from 15 minutes to 24 hours. The data for the state are summarized and published monthly.

Single copies of past publications can usually be obtained by contacting:

National Weather Service
Standiford Airport
Louisville, Ky. 40221

Other requests or subscriptions should be directed to:

National Climatic Center
Federal Building
Asheville, N.C. 28801
Attention: Publications

APPENDIX I: MONTHLY MEANS OF TEMPERATURE (°F.)

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
ANCHORAGE	33.2	35.7	44.1	55.7	64.3	72.2	75.3	74.3	68.1	57.6	44.7	35.4	55.1
ASHLAND	34.5	36.5	44.5	55.9	64.7	72.6	75.8	74.4	68.5	57.7	45.7	36.6	55.6
BEAVER DAM	35.4	38.3	46.4	58.2	66.3	74.1	77.0	75.8	69.3	58.8	46.5	37.4	57.0
BEREA COLLEGE	36.1	38.3	46.3	57.7	65.9	73.4	76.2	75.4	69.4	59.0	46.8	38.1	56.9
BOWLING GREEN FAA AP	35.6	38.4	46.3	57.8	66.7	75.0	78.1	76.9	70.3	59.1	46.4	37.7	57.4
CECILIA	33.2	35.8	44.1	56.1	64.9	72.9	75.8	74.6	68.2	57.3	44.8	35.6	55.3
COVINGTON WSO	31.1	33.3	41.7	53.9	63.2	72.1	75.6	74.4	67.8	56.8	43.8	33.7	54.0
DANVILLE	33.8	36.0	44.0	55.7	64.6	72.4	75.4	74.5	68.7	58.0	45.5	36.1	55.4
FARMERS 1 HWY	34.6	36.8	44.9	56.2	64.6	72.0	75.1	73.7	67.5	57.0	45.3	36.5	55.4
FRANKFORT LOCK 4	33.4	35.4	43.1	54.5	64.0	72.6	76.1	74.9	68.4	57.3	45.1	35.7	55.0
GREENSBURG	34.9	37.2	45.2	56.9	65.7	73.7	76.9	75.6	69.1	57.9	45.8	36.9	56.3
GREENVILLE 2 W	35.9	38.8	46.7	58.4	66.0	74.1	77.1	76.1	69.5	59.3	47.1	38.2	57.3
HEIDELBERG LOCK 14	36.0	38.1	45.7	56.9	65.1	72.5	75.5	74.4	68.2	57.8	46.0	37.6	56.2
HENDERSON 7 SSW	34.6	37.7	45.9	57.9	66.4	74.7	77.6	76.2	69.7	59.5	46.7	37.0	57.0
HOPKINSVILLE	35.1	38.0	46.0	58.1	66.6	74.7	77.8	76.9	70.3	59.5	46.7	37.6	57.3
IRVINGTON	34.6	37.3	45.4	57.3	65.8	73.8	76.8	75.8	69.4	58.7	46.1	36.8	56.5
LEITCHFIELD 2 N	35.4	38.0	46.1	57.9	66.2	73.9	76.9	76.0	69.5	59.0	46.7	37.6	56.9
LEXINGTON WSO	32.9	35.3	43.6	55.3	64.7	73.0	76.2	75.0	68.6	57.8	44.6	35.5	55.2
LOUISVILLE WSO	33.3	35.8	44.0	55.9	64.8	73.3	76.9	75.9	69.1	58.1	45.0	35.6	55.6
LOVELACEVILLE	36.3	39.4	47.3	59.2	67.4	75.7	78.7	77.5	70.7	60.2	47.6	38.5	58.2
MADISONVILLE 1 SE	35.9	38.7	46.7	58.8	66.9	74.9	77.9	76.7	69.9	59.5	47.2	39.1	57.6
MAMMOTH CAVE PARK	35.1	37.8	46.0	57.8	65.3	72.7	75.6	74.6	68.7	58.4	46.1	37.5	56.3
MAYFIELD RADIO WNGO	36.6	39.7	47.4	59.2	67.4	75.5	78.2	77.4	70.7	60.4	47.9	38.8	58.3
MAYSVILLE SEWAGE PLANT	32.4	34.2	42.3	53.8	62.9	71.5	74.8	73.4	67.0	56.4	44.4	34.6	54.0
MOUNT STERLING	34.9	37.1	45.4	57.0	65.6	73.1	76.0	74.8	68.9	58.5	45.8	36.9	56.2
MURRAY	36.8	39.8	47.8	59.5	67.6	75.7	78.5	77.7	70.7	60.2	48.1	39.3	58.5
OWENSBORO 2 W	34.9	37.9	46.0	57.9	66.8	75.3	78.2	76.8	70.2	59.5	46.6	37.3	57.3
PADUCAH SEWAGE PLANT	36.0	38.9	47.1	59.2	67.7	76.1	79.2	77.8	70.8	60.2	47.6	38.2	58.2
PIKEVILLE	38.1	40.2	47.7	58.8	67.1	74.2	77.1	76.3	70.4	59.8	47.7	39.2	58.1
PRINCETON 1 SE	36.0	38.9	46.7	58.4	66.5	74.7	77.8	76.8	70.1	59.3	47.1	38.0	57.5
RUSSELLVILLE	35.6	38.3	46.5	58.5	66.8	74.9	77.8	76.6	70.0	58.8	46.5	38.0	57.4
SHELBYVILLE	32.8	35.3	43.5	55.1	64.1	72.4	75.7	74.6	68.5	57.7	44.8	35.2	55.0
WILLIAMSBURG 1 E	37.8	39.8	47.3	57.9	66.1	73.2	76.0	75.0	69.2	58.6	47.2	39.4	57.3
WILLIAMSTOWN 3 NW	31.8	34.0	42.4	54.6	63.9	72.2	75.6	74.5	68.1	57.6	44.3	34.2	54.4

APPENDIX II: MONTHLY PRECIPITATION NORMALS (INCHES)

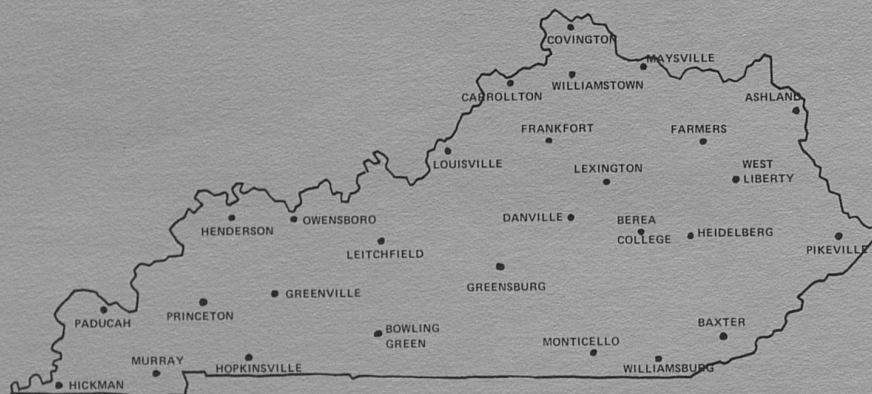
STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
ADDISON DAM 45	3.91	3.61	5.10	4.30	4.77	4.11	3.98	3.05	3.20	2.34	3.53	3.50	45.40
ANCHORAGE	3.69	3.59	5.11	4.18	4.49	4.34	4.12	3.20	2.93	2.54	3.41	3.47	45.07
ASHLAND	3.24	2.90	4.04	3.40	3.98	3.75	4.16	3.50	2.89	2.08	2.90	2.99	39.83
BEAVER DAM	4.07	3.59	4.58	3.63	4.53	3.70	4.12	2.92	3.08	2.35	3.52	3.68	43.77
BEREA COLLEGE	3.98	3.55	4.58	4.31	3.81	4.58	5.16	3.99	3.06	2.01	3.45	3.63	46.11
BOWLING GREEN	4.62	4.42	5.46	4.18	4.17	4.24	4.12	3.01	3.02	2.39	4.02	4.44	48.09
BOWLING GREEN FAA AP	4.52	4.25	5.23	4.15	4.00	4.35	3.86	3.27	2.83	2.47	3.68	4.38	46.99
CALHOUN LOCK 2	3.83	3.42	4.81	4.28	4.23	3.75	4.24	3.36	2.60	2.33	3.78	3.42	44.05
CARROLLTON LOCK 1	3.21	3.20	4.43	3.70	3.73	3.99	3.81	2.77	2.67	2.33	3.11	2.80	39.75
CECILIA	4.00	3.79	4.86	4.24	4.39	4.20	4.48	3.67	2.81	2.58	3.72	3.79	46.53
COLLEGE HILL LOCK 11	3.56	3.38	4.36	3.88	3.86	4.03	5.04	3.89	2.75	1.94	3.41	3.35	43.45
COVINGTON WSO	3.34	3.04	4.09	3.64	3.74	3.81	4.12	2.62	2.55	2.15	3.08	2.86	39.04
CYNTHIANA	3.55	3.23	4.84	3.85	3.98	3.95	4.25	3.32	2.80	2.02	3.40	3.17	42.52
DANVILLE	4.10	3.77	4.82	4.21	4.02	4.65	4.89	3.53	3.24	2.02	3.50	3.66	46.41
DUNDEE	4.26	3.83	4.93	4.14	4.58	4.08	3.90	3.13	2.92	2.53	3.91	3.83	46.04
DUNMORE	4.56	3.96	5.13	3.99	4.17	3.83	3.99	3.72	3.14	2.71	4.11	3.92	47.23
EDMONTON	4.62	4.22	5.06	4.21	3.99	4.42	4.24	3.08	3.14	2.25	3.75	4.24	47.22
FALMOUTH 5 WNW	3.42	3.17	4.74	3.95	4.11	4.20	4.51	2.94	2.98	2.38	3.50	2.95	42.85
FARMERS 1 WNW	3.61	3.45	4.50	3.84	4.20	3.93	4.84	3.95	3.21	2.18	3.35	3.24	44.30
FLEMINGSBURG	3.78	3.19	4.84	3.60	4.26	3.92	4.73	3.71	3.19	2.07	3.45	3.27	44.01
FORD LOCK 10	3.63	3.41	4.40	3.67	3.98	4.28	5.11	3.63	2.95	1.99	3.35	3.49	43.89
FORDS FERRY DAM 50	3.72	3.13	4.68	4.18	4.22	3.92	3.31	3.36	2.83	2.33	3.36	3.34	42.38
FRANKFORT LOCK 4	3.54	3.16	4.72	3.91	4.26	3.94	4.11	3.27	2.88	2.33	3.42	3.14	42.68
FRANKLIN 1 E	4.56	4.33	4.76	4.08	4.28	3.88	3.86	3.18	2.83	2.53	3.87	4.38	46.54
GEORGETOWN WATER WORKS	3.62	3.19	4.85	3.85	3.90	3.91	4.04	3.35	2.74	2.13	3.36	3.32	42.26
GEIST LOCK 3	3.30	3.03	4.62	3.85	4.09	4.00	4.55	2.84	2.96	2.16	3.23	2.96	41.59
GREENSBURG	4.29	3.95	5.27	4.09	4.71	4.70	4.94	4.07	3.30	2.39	3.70	4.12	49.53
GREENVILLE 2 W	4.14	3.68	4.83	4.10	4.39	4.24	4.20	3.68	3.12	2.45	4.03	3.95	46.81
HARTFORD 6 NW	3.88	3.56	4.76	4.22	4.58	3.59	3.64	3.15	2.81	2.45	3.87	3.63	44.14
HEIDELBERG LOCK 14	3.81	3.76	4.57	3.95	3.82	4.27	5.29	3.77	2.87	2.09	3.47	3.42	45.09
HENDERSON 7 SSW	3.94	3.45	5.26	4.39	4.31	3.88	4.00	3.35	2.92	2.57	3.49	3.41	44.97
HIGH BRIDGE LOCK 7	3.96	3.65	4.73	3.95	4.12	4.57	4.76	3.56	3.14	2.06	3.54	3.53	45.57
HOPKINSVILLE	4.26	4.04	5.29	4.21	4.36	4.10	3.85	3.45	2.98	2.63	4.12	4.13	47.42
HYDEN	4.21	4.17	4.56	3.85	3.72	4.50	4.80	3.81	3.33	2.72	3.32	3.79	46.78
IRVINGTON	3.82	3.53	4.72	4.30	4.52	4.43	4.15	3.24	2.93	2.36	3.64	3.57	45.21
JACKSON	3.93	3.69	4.62	4.00	3.52	3.78	4.90	3.63	3.10	2.11	3.18	3.53	43.99
JEREMIAH	3.65	3.48	4.32	3.04	3.13	3.32	4.36	3.87	2.73	1.95	3.00	3.24	40.09
KEENE 1 SSW	3.87	3.50	4.78	3.75	4.53	4.31	4.89	3.89	2.91	2.14	3.54	3.72	45.83
LANCASTER	4.26	4.11	5.08	4.20	4.29	4.52	5.25	3.71	3.19	2.07	3.77	3.99	48.44
LEITCHFIELD 2 N	4.13	3.89	4.98	4.06	4.43	4.29	4.11	3.56	2.89	2.58	3.83	3.91	46.66
LEXINGTON WSO	3.95	3.42	4.80	3.87	4.16	4.31	4.83	3.40	2.65	2.12	3.36	3.62	44.49
LIBERTY	4.69	4.37	5.22	4.16	4.36	5.06	5.16	3.78	3.37	2.47	3.88	4.27	50.79
LITTLE HICKMAN LOCK 8	3.88	3.67	4.60	3.98	4.08	4.20	4.85	3.81	2.86	2.03	3.42	3.55	45.03
LOYD GREENUP DAM	3.26	2.91	4.10	3.69	4.07	3.97	4.23	3.46	3.07	2.20	2.81	2.83	40.60
LOCKPORT LOCK 2	3.56	3.36	5.07	4.31	4.30	4.21	4.09	3.01	3.05	2.39	3.59	3.25	44.19
LOUISVILLE WSO	3.53	3.47	5.05	4.10	4.20	4.05	3.76	2.99	2.94	2.35	3.33	3.34	43.11
LOVELACEVILLE	4.44	3.85	5.28	4.61	4.89	3.97	3.23	3.24	3.32	2.92	3.89	4.07	47.71
MADISONVILLE 1 SE	3.93	3.73	4.90	4.06	4.34	3.81	3.95	3.54	3.03	2.52	3.91	3.52	45.24
MAINTON CAVE PARK	4.90	4.40	5.45	4.28	4.17	4.68	4.19	4.02	3.39	2.55	4.22	4.35	50.60
MARTIN	3.54	3.67	4.36	3.83	3.69	3.62	5.05	3.41	3.24	2.44	2.95	3.40	43.20
MAYFIELD RADIO WNGO	4.48	4.27	5.47	4.54	4.68	3.80	3.99	3.26	3.59	2.98	4.07	4.49	49.62
MAYSVILLE SEWAGE PLANT	3.56	3.20	4.62	3.81	4.03	3.92	4.57	3.75	2.97	2.25	3.33	3.22	43.23
MIDDLESBORO	4.84	4.47	5.20	4.04	3.71	4.53	4.95	3.96	2.87	2.64	3.83	4.83	49.87
MIDWAY	3.76	3.25	4.70	3.94	4.04	4.32	4.25	3.83	2.93	2.22	3.43	3.27	43.94
MILLERSTOWN	4.41	3.88	4.93	4.18	4.08	4.04	4.25	3.90	2.80	2.59	3.79	4.08	47.03
MONTICELLO	4.63	4.30	5.03	4.03	3.85	4.45	4.48	3.58	3.39	2.45	3.97	4.11	48.27
MOUNT STERLING	4.24	3.64	4.96	4.23	4.21	4.10	5.11	3.58	2.92	2.16	3.34	3.68	46.17
MUNFORDVILLE	4.70	4.47	5.50	4.25	4.32	4.33	4.86	4.01	3.36	2.53	4.16	4.21	50.70
MURRAY	4.25	4.23	5.27	4.27	4.25	3.77	3.90	3.27	3.28	2.89	3.12	3.99	47.49
OWENSBORO 2 W	4.01	3.51	5.06	4.33	4.38	3.80	3.45	3.08	3.24	2.30	3.59	3.53	44.28
OWENSBORO DAM 46	3.91	3.37	4.98	4.35	4.44	3.88	3.40	3.13	3.12	2.34	3.52	3.37	43.81
PADUCAH SEWAGE PLANT	4.05	3.49	4.87	4.12	4.88	4.03	3.66	3.27	3.28	2.63	3.78	3.63	45.69
PAINTSVILLE 1 S	3.69	3.55	4.41	3.74	3.99	3.83	4.97	3.68	3.13	2.18	3.01	3.47	43.65
PIKEVILLE	3.38	3.62	4.32	3.60	3.84	4.12	5.06	3.50	3.41	2.15	2.91	3.30	43.21
PRINCETON 1 SE	4.47	3.92	4.97	4.20	4.12	3.80	3.42	3.25	2.93	2.59	3.74	3.99	45.40
RAVENNA LOCK 12	3.52	3.40	4.33	4.00	3.72	3.94	5.29	4.08	2.97	1.96	3.43	3.28	43.92
RUSSELLVILLE	4.78	4.48	5.53	4.50	4.03	4.11	4.23	3.37	3.29	2.56	4.17	4.38	49.43
SALVISA LOCK 6	4.17	3.77	5.11	4.03	4.58	4.62	4.66	4.03	3.10	2.28	3.67	3.77	47.79
SHELBYVILLE	3.79	3.44	5.18	4.16	4.45	4.30	4.04	3.38	3.04	2.51	3.62	3.23	45.14

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
SPRINGFIELD	4.07	3.50	4.66	4.06	4.28	4.55	4.57	3.33	2.90	2.19	3.46	3.49	45.06
TYRONE LOCK 5	3.83	3.56	4.93	4.10	4.01	4.29	4.43	3.63	3.38	2.38	3.61	3.42	45.57
UNIONTOWN DAM 49	3.43	3.06	4.50	3.97	4.29	3.68	3.35	3.14	2.79	2.54	3.31	3.09	41.15
VALLEY VIEW LOCK 9	3.71	3.53	4.54	3.78	3.93	4.07	5.04	4.34	2.96	2.01	3.36	3.40	44.67
VANCEBURG	3.55	3.23	4.63	3.67	4.16	3.69	4.94	3.41	2.87	2.15	3.31	3.01	42.62
WAYNESBURG 7 NE	4.45	4.22	4.95	4.32	3.98	4.86	4.98	3.52	3.08	2.29	4.08	4.17	48.90
WEST LIBERTY	3.75	3.49	4.28	3.85	3.85	4.13	5.28	3.73	3.19	2.26	3.29	3.43	44.53
WILLIAMSBURG 1 E	4.36	4.28	4.79	4.01	3.95	4.14	5.09	3.62	2.89	2.59	3.76	4.05	47.53
WILLIAMSTOWN 3 NW	3.29	3.12	4.87	3.90	4.07	3.94	4.23	2.86	2.83	2.35	3.40	2.92	41.78
WILLOW LOCK 13	4.03	3.95	4.71	3.95	4.03	4.14	5.50	4.02	3.03	2.06	3.56	3.63	46.61
WOLF CREEK DAM	4.95	4.48	5.17	4.08	4.10	4.35	4.45	3.37	3.36	2.52	4.07	4.34	49.24
WOODBURY LOCK 4	4.18	4.01	4.86	3.88	4.05	4.15	4.00	3.42	3.12	2.60	3.76	3.77	45.81

APPENDIX III: LOCAL CLIMATOLOGICAL SUMMARIES FOR 28 LOCATIONS IN KENTUCKY

Local climatological summaries are available
for the following locations in Kentucky:

Ashland	Farmers	Hopkinsville	Owensboro
Baxter	Frankfort	Leitchfield	Paducah
Berea	Greensburg	Lexington	Pikeville
Bowling Green	Greenville	Louisville	Princeton
Carrollton	Heidelberg	Maysville	West Liberty
Covington	Henderson	Monticello	Williamsburg
Danville	Hickman	Murray	Williamstown



Locations for which Climatological Summaries are available in Appendix III.

The Kentucky State Department of Natural Resources and Environmental Protection maintains a file of Kentucky weather observations which can be processed by a computer. The record extends back to 1950 and, in some cases, back to the 1930s. This file has been used for preparing the clima-

tological summaries in this appendix but, because records of some of the stations may not extend back to 1941, the temperature and precipitation averages may not agree exactly with the figures shown in Appendixes I and II.

CLIMATOLOGICAL SUMMARIES

FOLLOW ON PAGES 30-85

ASHLAND

LATITUDE 38 DEGREES 27 MINUTES MEANS FOR THE PERIOD 1941-70
 LONGITUDE 82 DEGREES 36 MINUTES EXTREMES FOR THE PERIOD 1932-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	44.6	24.4	34.5	80	1950	-15	1963
FEB.	47.4	25.8	36.6	79	1948	-6	1963
MAR.	56.4	32.6	44.5	88	1973	6	1964
APR.	69.3	42.5	55.9	92	1960	19	1964
MAY	77.9	51.3	64.6	96	1941	28	1966
JUNE	85.0	60.1	72.5	102	1936	35	1961
JULY	87.5	64.0	75.8	105	1954	45	1962
AUG.	86.5	62.4	74.4	103	1936	41	1965
SEP.	81.1	55.8	68.4	101	1932	27	1974
OCT.	71.0	44.4	57.7	93	1941	16	1974
NOV.	57.3	34.1	45.7	85	1948	7	1950
DEC.	46.6	26.7	36.7	79	1951	-6	1962
YEAR	67.5	43.7	55.6	105	1954	-15	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.21	2.31	1945	4.1	9.2	1966
FEB.	2.88	2.40	1939	2.0	8.9	1960
MAR.	4.04	2.63	1939	1.9	8.0	1936
APR.	3.31	2.67	1936	0.1	1.5	1944
MAY	3.97	3.21	1955			
JUNE	3.52	4.09	1962			
JULY	4.10	5.61	1973			
AUG.	3.42	3.97	1933			
SEP.	2.85	2.91	1947			
OCT.	2.07	1.62	1939			
NOV.	2.90	2.35	1957	1.0	7.0	1938
DEC.	2.99	2.09	1949	2.6	8.0	1935
YEAR	39.27	5.61	1973	11.6	9.2	1966

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	12	0	5	23	1	5
FEB.	11	0	3	20	0	4
MAR.	13	0	1	16	0	1
APR.	12	0	0	5	0	0
MAY	13	2	0	1	0	0
JUNE	10	8	0	0	0	0
JULY	11	11	0	0	0	0
AUG.	9	9	0	0	0	0
SEP.	8	5	0	0	0	0
OCT.	8	0	0	3	0	0
NOV.	11	0	0	14	0	1
DEC.	11	0	4	22	0	3
YEAR	129	35	13	104	1	14

ASHLAND (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	82	78	75	72	70	68	67	65	63	61	58	55	51
FEB.	82	78	75	73	71	69	68	66	64	62	60	57	53
MAR.	92	88	85	83	81	79	78	76	74	72	70	67	63
APR.	93	91	90	88	87	86	86	85	84	83	81	80	78
MAY	96	94	93	92	91	90	90	89	88	87	86	85	83
JUNE	100	98	97	96	95	94	94	93	92	91	90	89	87
JULY	104	101	100	99	97	96	96	95	94	92	91	90	87
AUG.	102	100	99	97	96	95	95	94	93	92	90	89	87
SEP.	101	99	97	96	94	93	93	92	91	89	88	86	84
OCT.	92	90	89	87	86	85	85	84	83	82	80	79	77
NOV.	87	84	83	80	79	78	77	75	74	73	70	69	66
DEC.	79	75	73	71	69	68	67	65	64	62	60	58	54

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	22	16	13	9	6	4	2	0	-2	-5	-9	-12	-18
FEB.	24	19	16	12	10	8	6	3	1	0	-4	-7	-12
MAR.	30	25	23	21	19	17	16	14	12	10	8	6	1
APR.	35	32	31	29	28	26	26	25	23	22	20	19	16
MAY	45	42	40	38	37	36	35	33	32	31	29	27	24
JUNE	57	54	52	50	48	47	46	44	43	41	39	37	34
JULY	63	60	58	56	55	54	53	51	50	49	47	45	42
AUG.	60	57	55	53	52	51	50	48	47	46	44	42	39
SEP.	52	48	46	44	42	41	40	38	37	35	33	31	27
OCT.	38	35	34	32	31	30	29	27	26	25	23	22	19
NOV.	29	26	24	22	20	19	18	16	15	13	11	9	6
DEC.	24	20	17	14	12	10	9	7	5	3	0	-2	-6

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	1.18	1.48	1.91	2.97	4.37	5.24	6.04
FEB.	0.57	0.83	1.26	2.46	4.27	5.49	6.65
MAR.	1.50	1.87	2.42	3.74	5.49	6.58	7.58
APR.	1.42	1.72	2.14	3.12	4.37	5.13	5.83
MAY	1.60	1.97	2.48	3.72	5.32	6.31	7.21
JUNE	1.11	1.45	1.94	3.20	4.91	6.00	7.01
JULY	1.44	1.82	2.39	3.78	5.63	6.80	7.88
AUG.	1.22	1.54	2.01	3.16	4.69	5.65	6.53
SEP.	0.98	1.25	1.64	2.62	3.93	4.76	5.52
OCT.	0.50	0.70	1.00	1.82	3.00	3.78	4.51
NOV.	1.02	1.30	1.69	2.67	3.97	4.79	5.54
DEC.	0.91	1.20	1.62	2.70	4.19	5.15	6.03

BAXTER

LATITUDE 36 DEGREES 51 MINUTES MEANS FOR THE PERIOD 1953-74
 LONGITUDE 83 DEGREES 20 MINUTES EXTREMES FOR THE PERIOD 1953-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	44.8	23.6	34.2	71	1972	-14	1966
FEB.	48.2	24.8	36.5	73	1954	-14	1966
MAR.	56.6	31.6	44.1	84	1973	-1	1960
APR.	68.7	40.6	54.7	89	1957	19	1969
MAY	77.0	50.1	63.6	92	1962	29	1963
JUNE	83.1	58.2	70.6	96	1953	34	1966
JULY	85.9	63.0	74.5	97	1954	47	1961
AUG.	85.4	62.5	74.0	95	1953	46	1965
SEP.	80.6	55.8	68.2	99	1954	36	1963
OCT.	70.3	43.2	56.7	92	1953	18	1962
NOV.	57.3	32.2	44.8	80	1974	8	1970
DEC.	47.3	26.3	36.8	75	1966	-10	1962
YEAR	67.1	42.7	54.9	99	1954	-14	1966

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.40	2.87	1954	3.4	6.5	1964
FEB.	4.13	1.54	1970	1.6	7.0	1969
MAR.	5.02	4.20	1963	1.0	12.0	1954
APR.	4.16	2.44	1970	0.2	1.5	1961
MAY	4.12	3.00	1963			
JUNE	4.45	3.18	1970			
JULY	4.65	2.92	1960			
AUG.	3.38	3.53	1956			
SEP.	3.32	3.20	1960			
OCT.	2.67	2.26	1964			
NOV.	3.67	3.47	1973	0.7	3.0	1966
DEC.	4.42	2.43	1972	1.3	5.0	1954
YEAR	48.38	4.20	1963	8.2	12.0	1954

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	12	0	5	24	1	5
FEB.	12	0	3	21	1	2
MAR.	13	0	0	18	0	1
APR.	11	0	0	8	0	0
MAY	11	1	0	0	0	0
JUNE	10	4	0	0	0	0
JULY	11	7	0	0	0	0
AUG.	9	6	0	0	0	0
SEP.	8	3	0	0	0	0
OCT.	8	0	0	4	0	0
NOV.	11	0	0	17	0	0
DEC.	12	0	2	23	0	3
YEAR	128	21	10	115	2	11

BAXTER (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	73	70	69	67	66	65	65	64	63	62	60	59	56
FEB.	75	72	71	69	68	67	66	64	63	62	60	59	56
MAR.	88	84	82	80	78	77	76	74	73	71	69	67	63
APR.	90	88	87	86	86	85	85	84	83	83	82	81	79
MAY	92	91	90	89	88	87	87	86	85	84	83	82	81
JUNE	97	95	95	94	93	93	92	92	91	91	90	89	88
JULY	97	95	94	94	93	92	92	91	90	90	89	88	86
AUG.	97	95	94	94	93	92	92	91	90	90	89	88	86
SEP.	98	95	94	92	91	90	90	89	88	87	85	84	81
OCT.	90	87	86	84	83	82	82	81	80	79	77	76	73
NOV.	80	78	77	75	74	73	73	72	71	70	68	67	65
DEC.	78	74	72	69	68	66	65	63	61	60	57	55	51

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	25	18	15	11	8	5	3	0	-2	-5	-9	-12	-19
FEB.	26	20	16	12	9	7	5	2	0	-2	-6	-10	-16
MAR.	30	26	24	21	19	17	16	14	12	10	7	5	1
APR.	31	29	28	27	26	25	25	24	23	22	21	20	18
MAY	45	42	40	38	37	36	35	33	32	31	29	27	24
JUNE	57	54	52	50	48	47	46	44	43	41	39	37	34
JULY	61	58	57	56	55	54	53	52	51	50	48	47	44
AUG.	63	60	59	57	55	54	53	52	51	50	48	46	43
SEP.	53	50	48	46	45	44	43	41	40	39	37	35	32
OCT.	37	34	32	30	29	28	27	25	24	23	21	19	16
NOV.	26	23	22	20	19	18	17	15	14	13	11	10	7
DEC.	24	19	16	13	10	8	7	5	3	0	-2	-5	-10

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	1.50	1.92	2.53	4.04	6.07	7.36	8.54
FEB.	1.46	1.85	2.41	3.80	5.66	6.82	7.90
MAR.	1.94	2.40	3.07	4.68	6.78	8.09	9.28
APR.	1.89	2.26	2.77	3.95	5.44	6.34	7.16
MAY	1.69	2.06	2.59	3.86	5.49	6.50	7.42
JUNE	2.10	2.49	3.02	4.24	5.76	6.68	7.51
JULY	1.51	1.95	2.60	4.24	6.46	7.88	9.19
AUG.	1.09	1.41	1.88	3.08	4.71	5.75	6.70
SEP.	1.23	1.54	1.99	3.08	4.52	5.42	6.24
OCT.	0.51	0.75	1.14	2.26	3.96	5.11	6.21
NOV.	1.59	1.92	2.38	3.46	4.83	5.68	6.44
DEC.	1.42	1.84	2.46	4.03	6.15	7.50	8.75

BEREA

LATITUDE 37 DEGREES 34 MINUTES MEANS FOR THE PERIOD 1949-74
 LONGITUDE 84 DEGREES 18 MINUTES EXTREMES FOR THE PERIOD 1949-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	46.1	27.1	36.6	77	1952	-18	1963
FEB.	48.8	28.2	38.5	75	1954	-10	1951
MAR.	57.3	35.5	46.4	84	1963	-2	1960
APR.	69.0	45.7	57.4	89	1955	21	1950
MAY	77.3	53.8	65.6	92	1953	27	1966
JUNE	84.4	61.4	72.9	98	1952	39	1966
JULY	87.2	65.1	76.2	104	1952	47	1962
AUG.	86.5	63.7	75.1	102	1953	44	1965
SEP.	81.5	57.4	69.5	104	1953	34	1949
OCT.	71.3	47.0	59.1	93	1959	22	1952
NOV.	57.1	36.3	46.7	82	1961	-3	1950
DEC.	48.1	29.3	38.7	76	1951	-8	1962
YEAR	67.9	45.9	56.9	104	1952	-18	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.05	3.00	1974	4.0	9.0	1954
FEB.	3.51	3.21	1962	1.9	4.5	1970
MAR.	4.17	3.29	1952	1.1	8.0	1957
APR.	4.53	3.82	1957	0.0	0.3	1956
MAY	4.10	2.68	1961			
JUNE	4.07	2.70	1960			
JULY	5.15	3.60	1955			
AUG.	3.57	3.00	1961			
SEP.	3.15	2.38	1964			
OCT.	1.97	1.59	1955	0.0	0.1	1962
NOV.	3.51	3.16	1957	0.9	3.0	1950
DEC.	3.59	2.90	1966	1.7	4.0	1950
YEAR	45.38	3.82	1957	9.6	9.0	1954

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	12	0	5	21	1	5
FEB.	10	0	3	18	0	2
MAR.	12	0	1	13	0	1
APR.	11	0	0	3	0	0
MAY	10	0	0	0	0	0
JUNE	9	5	0	0	0	0
JULY	11	10	0	0	0	0
AUG.	8	8	0	0	0	0
SEP.	7	4	0	0	0	0
OCT.	7	0	0	2	0	0
NOV.	10	0	1	12	0	1
DEC.	10	0	2	19	0	2
YEAR	117	27	12	88	1	11

BEREA (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	77	74	72	70	69	68	67	65	64	63	61	59	56
FEB.	78	75	73	71	69	68	67	65	64	62	60	58	55
MAR.	88	84	83	80	79	78	76	75	74	72	70	68	65
APR.	90	88	87	86	85	84	84	83	82	81	80	79	77
MAY	93	91	91	90	89	88	88	87	86	85	84	84	82
JUNE	100	98	96	95	94	93	92	92	91	90	88	87	85
JULY	101	99	98	96	95	94	94	93	92	91	89	88	86
AUG.	102	100	98	97	95	94	93	92	91	90	88	87	84
SEP.	103	100	98	96	94	93	91	90	89	87	85	83	80
OCT.	92	90	88	87	86	84	84	83	81	80	79	77	75
NOV.	84	81	80	78	77	76	75	73	72	71	69	68	65
DEC.	77	74	72	70	68	67	66	64	63	61	59	57	54

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	23	17	13	9	6	4	2	0	-2	-5	-9	-13	-19
FEB.	26	19	16	12	9	7	5	2	0	-2	-6	-9	-16
MAR.	32	28	25	23	21	19	17	16	14	12	9	7	3
APR.	34	32	31	29	28	27	27	26	25	24	22	21	19
MAY	48	45	43	41	39	38	37	35	34	32	30	28	25
JUNE	58	55	53	52	50	49	48	47	46	44	42	41	38
JULY	62	59	58	56	55	54	53	51	50	49	47	46	43
AUG.	60	58	56	54	53	52	51	50	49	47	46	44	41
SEP.	61	57	54	51	49	47	46	44	42	40	37	35	30
OCT.	39	36	34	32	31	30	29	27	26	25	23	21	18
NOV.	31	27	24	21	19	17	16	14	12	10	7	4	0
DEC.	25	20	17	14	12	9	8	6	3	1	-1	-4	-9

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	0.90	1.28	1.87	3.51	5.93	7.54	9.05
FEB.	0.58	0.88	1.39	2.91	5.29	6.93	8.49
MAR.	1.47	1.86	2.43	3.84	5.72	6.90	7.99
APR.	1.51	1.94	2.57	4.15	6.28	7.63	8.88
MAY	1.70	2.08	2.60	3.85	5.45	6.44	7.34
JUNE	1.40	1.79	2.35	3.74	5.61	6.79	7.87
JULY	1.96	2.44	3.13	4.79	6.96	8.32	9.56
AUG.	0.85	1.18	1.70	3.12	5.19	6.55	7.83
SEP.	0.63	0.92	1.38	2.69	4.66	5.98	7.23
OCT.	0.85	1.02	1.27	1.86	2.60	3.06	3.47
NOV.	1.17	1.51	1.99	3.21	4.86	5.90	6.86
DEC.	0.94	1.28	1.80	3.19	5.15	6.43	7.62

BOWLING GREEN

LATITUDE 36 DEGREES 58 MINUTES MEANS FOR THE PERIOD 1941-70
 LONGITUDE 86 DEGREES 26 MINUTES EXTREMES FOR THE PERIOD 1932-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	45.1	26.3	35.7	78	1943	-21	1963
FEB.	48.6	28.3	38.4	82	1962	-20	1951
MAR.	57.3	35.4	46.3	84	1939	-6	1960
APR.	69.6	46.0	57.8	92	1942	22	1950
MAY	78.7	54.7	66.7	96	1936	30	1963
JUNE	86.6	63.4	75.0	108	1936	40	1966
JULY	89.1	66.8	78.0	106	1936	46	1947
AUG.	88.5	65.2	76.9	106	1936	42	1946
SEP.	82.6	57.9	70.2	104	1943	33	1949
OCT.	72.0	46.1	59.1	93	1941	25	1952
NOV.	57.1	35.6	46.4	85	1946	-7	1950
DEC.	47.2	28.4	37.8	74	1951	-8	1962
YEAR	68.5	46.2	57.4	108	1936	-21	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.51	4.75	1956	3.8	8.0	1935
FEB.	4.25	3.01	1956	2.4	7.0	1960
MAR.	5.23	4.48	1964	2.5	18.0	1960
APR.	4.15	4.61	1968	0.1	1.2	1951
MAY	4.00	2.98	1967			
JUNE	4.34	5.69	1969			
JULY	3.82	3.76	1972			
AUG.	3.12	2.87	1971			
SEP.	2.80	3.91	1954			
OCT.	2.49	2.70	1942			
NOV.	3.68	3.54	1948	0.5	8.0	1966
DEC.	4.38	4.47	1949	1.8	8.0	1935
YEAR	46.79	5.69	1969	11.0	18.0	1960

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	11	0	5	22	1	4
FEB.	10	0	2	19	0	2
MAR.	12	0	0	14	0	1
APR.	11	0	0	3	0	0
MAY	11	3	0	0	0	0
JUNE	9	11	0	0	0	0
JULY	10	16	0	0	0	0
AUG.	8	14	0	0	0	0
SEP.	7	6	0	0	0	0
OCT.	7	0	0	2	0	0
NOV.	9	0	0	13	0	0
DEC.	10	0	3	21	0	1
YEAR	115	50	10	94	1	8

BOWLING GREEN (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	79	75	73	70	69	67	66	64	62	61	58	56	52
FEB.	80	76	74	72	70	69	68	66	65	63	61	59	55
MAR.	87	84	82	80	78	77	76	74	73	71	69	67	64
APR.	91	89	88	86	85	84	84	83	82	81	79	78	76
MAY	96	94	92	91	90	89	89	88	87	86	85	83	81
JUNE	103	101	100	98	97	96	96	95	94	93	91	90	88
JULY	104	102	101	99	98	97	97	96	95	94	92	91	89
AUG.	105	102	101	99	98	97	97	96	95	94	92	91	88
SEP.	104	101	99	97	96	95	94	92	91	90	88	86	83
OCT.	94	92	90	89	87	86	86	85	84	82	81	79	77
NOV.	85	82	80	78	77	76	75	73	72	71	69	67	64
DEC.	77	73	72	70	68	67	66	64	63	61	59	58	54

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	27	20	16	11	8	5	3	0	-2	-5	-10	-14	-21
FEB.	30	23	19	15	12	9	7	4	1	-1	-5	-9	-16
MAR.	34	29	26	23	21	19	18	16	14	12	9	6	1
APR.	37	35	33	32	30	29	29	28	27	25	24	22	20
MAY	49	46	44	42	41	40	39	37	36	35	33	31	28
JUNE	60	57	55	53	52	51	50	48	47	46	44	42	39
JULY	65	62	60	58	57	56	55	53	52	51	49	47	44
AUG.	63	60	58	56	55	54	53	51	50	49	47	45	42
SEP.	52	49	47	45	44	43	42	40	39	38	36	34	31
OCT.	38	35	34	32	31	30	30	29	28	27	25	24	21
NOV.	32	28	25	23	21	19	18	16	14	12	10	7	3
DEC.	25	20	18	15	12	10	9	7	5	2	0	-2	-7

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	0.99	1.40	2.07	3.90	6.61	8.42	10.12
FEB.	0.78	1.16	1.78	3.58	6.34	8.21	9.99
MAR.	2.04	2.52	3.21	4.88	7.05	8.40	9.63
APR.	1.77	2.15	2.67	3.91	5.49	6.46	7.33
MAY	1.23	1.61	2.17	3.63	5.62	6.89	8.08
JUNE	1.25	1.66	2.28	3.90	6.15	7.61	8.97
JULY	1.38	1.74	2.26	3.54	5.23	6.29	7.26
AUG.	1.33	1.61	2.01	2.94	4.13	4.86	5.52
SEP.	0.30	0.51	0.90	2.18	4.36	5.92	7.44
OCT.	0.60	0.83	1.20	2.18	3.61	4.56	5.44
NOV.	1.38	1.72	2.21	3.41	4.99	5.98	6.88
DEC.	1.48	1.89	2.50	4.01	6.05	7.34	8.52

CARROLLTON

LATITUDE 38 DEGREES 41 MINUTES MEANS FOR THE PERIOD 1951-74
 LONGITUDE 85 DEGREES 11 MINUTES EXTREMES FOR THE PERIOD 1951-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	42.8	24.0	33.4	72	1967	-19	1963
FEB.	46.8	26.1	36.4	76	1972	-18	1951
MAR.	55.7	33.6	44.7	81	1968	-3	1960
APR.	68.6	44.0	56.3	88	1954	20	1972
MAY	76.6	52.2	64.4	93	1953	27	1966
JUNE	84.0	60.9	72.5	100	1952	36	1966
JULY	86.8	64.7	75.7	105	1952	48	1972
AUG.	85.9	63.1	74.5	101	1964	43	1965
SEP.	80.4	56.5	68.5	103	1953	35	1962
OCT.	70.5	44.8	57.6	91	1951	19	1952
NOV.	56.4	35.3	45.8	82	1961	-2	1958
DEC.	46.1	28.2	37.1	73	1956	-8	1963
YEAR	66.7	44.4	55.6	105	1952	-19	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	2.64	2.28	1966	1.9	5.0	1963
FEB.	3.07	3.14	1971	2.7	11.5	1966
MAR.	4.39	3.66	1964	1.9	12.0	1968
APR.	3.72	2.18	1957	0.0	0.3	1973
MAY	3.93	3.23	1961			
JUNE	3.69	4.25	1960			
JULY	3.86	2.88	1961			
AUG.	2.78	3.25	1969			
SEP.	2.89	3.41	1965			
OCT.	2.37	3.80	1955			
NOV.	3.20	2.42	1972	0.3	1.3	1964
DEC.	2.90	1.75	1964	0.8	4.0	1960
YEAR	39.44	4.25	1960	7.6	12.0	1968

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	9	0	7	22	1	4
FEB.	9	0	3	20	1	3
MAR.	12	0	0	15	0	2
APR.	11	0	0	4	0	0
MAY	11	1	0	0	0	0
JUNE	10	6	0	0	0	0
JULY	9	9	0	0	0	0
AUG.	7	8	0	0	0	0
SEP.	7	3	0	0	0	0
OCT.	7	0	0	3	0	0
NOV.	10	0	0	13	0	1
DEC.	10	0	3	20	0	2
YEAR	112	27	13	97	2	12

CARROLLTON (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	74	71	69	67	66	65	63	62	61	59	57	56	52
FEB.	75	72	70	68	67	66	65	63	62	61	59	57	54
MAR.	86	82	80	78	76	75	74	72	71	69	67	65	61
APR.	88	87	86	85	84	83	83	82	81	80	79	78	77
MAY	94	92	91	89	88	87	87	86	85	84	82	81	79
JUNE	100	98	97	95	94	93	93	92	91	90	88	87	85
JULY	104	101	99	97	96	95	94	92	91	90	88	86	83
AUG.	101	98	97	96	94	93	93	92	91	89	88	87	84
SEP.	101	98	97	94	93	92	91	89	88	87	84	83	80
OCT.	93	90	88	86	85	84	83	81	80	79	77	75	72
NOV.	85	81	79	77	75	74	73	71	70	68	66	64	60
DEC.	76	73	71	69	67	66	65	63	62	60	58	56	53

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	19	13	10	6	3	1	-1	-3	-5	-8	-12	-15	-21
FEB.	26	20	16	12	9	6	4	1	-1	-4	-8	-12	-18
MAR.	29	25	23	20	18	17	16	14	13	11	8	6	2
APR.	32	30	29	28	27	26	26	25	24	23	22	21	19
MAY	45	42	40	38	37	36	35	33	32	31	29	27	24
JUNE	56	53	52	50	49	48	47	45	44	43	41	40	37
JULY	61	58	57	56	54	53	53	52	51	49	48	47	44
AUG.	58	56	54	53	52	50	50	49	47	46	45	43	41
SEP.	47	45	44	42	41	40	40	39	38	37	35	34	32
OCT.	36	33	32	30	29	28	27	25	24	23	21	20	17
NOV.	29	25	23	20	19	17	16	14	12	11	8	6	2
DEC.	24	19	16	13	10	8	7	5	3	0	-2	-5	-10

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	0.96	1.21	1.57	2.44	3.60	4.33	4.99
FEB.	0.56	0.83	1.28	2.59	4.59	5.94	7.23
MAR.	1.25	1.66	2.29	3.93	6.22	7.70	9.08
APR.	1.00	1.35	1.89	3.31	5.32	6.63	7.85
MAY	1.55	1.91	2.43	3.67	5.28	6.28	7.20
JUNE	0.98	1.33	1.86	3.28	5.29	6.60	7.83
JULY	1.37	1.73	2.26	3.56	5.29	6.38	7.38
AUG.	0.82	1.08	1.48	2.50	3.92	4.84	5.69
SEP.	0.80	1.08	1.49	2.58	4.11	5.09	6.01
OCT.	0.57	0.79	1.14	2.08	3.44	4.34	5.18
NOV.	1.03	1.33	1.78	2.91	4.45	5.43	6.33
DEC.	0.72	1.00	1.42	2.55	4.18	5.26	6.26

COVINGTON

LATITUDE 39 DEGREES 4 MINUTES MEANS FOR THE PERIOD 1949-74
 LONGITUDE 84 DEGREES 40 MINUTES EXTREMES FOR THE PERIOD 1949-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	39.5	22.9	31.2	74	1950	-19	1963
FEB.	42.4	24.7	33.6	73	1972	-15	1951
MAR.	51.0	32.3	41.6	80	1974	2	1960
APR.	64.1	42.9	53.5	88	1960	17	1964
MAY	74.1	52.1	63.1	93	1962	27	1963
JUNE	82.7	61.0	71.9	98	1952	39	1972
JULY	86.0	64.9	75.5	103	1954	47	1963
AUG.	85.2	63.1	74.1	102	1962	43	1965
SEP.	78.6	56.3	67.4	102	1953	33	1962
OCT.	67.6	45.4	56.5	89	1951	16	1962
NOV.	52.1	34.4	43.3	81	1958	1	1958
DEC.	42.2	26.5	34.3	70	1956	-11	1963
YEAR	63.8	43.9	53.8	103	1954	-19	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.56	3.97	1959	5.7	7.6	1964
FEB.	3.02	2.06	1950	5.0	9.3	1966
MAR.	3.94	5.21	1964	5.0	9.8	1968
APR.	3.62	2.09	1950	0.4	3.3	1953
MAY	3.83	3.02	1961			
JUNE	3.77	3.35	1974			
JULY	4.39	3.93	1962			
AUG.	2.70	3.04	1957			
SEP.	3.01	3.19	1950			
OCT.	2.25	2.47	1973	0.1	1.7	1962
NOV.	3.14	2.12	1957	2.8	8.7	1966
DEC.	2.96	1.73	1964	3.9	5.6	1960
YEAR	40.19	5.21	1964	22.9	9.8	1968

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	12	0	10	24	2	6
FEB.	11	0	5	22	1	4
MAR.	13	0	2	16	0	2
APR.	13	0	0	4	0	0
MAY	12	1	0	0	0	0
JUNE	10	5	0	0	0	0
JULY	10	9	0	0	0	0
AUG.	9	7	0	0	0	0
SEP.	8	3	0	0	0	0
OCT.	8	0	0	3	0	0
NOV.	11	0	1	14	0	1
DEC.	12	0	6	22	0	4
YEAR	129	25	24	105	3	17

COVINGTON (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	73	70	68	66	64	63	62	60	59	57	55	53	50
FEB.	74	71	69	67	65	64	63	61	60	58	56	54	51
MAR.	84	80	79	77	75	74	73	71	70	68	66	65	61
APR.	88	86	85	84	83	82	82	81	80	79	78	77	75
MAY	95	93	92	90	89	88	88	87	86	85	83	82	80
JUNE	100	98	96	95	94	93	93	92	91	90	89	87	85
JULY	102	99	98	96	95	94	94	93	92	91	89	88	85
AUG.	102	99	98	96	95	94	94	93	92	91	89	88	85
SEP.	101	98	96	94	93	92	91	89	88	87	85	83	80
OCT.	91	89	87	86	84	83	83	82	81	79	78	76	74
NOV.	83	80	78	76	74	73	72	70	69	67	65	63	60
DEC.	74	70	69	66	65	64	63	61	60	59	56	55	51

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	18	12	9	6	3	1	-1	-3	-5	-8	-11	-14	-20
FEB.	25	19	15	11	8	5	3	0	-2	-5	-9	-13	-19
MAR.	26	22	21	19	17	16	15	13	12	10	8	7	3
APR.	34	32	30	29	28	26	26	25	23	22	21	19	17
MAY	45	42	40	38	37	36	35	33	32	31	29	27	24
JUNE	56	53	52	50	49	48	47	45	44	43	41	40	37
JULY	63	60	59	57	56	54	54	53	51	50	48	47	44
AUG.	59	57	55	54	52	51	51	50	49	47	46	44	42
SEP.	48	45	44	42	41	40	39	37	36	35	33	32	29
OCT.	37	34	32	30	29	28	27	25	24	23	21	19	16
NOV.	28	24	22	19	18	16	15	13	11	10	7	5	1
DEC.	23	18	15	12	9	7	6	4	2	0	-3	-6	-11

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	1.01	1.35	1.86	3.19	5.06	6.26	7.38
FEB.	0.74	1.03	1.47	2.65	4.36	5.49	6.54
MAR.	1.12	1.49	2.06	3.53	5.60	6.93	8.18
APR.	1.27	1.61	2.11	3.33	4.97	6.00	6.95
MAY	1.20	1.56	2.10	3.47	5.35	6.55	7.66
JUNE	1.47	1.82	2.31	3.51	5.08	6.05	6.94
JULY	1.74	2.14	2.72	4.10	5.89	7.01	8.02
AUG.	0.72	0.98	1.37	2.40	3.85	4.80	5.69
SEP.	0.61	0.88	1.32	2.58	4.46	5.72	6.92
OCT.	0.60	0.81	1.14	2.00	3.21	4.00	4.74
NOV.	0.92	1.22	1.66	2.83	4.44	5.48	6.45
DEC.	0.92	1.20	1.62	2.68	4.14	5.08	5.94

DANVILLE

LATITUDE 37 DEGREES 39 MINUTES MEANS FOR THE PERIOD 1941-70
 LONGITUDE 84 DEGREES 46 MINUTES EXTREMES FOR THE PERIOD 1937-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	43.4	24.4	33.9	79	1943	-19	1963
FEB.	46.5	25.5	36.0	77	1945	-9	1951
MAR.	54.9	33.0	44.0	84	1967	-1	1960
APR.	67.5	43.9	55.7	90	1942	17	1944
MAY	76.3	52.8	64.6	95	1941	27	1963
JUNE	83.6	61.1	72.4	100	1954	41	1945
JULY	86.7	64.1	75.4	103	1952	47	1937
AUG.	86.5	62.5	74.5	101	1943	42	1946
SEP.	81.7	55.8	68.8	104	1953	32	1942
OCT.	71.1	45.0	58.1	95	1953	23	1954
NOV.	56.2	34.5	45.3	83	1950	-3	1950
DEC.	45.7	26.7	36.2	74	1951	-8	1962
YEAR	66.7	44.1	55.4	104	1953	-19	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.09	3.17	1945	5.2	7.9	1966
FEB.	3.77	3.02	1951	4.5	10.5	1960
MAR.	4.81	3.02	1964	3.0	10.2	1947
APR.	4.18	3.30	1972	0.1	3.0	1961
MAY	4.02	2.94	1968			
JUNE	4.65	4.30	1949			
JULY	4.89	3.02	1956			
AUG.	3.53	3.41	1944			
SEP.	3.08	2.57	1974			
OCT.	1.97	2.46	1962	0.0	0.6	1962
NOV.	3.34	2.86	1973	1.5	7.0	1966
DEC.	3.70	2.54	1942	2.8	7.0	1939
YEAR	46.03	4.30	1949	17.2	10.5	1960

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	13	0	7	23	1	6
FEB.	11	0	3	21	1	6
MAR.	12	0	1	16	0	2
APR.	12	0	0	4	0	0
MAY	11	1	0	0	0	0
JUNE	10	5	0	0	0	0
JULY	11	9	0	0	0	0
AUG.	9	10	0	0	0	0
SEP.	8	5	0	0	0	0
OCT.	7	0	0	3	0	0
NOV.	10	0	1	13	0	1
DEC.	11	0	4	22	0	4
YEAR	125	30	16	102	2	19

DANVILLE (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	80	76	74	71	69	67	66	64	62	60	57	55	51
FEB.	81	77	75	73	71	70	68	67	65	64	61	59	56
MAR.	86	83	81	79	77	76	75	73	72	70	68	66	63
APR.	89	87	86	85	84	83	83	82	81	80	79	78	76
MAY	95	93	92	90	89	88	88	87	86	85	83	82	80
JUNE	98	96	95	94	93	92	92	91	90	89	88	87	85
JULY	101	98	97	95	94	93	93	92	91	90	88	87	84
AUG.	101	99	98	96	95	94	94	93	92	91	89	88	86
SEP.	103	100	98	96	95	94	93	92	91	89	87	86	83
OCT.	94	92	90	88	87	86	85	84	83	81	80	78	75
NOV.	86	83	81	79	77	76	75	73	72	71	69	67	64
DEC.	77	74	72	70	68	67	66	64	63	61	59	57	54

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	22	16	13	9	6	4	2	0	-2	-5	-9	-12	-18
FEB.	23	18	15	11	9	7	5	2	0	-1	-5	-8	-13
MAR.	29	25	23	20	19	17	16	14	12	11	8	6	2
APR.	37	34	32	30	29	28	27	25	24	23	21	19	16
MAY	49	45	43	41	39	38	37	35	34	32	30	28	24
JUNE	57	54	52	51	50	48	48	47	45	44	43	41	38
JULY	62	59	58	56	55	54	53	51	50	49	47	46	43
AUG.	61	57	56	54	52	51	50	48	47	45	43	42	38
SEP.	49	46	45	43	42	41	40	39	38	37	35	34	31
OCT.	38	35	34	32	31	30	29	28	27	26	24	23	20
NOV.	30	26	24	21	19	18	16	15	13	11	9	7	3
DEC.	25	20	17	14	11	9	8	6	4	1	-1	-4	-9

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	1.10	1.49	2.08	3.64	5.85	7.28	8.62
FEB.	0.65	0.98	1.53	3.15	5.65	7.36	8.99
MAR.	1.76	2.21	2.86	4.46	6.56	7.88	9.08
APR.	1.68	2.06	2.61	3.92	5.61	6.66	7.61
MAY	1.37	1.75	2.30	3.69	5.54	6.71	7.79
JUNE	2.23	2.63	3.18	4.44	5.99	6.93	7.78
JULY	2.06	2.50	3.12	4.60	6.49	7.65	8.70
AUG.	0.90	1.24	1.75	3.12	5.08	6.37	7.57
SEP.	1.05	1.34	1.77	2.83	4.24	5.14	5.97
OCT.	0.85	1.03	1.28	1.86	2.60	3.05	3.46
NOV.	1.16	1.48	1.94	3.07	4.59	5.55	6.43
DEC.	0.99	1.34	1.88	3.29	5.28	6.58	7.79

FARMERS

LATITUDE 38 DEGREES 9 MINUTES MEANS FOR THE PERIOD 1941-70
 LONGITUDE 83 DEGREES 33 MINUTES EXTREMES FOR THE PERIOD 1932-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	45.6	23.8	34.7	80	1943	-28	1963
FEB.	48.7	25.3	37.0	81	1932	-19	1934
MAR.	57.4	32.3	44.9	88	1945	-9	1960
APR.	70.3	42.2	56.2	93	1942	16	1964
MAY	78.6	50.4	64.5	95	1936	25	1966
JUNE	85.4	58.6	72.0	104	1936	35	1966
JULY	87.7	62.3	75.0	105	1936	43	1947
AUG.	87.0	60.8	73.9	106	1936	40	1945
SEP.	81.4	53.8	67.6	103	1932	29	1937
OCT.	71.7	42.3	57.0	94	1953	13	1962
NOV.	57.9	32.6	45.3	85	1948	5	1958
DEC.	47.5	25.7	36.6	74	1951	-15	1962
YEAR	68.3	42.5	55.4	106	1936	-28	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.56	2.95	1945	5.9	9.0	1966
FEB.	3.44	2.45	1939	4.9	12.0	1960
MAR.	4.51	2.79	1955	2.2	6.3	1947
APR.	3.75	2.95	1972	0.0	1.0	1944
MAY	4.17	2.45	1973			
JUNE	3.86	2.60	1950			
JULY	4.65	3.80	1965			
AUG.	3.62	4.18	1972			
SEP.	3.17	2.64	1942			
OCT.	2.14	1.77	1939			
NOV.	3.27	3.20	1936	1.1	4.0	1950
DEC.	3.24	2.63	1942	3.1	6.0	1945
YEAR	43.38	4.18	1972	17.4	12.0	1960

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	12	0	5	23	2	7
FEB.	11	0	3	21	1	5
MAR.	13	0	1	17	0	2
APR.	12	0	0	6	0	0
MAY	13	1	0	1	0	0
JUNE	11	8	0	0	0	0
JULY	11	11	0	0	0	0
AUG.	9	9	0	0	0	0
SEP.	8	3	0	0	0	0
OCT.	8	0	0	6	0	0
NOV.	10	0	0	16	0	1
DEC.	11	0	3	23	1	4
YEAR	129	32	12	113	4	19

FARMERS (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	83	78	76	73	70	68	67	65	63	60	57	55	50
FEB.	79	75	73	71	69	68	67	65	64	62	60	58	54
MAR.	90	86	84	81	80	78	77	75	73	72	69	67	63
APR.	92	90	89	87	86	85	85	84	83	82	80	79	77
MAY	94	93	92	91	90	89	89	88	87	86	85	84	83
JUNE	100	98	97	96	95	94	94	93	92	91	90	89	87
JULY	103	100	99	97	96	94	94	93	91	90	88	87	84
AUG.	103	100	99	97	96	95	94	94	93	91	90	88	86
SEP.	101	98	96	94	93	92	91	89	88	87	85	83	80
OCT.	93	90	89	87	86	84	84	83	81	80	78	77	74
NOV.	87	84	82	80	78	77	76	74	73	71	69	67	64
DEC.	79	75	73	71	69	68	67	65	64	62	60	58	54

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	22	15	11	6	3	0	-2	-4	-7	-10	-15	-19	-26
FEB.	23	17	13	9	6	4	2	0	-2	-5	-9	-13	-19
MAR.	31	25	22	19	17	14	13	11	8	6	3	0	-5
APR.	32	29	28	26	25	24	24	23	22	21	19	18	15
MAY	43	40	38	36	35	34	33	31	30	29	27	25	22
JUNE	53	50	49	47	46	45	44	42	41	40	38	37	34
JULY	60	57	55	53	52	51	50	48	47	46	44	42	39
AUG.	58	55	53	51	49	48	47	45	44	42	40	39	35
SEP.	45	43	41	40	38	37	37	36	35	33	32	30	28
OCT.	33	30	29	27	26	25	24	22	21	20	18	17	14
NOV.	23	20	19	17	16	15	14	12	11	10	8	7	4
DEC.	22	17	14	11	8	6	5	3	1	-1	-4	-7	-12

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	1.08	1.42	1.92	3.22	5.01	6.16	7.23
FEB.	0.86	1.19	1.69	3.03	4.96	6.23	7.42
MAR.	1.60	2.03	2.64	4.16	6.18	7.45	8.61
APR.	1.45	1.79	2.29	3.49	5.05	6.03	6.92
MAY	1.87	2.24	2.75	3.95	5.46	6.38	7.22
JUNE	1.26	1.62	2.16	3.52	5.36	6.52	7.60
JULY	1.34	1.78	2.44	4.17	6.59	8.14	9.59
AUG.	0.95	1.29	1.82	3.21	5.20	6.49	7.70
SEP.	1.18	1.48	1.91	2.94	4.31	5.16	5.94
OCT.	0.52	0.72	1.03	1.87	3.10	3.90	4.66
NOV.	1.18	1.49	1.93	3.02	4.46	5.37	6.19
DEC.	0.98	1.29	1.75	2.93	4.56	5.60	6.57

FRANKFORT

LATITUDE 38 DEGREES 14 MINUTES
LONGITUDE 84 DEGREES 52 MINUTES

MEANS FOR THE PERIOD 1949-74
EXTREMES FOR THE PERIOD 1949-74

TEMPERATURE (CEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	43.2	23.1	33.2	77	1950	-20	1963
FEB.	45.8	23.9	34.8	75	1954	-11	1951
MAR.	53.7	30.7	42.2	83	1967	-3	1960
APR.	66.1	40.7	53.4	87	1960	16	1969
MAY	76.0	50.6	63.3	94	1953	27	1963
JUNE	84.0	59.6	71.8	103	1954	36	1966
JULY	87.7	63.7	75.7	106	1954	49	1968
AUG.	86.9	61.9	74.4	101	1953	42	1964
SEP.	81.3	54.9	68.1	106	1953	35	1949
OCT.	70.8	42.9	56.9	98	1953	20	1952
NOV.	56.0	32.7	44.4	84	1950	2	1950
DEC.	45.8	25.5	35.7	74	1970	-5	1962
YEAR	66.4	42.5	54.5	106	1954	-20	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.60	1.85	1960	3.3	8.2	1964
FEB.	3.09	1.80	1972	2.1	5.0	1961
MAR.	4.41	3.98	1964	1.7	8.2	1968
APR.	3.87	2.47	1957	0.0	0.5	1973
MAY	4.33	4.33	1961			
JUNE	3.83	3.96	1960			
JULY	4.23	2.85	1968			
AUG.	2.99	2.02	1969			
SEP.	3.33	4.33	1965			
OCT.	2.22	3.95	1959			
NOV.	3.39	3.22	1957	0.5	5.5	1958
DEC.	3.32	2.35	1952	1.1	3.6	1961
YEAR	42.62	4.33	1961	6.7	8.2	1964

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	11	0	6	24	1	3
FEB.	10	0	3	22	1	2
MAR.	12	0	1	19	0	1
APR.	12	0	0	7	0	0
MAY	11	1	0	0	0	0
JUNE	10	6	0	0	0	0
JULY	10	11	0	0	0	0
AUG.	8	11	0	0	0	0
SEP.	8	5	0	0	0	0
OCT.	7	1	0	4	0	0
NOV.	10	0	1	16	0	0
DEC.	10	0	4	23	0	1
YEAR	119	35	15	115	2	7

FRANKFORT (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	76	72	71	68	67	66	65	63	62	61	58	57	53
FEB.	77	73	72	69	68	67	66	64	63	62	59	58	54
MAR.	87	83	81	79	77	76	75	73	72	70	68	66	62
APR.	88	86	85	84	84	83	83	82	81	81	80	79	77
MAY	95	93	92	90	89	88	88	87	86	85	83	82	80
JUNE	101	99	97	96	94	93	93	92	91	89	88	86	84
JULY	104	101	100	98	97	96	95	93	92	91	89	88	85
AUG.	102	100	99	97	96	95	95	94	93	92	90	89	87
SEP.	104	100	99	97	95	94	93	91	90	88	86	85	81
OCT.	96	93	91	89	87	86	85	83	82	80	78	76	73
NOV.	86	83	81	79	77	76	75	73	72	70	68	66	63
DEC.	76	73	71	69	68	67	66	64	63	62	60	58	55

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	21	15	12	8	5	3	1	-1	-3	-6	-10	-13	-19
FEB.	23	17	14	11	8	6	4	1	0	-3	-6	-9	-15
MAR.	29	25	23	20	18	17	16	14	13	11	8	6	2
APR.	33	31	30	28	27	26	26	25	24	23	21	20	18
MAY	47	43	42	40	38	37	36	34	33	31	29	28	24
JUNE	56	53	52	50	49	47	47	46	44	43	41	40	37
JULY	59	57	56	55	54	53	53	52	51	50	49	48	46
AUG.	60	57	56	54	53	52	51	49	48	47	45	44	41
SEP.	50	47	45	44	43	41	41	40	38	37	36	34	31
OCT.	37	34	33	31	30	29	28	26	25	24	22	21	18
NOV.	28	25	23	20	18	17	16	14	13	11	8	6	3
DEC.	24	19	16	13	11	9	8	6	4	2	0	-3	-8

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	0.81	1.14	1.67	3.13	5.27	6.70	8.04
FEB.	0.78	1.07	1.52	2.72	4.44	5.57	6.63
MAR.	1.22	1.64	2.28	3.94	6.27	7.79	9.20
APR.	1.59	1.95	2.45	3.63	5.16	6.10	6.96
MAY	2.04	2.42	2.94	4.13	5.61	6.51	7.32
JUNE	1.19	1.55	2.09	3.47	5.36	6.57	7.69
JULY	1.50	1.90	2.48	3.90	5.80	6.99	8.08
AUG.	1.17	1.45	1.84	2.79	4.02	4.79	5.49
SEP.	0.69	1.00	1.49	2.86	4.91	6.29	7.59
OCT.	0.46	0.67	0.99	1.91	3.27	4.18	5.04
NOV.	1.32	1.64	2.08	3.16	4.57	5.44	6.23
DEC.	0.97	1.28	1.76	2.99	4.70	5.80	6.83

GREENSBURG

LATITUDE 37 DEGREES 15 MINUTES
LONGITUDE 85 DEGREES 30 MINUTES

MEANS FOR THE PERIOD 1941-70
EXTREMES FOR THE PERIOD 1932-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MCNTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	45.4	24.3	34.9	79	1943	-25	1963
FEB.	48.7	26.0	37.4	80	1962	-12	1951
MAR.	57.3	33.2	45.2	86	1945	-4	1960
APR.	70.0	43.8	56.9	93	1942	20	1936
MAY	78.5	52.6	65.6	99	1937	27	1940
JUNE	85.9	61.4	73.7	107	1936	39	1966
JULY	88.6	64.8	76.7	108	1936	43	1937
AUG.	88.0	63.2	75.6	108	1936	42	1935
SEP.	82.5	55.6	69.1	105	1954	29	1942
OCT.	72.5	43.3	57.9	92	1954	20	1952
NOV.	58.2	33.4	45.8	84	1950	-3	1950
DEC.	47.4	26.4	36.9	74	1951	-12	1962
YEAR	68.6	44.0	56.3	108	1936	-25	1963

PRECIPITATION (IN.):

MCNTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.29	3.76	1932	4.4	5.5	1966
FEB.	3.92	3.50	1949	2.7	7.0	1969
MAR.	5.19	3.02	1967	2.1	12.0	1960
APR.	4.06	3.00	1948	0.0	0.8	1940
MAY	4.68	3.25	1974			
JUNE	4.70	4.20	1949			
JULY	4.71	3.80	1971			
AUG.	4.07	8.05	1967			
SEP.	3.26	3.52	1938			
OCT.	2.39	2.34	1942			
NOV.	3.60	2.88	1957	0.8	11.0	1966
DEC.	4.06	2.84	1964	2.2	8.0	1966
YEAR	48.93	8.05	1967	12.3	12.0	1960

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	10	0	5	23	2	5
FEB.	9	0	2	20	1	3
MAR.	11	0	0	16	0	1
APR.	10	0	0	4	0	0
MAY	10	2	0	0	0	0
JUNE	9	10	0	0	0	0
JULY	10	14	0	0	0	0
AUG.	9	14	0	0	0	0
SEP.	7	6	0	0	0	0
OCT.	7	0	0	5	0	0
NOV.	8	0	0	15	0	1
DEC.	9	0	3	22	0	2
YEAR	109	46	10	105	3	12

GREENSBURG (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	82	77	75	73	71	69	68	66	64	62	60	58	53
FEB.	79	76	74	72	70	69	68	66	65	63	61	59	56
MAR.	88	84	83	81	79	78	77	75	74	72	70	69	65
APR.	91	89	88	87	86	85	85	84	83	82	81	80	78
MAY	96	94	93	92	91	90	90	89	88	87	86	85	83
JUNE	101	99	98	96	95	94	94	93	92	91	89	88	86
JULY	105	102	101	99	98	97	96	95	94	93	91	89	87
AUG.	104	102	100	99	98	96	96	95	93	92	91	89	87
SEP.	103	100	98	97	96	94	94	93	91	90	89	87	84
OCT.	93	91	89	88	87	86	86	85	84	83	82	80	78
NOV.	87	84	82	81	79	78	77	76	75	73	71	70	67
DEC.	79	75	73	71	69	67	66	65	63	61	59	57	53

EXTREME LCW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	25	18	14	9	6	3	1	-1	-4	-7	-12	-16	-23
FEB.	24	18	15	12	9	7	5	2	0	-2	-5	-8	-14
MAR.	31	26	24	21	19	17	16	14	12	10	7	5	0
APR.	35	33	31	30	28	27	27	26	25	23	22	20	18
MAY	48	45	43	41	39	38	37	35	34	32	30	28	25
JUNE	56	54	52	51	49	48	48	47	46	44	43	41	39
JULY	63	60	58	57	55	54	53	52	51	50	48	46	43
AUG.	60	57	56	53	52	51	50	48	47	46	43	42	39
SEP.	49	47	45	43	42	41	40	38	37	36	34	32	30
OCT.	36	33	32	30	29	28	27	25	24	23	21	20	17
NOV.	29	25	23	21	19	17	16	15	13	11	9	7	3
DEC.	26	21	18	14	12	10	8	6	4	1	-1	-4	-9

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	1.04	1.45	2.07	3.77	6.22	7.83	9.34
FEB.	0.76	1.11	1.69	3.33	5.81	7.49	9.08
MAR.	1.64	2.14	2.87	4.72	7.25	8.86	10.35
APR.	1.69	2.06	2.58	3.81	5.39	6.37	7.25
MAY	1.69	2.13	2.76	4.32	6.39	7.68	8.87
JUNE	1.66	2.10	2.75	4.33	6.45	7.78	9.00
JULY	1.55	2.00	2.65	4.30	6.54	7.95	9.26
AUG.	1.49	1.88	2.43	3.77	5.55	6.66	7.68
SEP.	0.63	0.93	1.41	2.77	4.83	6.22	7.54
OCT.	0.60	0.82	1.17	2.10	3.44	4.32	5.14
NOV.	1.30	1.64	2.13	3.33	4.92	5.92	6.83
DEC.	1.09	1.47	2.06	3.61	5.80	7.22	8.55

GREENVILLE

LATITUDE 37 DEGREES 12 MINUTES MEANS FOR THE PERIOD 1941-70
 LONGITUDE 87 DEGREES 12 MINUTES EXTREMES FOR THE PERIOD 1932-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	45.9	25.9	35.9	79	1943	-19	1963
FEB.	49.5	28.0	38.8	81	1962	-17	1951
MAR.	58.1	35.3	46.7	85	1963	6	1943
APR.	70.4	46.2	58.3	89	1942	20	1944
MAY	78.2	53.8	66.0	96	1941	28	1963
JUNE	86.0	62.3	74.2	103	1932	40	1944
JULY	88.8	65.4	77.1	107	1936	43	1947
AUG.	88.2	63.8	76.0	105	1936	41	1946
SEP.	82.5	56.5	69.5	104	1953	28	1942
OCT.	72.9	45.5	59.2	95	1953	18	1952
NOV.	58.4	35.8	47.1	83	1946	6	1950
DEC.	48.0	28.5	38.2	77	1946	-11	1952
YEAR	68.9	45.6	57.3	107	1936	-19	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.14	4.02	1937	2.0	6.0	1943
FEB.	3.65	3.45	1972	1.1	5.0	1936
MAR.	4.76	4.78	1964	1.1	11.0	1947
APR.	4.07	3.60	1942	0.1	4.0	1951
MAY	4.32	2.74	1967			
JUNE	3.77	7.20	1969			
JULY	4.07	4.03	1967			
AUG.	3.58	3.72	1954			
SEP.	3.04	3.05	1965			
OCT.	2.45	2.64	1947			
NOV.	3.90	4.07	1957	0.4	4.0	1966
DEC.	3.75	3.55	1972	0.8	4.5	1935
YEAR	45.50	7.20	1969	5.4	11.0	1947

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	10	0	4	22	1	5
FEB.	9	0	2	18	0	3
MAR.	10	0	0	14	0	1
APR.	11	0	0	3	0	0
MAY	10	1	0	0	0	0
JUNE	8	9	0	0	0	0
JULY	8	14	0	0	0	0
AUG.	7	13	0	0	0	0
SEP.	7	5	0	0	0	0
OCT.	6	0	0	3	0	0
NOV.	9	0	0	13	0	0
DEC.	9	0	2	20	0	1
YEAR	104	42	8	93	1	10

GREENVILLE (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	79	75	73	70	69	67	66	64	62	61	58	56	52
FEB.	79	75	74	72	70	69	68	66	65	63	61	60	56
MAR.	88	84	82	80	78	77	76	74	73	71	69	67	63
APR.	89	88	87	86	85	84	84	83	82	81	80	79	78
MAY	94	92	91	90	89	88	88	87	86	85	84	83	81
JUNE	102	99	98	96	95	94	94	93	92	91	89	88	85
JULY	104	101	99	98	97	95	95	94	92	91	90	88	85
AUG.	104	101	100	99	97	96	96	95	94	92	91	90	87
SEP.	102	99	98	96	95	94	93	91	90	89	87	86	83
OCT.	94	92	90	89	87	86	86	85	84	82	81	79	77
NOV.	86	83	81	79	78	77	76	74	73	72	70	68	65
DEC.	79	76	74	72	70	69	68	67	65	64	61	60	56

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	22	16	12	8	5	3	1	-1	-3	-6	-10	-14	-20
FEB.	25	19	16	12	9	7	5	2	0	-2	-6	-9	-15
MAR.	28	24	22	20	18	17	16	14	13	11	9	7	3
APR.	35	33	31	30	29	27	27	26	24	23	22	20	18
MAY	48	44	43	41	39	38	37	35	34	32	30	29	25
JUNE	57	54	53	51	50	49	48	46	45	44	42	41	38
JULY	63	60	59	57	56	55	54	52	51	50	48	47	44
AUG.	60	57	55	53	52	51	50	48	47	46	44	42	39
SEP.	50	47	45	43	41	40	39	37	36	34	32	30	27
OCT.	36	33	32	30	29	27	27	26	24	23	21	20	17
NOV.	26	23	21	19	17	16	15	13	12	10	8	6	3
DEC.	25	20	17	14	12	10	8	6	4	1	-1	-4	-9

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	0.89	1.27	1.88	3.57	6.07	7.74	9.32
FEB.	0.82	1.15	1.69	3.17	5.34	6.78	8.14
MAR.	1.39	1.85	2.53	4.29	6.73	8.30	9.77
APR.	1.76	2.12	2.63	3.84	5.37	6.31	7.15
MAY	1.41	1.82	2.42	3.94	6.00	7.31	8.52
JUNE	0.84	1.19	1.74	3.27	5.51	7.01	8.41
JULY	1.48	1.86	2.41	3.76	5.55	6.67	7.70
AUG.	1.06	1.41	1.92	3.23	5.05	6.22	7.31
SEP.	0.71	1.00	1.44	2.66	4.43	5.59	6.69
OCT.	0.40	0.61	0.97	2.03	3.70	4.85	5.95
NOV.	1.44	1.80	2.33	3.61	5.30	6.36	7.33
DEC.	1.21	1.57	2.09	3.42	5.22	6.37	7.43

HEIDELBERG

LATITUDE 37 DEGREES 33 MINUTES MEANS FOR THE PERIOD 1941-70
 LONGITUDE 83 DEGREES 46 MINUTES EXTREMES FOR THE PERIOD 1932-74

TEMPERATURE (CEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	46.9	25.2	36.0	79	1943	-22	1963
FEB.	50.2	26.2	38.2	78	1944	-10	1955
MAR.	59.2	32.3	45.8	87	1945	-9	1960
APR.	71.5	42.1	56.8	93	1942	18	1960
MAY	79.3	50.8	65.1	99	1941	27	1963
JUNE	85.5	59.5	72.5	104	1936	33	1966
JULY	87.6	63.3	75.5	103	1936	45	1944
AUG.	86.6	62.2	74.4	105	1936	44	1945
SEP.	81.3	55.0	68.1	101	1953	32	1942
OCT.	72.1	43.4	57.8	94	1941	15	1962
NOV.	58.9	33.1	46.0	85	1961	2	1938
DEC.	48.7	26.5	37.6	78	1951	-15	1962
YEAR	69.0	43.3	56.1	105	1936	-22	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.69	2.76	1974	4.0	7.0	1954
FEB.	3.76	3.70	1962	3.8	9.5	1934
MAR.	4.50	2.64	1952	2.4	8.0	1947
APR.	3.74	2.85	1972	0.0	0.5	1943
MAY	3.82	3.09	1965			
JUNE	4.27	4.57	1960			
JULY	5.29	4.15	1965			
AUG.	3.77	3.15	1961			
SEP.	2.85	3.04	1972			
OCT.	2.06	1.72	1955			
NOV.	3.46	3.12	1952	0.9	5.0	1938
DEC.	3.42	2.22	1972	2.3	8.0	1939
YEAR	44.63	4.57	1960	13.4	9.5	1934

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	12	0	3	22	1	5
FEB.	11	0	2	20	1	4
MAR.	12	0	0	17	0	1
APR.	11	0	0	6	0	0
MAY	11	2	0	1	0	0
JUNE	10	8	0	0	0	0
JULY	11	11	0	0	0	0
AUG.	8	9	0	0	0	0
SEP.	7	3	0	0	0	0
OCT.	7	0	0	5	0	0
NOV.	10	0	0	16	0	1
DEC.	11	0	2	22	0	3
YEAR	121	33	7	109	2	14

HEIDELBERG (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	81	77	75	73	71	69	68	66	65	63	60	58	54
FEB.	83	80	78	76	74	73	72	70	69	67	65	63	60
MAR.	90	86	84	82	80	79	78	76	75	73	71	69	65
APR.	93	91	90	89	88	87	87	86	85	84	83	82	80
MAY	96	94	93	92	91	90	90	89	88	87	86	85	83
JUNE	99	97	96	95	94	93	93	92	91	90	89	88	86
JULY	101	99	98	96	95	94	94	93	92	91	89	88	86
AUG.	100	98	97	96	95	94	94	93	92	91	90	89	87
SEP.	100	97	96	94	93	92	91	89	88	87	85	84	81
OCT.	92	90	88	87	85	84	84	83	82	80	79	77	75
NOV.	86	83	81	79	78	77	76	74	73	72	70	68	65
DEC.	79	75	73	71	69	68	67	65	64	62	60	58	54

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	24	17	13	8	4	1	0	-3	-6	-9	-14	-18	-26
FEB.	22	16	13	9	7	5	3	0	-1	-3	-7	-10	-16
MAR.	30	25	22	19	16	14	13	11	9	6	3	0	-4
APR.	33	30	29	28	27	26	25	24	23	22	20	19	16
MAY	44	41	40	37	36	35	34	32	31	30	27	26	23
JUNE	55	52	50	48	47	46	45	43	42	41	39	37	34
JULY	61	58	56	54	53	52	51	49	48	47	45	43	40
AUG.	60	57	55	53	52	51	50	48	47	46	44	42	39
SEP.	47	44	43	41	40	39	38	36	35	34	32	31	28
OCT.	35	32	30	28	27	26	25	23	22	21	19	17	14
NOV.	26	23	21	19	17	16	15	13	12	10	8	6	3
DEC.	23	17	15	11	9	6	5	3	0	-1	-5	-7	-13

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	1.14	1.49	2.01	3.34	5.17	6.33	7.41
FEB.	0.83	1.18	1.73	3.26	5.51	7.00	8.41
MAR.	1.76	2.17	2.77	4.20	6.05	7.21	8.26
APR.	1.35	1.71	2.21	3.46	5.11	6.15	7.09
MAY	1.75	2.09	2.55	3.63	4.98	5.79	6.53
JUNE	1.68	2.07	2.64	3.99	5.75	6.84	7.83
JULY	1.97	2.46	3.17	4.91	7.19	8.62	9.93
AUG.	1.15	1.51	2.04	3.41	5.29	6.49	7.61
SEP.	0.79	1.06	1.47	2.54	4.05	5.03	5.95
OCT.	0.48	0.67	0.98	1.80	3.00	3.79	4.54
NOV.	1.27	1.60	2.06	3.20	4.71	5.65	6.51
DEC.	1.00	1.32	1.81	3.08	4.84	5.97	7.02

HENDERSON

LATITUDE 37 DEGREES 45 MINUTES MEANS FOR THE PERIOD 1941-70
 LONGITUDE 87 DEGREES 38 MINUTES EXTREMES FOR THE PERIOD 1932-74

TEMPERATURE (DEG. F.):

MCNTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MCNTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	43.7	25.8	34.8	78	1943	-18	1936
FEB.	47.4	28.1	37.7	80	1962	-15	1951
MAR.	56.2	35.6	45.9	84	1945	-4	1960
APR.	68.9	46.8	57.9	91	1937	24	1936
MAY	77.6	55.1	66.4	97	1934	31	1963
JUNE	85.9	63.5	74.7	107	1936	41	1956
JULY	88.5	66.3	77.4	113	1936	45	1947
AUG.	88.0	64.4	76.2	108	1936	45	1965
SEP.	82.1	57.3	69.7	104	1939	33	1942
OCT.	72.3	46.7	59.5	96	1953	21	1942
NOV.	56.9	36.4	46.6	85	1933	-5	1950
DEC.	45.6	28.4	37.0	77	1951	-7	1935
YEAR	67.8	46.2	57.0	113	1936	-18	1936

PRECIPITATION (IN.):

MCNTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.94	4.15	1937	4.0	7.0	1942
FEB.	3.45	3.57	1945	3.0	7.5	1939
MAR.	5.26	6.26	1964	3.3	10.0	1947
APR.	4.37	3.91	1948	0.0	7.0	1971
MAY	4.31	3.25	1957			
JUNE	3.88	3.06	1934			
JULY	4.00	5.02	1965			
AUG.	3.35	4.32	1942			
SEP.	2.91	4.10	1932			
OCT.	2.57	2.35	1941			
NOV.	3.49	2.83	1936	0.8	8.5	1958
DEC.	3.40	4.28	1932	1.8	7.0	1935
YEAR	44.93	6.26	1964	13.0	10.0	1947

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	9	0	5	22	1	5
FEB.	9	0	3	19	0	3
MAR.	11	0	1	14	0	1
APR.	11	0	0	2	0	0
MAY	10	1	0	0	0	0
JUNE	9	9	0	0	0	0
JULY	9	15	0	0	0	0
AUG.	7	13	0	0	0	0
SEP.	7	5	0	0	0	0
OCT.	6	0	0	2	0	0
NOV.	9	0	0	12	0	1
DEC.	10	0	4	21	0	2
YEAR	107	43	13	92	1	12

HENDERSON (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	79	75	72	70	68	66	65	63	61	59	57	54	50
FEB.	78	74	73	71	69	68	67	65	64	62	60	59	55
MAR.	87	83	82	80	78	77	76	74	73	71	69	68	64
APR.	90	88	87	86	85	84	84	83	82	81	80	79	77
MAY	95	93	92	91	90	89	89	88	87	86	85	84	82
JUNE	103	101	99	98	96	95	95	94	93	91	90	88	86
JULY	103	101	100	98	97	96	96	95	94	93	91	90	88
AUG.	105	103	101	100	99	97	97	96	94	93	92	90	88
SEP.	103	100	99	97	96	95	94	92	91	90	88	87	84
OCT.	95	92	91	89	88	87	86	84	83	82	80	79	76
NOV.	86	83	81	79	77	76	75	73	72	70	68	66	63
DEC.	77	74	72	70	68	67	66	64	63	61	59	57	54

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	22	16	13	9	6	4	2	0	-2	-5	-9	-12	-18
FEB.	28	22	19	15	12	10	8	5	3	0	-3	-6	-12
MAR.	33	28	25	22	20	18	17	15	13	11	8	5	0
APR.	37	35	34	32	31	30	30	29	28	27	25	24	22
MAY	47	44	43	41	40	39	38	36	35	34	32	31	28
JUNE	58	56	54	52	51	50	49	47	46	45	43	41	39
JULY	64	61	59	57	56	55	54	52	51	50	48	46	43
AUG.	60	57	56	54	53	52	51	49	48	47	45	44	41
SEP.	49	46	45	43	42	41	40	38	37	36	34	33	30
OCT.	37	35	33	32	31	29	29	28	26	25	24	22	20
NOV.	31	27	25	22	20	18	17	15	13	11	8	6	2
DEC.	26	21	18	15	13	10	9	7	4	2	0	-3	-8

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	0.63	0.97	1.55	3.26	5.95	7.80	9.57
FEB.	0.58	0.88	1.39	2.88	5.19	6.77	8.29
MAR.	1.08	1.56	2.34	4.51	7.75	9.93	11.99
APR.	1.70	2.11	2.68	4.08	5.89	7.02	8.04
MAY	1.68	2.08	2.64	4.02	5.80	6.91	7.93
JUNE	1.51	1.87	2.38	3.62	5.23	6.23	7.14
JULY	0.71	1.06	1.65	3.35	5.59	7.78	9.49
AUG.	0.80	1.11	1.60	2.93	4.86	6.13	7.32
SEP.	0.62	0.89	1.32	2.51	4.28	5.47	6.59
OCT.	0.49	0.72	1.10	2.18	3.82	4.92	5.97
NOV.	1.00	1.33	1.83	3.13	4.95	6.12	7.21
DEC.	0.99	1.32	1.80	3.06	4.81	5.94	6.98

HICKMAN

LATITUDE 36 DEGREES 34 MINUTES MEANS FOR THE PERIOD 1951-74
 LONGITUDE 89 DEGREES 10 MINUTES EXTREMES FOR THE PERIOD 1951-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	45.4	26.0	35.7	78	1967	-8	1963
FEB.	50.0	28.8	39.4	79	1962	-2	1958
MAR.	58.4	36.2	47.3	88	1963	2	1960
APR.	70.6	47.4	59.0	90	1965	24	1954
MAY	79.2	55.8	67.5	95	1953	34	1963
JUNE	87.8	63.8	75.8	105	1952	43	1956
JULY	89.9	66.8	78.3	105	1952	48	1962
AUG.	89.7	64.7	77.2	105	1954	46	1956
SEP.	83.9	57.5	70.7	105	1954	36	1953
OCT.	74.1	45.6	59.9	95	1953	24	1961
NOV.	59.5	35.7	47.6	85	1955	9	1951
DEC.	48.4	29.2	38.8	74	1970	-10	1963
YEAR	69.7	46.5	58.1	105	1952	-10	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.26	5.22	1966	2.4	6.0	1968
FEB.	3.98	2.68	1956	2.1	9.0	1965
MAR.	5.12	4.80	1964	2.8	10.0	1968
APR.	5.11	5.22	1973	0.0	0.5	1971
MAY	5.08	4.60	1973			
JUNE	3.72	2.85	1961			
JULY	3.27	6.28	1972			
AUG.	3.49	5.76	1971			
SEP.	3.45	3.61	1965			
OCT.	2.41	2.30	1972			
NOV.	4.32	3.65	1957	0.5	4.0	1971
DEC.	4.81	3.35	1972	1.5	6.5	1967
YEAR	49.01	6.28	1972	9.3	10.0	1968

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	9	0	4	22	1	2
FEB.	10	0	2	18	0	1
MAR.	11	0	0	12	0	0
APR.	12	0	0	1	0	0
MAY	10	3	0	0	0	0
JUNE	8	13	0	0	0	0
JULY	8	18	0	0	0	0
AUG.	7	17	0	0	0	0
SEP.	7	8	0	0	0	0
OCT.	6	1	0	3	0	0
NOV.	9	0	0	12	0	0
DEC.	10	0	2	20	0	1
YEAR	107	60	8	88	1	4

HICKMAN (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	80	76	74	72	70	68	67	66	64	62	60	58	54
FEB.	80	77	75	73	71	70	69	67	66	64	62	60	57
MAR.	89	85	83	81	79	78	77	75	74	72	70	68	64
APR.	90	88	87	86	85	84	84	83	82	81	80	79	77
MAY	95	93	92	91	90	89	89	88	87	86	85	84	82
JUNE	103	101	100	98	97	96	96	95	94	93	91	90	88
JULY	103	101	100	99	98	97	97	96	95	94	93	92	90
AUG.	105	102	101	99	98	97	97	96	95	94	92	91	88
SEP.	104	101	99	97	96	95	94	92	91	90	88	86	83
OCT.	94	92	90	89	88	87	87	86	85	84	83	81	79
NOV.	86	83	82	80	79	78	77	75	74	73	71	70	67
DEC.	76	74	72	70	69	68	67	65	64	63	61	59	57

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	22	17	15	11	9	7	5	3	1	0	-3	-6	-11
FEB.	29	24	21	18	15	13	12	10	8	5	2	0	-5
MAR.	35	31	28	25	23	21	20	18	16	14	11	8	4
APR.	39	36	35	33	32	31	31	30	29	28	26	25	22
MAY	50	47	46	44	42	41	40	39	38	37	35	33	30
JUNE	59	56	55	53	52	51	50	48	47	46	44	43	40
JULY	62	60	58	57	55	54	54	53	52	50	49	47	45
AUG.	60	58	56	55	53	52	52	51	50	48	47	45	43
SEP.	50	47	46	44	43	41	41	40	38	37	35	34	31
OCT.	37	35	33	32	30	29	29	28	27	25	24	22	20
NOV.	28	25	23	21	20	19	18	16	15	14	12	10	7
DEC.	28	22	19	16	13	11	9	6	4	1	-1	-4	-10

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	0.90	1.29	1.92	3.67	6.26	8.00	9.65
FEB.	1.08	1.45	2.03	3.55	5.69	7.09	8.39
MAR.	1.16	1.64	2.39	4.45	7.47	9.47	11.36
APR.	2.17	2.64	3.29	4.82	6.76	7.96	9.05
MAY	1.56	2.04	2.76	4.60	7.13	8.75	10.25
JUNE	0.79	1.13	1.68	3.20	5.46	6.98	8.41
JULY	0.73	1.03	1.51	2.83	4.78	6.07	7.29
AUG.	1.04	1.37	1.87	3.15	4.91	6.05	7.10
SEP.	0.70	1.01	1.52	2.95	5.10	6.55	7.92
OCT.	0.40	0.60	0.95	2.00	3.63	4.75	5.82
NOV.	1.05	1.46	2.09	3.79	6.25	7.86	9.38
DEC.	1.31	1.76	2.46	4.28	6.86	8.53	10.09

HOPKINSVILLE

LATITUDE 36 DEGREES 51 MINUTES MEANS FOR THE PERIOD 1941-70
 LONGITUDE 87 DEGREES 30 MINUTES EXTREMES FOR THE PERIOD 1932-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	45.4	25.0	35.2	78	1943	-20	1963
FEB.	49.0	27.3	38.1	82	1962	-22	1951
MAR.	57.3	34.5	45.9	87	1967	-3	1960
APR.	70.1	46.2	58.1	90	1965	22	1950
MAY	78.5	54.8	66.6	97	1937	31	1954
JUNE	86.3	63.0	74.7	105	1952	40	1956
JULY	89.2	65.9	77.6	110	1936	45	1947
AUG.	89.1	64.6	76.9	108	1954	41	1946
SEP.	83.0	57.4	70.2	104	1939	34	1942
OCT.	73.2	45.7	59.4	98	1953	21	1952
NOV.	58.5	34.8	46.6	85	1950	-4	1950
DEC.	47.8	27.3	37.6	78	1951	-9	1962
YEAR	69.0	45.6	57.3	110	1936	-22	1951

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.26	4.47	1951	3.5	6.0	1943
FEB.	4.01	4.75	1949	2.2	7.0	1951
MAR.	5.29	3.44	1964	2.3	12.0	1960
APR.	4.16	3.37	1942	0.0	0.5	1971
MAY	4.36	3.86	1953			
JUNE	4.10	4.22	1960			
JULY	3.85	4.13	1933			
AUG.	3.45	2.93	1949			
SEP.	2.97	4.15	1965			
OCT.	2.63	2.55	1947			
NOV.	4.10	4.07	1948	0.5	4.9	1966
DEC.	4.07	2.75	1948	1.2	8.0	1963
YEAR	47.24	4.75	1949	9.7	12.0	1960

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	10	0	5	24	1	2
FEB.	9	0	2	20	0	1
MAR.	11	0	1	14	0	1
APR.	11	0	0	2	0	0
MAY	10	2	0	0	0	0
JUNE	9	10	0	0	0	0
JULY	9	17	0	0	0	0
AUG.	8	16	0	0	0	0
SEP.	7	7	0	0	0	0
OCT.	7	1	0	2	0	0
NOV.	8	0	1	14	0	0
DEC.	9	0	3	22	0	1
YEAR	108	53	12	98	1	5

HOPKINSVILLE (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	80	76	74	71	70	68	67	65	63	62	59	57	53
FEB.	80	77	75	73	71	70	69	67	66	64	62	60	57
MAR.	90	86	84	81	79	78	77	75	74	72	69	67	63
APR.	91	89	88	87	86	85	85	84	83	82	81	80	78
MAY	96	94	93	91	90	89	89	88	87	86	84	83	81
JUNE	103	101	99	98	96	95	95	94	93	91	90	88	86
JULY	105	103	101	100	98	97	97	96	95	93	92	90	88
AUG.	108	105	103	101	100	99	98	96	95	94	92	90	87
SEP.	103	100	99	97	96	95	94	92	91	90	88	87	84
OCT.	96	93	92	90	89	88	87	85	84	83	81	80	77
NOV.	87	84	82	80	79	78	77	75	74	73	71	69	66
DEC.	78	74	73	71	69	68	67	65	64	62	60	59	55

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	24	18	14	10	7	5	3	0	-1	-4	-8	-12	-18
FEB.	30	24	20	16	13	10	8	5	2	0	-4	-8	-14
MAR.	34	29	27	24	21	19	18	16	14	11	8	6	1
APR.	38	35	34	32	31	29	29	28	26	25	23	22	19
MAY	48	45	43	41	40	39	38	36	35	34	32	30	27
JUNE	60	57	55	53	52	51	50	48	47	46	44	42	39
JULY	64	61	60	58	57	56	55	53	52	51	49	48	45
AUG.	62	59	58	56	55	54	53	51	50	49	47	46	43
SEP.	52	49	48	45	44	43	42	40	39	38	35	34	31
OCT.	39	36	34	32	31	30	29	27	26	25	23	21	18
NOV.	30	26	24	21	20	18	17	15	13	12	9	7	3
DEC.	25	20	18	15	12	10	9	7	5	2	0	-2	-7

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	0.97	1.36	1.99	3.70	6.22	7.89	9.46
FEB.	0.80	1.16	1.75	3.42	5.94	7.63	9.24
MAR.	1.90	2.39	3.11	4.88	7.23	8.71	10.06
APR.	1.85	2.22	2.74	3.94	5.47	6.40	7.23
MAY	1.09	1.50	2.14	3.84	6.28	7.88	9.38
JUNE	0.95	1.33	1.93	3.57	5.98	7.57	9.07
JULY	1.28	1.64	2.18	3.52	5.33	6.48	7.54
AUG.	0.80	1.12	1.63	3.01	5.02	6.36	7.61
SEP.	0.37	0.61	1.03	2.36	4.57	6.12	7.62
OCT.	0.50	0.74	1.12	2.23	3.91	5.04	6.12
NOV.	1.25	1.64	2.22	3.71	5.75	7.05	8.27
DEC.	1.42	1.81	2.37	3.75	5.59	6.76	7.83

LEITCHFIELD

LATITUDE 37 DEGREES 31 MINUTES MEANS FOR THE PERIOD 1949-74
 LONGITUDE 86 DEGREES 18 MINUTES EXTREMES FOR THE PERIOD 1949-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	44.6	26.4	35.5	75	1950	-19	1963
FEB.	47.9	27.8	37.9	79	1962	-18	1951
MAR.	56.5	35.0	45.7	87	1967	-3	1960
APR.	69.1	45.6	57.4	89	1965	23	1950
MAY	77.6	53.9	65.8	94	1962	30	1963
JUNE	84.7	62.2	73.5	104	1952	39	1969
JULY	87.8	65.9	76.8	105	1952	47	1968
AUG.	87.2	64.4	75.8	101	1953	47	1968
SEP.	80.9	57.9	69.4	105	1953	35	1949
OCT.	70.9	46.9	58.9	91	1953	23	1968
NOV.	56.4	35.9	46.2	82	1961	-5	1950
DEC.	46.7	29.0	37.8	73	1951	-7	1962
YEAR	67.5	45.9	56.7	105	1952	-19	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.28	3.78	1971	3.6	6.0	1966
FEB.	3.95	3.08	1972	2.8	6.0	1951
MAR.	4.89	3.18	1964	2.5	11.0	1960
APR.	3.80	3.21	1957			
MAY	4.29	4.13	1967			
JUNE	4.33	3.85	1973			
JULY	4.03	3.27	1957			
AUG.	3.34	3.76	1966			
SEP.	3.18	3.28	1950			
OCT.	2.51	3.57	1962			
NOV.	3.95	3.10	1957	0.9	8.0	1966
DEC.	4.21	3.10	1970	1.5	4.0	1963
YEAR	46.79	4.13	1967	11.4	11.0	1960

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	11	0	5	22	1	4
FEB.	10	0	3	19	0	3
MAR.	12	0	1	14	0	2
APR.	11	0	0	3	0	0
MAY	10	1	0	0	0	0
JUNE	9	7	0	0	0	0
JULY	10	12	0	0	0	0
AUG.	8	10	0	0	0	0
SEP.	7	4	0	0	0	0
OCT.	7	0	0	2	0	0
NOV.	10	0	1	12	0	1
DEC.	11	0	3	20	0	2
YEAR	116	34	13	92	1	12

LEITCHFIELD (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	76	72	71	69	67	66	65	63	62	60	58	57	53
FEB.	78	75	73	71	69	68	67	65	64	62	60	58	55
MAR.	87	83	81	79	77	76	75	73	72	70	68	66	62
APR.	91	89	88	86	85	85	84	83	82	81	80	79	77
MAY	95	93	92	91	90	89	89	88	87	86	85	84	82
JUNE	100	98	97	95	94	93	93	92	91	90	88	87	85
JULY	104	101	100	98	97	96	95	94	93	91	89	88	85
AUG.	103	101	99	98	97	96	95	94	93	92	90	89	86
SEP.	104	101	99	96	95	93	92	90	89	87	85	83	79
OCT.	93	90	89	87	86	85	84	82	81	80	78	77	74
NOV.	85	82	80	78	77	76	75	73	72	71	69	67	64
DEC.	76	73	71	69	68	67	66	64	63	62	60	58	55

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	24	18	14	10	7	5	3	0	-1	-4	-8	-12	-18
FEB.	28	21	18	14	11	8	6	3	0	-2	-6	-9	-16
MAR.	30	26	24	21	20	18	17	15	13	12	9	7	3
APR.	37	34	33	32	31	30	29	28	27	26	24	23	21
MAY	50	46	44	42	40	39	38	36	35	33	31	29	25
JUNE	60	56	55	52	51	50	49	47	46	45	42	41	37
JULY	63	61	59	58	57	56	55	54	53	51	50	48	46
AUG.	61	59	57	56	55	54	53	52	51	50	48	47	45
SEP.	52	49	47	46	44	43	42	41	40	38	37	35	32
OCT.	39	37	35	33	32	31	30	28	27	26	24	22	20
NOV.	30	26	23	21	19	17	16	14	12	10	8	5	1
DEC.	25	20	18	15	12	10	9	7	5	2	0	-2	-7

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	0.94	1.34	1.97	3.71	6.27	7.98	9.59
FEB.	1.12	1.50	2.07	3.54	5.60	6.93	8.17
MAR.	1.92	2.37	3.01	4.57	6.59	7.84	8.99
APR.	1.44	1.80	2.31	3.54	5.15	6.15	7.07
MAY	1.24	1.65	2.26	3.86	6.08	7.51	8.85
JUNE	1.24	1.65	2.27	3.89	6.13	7.59	8.94
JULY	1.41	1.79	2.34	3.71	5.54	6.69	7.75
AUG.	0.76	1.07	1.56	2.90	4.87	6.17	7.40
SEP.	0.60	0.88	1.35	2.69	4.73	6.11	7.43
OCT.	0.54	0.77	1.14	2.17	3.70	4.72	5.68
NOV.	1.03	1.40	1.97	3.50	5.68	7.10	8.43
DEC.	1.15	1.55	2.16	3.76	6.00	7.46	8.82

LEXINGTON

LATITUDE 38 DEGREES 2 MINUTES MEANS FOR THE PERIOD 1949-74
 LONGITUDE 84 DEGREES 36 MINUTES EXTREMES FOR THE PERIOD 1949-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	41.9	25.1	33.5	76	1950	-21	1963
FEB.	44.7	26.3	35.5	75	1972	-15	1951
MAR.	53.3	33.6	43.5	81	1967	-2	1960
APR.	65.5	44.0	54.8	88	1962	22	1964
MAY	75.1	53.5	64.3	92	1952	26	1966
JUNE	82.8	61.9	72.3	101	1954	39	1966
JULY	85.9	65.9	75.9	103	1952	47	1972
AUG.	85.1	64.3	74.7	99	1953	42	1965
SEP.	79.3	57.8	68.6	103	1954	35	1965
OCT.	68.6	46.7	57.7	91	1953	23	1962
NOV.	53.8	35.2	44.5	81	1961	-3	1950
DEC.	44.6	28.0	36.3	72	1951	-6	1962
YEAR	65.0	45.2	55.1	103	1952	-21	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.95	2.67	1974	4.8	9.4	1966
FEB.	3.42	2.90	1962	4.7	7.3	1971
MAR.	4.80	3.54	1964	3.1	7.4	1968
APR.	3.87	2.76	1951	0.2	2.9	1961
MAY	4.16	2.80	1961			
JUNE	4.31	3.89	1960			
JULY	4.83	3.11	1974			
AUG.	3.40	3.56	1968			
SEP.	2.65	3.08	1954			
OCT.	2.12	2.39	1962	0.0	0.2	1972
NOV.	3.36	2.57	1957	1.6	7.5	1966
DEC.	3.62	2.96	1949	2.8	7.8	1967
YEAR	44.49	3.89	1960	17.2	9.4	1966

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	13	0	8	22	1	5
FEB.	11	0	4	20	1	5
MAR.	13	0	1	15	0	2
APR.	13	0	0	4	0	0
MAY	12	1	0	0	0	0
JUNE	11	5	0	0	0	0
JULY	11	7	0	0	0	0
AUG.	9	7	0	0	0	0
SEP.	8	3	0	0	0	0
OCT.	8	0	0	2	0	0
NOV.	11	0	1	13	0	1
DEC.	12	0	5	21	0	3
YEAR	132	23	19	97	2	16

LEXINGTON (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	75	72	70	68	66	65	64	62	61	59	57	55	52
FEB.	75	72	70	68	67	66	65	63	62	61	59	57	54
MAR.	85	82	80	78	76	75	74	72	71	69	67	65	62
APR.	88	86	85	84	83	82	82	81	80	79	78	77	75
MAY	94	92	91	89	88	87	87	86	85	84	82	81	79
JUNE	100	97	96	94	93	92	92	91	90	89	87	86	83
JULY	102	99	98	96	95	94	93	91	90	89	87	86	83
AUG.	100	98	97	95	94	93	93	92	91	90	88	87	85
SEP.	101	98	96	94	93	92	91	89	88	87	85	83	80
OCT.	93	90	88	86	85	84	83	81	80	79	77	75	72
NOV.	84	81	79	77	75	74	73	71	70	68	66	64	61
DEC.	74	71	70	68	67	66	65	63	62	61	59	58	55

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	22	16	13	8	5	3	1	-1	-3	-6	-11	-14	-20
FEB.	24	18	15	11	8	6	4	1	0	-3	-7	-10	-16
MAR.	29	25	23	21	19	18	17	15	14	12	10	8	4
APR.	34	32	30	29	28	27	27	26	25	24	23	21	19
MAY	48	45	43	41	39	38	37	35	34	32	30	28	25
JUNE	58	55	54	52	51	49	49	48	46	45	43	42	39
JULY	64	61	60	58	57	56	55	53	52	51	49	48	45
AUG.	61	58	57	55	54	53	52	50	49	48	46	45	42
SEP.	51	48	46	44	43	42	41	39	38	37	35	33	30
OCT.	39	36	35	33	32	31	30	28	27	26	24	23	20
NOV.	31	26	24	21	19	17	16	14	12	10	7	5	0
DEC.	25	20	17	14	11	9	8	6	4	1	-1	-4	-9

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	0.90	1.28	1.89	3.58	6.06	7.72	9.29
FEB.	1.08	1.42	1.91	3.17	4.89	6.00	7.02
MAR.	1.42	1.87	2.54	4.27	6.67	8.20	9.63
APR.	0.86	1.32	2.09	4.41	8.04	10.54	12.94
MAY	1.76	2.17	2.74	4.12	5.89	6.99	7.99
JUNE	1.97	2.39	2.97	4.35	6.09	7.17	8.14
JULY	1.86	2.31	2.94	4.48	6.49	7.74	8.88
AUG.	1.44	1.77	2.25	3.40	4.88	5.80	6.64
SEP.	0.61	0.88	1.30	2.49	4.26	5.44	6.56
OCT.	0.56	0.75	1.02	1.74	2.73	3.37	3.96
NOV.	1.44	1.75	2.19	3.24	4.58	5.40	6.15
DEC.	1.10	1.46	2.00	3.41	5.36	6.62	7.80

LOUISVILLE

LATITUDE 38 DEGREES 11 MINUTES MEANS FOR THE PERIOD 1949-74
 LONGITUDE 85 DEGREES 44 MINUTES EXTREMES FOR THE PERIOD 1949-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	42.7	25.8	34.3	77	1950	-20	1963
FEB.	45.8	27.5	36.7	77	1962	-19	1951
MAR.	54.5	34.9	44.7	85	1960	-1	1960
APR.	67.4	45.6	56.5	91	1960	24	1972
MAY	76.6	54.4	65.5	95	1959	31	1963
JUNE	84.5	63.1	73.8	102	1952	42	1966
JULY	87.7	67.2	77.5	105	1954	50	1962
AUG.	86.8	65.4	76.1	101	1953	49	1950
SEP.	80.5	58.4	69.4	104	1954	33	1949
OCT.	69.9	46.6	58.3	92	1953	23	1952
NOV.	54.9	36.0	45.5	84	1958	-1	1950
DEC.	45.3	28.9	37.1	72	1951	-9	1960
YEAR	66.4	46.2	56.3	105	1954	-20	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.74	2.56	1951	4.9	7.2	1964
FEB.	3.51	2.04	1961	4.2	11.0	1966
MAR.	4.69	6.97	1964	4.0	12.0	1968
APR.	4.06	4.08	1970	0.1	1.3	1973
MAY	4.34	4.60	1961			
JUNE	3.73	5.12	1960			
JULY	4.03	5.09	1973			
AUG.	3.12	2.84	1970			
SEP.	3.09	3.19	1954			
OCT.	2.32	2.36	1962			
NOV.	3.36	3.07	1957	1.5	12.9	1966
DEC.	3.43	1.85	1964	2.3	5.0	1961
YEAR	43.42	6.97	1964	17.1	12.9	1966

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	12	0	7	22	1	5
FEB.	11	0	4	19	0	3
MAR.	13	0	1	14	0	1
APR.	12	0	0	2	0	0
MAY	11	1	0	0	0	0
JUNE	10	7	0	0	0	0
JULY	11	12	0	0	0	0
AUG.	8	10	0	0	0	0
SEP.	8	4	0	0	0	0
OCT.	7	0	0	2	0	0
NOV.	10	0	1	11	0	1
DEC.	12	0	4	21	0	2
YEAR	125	34	17	91	1	12

LOUISVILLE (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	76	73	71	69	67	66	65	63	62	60	58	56	53
FEB.	76	73	71	69	68	67	66	64	63	62	60	58	55
MAR.	88	84	82	79	78	76	75	73	71	70	67	65	61
APR.	90	88	87	86	85	84	84	83	82	81	80	79	77
MAY	97	94	93	91	90	89	89	88	87	86	84	83	80
JUNE	101	99	98	96	95	94	94	93	92	91	89	88	86
JULY	103	100	99	98	96	95	95	94	93	91	90	89	86
AUG.	102	100	99	97	96	95	95	94	93	92	90	89	87
SEP.	102	99	97	95	94	93	92	90	89	88	86	84	81
OCT.	94	91	89	87	86	85	84	82	81	80	78	76	73
NOV.	86	82	80	78	76	75	74	72	71	69	67	65	61
DEC.	75	73	71	69	68	67	66	64	63	62	60	58	56

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	25	18	15	11	8	5	3	0	-2	-5	-9	-12	-19
FEB.	30	23	20	16	13	10	8	5	2	0	-4	-7	-14
MAR.	32	28	26	23	21	20	19	17	16	14	11	9	5
APR.	37	35	33	32	31	30	30	29	28	27	26	24	22
MAY	48	46	44	42	41	40	39	37	36	35	33	31	29
JUNE	59	56	55	53	52	51	50	48	47	46	44	43	40
JULY	65	62	61	59	58	56	56	55	53	52	50	49	46
AUG.	61	59	58	56	55	54	54	53	52	51	49	48	46
SEP.	52	49	47	45	44	43	42	40	39	38	36	34	31
OCT.	38	36	34	33	31	30	30	29	28	26	25	23	21
NOV.	31	27	25	22	21	19	18	16	14	13	10	8	4
DEC.	28	22	20	16	14	11	10	8	5	3	0	-2	-8

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	1.06	1.41	1.95	3.35	5.31	6.58	7.77
FEB.	0.90	1.23	1.74	3.11	5.05	6.32	7.51
MAR.	1.28	1.73	2.40	4.18	6.68	8.31	9.83
APR.	1.17	1.55	2.14	3.65	5.75	7.11	8.38
MAY	1.78	2.18	2.74	4.07	5.78	6.84	7.80
JUNE	0.91	1.26	1.80	3.27	5.39	6.79	8.10
JULY	1.31	1.69	2.26	3.67	5.60	6.82	7.95
AUG.	0.58	0.86	1.31	2.63	4.65	6.02	7.32
SEP.	0.74	1.03	1.48	2.71	4.48	5.65	6.74
OCT.	0.73	0.96	1.28	2.11	3.24	3.96	4.63
NOV.	1.09	1.40	1.87	3.06	4.67	5.70	6.64
DEC.	1.31	1.63	2.08	3.20	4.65	5.55	6.38

MAYSVILLE

LATITUDE 38 DEGREES 41 MINUTES MEANS FOR THE PERIOD 1949-74
 LONGITUDE 83 DEGREES 47 MINUTES EXTREMES FOR THE PERIOD 1949-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	42.0	22.4	32.2	78	1950	-19	1963
FEB.	44.5	23.2	33.8	76	1954	-14	1951
MAR.	52.9	30.2	41.6	83	1950	1	1960
APR.	65.4	40.0	52.7	89	1957	18	1964
MAY	75.0	49.1	62.0	95	1965	27	1966
JUNE	82.8	58.2	70.5	99	1964	37	1972
JULY	86.3	62.6	74.5	104	1954	47	1962
AUG.	84.7	61.0	72.8	103	1964	43	1957
SEP.	79.4	54.3	66.9	100	1964	32	1949
OCT.	69.2	43.2	56.2	92	1953	17	1962
NOV.	54.6	32.6	43.6	84	1950	-1	1958
DEC.	44.5	25.1	34.8	73	1951	-8	1963
YEAR	65.1	41.8	53.5	104	1954	-19	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.89	2.18	1951	2.4	6.2	1966
FEB.	3.29	2.15	1955	2.6	8.3	1966
MAR.	4.40	3.00	1964	1.2	6.0	1967
APR.	3.93	2.37	1966	0.1	1.5	1950
MAY	4.26	3.34	1961			
JUNE	3.63	2.25	1950			
JULY	4.53	2.72	1958			
AUG.	3.85	3.66	1967			
SEP.	3.05	2.70	1965			
OCT.	2.16	2.70	1955			
NOV.	3.33	3.01	1957	1.1	7.0	1950
DEC.	3.23	1.93	1949	0.9	3.5	1951
YEAR	43.54	3.66	1967	8.2	8.3	1966

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	12	0	8	25	2	5
FEB.	11	0	4	23	1	4
MAR.	13	0	1	19	0	1
APR.	12	0	0	7	0	0
MAY	12	1	0	1	0	0
JUNE	10	5	0	0	0	0
JULY	11	8	0	0	0	0
AUG.	9	6	0	0	0	0
SEP.	8	3	0	0	0	0
OCT.	8	0	0	3	0	0
NOV.	11	0	1	16	0	1
DEC.	12	0	4	23	0	3
YEAR	129	23	18	117	3	14

MAYSVILLE (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	77	74	72	69	67	66	65	63	62	60	57	55	52
FEB.	76	73	71	69	67	66	65	63	62	60	58	56	53
MAR.	88	85	83	80	78	77	76	74	73	71	68	66	63
APR.	90	88	87	86	85	84	83	83	82	81	80	79	77
MAY	95	93	92	91	90	89	88	87	86	85	84	83	80
JUNE	99	97	96	95	94	93	93	92	91	90	89	88	86
JULY	103	101	99	98	96	95	95	94	93	91	90	88	86
AUG.	101	98	97	95	94	93	93	92	91	90	88	87	84
SEP.	99	97	95	94	92	91	91	90	89	87	86	84	82
OCT.	94	91	90	88	86	85	84	83	82	80	78	77	74
NOV.	86	83	81	79	77	76	75	74	72	71	69	67	64
DEC.	77	74	72	70	69	67	66	65	64	62	60	59	55

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	22	16	12	8	5	3	1	-1	-3	-6	-10	-14	-20
FEB.	24	18	15	11	8	6	4	1	0	-3	-7	-10	-16
MAR.	27	24	22	20	18	17	16	14	13	11	9	7	4
APR.	35	32	31	29	28	27	26	25	24	23	21	20	17
MAY	44	41	40	38	36	35	34	33	32	30	29	27	24
JUNE	55	52	50	49	48	46	46	45	43	42	41	39	36
JULY	60	57	56	54	53	52	52	51	50	49	47	46	43
AUG.	58	56	54	53	51	50	50	49	48	46	45	43	41
SEP.	50	47	45	43	42	41	40	38	37	36	34	32	29
OCT.	38	35	34	32	30	29	28	27	26	24	22	21	18
NOV.	32	27	25	22	20	18	16	14	13	10	7	5	0
DEC.	25	20	17	13	11	9	7	5	3	1	-2	-4	-10

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	1.19	1.56	2.11	3.52	5.45	6.70	7.85
FEB.	0.88	1.19	1.67	2.92	4.70	5.86	6.94
MAR.	1.35	1.77	2.40	3.99	6.17	7.57	8.86
APR.	1.39	1.76	2.29	3.62	5.38	6.49	7.51
MAY	1.38	1.78	2.38	3.88	5.92	7.22	8.42
JUNE	1.68	2.00	2.44	3.45	4.71	5.48	6.17
JULY	1.90	2.31	2.89	4.26	6.01	7.09	8.07
AUG.	1.60	1.95	2.44	3.62	5.12	6.05	6.89
SEP.	0.58	0.85	1.30	2.58	4.54	5.85	7.11
OCT.	0.73	0.93	1.23	1.98	2.98	3.62	4.20
NOV.	1.48	1.78	2.19	3.16	4.37	5.11	5.78
DEC.	0.99	1.29	1.75	2.92	4.53	5.57	6.52

MONTICELLO

LATITUDE 36 DEGREES 50 MINUTES MEANS FOR THE PERIOD 1956-74
 LONGITUDE 84 DEGREES 50 MINUTES EXTREMES FOR THE PERIOD 1956-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	46.2	25.6	35.9	75	1972	-33	1963
FEB.	49.1	26.9	38.0	78	1962	-11	1971
MAR.	58.4	35.0	46.7	85	1963	-2	1960
APR.	70.5	45.2	57.8	89	1962	22	1960
MAY	77.8	52.8	65.3	92	1962	28	1963
JUNE	83.9	60.5	72.2	96	1964	35	1966
JULY	86.6	64.1	75.3	98	1966	46	1972
AUG.	86.5	62.8	74.6	99	1957	44	1965
SEP.	81.3	57.4	69.4	100	1957	35	1965
OCT.	71.5	45.4	58.5	92	1959	19	1962
NOV.	58.7	36.3	47.5	81	1968	8	1969
DEC.	49.4	29.9	39.7	74	1964	-15	1962
YEAR	68.3	45.2	56.7	100	1957	-33	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.93	4.07	1957	4.5	6.5	1967
FEB.	3.57	3.20	1962	4.2	8.0	1964
MAR.	4.57	3.64	1963	2.5	11.0	1960
APR.	4.38	3.60	1972	0.0	0.5	1971
MAY	4.34	2.80	1967			
JUNE	4.32	2.55	1960			
JULY	5.13	2.75	1963			
AUG.	3.48	3.54	1970			
SEP.	3.70	4.28	1964			
OCT.	2.55	2.48	1962			
NOV.	3.95	3.50	1973	1.1	9.5	1966
DEC.	4.35	3.20	1956	2.7	6.0	1967
YEAR	48.26	4.28	1964	15.0	11.0	1960

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	11	0	4	21	2	3
FEB.	10	0	2	17	1	2
MAR.	12	0	1	14	0	1
APR.	11	0	0	5	0	0
MAY	11	1	0	1	0	0
JUNE	10	4	0	0	0	0
JULY	12	8	0	0	0	0
AUG.	9	8	0	0	0	0
SEP.	9	3	0	0	0	0
OCT.	8	0	0	4	0	0
NOV.	10	0	0	13	0	0
DEC.	11	0	2	18	0	2
YEAR	124	24	9	93	3	8

MONTICELLO (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	78	75	73	71	70	69	67	66	65	64	62	60	57
FEB.	81	77	75	73	71	70	68	67	65	64	61	59	56
MAR.	89	85	83	81	79	78	76	75	73	72	69	67	63
APR.	90	89	88	86	86	85	84	84	83	82	81	80	78
MAY	93	91	90	89	88	88	87	87	86	85	84	83	82
JUNE	97	95	94	93	92	92	91	91	90	89	88	87	85
JULY	98	96	95	94	93	93	92	92	91	90	89	88	86
AUG.	100	98	97	95	94	93	93	92	91	90	88	87	85
SEP.	98	96	95	93	92	91	91	90	89	88	86	85	83
OCT.	92	89	87	86	85	83	83	82	80	79	78	76	73
NOV.	85	82	81	79	78	77	76	74	73	72	70	69	66
DEC.	78	75	73	71	69	68	67	65	64	62	60	58	55

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	25	17	13	7	4	0	-2	-5	-8	-12	-17	-21	-29
FEB.	22	16	13	10	7	5	3	0	-1	-4	-7	-10	-16
MAR.	31	27	24	22	20	18	16	14	13	11	8	5	1
APR.	32	30	29	28	27	26	26	25	24	23	22	21	19
MAY	44	41	39	37	36	35	34	33	31	30	28	27	24
JUNE	57	54	53	51	49	48	47	46	44	43	41	39	36
JULY	59	56	55	54	52	51	51	50	49	47	46	45	42
AUG.	59	56	55	53	52	51	50	48	47	46	44	43	40
SEP.	50	47	45	43	42	41	40	38	37	36	34	32	29
OCT.	35	32	31	29	28	27	26	24	23	22	20	19	16
NOV.	24	22	20	19	17	16	16	15	14	12	11	9	7
DEC.	27	21	17	13	10	8	6	3	1	-1	-5	-9	-15

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	1.14	1.51	2.07	3.53	5.55	6.86	8.07
FEB.	1.05	1.39	1.90	3.21	5.03	6.20	7.28
MAR.	1.64	2.07	2.69	4.22	6.25	7.53	8.70
APR.	1.55	1.96	2.56	4.04	6.01	7.25	8.39
MAY	1.60	2.00	2.59	4.02	5.91	7.09	8.18
JUNE	1.64	2.04	2.62	4.02	5.86	7.00	8.05
JULY	1.25	1.73	2.48	4.50	7.42	9.33	11.13
AUG.	0.93	1.26	1.76	3.09	4.97	6.20	7.35
SEP.	1.16	1.51	2.03	3.36	5.17	6.33	7.40
OCT.	1.17	1.39	1.70	2.42	3.33	3.88	4.37
NOV.	2.26	2.56	2.96	3.83	4.87	5.47	6.01
DEC.	1.21	1.63	2.25	3.89	6.18	7.67	9.05

MURRAY

LATITUDE 36 DEGREES 36 MINUTES MEANS FOR THE PERIOD 1949-74
 LONGITUDE 88 DEGREES 19 MINUTES EXTREMES FOR THE PERIOD 1949-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECCRD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	46.3	27.5	36.9	76	1952	-12	1963
FEB.	50.0	29.5	39.8	81	1962	-9	1951
MAR.	58.5	37.0	47.7	85	1963	-3	1960
APR.	70.5	47.5	59.0	89	1955	23	1961
MAY	78.9	56.3	67.6	95	1953	34	1954
JUNE	86.5	64.3	75.4	106	1952	44	1956
JULY	89.2	67.8	78.5	110	1952	52	1953
AUG.	88.6	65.9	77.2	108	1954	49	1950
SEP.	82.4	59.1	70.7	108	1954	31	1949
OCT.	72.8	47.7	60.2	96	1953	21	1952
NOV.	58.9	36.7	47.8	83	1950	-1	1950
DEC.	48.6	30.2	39.4	79	1951	-5	1962
YEAR	69.3	47.5	58.4	110	1952	-12	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.80	4.01	1951	3.0	9.8	1951
FEB.	4.36	4.62	1961	1.4	6.5	1965
MAR.	5.22	5.49	1952	2.2	10.6	1968
APR.	4.47	2.15	1955	0.0	1.0	1951
MAY	4.28	3.67	1967			
JUNE	3.90	3.10	1969			
JULY	4.68	4.01	1972			
AUG.	3.42	3.10	1969			
SEP.	3.48	4.20	1962			
OCT.	2.85	3.01	1967			
NOV.	4.01	6.02	1957	0.2	2.0	1950
DEC.	4.32	4.04	1972	1.0	6.4	1969
YEAR	49.80	6.02	1957	7.9	10.6	1968

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	10	0	5	21	1	3
FEB.	9	0	2	17	0	1
MAR.	11	0	0	12	0	1
APR.	10	0	0	2	0	0
MAY	9	2	0	0	0	0
JUNE	7	10	0	0	0	0
JULY	9	16	0	0	0	0
AUG.	8	14	0	0	0	0
SEP.	8	5	0	0	0	0
OCT.	6	1	0	2	0	0
NOV.	8	0	0	11	0	0
DEC.	9	0	2	19	0	1
YEAR	104	48	9	84	1	6

MURRAY (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	77	74	73	71	70	69	68	66	65	64	62	61	58
FEB.	80	77	75	73	72	71	70	68	67	66	64	62	59
MAR.	87	84	82	80	79	78	77	75	74	73	71	69	66
APR.	90	88	87	86	85	85	84	83	83	82	81	80	78
MAY	96	93	92	91	90	89	89	88	87	86	85	84	81
JUNE	102	100	99	97	96	95	95	94	93	92	90	89	87
JULY	105	102	101	99	98	97	96	94	93	92	90	89	86
AUG.	106	103	101	99	98	97	96	94	93	92	90	88	85
SEP.	105	101	99	97	95	94	93	91	90	88	86	84	80
OCT.	96	93	91	89	88	87	86	85	83	82	80	78	75
NOV.	86	83	82	80	79	78	77	75	74	73	71	70	67
DEC.	77	74	73	71	70	69	68	66	65	64	62	61	58

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	22	17	15	12	9	7	6	4	2	0	-3	-5	-10
FEB.	30	24	21	17	14	12	10	7	5	2	-1	-4	-10
MAR.	34	30	27	25	23	21	20	18	16	14	12	9	5
APR.	41	38	36	34	32	30	29	28	26	24	22	20	16
MAY	50	47	45	43	42	41	40	38	37	36	34	32	29
JUNE	61	58	57	54	53	52	51	49	48	47	44	43	40
JULY	64	61	60	58	57	56	56	55	54	53	51	50	47
AUG.	61	59	58	56	55	54	54	53	52	51	49	48	46
SEP.	52	49	47	45	44	43	42	40	39	38	36	34	31
OCT.	41	38	37	35	33	32	31	30	29	27	26	24	21
NOV.	31	27	24	22	20	18	17	15	13	11	9	6	2
DEC.	26	21	19	16	14	12	11	9	7	5	2	0	-4

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	0.81	1.23	1.93	4.00	7.22	9.43	11.54
FEB.	1.35	1.76	2.38	3.95	6.10	7.48	8.76
MAR.	1.51	2.01	2.75	4.69	7.38	9.11	10.73
APR.	1.91	2.32	2.88	4.22	5.91	6.96	7.90
MAY	1.33	1.73	2.34	3.88	5.99	7.34	8.59
JUNE	0.79	1.15	1.72	3.34	5.76	7.39	8.93
JULY	1.60	2.04	2.69	4.30	6.46	7.82	9.08
AUG.	0.64	0.95	1.45	2.89	5.09	6.58	8.00
SEP.	0.55	0.85	1.36	2.87	5.27	6.91	8.49
OCT.	0.87	1.14	1.55	2.58	4.01	4.92	5.76
NOV.	0.91	1.29	1.88	3.49	5.85	7.42	8.90
DEC.	1.41	1.82	2.43	3.95	6.00	7.31	8.51

OWENSBORO

LATITUDE 37 DEGREES 46 MINUTES MEANS FOR THE PERIOD 1941-70
 LONGITUDE 87 DEGREES 9 MINUTES EXTREMES FOR THE PERIOD 1932-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	43.7	25.6	34.6	76	1943	-18	1940
FEB.	47.4	28.1	37.7	80	1962	-21	1951
MAR.	56.7	35.3	46.0	85	1945	-7	1960
APR.	69.4	46.5	57.9	90	1946	24	1936
MAY	78.6	54.9	66.8	96	1934	32	1963
JUNE	87.1	63.4	75.3	107	1944	41	1966
JULY	89.6	66.3	77.9	107	1936	44	1947
AUG.	89.3	64.1	76.7	105	1948	42	1946
SEP.	83.2	57.1	70.2	104	1953	32	1949
OCT.	73.1	46.0	59.5	95	1953	21	1942
NOV.	57.5	35.8	46.6	85	1956	-7	1950
DEC.	46.3	28.3	37.3	75	1951	-10	1935
YEAR	68.5	45.9	57.2	107	1944	-21	1951

PRECIPITATION (IN.):

MCNTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.48	4.04	1937	4.1	7.0	1954
FEB.	3.39	2.57	1949	2.6	7.0	1939
MAR.	4.64	5.40	1943	2.7	10.0	1967
APR.	4.33	3.71	1970	0.0	2.0	1971
MAY	4.38	3.90	1961			
JUNE	3.80	3.60	1947			
JULY	3.45	3.15	1969			
AUG.	3.08	3.82	1959			
SEP.	3.24	3.79	1965			
OCT.	2.30	2.00	1941			
NOV.	3.58	3.50	1957	0.6	3.0	1958
DEC.	3.53	1.90	1957	1.4	6.0	1945
YEAR	43.19	5.40	1943	11.4	10.0	1967

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	9	0	5	22	1	5
FEB.	8	0	3	18	0	3
MAR.	9	0	1	13	0	2
APR.	10	0	0	2	0	0
MAY	10	3	0	0	0	0
JUNE	8	12	0	0	0	0
JULY	8	18	0	0	0	0
AUG.	7	16	0	0	0	0
SEP.	7	7	0	0	0	0
OCT.	6	1	0	2	0	0
NOV.	8	0	0	12	0	0
DEC.	9	0	3	21	0	2
YEAR	99	57	12	90	1	12

OWENSBORO (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	77	73	71	69	67	66	64	63	61	59	57	55	51
FEB.	78	75	73	71	69	68	67	65	64	63	60	59	55
MAR.	87	84	82	79	78	76	75	74	72	71	69	67	63
APR.	91	89	88	86	85	84	84	83	82	81	79	78	76
MAY	96	94	93	92	91	90	90	89	88	87	86	85	83
JUNE	105	102	101	99	98	97	97	96	95	94	92	91	88
JULY	104	102	101	99	98	97	97	96	95	94	92	91	89
AUG.	105	103	102	100	99	98	98	97	96	95	93	92	90
SEP.	103	100	99	97	96	95	94	92	91	90	88	87	84
OCT.	95	92	91	89	88	87	87	86	85	84	82	81	78
NOV.	89	85	83	81	79	78	77	75	74	72	70	68	64
DEC.	77	73	72	70	68	67	66	64	63	61	59	58	54

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	21	15	12	8	6	3	1	0	-2	-5	-9	-12	-18
FEB.	30	23	20	15	12	9	6	4	1	-1	-6	-10	-17
MAR.	36	30	27	24	21	19	17	14	12	10	6	3	-2
APR.	38	35	34	33	31	30	30	29	28	27	25	24	22
MAY	49	46	44	42	41	40	39	37	36	35	33	31	28
JUNE	59	56	55	53	52	51	50	48	47	46	44	43	40
JULY	64	61	59	57	56	55	54	52	51	50	48	46	43
AUG.	61	58	57	55	54	53	52	50	49	48	46	45	42
SEP.	52	49	47	45	43	42	41	39	38	36	34	32	29
OCT.	37	35	33	32	31	29	29	28	26	25	24	22	20
NOV.	32	27	25	22	20	18	17	15	13	11	8	6	1
DEC.	28	22	19	15	13	11	9	6	4	2	-1	-4	-10

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	0.83	1.15	1.66	3.04	5.04	6.36	7.60
FEB.	0.64	0.94	1.44	2.87	5.04	6.51	7.91
MAR.	1.05	1.48	2.16	4.03	6.78	8.60	10.31
APR.	1.46	1.87	2.47	3.97	5.98	7.26	8.43
MAY	1.60	2.02	2.61	4.06	5.97	7.16	8.26
JUNE	1.14	1.51	2.05	3.43	5.35	6.58	7.72
JULY	1.11	1.44	1.92	3.15	4.81	5.87	6.85
AUG.	0.73	1.02	1.47	2.69	4.47	5.65	6.75
SEP.	1.05	1.36	1.81	2.95	4.50	5.49	6.40
OCT.	0.35	0.54	0.87	1.88	3.49	4.60	5.66
NOV.	1.03	1.38	1.89	3.22	5.07	6.27	7.38
DEC.	1.17	1.50	1.99	3.23	4.89	5.94	6.92

PADUCAH

LATITUDE 37 DEGREES 4 MINUTES MEANS FOR THE PERIOD 1950-74
 LONGITUDE 88 DEGREES 46 MINUTES EXTREMES FOR THE PERIOD 1950-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MCNTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	43.6	25.8	34.7	75	1950	-11	1963
FEB.	47.3	28.6	37.9	78	1962	-14	1951
MAR.	55.9	35.9	45.9	85	1967	-2	1960
APR.	68.3	47.1	57.7	88	1965	25	1950
MAY	77.3	56.4	66.8	96	1953	34	1954
JUNE	85.7	64.6	75.2	106	1952	45	1972
JULY	87.8	68.1	78.0	106	1952	48	1962
AUG.	87.4	66.0	76.7	104	1964	48	1964
SEP.	81.3	59.0	70.1	104	1954	38	1950
OCT.	71.4	47.2	59.3	93	1953	23	1952
NOV.	56.4	36.1	46.3	82	1950	-3	1950
DEC.	46.2	29.1	37.6	77	1951	-7	1960
YEAR	67.4	47.0	57.2	106	1952	-14	1951

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.24	3.40	1966	2.3	4.0	1956
FEB.	3.65	3.55	1950	1.9	6.0	1965
MAR.	4.76	5.28	1964	2.3	9.0	1960
APR.	4.57	2.57	1970	0.1	3.0	1971
MAY	4.75	3.76	1967			
JUNE	4.25	3.01	1955			
JULY	3.70	3.20	1965			
AUG.	3.17	3.16	1952			
SEP.	3.42	4.74	1965			
OCT.	2.59	2.28	1957			
NOV.	3.96	4.67	1957	0.3	4.0	1958
DEC.	4.14	2.51	1954	1.4	4.0	1969
YEAR	47.19	5.28	1964	8.4	9.0	1960

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	10	0	6	23	1	3
FEB.	10	0	3	18	0	2
MAR.	11	0	1	13	0	1
APR.	11	0	0	2	0	0
MAY	11	1	0	0	0	0
JUNE	8	9	0	0	0	0
JULY	9	14	0	0	0	0
AUG.	7	12	0	0	0	0
SEP.	7	4	0	0	0	0
OCT.	7	0	0	2	0	0
NOV.	9	0	1	12	0	0
DEC.	10	0	3	20	0	2
YEAR	110	40	14	90	1	8

PADUCAH (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	77	74	72	70	68	67	66	64	63	61	59	57	54
FEB.	79	76	74	72	70	69	68	66	65	63	61	59	56
MAR.	86	82	81	78	77	76	75	73	72	71	68	67	63
APR.	89	87	86	85	84	83	83	82	81	80	79	78	76
MAY	95	93	92	91	90	89	89	88	87	86	85	84	82
JUNE	103	101	99	98	96	95	95	94	93	91	90	88	86
JULY	103	101	100	98	97	96	96	95	94	93	91	90	88
AUG.	104	101	100	98	97	96	95	93	92	91	89	88	85
SEP.	102	99	97	95	94	93	92	90	89	88	86	84	81
OCT.	92	90	88	87	86	85	85	84	83	82	81	79	77
NOV.	84	81	80	78	77	76	75	73	72	71	69	68	65
DEC.	77	74	72	70	69	68	67	65	64	63	61	59	56

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	21	16	13	10	7	5	4	2	0	-2	-5	-8	-13
FEB.	33	26	22	18	15	12	10	7	4	1	-2	-6	-13
MAR.	35	30	27	24	22	20	19	17	15	13	10	7	2
APR.	39	36	35	33	32	31	30	28	27	26	24	23	20
MAY	50	47	45	43	42	41	40	38	37	36	34	32	29
JUNE	59	57	55	54	52	51	51	50	49	47	46	44	42
JULY	65	62	61	59	58	57	56	54	53	52	50	49	46
AUG.	61	58	57	55	54	53	53	52	51	50	48	47	44
SEP.	50	47	46	45	43	42	42	41	40	38	37	36	33
OCT.	38	36	35	33	32	31	31	30	29	28	26	25	23
NOV.	31	27	24	22	20	18	17	15	13	11	9	6	2
DEC.	28	22	19	16	14	11	10	8	5	3	0	-2	-8

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	0.78	1.16	1.78	3.57	6.32	8.19	9.96
FEB.	1.24	1.58	2.09	3.35	5.04	6.11	7.10
MAR.	1.19	1.64	2.33	4.19	6.86	8.62	10.26
APR.	1.70	2.13	2.74	4.24	6.20	7.43	8.56
MAY	1.81	2.25	2.88	4.42	6.42	7.67	8.81
JUNE	0.95	1.35	1.97	3.69	6.21	7.89	9.47
JULY	0.72	1.05	1.60	3.15	5.49	7.07	8.58
AUG.	1.06	1.36	1.80	2.90	4.38	5.32	6.19
SEP.	0.93	1.26	1.75	3.05	4.87	6.06	7.17
OCT.	0.78	1.03	1.40	2.34	3.64	4.48	5.25
NOV.	0.91	1.27	1.85	3.45	5.78	7.32	8.78
DEC.	1.30	1.70	2.28	3.76	5.78	7.08	8.27

PIKEVILLE

LATITUDE 37 DEGREES 29 MINUTES
LONGITUDE 82 DEGREES 31 MINUTES

MEANS FOR THE PERIOD 1948-74
EXTREMES FOR THE PERIOD 1948-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	48.7	28.8	38.7	80	1952	-11	1963
FEB.	51.9	29.7	40.8	82	1972	-4	1955
MAR.	60.6	35.7	48.2	88	1950	4	1960
APR.	72.4	44.7	58.6	94	1953	22	1964
MAY	80.3	53.5	66.9	95	1950	30	1966
JUNE	86.4	61.3	73.8	99	1957	38	1966
JULY	88.8	65.9	77.3	104	1952	49	1963
AUG.	87.9	64.8	76.4	102	1948	47	1965
SEP.	82.9	58.2	70.5	103	1954	36	1963
OCT.	73.0	46.5	59.8	93	1954	17	1962
NOV.	59.8	36.0	47.9	87	1948	6	1950
DEC.	50.1	30.3	40.2	85	1951	-10	1962
YEAR	70.2	46.3	58.3	104	1952	-11	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.44	2.44	1974	3.5	6.0	1966
FEB.	3.53	2.67	1970	3.9	8.0	1960
MAR.	3.84	2.15	1963	1.4	8.8	1954
APR.	3.60	1.83	1956			
MAY	4.08	3.02	1971			
JUNE	4.09	3.12	1971			
JULY	5.01	2.83	1966			
AUG.	3.24	2.43	1958			
SEP.	3.63	2.83	1970			
OCT.	2.18	2.05	1961			
NOV.	3.10	2.20	1963	0.6	3.0	1959
DEC.	3.45	2.76	1969	3.0	10.0	1970
YEAR	43.19	3.12	1971	12.3	10.0	1970

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	13	0	3	19	0	3
FEB.	11	0	1	17	0	2
MAR.	12	0	0	11	0	1
APR.	12	1	0	3	0	0
MAY	12	4	0	0	0	0
JUNE	11	11	0	0	0	0
JULY	13	15	0	0	0	0
AUG.	10	12	0	0	0	0
SEP.	9	7	0	0	0	0
OCT.	8	1	0	2	0	0
NOV.	11	0	0	12	0	0
DEC.	13	0	2	19	0	1
YEAR	135	51	6	83	0	7

PIKEVILLE (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	81	78	76	75	73	72	71	70	69	68	66	64	61
FEB.	83	80	78	76	74	73	72	70	69	67	65	63	60
MAR.	94	90	88	85	84	82	81	79	78	76	74	71	68
APR.	95	94	93	92	91	90	90	89	89	88	87	86	84
MAY	97	95	94	94	93	92	92	91	91	90	89	88	87
JUNE	99	98	97	96	95	94	94	93	92	91	90	89	88
JULY	102	100	99	98	97	96	96	95	94	93	92	91	89
AUG.	102	100	99	97	96	95	95	94	93	92	90	89	87
SEP.	102	99	98	97	95	94	94	93	92	90	89	88	85
OCT.	95	92	91	89	88	87	87	86	85	84	82	81	78
NOV.	87	85	83	82	80	79	79	78	77	75	74	72	70
DEC.	82	78	76	74	72	71	70	68	67	65	63	61	57

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	28	22	18	14	11	8	6	4	1	-1	-5	-9	-15
FEB.	27	22	19	15	13	11	9	7	5	2	0	-3	-8
MAR.	32	28	26	23	21	20	18	17	15	13	11	8	4
APR.	35	33	32	30	29	29	28	27	26	25	24	23	21
MAY	50	46	44	42	41	39	38	36	35	33	31	29	26
JUNE	59	56	54	52	51	50	49	47	46	45	43	41	38
JULY	64	61	60	59	57	56	56	55	54	52	51	50	47
AUG.	64	61	60	58	57	56	54	53	52	51	49	47	45
SEP.	54	51	49	47	46	45	44	42	41	40	38	36	33
OCT.	41	38	36	33	31	30	29	27	26	24	21	19	16
NOV.	29	26	24	22	21	20	19	17	16	15	13	11	8
DEC.	26	21	19	16	14	12	11	9	7	5	2	0	-4

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	1.17	1.49	1.97	3.15	4.75	5.75	6.68
FEB.	1.17	1.50	1.99	3.23	4.90	5.96	6.94
MAR.	1.18	1.55	2.09	3.48	5.38	6.60	7.73
APR.	1.57	1.89	2.34	3.40	4.74	5.56	6.30
MAY	1.53	1.91	2.46	3.79	5.54	6.63	7.63
JUNE	1.75	2.12	2.64	3.85	5.40	6.35	7.21
JULY	2.28	2.72	3.33	4.76	6.54	7.62	8.60
AUG.	0.93	1.24	1.70	2.91	4.59	5.68	6.69
SEP.	1.19	1.54	2.05	3.32	5.04	6.13	7.14
OCT.	0.45	0.65	0.97	1.87	3.22	4.12	4.98
NOV.	1.24	1.53	1.93	2.90	4.15	4.93	5.63
DEC.	1.16	1.49	1.97	3.16	4.77	5.80	6.74

PRINCETON

LATITUDE 37 DEGREES 7 MINUTES MEANS FOR THE PERIOD 1966-74
 LONGITUDE 87 DEGREES 52 MINUTES EXTREMES FOR THE PERIOD 1966-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	44.2	25.5	34.8	74	1972	-7	1970
FEB.	47.7	27.6	37.6	78	1972	-1	1971
MAR.	59.8	37.1	48.5	85	1967	10	1968
APR.	70.9	47.7	59.3	87	1970	23	1973
MAY	77.6	54.0	65.8	91	1969	33	1966
JUNE	85.7	62.8	74.2	97	1966	41	1966
JULY	87.5	66.4	77.0	99	1966	50	1968
AUG.	86.6	64.6	75.6	97	1968	48	1968
SEP.	82.0	59.4	70.7	95	1970	36	1974
OCT.	72.3	48.0	60.2	90	1971	24	1968
NOV.	57.3	38.2	47.7	81	1971	10	1970
DEC.	48.3	30.8	39.6	73	1971	4	1973
YEAR	68.3	46.8	57.6	99	1966	-7	1970

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	4.27	2.68	1966	3.6	8.0	1968
FEB.	3.29	3.71	1972	3.2	5.0	1967
MAR.	3.83	2.31	1967	3.5	9.0	1968
APR.	4.98	2.30	1966	0.3	3.0	1971
MAY	4.94	3.00	1967			
JUNE	3.47	4.05	1969			
JULY	4.10	2.85	1974			
AUG.	3.91	3.83	1970			
SEP.	3.08	1.73	1968			
OCT.	3.16	2.64	1970			
NOV.	3.85	2.55	1973	1.2	4.0	1971
DEC.	4.87	3.51	1972	2.2	4.0	1969
YEAR	47.74	4.05	1969	14.0	9.0	1968

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	11	0	7	22	1	6
FEB.	8	0	3	19	0	2
MAR.	11	0	0	12	0	1
APR.	12	0	0	2	0	0
MAY	11	0	0	0	0	0
JUNE	8	8	0	0	0	0
JULY	10	15	0	0	0	0
AUG.	8	9	0	0	0	0
SEP.	9	3	0	0	0	0
OCT.	8	0	0	2	0	0
NOV.	10	0	0	10	0	0
DEC.	13	0	2	18	0	2
YEAR	119	35	12	85	1	11

PRINCETON (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
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JAN.	77	74	72	70	69	68	67	65	64	63	61	59	56
FEB.	79	75	73	71	69	68	67	65	64	62	60	58	54
MAR.	87	84	83	81	80	79	78	76	75	74	72	71	68
APR.	88	86	86	85	84	83	83	82	81	80	79	79	77
MAY	92	90	89	88	88	87	87	86	85	85	84	83	81
JUNE	98	96	95	94	94	93	93	92	91	91	90	89	87
JULY	99	97	96	95	95	94	94	93	92	92	91	90	88
AUG.	99	97	96	95	94	93	93	92	91	90	89	88	86
SEP.	97	95	94	93	92	91	91	90	89	88	87	86	84
OCT.	91	89	88	87	86	85	85	84	83	82	81	80	78
NOV.	83	80	79	78	76	75	75	74	73	71	70	69	66
DEC.	78	74	73	70	69	68	67	65	64	63	60	59	55

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
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JAN.	15	10	8	6	4	2	1	0	-2	-4	-6	-8	-13
FEB.	18	15	13	11	9	8	7	5	4	2	0	-1	-4
MAR.	27	23	21	19	17	16	15	13	12	10	8	6	2
APR.	38	35	34	32	31	30	29	27	26	25	23	22	19
MAY	42	40	39	38	37	36	36	35	34	33	32	31	29
JUNE	63	59	57	54	53	51	50	48	46	45	42	40	36
JULY	59	57	56	55	54	53	53	52	51	50	49	48	46
AUG.	60	57	56	55	54	53	53	52	51	50	49	48	45
SEP.	47	45	44	43	42	41	41	40	39	38	37	36	34
OCT.	38	36	34	33	31	30	30	29	28	26	25	23	21
NOV.	24	21	20	19	18	17	17	16	15	14	13	12	9
DEC.	20	17	16	14	13	12	11	9	8	7	5	4	1

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	1.20	1.60	2.22	3.82	6.07	7.53	8.89
FEB.	1.20	1.51	1.95	3.04	4.48	5.38	6.20
MAR.	1.17	1.54	2.08	3.47	5.38	6.60	7.73
APR.	2.59	3.00	3.55	4.80	6.30	7.19	7.99
MAY	2.89	3.26	3.74	4.81	6.05	6.78	7.42
JUNE	0.63	0.94	1.44	2.92	5.18	6.72	8.18
JULY	1.62	1.99	2.53	3.83	5.50	6.54	7.49
AUG.	1.56	1.92	2.43	3.66	5.24	6.22	7.12
SEP.	1.36	1.64	2.02	2.92	4.05	4.74	5.36
OCT.	0.89	1.20	1.65	2.83	4.49	5.56	6.56
NOV.	1.44	1.80	2.32	3.57	5.22	6.25	7.19
DEC.	3.23	3.54	3.94	4.79	5.75	6.30	6.78

WEST LIBERTY

LATITUDE 37 DEGREES 55 MINUTES MEANS FOR THE PERIOD 1950-74
 LONGITUDE 83 DEGREES 15 MINUTES EXTREMES FOR THE PERIOD 1950-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	43.2	21.0	32.1	75	1967	-20	1963
FEB.	46.5	22.0	34.3	75	1954	-11	1963
MAR.	55.2	29.5	42.4	84	1966	-8	1960
APR.	67.9	39.4	53.6	90	1953	15	1964
MAY	77.1	49.0	63.1	95	1950	27	1963
JUNE	83.8	57.5	70.7	99	1952	34	1966
JULY	86.7	61.9	74.3	103	1952	46	1963
AUG.	85.9	59.7	72.8	103	1953	40	1965
SEP.	80.3	52.2	66.2	103	1953	31	1963
OCT.	70.9	39.6	55.3	92	1953	14	1962
NOV.	56.6	30.0	43.3	84	1961	5	1950
DEC.	46.0	24.1	35.1	74	1951	-15	1962
YEAR	66.7	40.5	53.6	103	1952	-20	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.34	1.64	1956	3.4	6.5	1954
FEB.	3.36	3.26	1962	2.2	11.0	1960
MAR.	3.58	2.47	1963	1.5	6.0	1960
APR.	3.55	2.65	1972	0.2	3.0	1959
MAY	3.84	2.03	1967			
JUNE	3.56	3.10	1950			
JULY	5.01	4.86	1971			
AUG.	3.20	4.25	1969			
SEP.	3.22	5.90	1950			
OCT.	2.14	1.75	1968			
NOV.	3.39	3.41	1973	0.6	6.5	1959
DEC.	3.37	2.14	1972	1.9	3.5	1963
YEAR	41.55	5.90	1950	9.7	11.0	1960

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	10	0	6	24	2	5
FEB.	10	0	4	22	1	4
MAR.	11	0	1	17	0	1
APR.	10	0	0	8	0	0
MAY	10	1	0	1	0	0
JUNE	8	5	0	0	0	0
JULY	10	9	0	0	0	0
AUG.	8	7	0	0	0	0
SEP.	7	3	0	0	0	0
OCT.	7	0	0	7	0	0
NOV.	9	0	1	18	0	1
DEC.	10	0	4	24	1	3
YEAR	110	25	16	121	4	14

WEST LIBERTY (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
	---	---	---	---	---	---	---	---	---	---	---	---	---
JAN.													
FEB.													
MAR.													
APR.													
MAY													
JUNE													
JULY													
AUG.													
SEP.													
OCT.													
NOV.													
DEC.													

DATA NOT
AVAILABLE

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
	---	---	---	---	---	---	---	---	---	---	---	---	---
JAN.													
FEB.													
MAR.													
APR.													
MAY													
JUNE													
JULY													
AUG.													
SEP.													
OCT.													
NOV.													
DEC.													

DATA NOT
AVAILABLE

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
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JAN.	1.06	1.38	1.85	3.04	4.66	5.69	6.64
FEB.	0.85	1.17	1.65	2.96	4.83	6.06	7.21
MAR.	1.17	1.51	2.01	3.27	4.98	6.07	7.07
APR.	1.14	1.48	1.97	3.23	4.94	6.03	7.03
MAY	1.34	1.70	2.23	3.54	5.28	6.39	7.40
JUNE	1.27	1.60	2.09	3.28	4.87	5.87	6.79
JULY	1.30	1.77	2.50	4.44	7.19	8.99	10.67
AUG.	0.90	1.21	1.67	2.86	4.54	5.62	6.63
SEP.	0.74	1.04	1.51	2.80	4.69	5.94	7.11
OCT.	0.58	0.79	1.10	1.91	3.05	3.80	4.49
NOV.	0.91	1.23	1.72	3.01	4.84	6.03	7.15
DEC.	0.98	1.30	1.78	3.03	4.77	5.89	6.93

WILLIAMSBURG

LATITUDE 36 DEGREES 44 MINUTES MEANS FOR THE PERIOD 1958-74
 LONGITUDE 84 DEGREES 9 MINUTES EXTREMES FOR THE PERIOD 1958-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	47.0	25.1	36.0	75	1972	-13	1963
FEB.	49.2	24.6	36.9	80	1962	-3	1958
MAR.	58.9	33.6	46.2	88	1963	-2	1960
APR.	70.8	43.0	56.9	91	1960	21	1960
MAY	78.5	51.6	65.1	95	1962	28	1963
JUNE	84.1	59.3	71.7	95	1959	36	1966
JULY	86.8	63.5	75.2	102	1965	48	1961
AUG.	86.4	62.9	74.7	100	1962	45	1965
SEP.	81.9	56.7	69.3	97	1960	31	1964
OCT.	72.8	44.4	58.6	91	1959	20	1962
NOV.	60.2	35.5	47.9	83	1961	11	1970
DEC.	49.6	28.2	39.9	75	1962	-10	1962
YEAR	68.9	44.0	56.4	102	1965	-13	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST		MEAN SNOWFALL	GREATEST		YEAR
		DAILY	YEAR		DAILY	SNOWFALL	
JAN.	3.91	2.27	1974	1.6	8.0		1966
FEB.	3.71	2.25	1962	0.5	5.5		1967
MAR.	5.10	3.23	1963				
APR.	4.16	2.04	1971				
MAY	4.56	3.45	1973				
JUNE	4.62	2.59	1962				
JULY	4.44	3.76	1960				
AUG.	3.48	1.72	1963				
SEP.	2.81	4.16	1964				
OCT.	2.69	1.90	1965				
NOV.	3.80	3.06	1973				
DEC.	3.93	2.47	1969	0.8	7.8		1966
YEAR	47.21	4.16	1964	2.9	8.0		1966

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	13	0	4	22	1	1
FEB.	12	0	3	22	1	1
MAR.	13	0	0	16	0	0
APR.	11	0	0	5	0	0
MAY	10	2	0	1	0	0
JUNE	10	4	0	0	0	0
JULY	10	9	0	0	0	0
AUG.	9	8	0	0	0	0
SEP.	7	4	0	0	0	0
OCT.	7	0	0	5	0	0
NOV.	10	0	0	13	0	0
DEC.	11	0	2	20	0	1
YEAR	123	27	9	104	2	3

WILLIAMSBURG (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	75	73	72	70	69	68	68	67	66	65	63	62	60
FEB.	81	77	75	73	71	70	69	67	66	64	62	60	56
MAR.	83	80	79	77	76	75	74	73	72	70	68	67	64
APR.	92	90	89	88	87	86	86	85	84	83	82	81	79
MAY	95	93	92	90	89	88	88	87	86	85	83	82	80
JUNE	96	95	94	93	93	92	92	91	90	90	89	88	87
JULY	102	99	98	96	95	94	93	93	92	90	89	88	85
AUG.	102	99	98	96	95	94	93	92	91	90	88	87	84
SEP.	101	98	96	95	93	92	91	90	89	88	86	85	82
OCT.	92	89	88	87	86	85	84	83	82	81	79	78	76
NOV.	86	83	82	80	78	77	76	75	74	72	71	69	66
DEC.	79	75	73	71	69	68	67	65	64	62	60	58	54

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	21	15	12	8	5	3	1	-1	-3	-6	-10	-13	-19
FEB.	17	14	12	9	7	6	5	3	2	0	-2	-4	-7
MAR.	27	23	21	19	17	16	14	13	11	10	7	5	2
APR.	34	31	30	29	28	27	26	26	25	24	23	21	19
MAY	44	41	39	37	36	35	34	32	31	30	28	26	23
JUNE	56	53	51	49	48	47	46	44	43	42	40	38	35
JULY	61	59	57	56	55	54	53	52	51	50	48	47	44
AUG.	63	60	58	56	54	53	51	50	49	47	45	43	40
SEP.	54	50	48	45	44	42	41	39	38	36	34	32	28
OCT.	37	34	32	31	29	28	27	26	25	23	21	20	17
NOV.	26	23	22	21	19	19	18	17	16	15	13	12	9
DEC.	22	18	16	13	11	9	8	6	4	2	0	-2	-6

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	1.77	2.11	2.59	3.71	5.11	5.97	6.74
FEB.	1.72	2.05	2.50	3.53	4.82	5.60	6.31
MAR.	1.96	2.43	3.11	4.75	6.89	8.22	9.43
APR.	1.77	2.15	2.67	3.92	5.51	6.49	7.37
MAY	1.98	2.39	2.96	4.31	6.01	7.05	7.99
JUNE	2.02	2.43	3.01	4.36	6.08	7.13	8.08
JULY	1.28	1.71	2.34	3.99	6.28	7.75	9.13
AUG.	1.50	1.82	2.26	3.29	4.60	5.40	6.12
SEP.	0.73	1.00	1.40	2.49	4.04	5.05	6.00
OCT.	1.05	1.30	1.65	2.51	3.62	4.32	4.95
NOV.	1.49	1.84	2.34	3.55	5.11	6.08	6.97
DEC.	1.08	1.45	2.02	3.50	5.59	6.95	8.21

WILLIAMSTOWN

LATITUDE 38 DEGREES 39 MINUTES MEANS FOR THE PERIOD 1949-74
 LONGITUDE 84 DEGREES 37 MINUTES EXTREMES FOR THE PERIOD 1949-74

TEMPERATURE (DEG. F.):

MONTH	MEANS			EXTREMES			
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR
JAN.	41.1	22.5	31.9	75	1950	-21	1963
FEB.	44.1	23.9	34.0	77	1954	-14	1951
MAR.	52.5	31.3	41.9	80	1950	-2	1960
APR.	65.1	42.6	53.9	88	1951	20	1972
MAY	74.5	52.0	63.2	93	1962	27	1966
JUNE	82.3	60.5	71.4	102	1952	37	1966
JULY	85.7	64.6	75.1	104	1954	50	1961
AUG.	85.1	62.8	73.9	101	1964	44	1965
SEP.	79.5	56.5	68.0	101	1953	36	1965
OCT.	69.0	45.6	57.3	94	1953	20	1962
NOV.	53.6	34.1	43.9	81	1950	-1	1950
DEC.	43.4	25.6	34.5	70	1956	-9	1963
YEAR	64.6	43.5	54.1	104	1954	-21	1963

PRECIPITATION (IN.):

MONTH	MEAN	GREATEST DAILY	YEAR	MEAN SNOWFALL	GREATEST DAILY SNOWFALL	YEAR
JAN.	3.36	2.10	1951	4.0	8.1	1961
FEB.	3.06	2.32	1955	3.5	8.0	1966
MAR.	4.39	4.13	1964	3.9	9.0	1968
APR.	3.90	3.06	1970	0.1	1.5	1953
MAY	4.09	3.80	1961			
JUNE	3.57	4.24	1960			
JULY	4.33	3.84	1957			
AUG.	3.23	2.59	1971			
SEP.	3.13	4.57	1965			
OCT.	2.41	3.29	1972			
NOV.	3.57	2.35	1957	1.6	6.0	1966
DEC.	3.16	1.85	1957	2.3	4.3	1963
YEAR	42.20	4.57	1965	15.5	9.0	1968

MEAN NUMBER OF DAYS WITH:

MONTH	PRECIP. .01 INCH OR MORE	MAX. TEMP.		MIN. TEMP.		SNOW COVER 1 INCH OR MORE
		90 F AND ABOVE	32 F AND BELOW	32 F AND BELOW	0 F AND BELOW	
JAN.	11	0	0	24	2	6
FEB.	10	0	4	22	1	4
MAR.	12	0	1	18	0	2
APR.	12	0	0	5	0	0
MAY	11	0	0	0	0	0
JUNE	9	4	0	0	0	0
JULY	11	8	0	0	0	0
AUG.	9	7	0	0	0	0
SEP.	8	3	0	0	0	0
OCT.	8	0	0	3	0	0
NOV.	11	0	1	15	0	1
DEC.	11	0	5	23	1	3
YEAR	123	22	20	110	4	16

WILLIAMSTOWN (continued)

EXTREME HIGH TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	.99
JAN.	74	71	69	67	65	64	63	61	60	58	56	54	51
FEB.	76	72	70	69	66	65	64	62	61	59	57	55	51
MAR.	83	80	79	77	76	75	74	73	72	70	68	67	64
APR.	87	86	85	84	83	82	82	81	80	80	78	78	76
MAY	95	92	91	89	88	87	86	85	84	83	81	80	77
JUNE	100	98	96	95	94	93	92	91	90	89	87	86	83
JULY	102	99	98	96	95	94	93	91	90	89	87	86	83
AUG.	102	99	98	96	95	94	93	91	90	89	87	86	83
SEP.	102	99	97	95	94	92	91	90	89	87	85	84	81
OCT.	92	89	88	86	85	84	83	81	80	79	77	76	73
NOV.	84	80	78	76	74	73	72	70	69	67	65	63	59
DEC.	74	71	69	67	66	65	64	62	61	60	58	56	53

EXTREME LOW TEMPERATURES (DEG. F.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	.99	.95	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.01
JAN.	19	14	10	7	4	2	0	-2	-4	-7	-10	-14	-19
FEB.	23	17	14	10	7	5	3	0	-1	-4	-8	-11	-17
MAR.	27	23	21	19	17	16	14	13	11	10	7	5	2
APR.	39	35	33	30	28	27	25	24	22	20	18	15	11
MAY	47	43	42	40	38	37	36	34	33	31	29	28	24
JUNE	57	54	52	51	49	48	47	46	45	43	41	40	37
JULY	61	59	58	56	55	54	54	53	52	51	49	48	46
AUG.	58	56	55	53	52	51	51	50	49	48	46	45	43
SEP.	49	46	45	43	42	41	40	39	38	37	36	34	32
OCT.	38	35	33	32	31	29	29	28	26	25	24	22	19
NOV.	28	24	22	19	18	16	15	13	11	10	7	5	1
DEC.	23	18	15	11	9	7	5	2	0	-1	-5	-8	-13

MONTHLY PRECIPITATION TOTAL (IN.) WITH A PROBABILITY EQUAL TO OR LESS THAN:

	0.05	0.10	0.20	0.50	0.80	0.90	0.95
JAN.	0.89	1.21	1.69	2.99	4.82	6.01	7.13
FEB.	0.71	1.00	1.45	2.67	4.45	5.63	6.74
MAR.	1.19	1.60	2.24	3.91	6.27	7.81	9.24
APR.	1.21	1.58	2.13	3.54	5.46	6.69	7.83
MAY	1.69	2.06	2.59	3.94	5.45	6.44	7.34
JUNE	1.12	1.46	1.96	3.25	5.00	6.12	7.16
JULY	1.78	2.17	2.73	4.06	5.77	6.83	7.78
AUG.	1.16	1.46	1.90	2.98	4.41	5.31	6.14
SEP.	0.67	0.96	1.42	2.70	4.60	5.87	7.07
OCT.	0.77	1.00	1.33	2.19	3.36	4.10	4.79
NOV.	1.04	1.38	1.89	3.21	5.05	6.23	7.33
DEC.	0.99	1.29	1.74	2.87	4.41	5.40	6.31

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(LOCAL WEATHER OBSERVATIONS)

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