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KANSAS WEATHER AND CLIMATE

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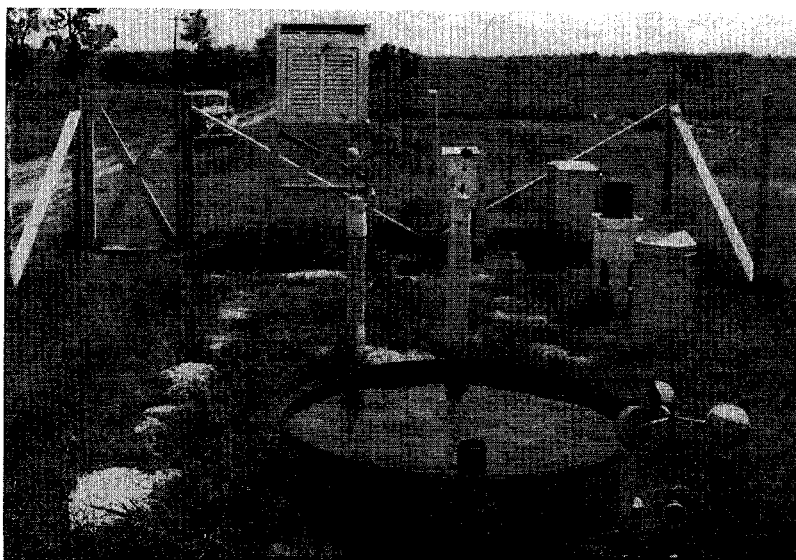
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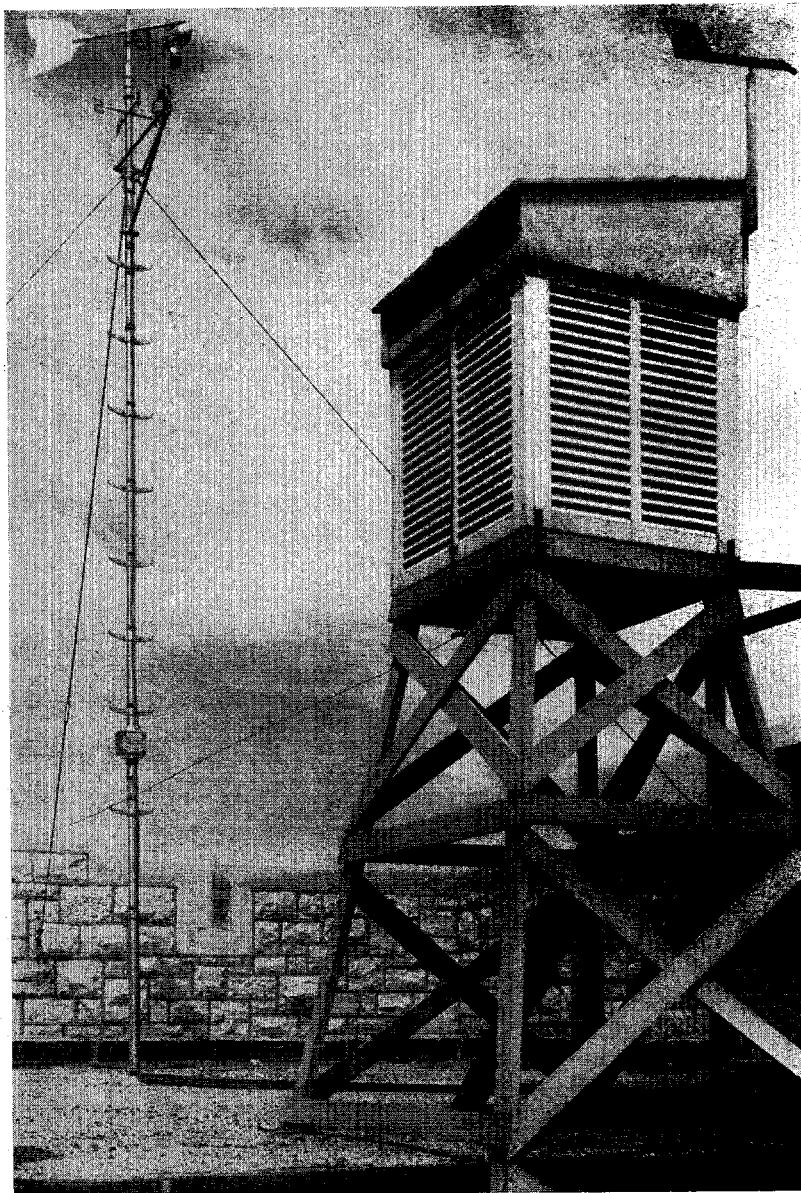
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Meteorological instruments on the Agronomy Farm, Kansas State College. The tank in the foreground measures the water evaporation from a free surface. Ground velocity of the winds, temperatures, and other pertinent weather data are also measured here.



Meteorological instruments mounted on the tower of Physical Science building, Kansas State College. Observations are made on wind direction and intensity, sunshine, temperatures, humidity, rainfall and snowfall.

THE CLIMATE OF KANSAS¹

By A. B. CARDWELL² AND S. D. FLORA³

INTRODUCTION

Located in the geographical center of the United States, Kansas has a climate generally typical of the American Great Plains Region. Removed from the immediate influence of extensive water areas, its air is dry, its temperature ranges large, and its sunshine abundant. Unobstructed by mountains, its winds flow freely. And its location between the atmospheric moisture supply of the Gulf of Mexico and the vast sources of less humid air from the north and west, favors it with a normal sufficiency of precipitation and provides the variety of its wide seasonal ranges in snow and rainfall.

Though the state as a whole is noticeably drier than those to the east, its normal rainfall in every section is fully sufficient for staple crops. Winters are drier, with less snow, than in states lying to the east, and less rigorous than in those to the north. Few parts of the country are favored as Kansas is in the combination of abundant late-spring and early-summer rain and sunshine, and except for occasional spells of abnormal heat in midsummer and outstanding cold in winter, temperatures over the state are normally pleasant in every season of the year.

The state has three rather distinct climates—eastern, middle, and western (see Fig. 1). The eastern third, limited approximately by a north-south line connecting the western borders of Marshall and Chautauqua counties, has an annual precipitation of 34.57 inches (Table 6), and its climate is comparable in a general way to that of the Middle West Corn Belt. In this section temperature extremes are not as great as in the western part of the state, planting of spring crops is sometimes delayed by wet fields, and harvesting is often hampered by soft ground. Fine yields of corn and alfalfa are produced in this section in normal years, and truck crops and fruits can be raised in abundance.

The middle section extends westward to a line connecting the western borders of Phillips and Comanche counties. With an average precipitation of 25.94 inches (Table 29), this section is the heart of the state's hard winter wheat belt. Early springs favor rapid growth, and moisture is sufficient to produce good yields almost every year. Many areas in this section also produce abundant crops of corn, alfalfa, and grain sorghums; and fruit and truck crops are grown in favorable locations.

The western third, the short grass country, has an average annual precipitation of 18.70 inches (Table 48), which is sufficient for wheat and grain sorghums in ordinary years and for varieties of corn that are adapted to this climate. Fruit and truck crops are

1. Contribution No. 73, Office of the Director.
2. Mr. Cardwell is head of the Department of Physics, Kansas State College.
3. Mr. Flora is Meteorologist, Weather Bureau, located at Topeka, Kansas.

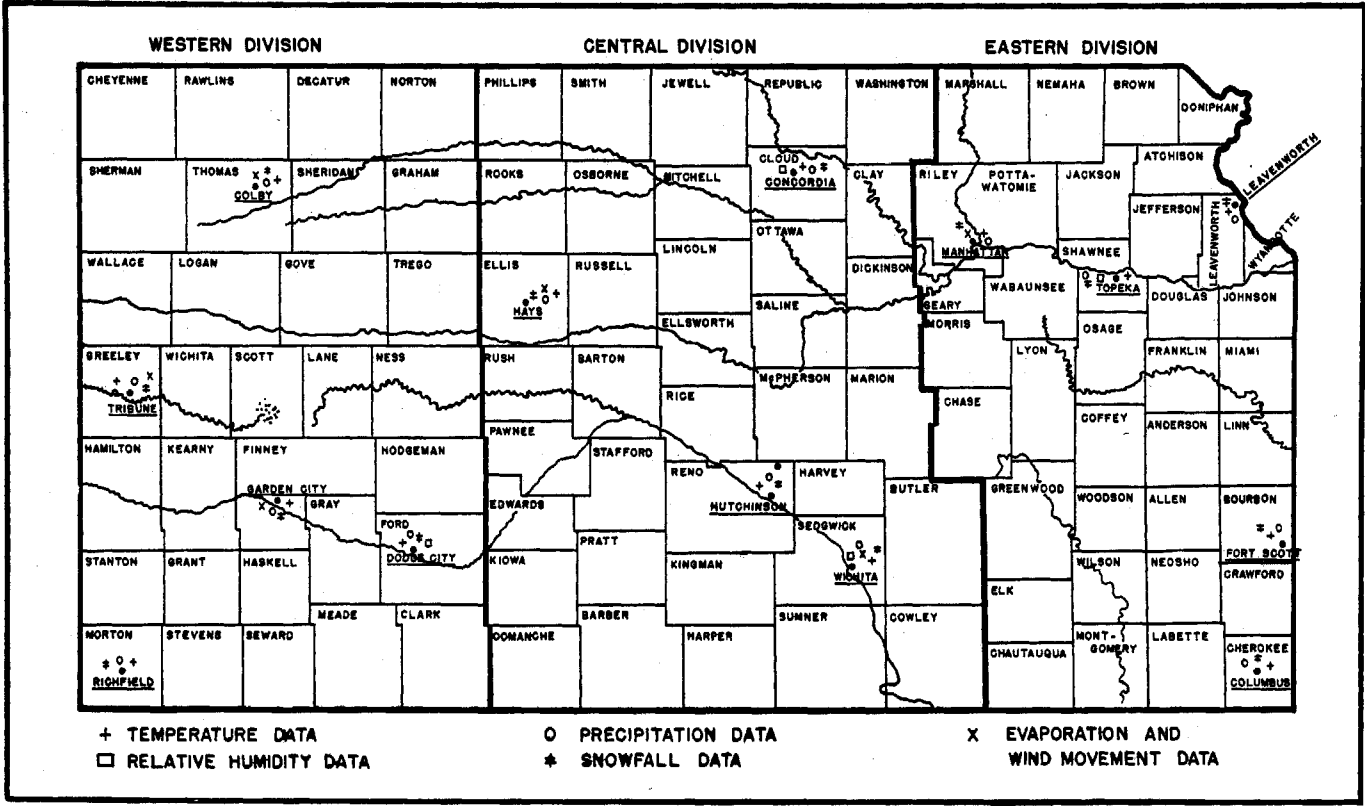


FIG. 1.—Map showing the divisions of the state and stations whose data are included in this publication.

not grown to any considerable extent except in limited areas where irrigation is available. In this western section rainfall is less certain than in the eastern part of the state, and droughts are more frequent and disastrous. Temperature extremes are generally greater, especially in the range between day and night temperatures.

As the chief contributing factors of crop growth, the distribution and times of occurrence of precipitation over the state are of outstanding importance. While average annual amounts are lighter than those in states farther east, Kansas is especially fortunate in that from 71 to 78 percent of the total annual fall of moisture occurs during the six crop-growing months, April to September (see Fig. 5). Except for some of those along the Gulf Coast, no state in the country has as much rainfall during these summer months as the eastern third of Kansas. Even in the middle third of the state, approximately 20 inches fall during these six months, which is within two inches of the amount that falls in the same season in Illinois, Indiana, Ohio, New York, and the New England states; and the western third, sometimes referred to as the "semiarid region," has an average fall of 15 inches for this period, which almost equals the normal amount for Michigan and Wisconsin and is approximately three-fourths of average for Iowa for these months.

Normally the snowfall of Kansas (Table 3) is light and the winters pleasant, compared with those of more humid areas to the located as far north as Kansas. Snow seldom lies on the ground for more than a week or two at a time, and in the western counties it is common for livestock to be pastured on buffalo grass throughout the winter. When an occasional severe winter produces snow that stays on the ground for a month or two, great difficulty is experienced in getting enough rough feed for cattle in the western part of the state, as stockmen do not prepare for such an unusual condition.

Topographically, Kansas is commonly thought of as flat; but actually by far the greater part of the state is made up of rolling country. In the eastern part there are many wooded streams, and in the west many of the stream beds are bordered by high bluffs. Elevations vary from less than 1,000 feet in the southeastern part to more than 4,000 feet near the Colorado line. And there is comparatively little waste land; in actual acres devoted to field crops, Kansas is second only to Texas.

Kansas being preëminently an agricultural state, its prosperity from year to year depends largely upon the weather; and an unfortunate tendency has prevailed from the beginning of its history to give undue publicity to unfavorable features. The terms "Kansas drought," and "Kansas cyclone" have almost become a part of the American language; and people not familiar with actual conditions have difficulty reconciling the abundant loose talk about droughts, dust storms, and tornadoes with the fact that Kansas rates so high in general prosperity and in the production of major crops. Its wheat crop exceeds that of any other state year after year, and the production of corn, grain sorghums, alfalfa, and livestock has consistently been above that of many other states.

Precipitation

Average annual precipitation decreases with remarkable uniformity from approximately 42 inches in the extreme southeastern corner of the state to between 16 and 18 inches in the extreme western counties (Fig. 6). Northeastern counties of the state have considerably less precipitation than the southeastern counties, while those in the northwest have noticeably more than those in the southwestern corner. Annual amounts of precipitation, even in the eastern part, are generally less than those in grain-growing states to the east; but this deficiency is largely compensated for by the fact that Kansas gets the bulk of its moisture during the growing season (Fig. 5). The western part of the state, however, receives more precipitation than adjacent sections of Colorado and some parts of western Nebraska and South Dakota.

The month of least normal precipitation is January, when all parts of the state except the Southeastern counties have less than an inch and the western counties well below half an inch. Following January, there is a steady increase in the normal monthly amounts until June, at which time average rainfall is from four to five inches over the eastern half of the state, and two to three inches in the western counties. After June, there is normally a rather steady decrease to the end of the year except for a curious increase in the eastern half from about July 30 to August 12. Incidentally, this increase comes at a fortunate time for the corn crop and has often had the effect of reviving it after a drought of considerable duration.

The state's heaviest single rains occur between July and September, when torrential falls of from four to six inches in 24 hours have been recorded in practically all counties, including the western area. The greatest recorded 24-hour rainfall was 12.59 inches at Burlington on May 31-June 1, 1941.

The wettest year since date-wide records were begun in 1887 was 1915 (Table 2), when the average for the state was 40.77 inches, with 50.70 inches in the eastern third (Table 6). The driest year in this period was 1936, when the state average was 18.31 inches, with 23.63 inches in the eastern third. However, 1917 approached this latter record very closely with a state average of 19.60 inches.

Whether precipitation over Kansas has shown any progressive increase or decrease since land was opened for settlement and the prairie sod broken up has been the subject of much discussion, especially in the western counties where any such change would have an extremely important bearing on crop yield. During the generally wet period that prevailed from 1901 to 1915, a theory appeared to the effect that "rain follows the plow." But during the dry period beginning about 1930 this theory was displaced by another saying directly the opposite—that breaking up too much of the prairie sod had caused the drought. Neither of these notions had any basis in fact. An examination of long records over the state, a number of which cover the last 50 to 100 years, shows no significantly progres-

sive variation in the annual amount of precipitation or in its distribution throughout the year. In Kansas, as in other parts of the country, there have been alternately recurring wet and dry periods, with no regularity in length or time of occurrence and no clues to suggest when either may occur again in the future. All records indicate plainly that a period of dry years like that from 1930 to 1940 is alternately followed by a return of normal or above-normal precipitation, and later by a return to another dry period (Fig. 4). There is no reason to think that this irregular sequence of fluctuations between wet and dry conditions has not prevailed since the dawn of history, and no reason to doubt that it will extend indefinitely into the future.

Temperatures

The average annual temperature in Kansas ranges from 58° in the southeastern counties to 52° in the northwestern (Fig. 3), with an average of 55° for the state as a whole. The coldest month is January, with an average temperature of 30°, and the warmest July, with an average of 79°. During the mid-winter season the average minimum temperature ranges from 25° in the southeastern counties to 14° in the northwestern; and sub-zero weather has occurred almost every year in every part of the state, although as a rule temperatures below zero do not continue for more than two or three days. The lowest winter temperatures often occur during the first half of February.

After the middle of February there is normally an irregular but general warming up until late July or early August (see Fig. 10 as example). In March, when temperatures are usually most erratic, abnormal warmth often forces vegetation ahead of the season, thereby increasing possible damage from late frost. Though July has the highest average temperature of all months, the summer heat is generally more oppressive in August, owing to decreased wind movement.

During mid-summer, normal maximum temperatures range from 90° to 95° over the state, and readings of 100° or higher are rather common. (See Fig. 11 as example.) Normal summer minimum temperatures at night range from 68° in the southeastern counties to between 60° and 62° in the west, where nights are uniformly cool, even in the summer season. Extremely high temperatures of 105° to 110° or higher, have been recorded in almost every part of Kansas.

The highest temperature on the state's record is 121° which occurred at Fredonia on July 18, 1936, and near Alton on July 28, 1936. The lowest temperature ever recorded was -40° at Lebanon on February 13, 1905.

The warmest recorded summer in Kansas was that of 1934. In July of that year, average monthly maxima of 100° to 105° occurred in many parts of the state, with extremes that generally ranged between 110° to 119° or higher. However, no place in the state has yet equaled the record of Clay Center for hot afternoons during the

great drought of 1913; at that place the monthly average maximum for August was 107° , which has probably never been exceeded anywhere in the United States except at a few of the hottest points in the desert region of the Southwest.

The coldest Kansas winter of the past 54 years was that of 1904-'05 and a close second was that of 1898-'99. The coldest month since state-wide records were begun in 1887 was January, 1940, when the average temperature for the state was 15.2° , or 14.60 below normal. This month is memorable also for the heavy snows that covered practically all the state from the first day to the last.

In considering these somewhat startling extremes, it should be remembered that both the high temperatures of summer and the low ones of winter are usually of short duration and generally occur when the air is dry enough to mitigate to a considerable extent the discomfort they cause. In this respect high relative humidities (not normal to Kansas) are uncomfortably important, as was proved during July, 1941, when the heat caused more discomfort than that of many previous Julys with much higher temperatures. In a general way, it may be said that a temperature of 100° on an ordinarily dry day in the summertime in Kansas is no more trying than a temperature of 90° in more humid eastern climates.

Blizzards, in the common conception of the term, are extremely rare in Kansas, and the few that have occurred are accordingly remembered vividly. In the past 60 years there have been but two great blizzards. One occurred in January, 1886, and resulted in much suffering and great losses in livestock. The other struck the northwestern counties during the forenoon of March 26, 1931, causing widespread suffering, and the loss of thousands of cattle and a great number of sheep and hogs, although there was no loss of human life. The worst of this latter blizzard was confined to the western third of the state.

Frosts

Thanks to the length of the growing season (Fig. 9), frost danger in Kansas is seldom serious except after abnormally warm weather in March or early April. The average date of the last killing frost in spring ranges from the second week in April in the extreme southern counties of the eastern half of the state to the first week in May in the northwestern counties (Fig. 8), though killing frosts have been known to occur as late as the last week in May over most of the northern and western counties.

The average date of the first killing frost in autumn ranges from the first week in October in the northwestern counties to the last week of that month in the southeastern part of the state (Fig. 7). Killing frosts have been known to occur between September 10 and 20, however, in the northern part of the state.

Truck crops have been badly damaged in the eastern half by late frosts, and occasionally corn has suffered and early blooming fruit has been killed. In the autumn, however, most crops except grain

sorghums mature in advance of frosts; and corn rarely fails to mature before the occurrence of damaging cold.

In the western counties, where humidity is usually low, temperatures of 28 to 32 degrees often occur without frost deposit or serious damage even to tender truck crops.

Droughts

In common with practically all parts of the country, Kansas has its droughts. These are considerably more frequent in the western half than in the eastern half and are usually most serious during July and August. During such periods crop damage is due as much to the high rate of evaporation and excessive sunshine as to the deficiency in rainfall.

Records for the two decades ending with 1914 show that in the eastern part of Kansas periods of 30 days or more without 0.25 of an inch of rain on any day occurred during the growing season (April to September, inclusive) on an average of about one year in two, which is the average for other important corn-growing states; but in the western part, where rainfall is more irregular, 33 periods have occurred in the 20 years for which data are available.

From fragmentary records antedating the state-wide meteorological records begun in 1887, droughts are known to have occurred in 1860, 1864-1865, and 1874, the last mentioned being known to old settlers as "the grasshopper year." Since 1887, the most severe droughts were those of 1901, 1911, 1913, 1917, and the series of hot, dry years beginning with 1930.

In 1901, the eastern portion of Kansas had but 16 percent of its normal precipitation from April 14 to July 25, and this deficiency was attended by excessive heat.

During the drought of 1911, which really began in 1910 in the southeastern part of the state, the rainfall during the six crop-growing months was, with two exceptions, the least that had occurred since 1887. The damaging effect of this drought was increased by the hottest weather ever known in June up to that time.

The drought of 1913 was in all probability the most damaging the state had experienced up to that time. The three summer months—June, July, and August—were drier than the corresponding months of any previous year and were only a fraction of a degree short of being the hottest also. Available records of early droughts indicate further that, with the possible exception of 1874, the entire summer of 1913 was the driest in the state's history up to that time. Serious in all sections of Kansas, this drought was especially damaging because of its continuation until September 10—too late to revive corn and vegetables.

A severe short drought occurred also in 1916, when July and August combined were drier than that period in any previous year of record, except 1894 and 1913. The corn crop was seriously damaged.

The drought of 1917 was severe in June and July, which together

made the driest two-month period on record for the time of year and produced a 12-month total that came within a fraction of an inch of being the driest on record.

A damaging drought occurred also in the summer of 1919, when July and August came very near breaking all records for deficient moisture.

December, 1922, and January, 1923, made the driest two-month period on record for any time of the year; but since this dry period occurred outside the crop-growing season, the resulting damage was not serious.

Beginning with 1930, a series of hot, dry summers continued with minor interruptions until 1939. The average precipitation for each year beginning with 1931 was below normal for the state as a whole, except in 1935 and 1938 when it was slightly above normal. Every July beginning with 1930 averaged above normal in temperature, and also every August beginning with 1929, except in 1933 and 1940.

The driest year in this series was 1936, when the state average precipitation was 18.31 inches, or 8.11 inches below normal. July and August that year had less precipitation than any other July-August on the state record. The state average for these two months was 1.92 inches, which was 4.33 inches below normal.

Loss resulting to crops from these droughts was very serious, the corn crop especially being almost completely destroyed in 1934 and 1936.

In the southwestern corner of Kansas, where much virgin sod had been broken in previous years, dust storms of unprecedented severity occurred in this decade (1930-1939), especially in the spring of 1935. Dust from these storms was blown to all parts of Kansas and far beyond its borders. Somewhat less severe dust storms also occurred in March and April of 1936, and again, still with decreasing severity, during the spring months of 1937, 1938, and 1939. An increase of precipitation late in 1940 and in the early months of 1941 practically ended the dust storms in all parts of the state.

The dust storms in the northwestern counties in 1935 and 1936, while severe, were not believed to have been any more intense than those of the early 1890's.

There is no reason to doubt that storms of this type have occurred in the distant past over the western part of the state and will occur again with the dry periods of the future.

Floods

The rainfall of eastern Kansas during the late spring and early summer is normally heavier than that in almost any other part of the country at that time of the year. Falls of two to six inches in 24 hours often occur, and when these amounts fall during periods of prolonged rains, serious overflows of the rivers usually follow. In the western half of the state, overflows or "flash floods" often occur from downpours that last only a day or two. The spring melting of snow cover, either within the state or at the few headwater sources

in Colorado, has seldom been the cause of overflows, except in rare instances confined to the southeastern part of the state.

Considering the capacities of the river channels, the drainage areas of the principal streams are proportionately very large. River banks in many cases are low and courses of rivers are tortuous. Runoff from heavy rains exceeds the carrying capacity of streams, so that a relatively small flow of water may spread out over large territory and become a destructive flood. Most of the floods of the state have been caused by rains falling over the eastern half. However, the Republican river occasionally overflows on account of torrential rains falling in its basin in northeastern Colorado and western Nebraska. Heavy downpours occurring after June have seldom caused floods of more than local extent, although the Smoky Hill river has overflowed seriously several times at Salina during the latter part of the summer, and the worst flood of record in the Marais des Cygnes river occurred in November.

The first great overflows of the state of which there is authentic record were those of 1826 and 1844. Very little is known of the former, but there is evidence that the latter exceeded all subsequent floods in the Kansas and Marais des Cygnes basins and flooded the Missouri Valley below Kansas City. As the state was settled by only a few pioneers at that time, records of this flood are only fragmentary; but it is known to have exceeded the 1903 flood at Kansas City, and it was nine to ten feet higher than that flood at Topeka.

Floods of the present century that stand out especially in the Kansas watershed are those of 1903, 1904, 1908, 1915, 1935, and 1941. In the Neosho and Marais des Cygnes basins, the greatest known overflows occurred in 1826, 1844, 1855, 1903, 1904, 1909, 1926, 1927, 1928, and 1935.

Excepting only those of 1844, the worst known floods in the state's history were those of 1903. Owing to increased population and the advanced development of commercial interests, however, the damage to property and loss of life in 1903 were both much greater than in 1844.

Next to the flood of 1903, that of 1908 was especially damaging in the Kansas river proper. This was followed by another overflow almost as great in June, 1935, and another of lesser magnitude in June, 1941.

In the Republican river basin there have been two especially destructive overflows. The first was in June, 1915, which was also severe in the Solomon river basin. Property damage in the basins of these two rivers in Kansas was estimated at nearly \$4,000,000. The second Republican overflow, in June, 1935, was the worst recorded for that river basin. Practically all bridges along the river were washed out, along with many small buildings in the path of the water. The total area covered by this flood was estimated at 125,000 square miles, and the damage, exclusive of that to railroads, was estimated at \$2,500,000, with much greater losses in Nebraska.

The Marais des Cygnes river, which overflows frequently, had its worst flood in November, 1928. At Ottawa, the river reached a stage of 37.6 feet, 13.6 feet above bankful, and 50 blocks of the city were covered by the flood waters. Damage in Ottawa was estimated at \$200,000 and for the basin as a whole, in excess of \$1,000,000.

One of the most serious overflows in the Arkansas valley—in June, 1921—was due almost entirely to great downpours in the basin above Pueblo, Colo. Damage at Pueblo was extremely severe, and from the Colorado line to Wichita, losses were estimated at \$1,000,000. Other less serious overflows occurred in the Arkansas river in 1877, 1904, and 1923.

In June, 1941, record-breaking overflows occurred in the upper reaches of the Blue river and the upper Solomon. The city of Marysville suffered loss from this flood estimated at \$600,000.

In 1927, when devastating floods occurred in practically all river basins in the state and the Neosho at Oswego and the Solomon at Beloit each overflowed its banks eight times, the property loss for the state was estimated at nearly \$10,000,000.

Winds

The prevailing winds in Kansas are from the south from April to October, inclusive, except that in the western portion they are from the southeast during April, May, and June, and in some sections through July and August. During the winter season north or north-west winds prevail, though south winds are frequent, especially in the eastern half of the state.

There is a pronounced difference in wind velocities between the eastern and western parts of Kansas. Over the eastern third, the winds are not noticeably higher than those of other states between Kansas and the Atlantic Coast; but the western third is one of the windiest inland areas in the country.

In nearly all parts of Kansas, March and April are the windiest months, and July and August the least windy. There is a marked variation during the day on the average, the velocity increasing towards the warmest part of the day and falling off at night.

High northerly or northwesterly winds usually precede and accompany cold waves and intensify the discomfort of low temperatures. Snowfalls at such times are often badly drifted, sometimes blocking highways and rail lines for several days.

The most unwelcome winds of the state are the so-called "furnace winds" that occur in prolonged heated periods. Usually from the south, and with shade temperatures of from 100° to 116° or higher, these winds often have high velocities and cause great injury to growing crops. In extreme cases they have been known to kill the foliage and bark on the windward side of trees and to destroy corn crops within a few days' time. They are very irregular in occurrence and available records about them are insufficient to indicate any trend of increase or decrease in frequency. For present purposes

they may be considered a characteristic feature of the state's climate.

In the western half of Kansas great damage is often caused during a dry winter or early spring by wind erosion—high winds that pick up the topsoil leaving the roots of the wheat plant bare, and otherwise injuring the crop by the mechanical action of blowing dust particles or burial under soil-drifts. Wheat has suffered seriously from this cause in western Kansas on many occasions.

Tornadoes

In common with other midwestern states, Kansas experiences tornadoes in one region or another every year, but the territory covered by a storm of this type is usually so small that it can be represented by a pin scratch half an inch long on a map of the state in a full-sized atlas.

Tornado statistics indicate that, when equal areas are considered, these storms are no more common in Kansas than in Iowa or Arkansas, despite the reputation of Kansas as a "cyclone state."

A compilation covering a period of 19 years indicates that an average of 13 tornadoes occur in the state each year. Resulting property losses are relatively small, seldom totaling over \$500,000 in any one year; and loss of life does not exceed six a year on the average.

During the 16-year period ending with 1931, eight other states suffered more property damage from tornadoes than did Kansas, and 15 others reported a greater number of deaths from this cause.

While more frequent during May and June than in other months, tornadoes have been known to occur in every month of the year excepting January and December. Of 176 tabulated in the 15-year period ending with 1928, 45 percent occurred in the eastern third, 34 percent in the middle third, and 21 percent in the western third of the state. The northeastern counties appear to have more tornadoes than any other part of the state.

Two outstanding Kansas tornadoes were that at Great Bend on November 10, 1915, with a loss of \$1,000,000, and that at Hutchinson on May 7, 1927, which traveled over a path 112 miles long and caused a property loss of about \$1,300,000. But these, the worst in the state's history, are dwarfed by comparison with the 10 to 20 million-dollar disasters suffered during the 20's in several other midwestern states.

Hurricanes do not occur in Kansas.

Hail

In comparison with the publicity given to Kansas' windstorms, very little has been published about its hailstorms, though in terms of damage the state's hail is actually far worse than its wind.

The geographical distribution of hail is almost exactly the reverse of the annual precipitation distribution, the hail hazard increasing

steadily from the eastern to the western border of the state, while the normal-precipitation decreases toward the west. The experience of a company that wrote extensive hail insurance in the period ending with the great hail year of 1915 indicates that in some of the western counties the loss at times approximates 10 percent of the value of the crops grown.

It happens that the time of the greatest hail frequency, May and June, is also the time when the enormous Kansas wheat crop is most susceptible to hail damage, so that most losses from this cause are in wheat. Once a wheat field has been struck by heavy hail it can seldom recover. Corn and other crops that do not mature so early may recover almost completely from a moderate hailstorm.

Drought, excessive rains, and the various insect pests and diseases that affect crops, and especially wheat, can to some extent be anticipated, but hail can neither be foreseen nor prevented, and its destructive effects can seldom be mitigated, except by insurance.

Since no systematic effort has ever been made to gather complete statistics of hail losses over Kansas, no specific record of them is available; but damage from this cause is known to be very great.

Storms causing losses of from \$25,000 to \$50,000 are not at all infrequent, and in several recorded instances single storms striking the heart of the wheat belt just before harvest have resulted in losses of from one to three million dollars. In many cases hail stones have been known to accumulate in drifts a foot or more deep and to last for several days, even in the summertime.

In 1915, one of the worst years for hail damage in the state's history, the loss was estimated at \$8,450,000, which is greater than the damage done by tornadoes over a period of 16 years. In 1928, which seems to have been the worst year so far for hail damage, losses were estimated at \$12,400,000. In June of that year two hailstorms, both in the western part of the state, caused losses estimated at \$3,000,000 each.

Sunshine and Cloudiness

The sunshine of Kansas is one of its greatest assets; but in drought periods it may also be a serious liability. Normally, however, practically no other part of the country with as much rain during the growing season is at the same time favored with as high a percentage of possible sunshine, which together make an excellent combination for the rapid growth of crops.

July and August are the sunniest months, with recorded averages at Weather Bureau stations (where records are kept automatically) that range from 73 to 82 percent of the possible amount. The least sunshine of the year occurs in December and January, when the averages range as low as 50 to 60 percent of possible amounts. None of the fully equipped Weather Bureau stations has an average of less than 142 clear days annually nor more than 106 cloudy days. At Dodge City, which is representative of the western part of the state,

there is an average of but 65 cloudy days per year. For Kansas as a whole, the average annual number of clear days is 186, partly cloudy 100, and cloudy 79.

August 12, 1941.

-S. D. F.

Acknowledgment

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-A. B. C., S. D. F.

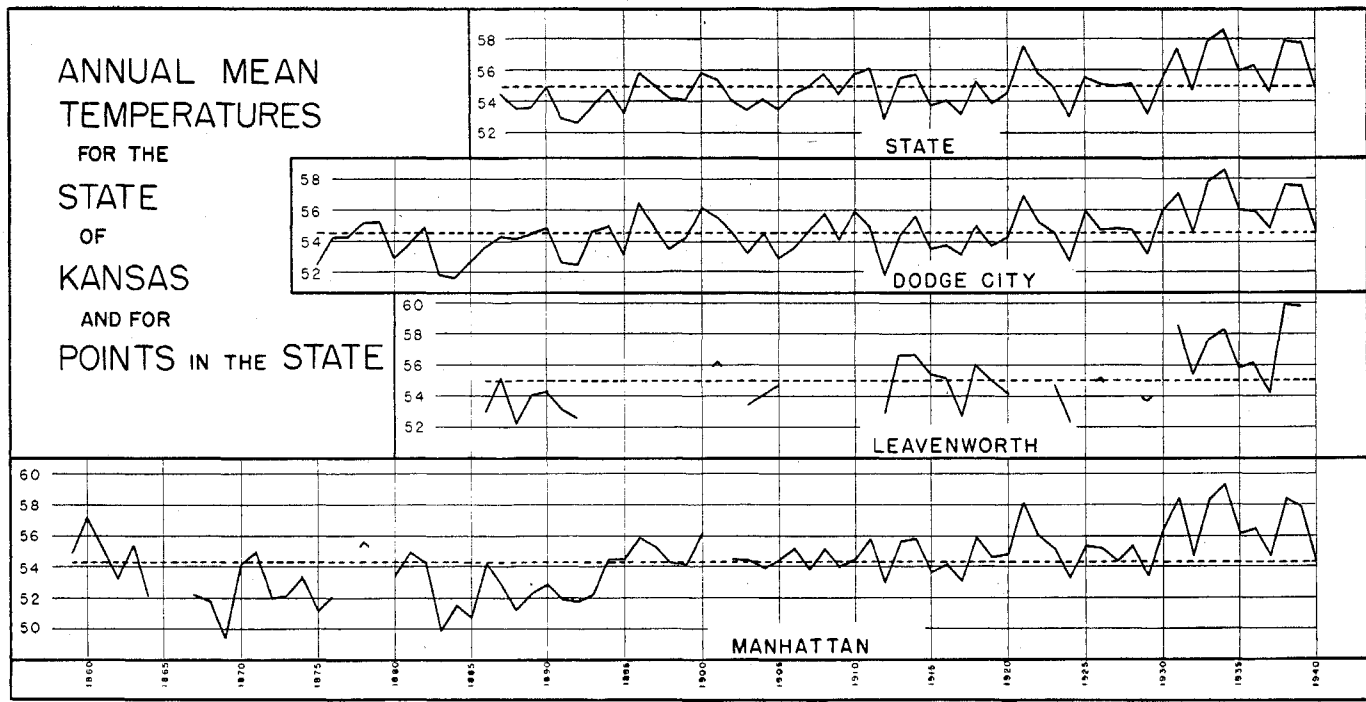


FIG. 2.—Annual mean temperatures for the state of Kansas and for points in the state.

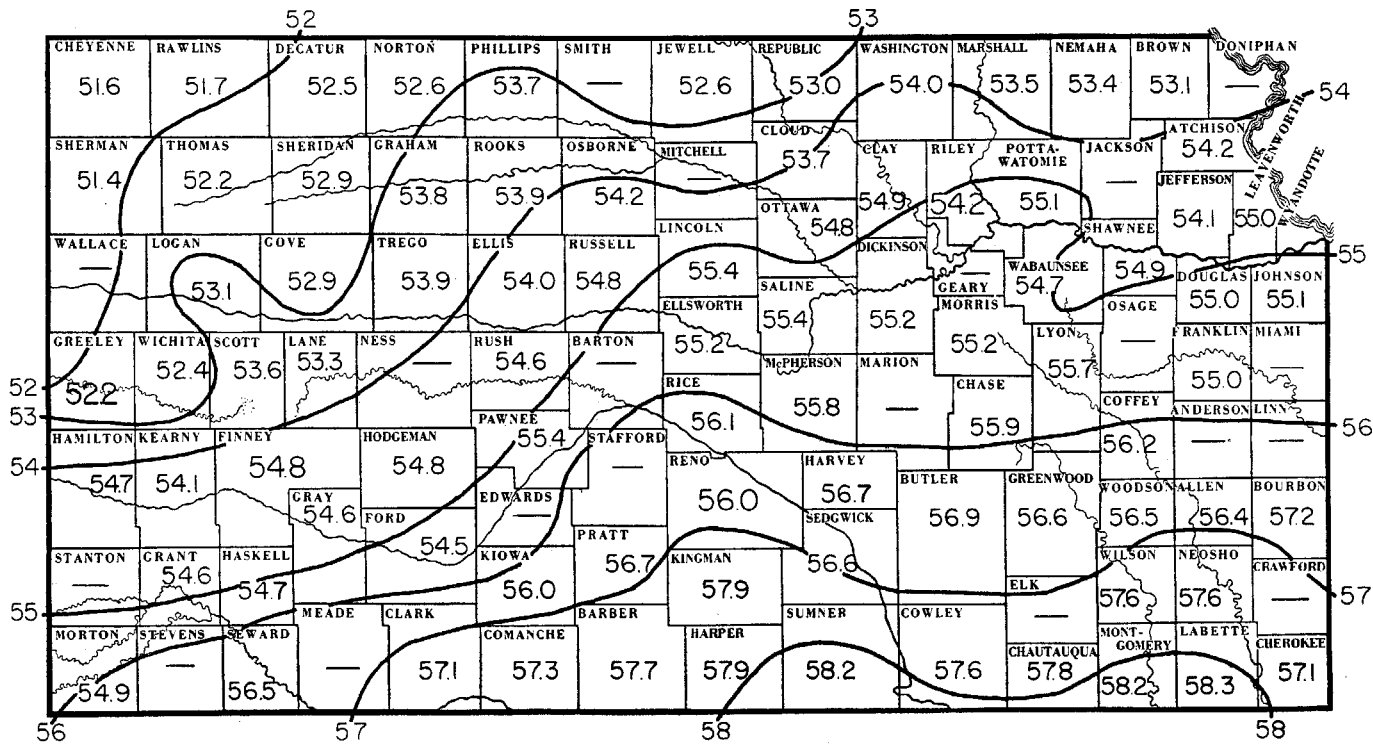


Fig. 3.—Annual mean temperatures by counties.

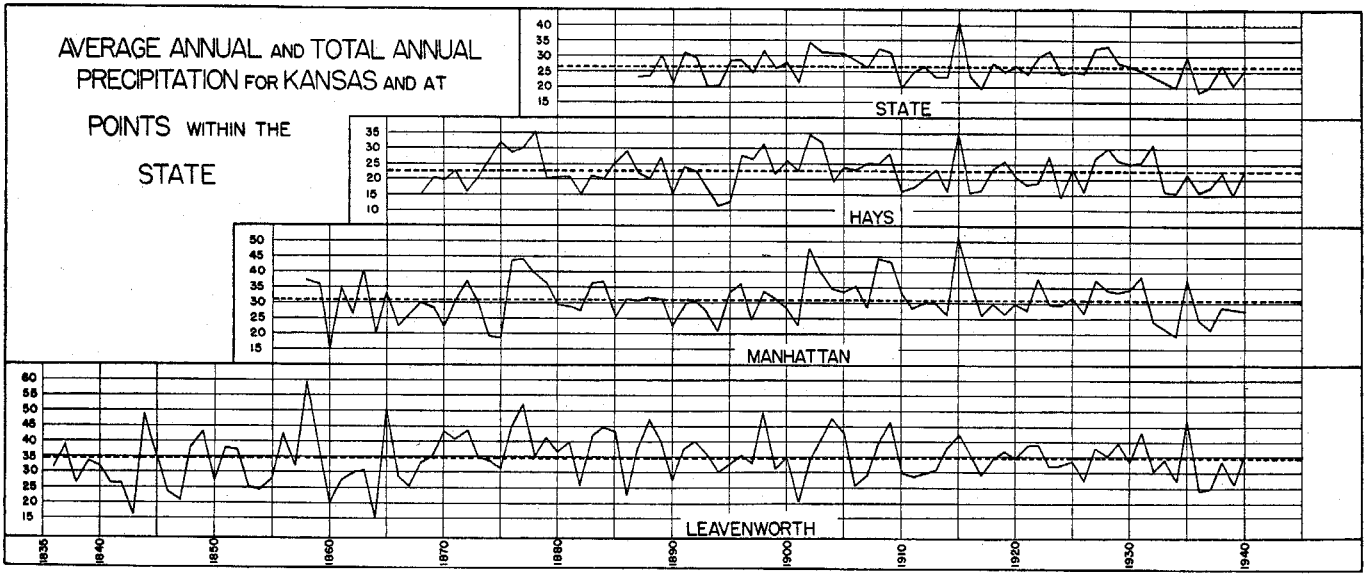


FIG. 4.—Average annual and total annual precipitation for Kansas and at points within the state.

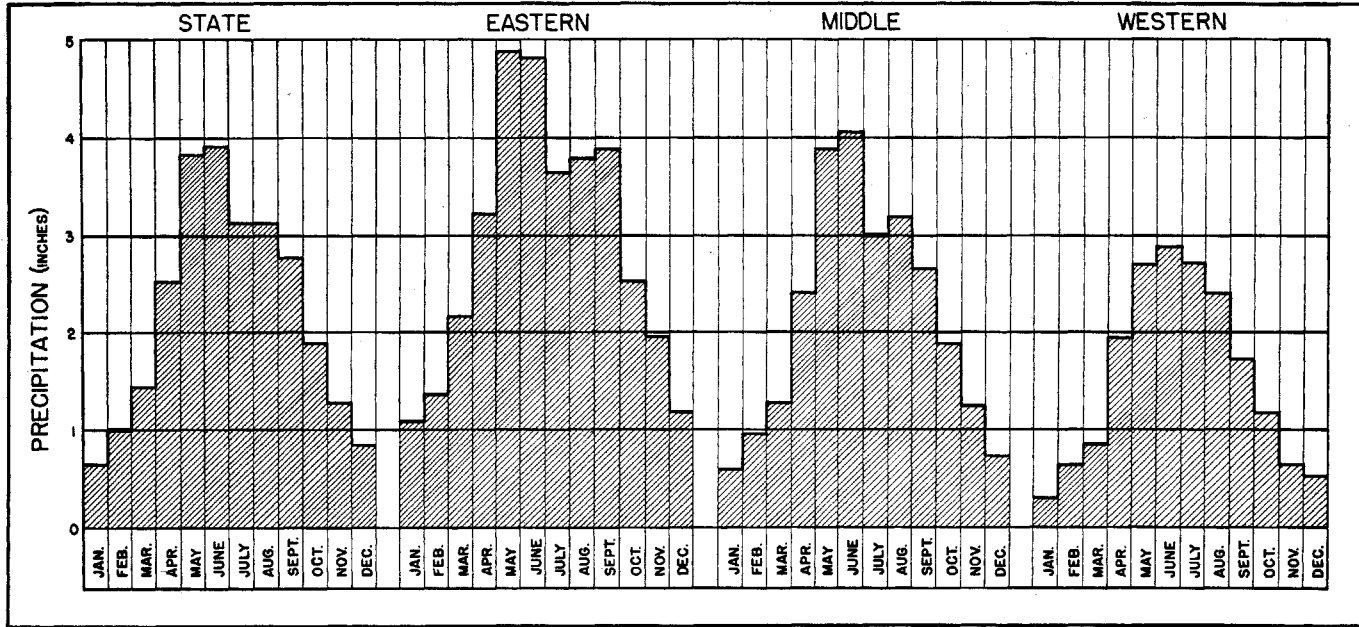


FIG. 5.—Seasonal distribution of precipitation for the state and for divisions in the state.

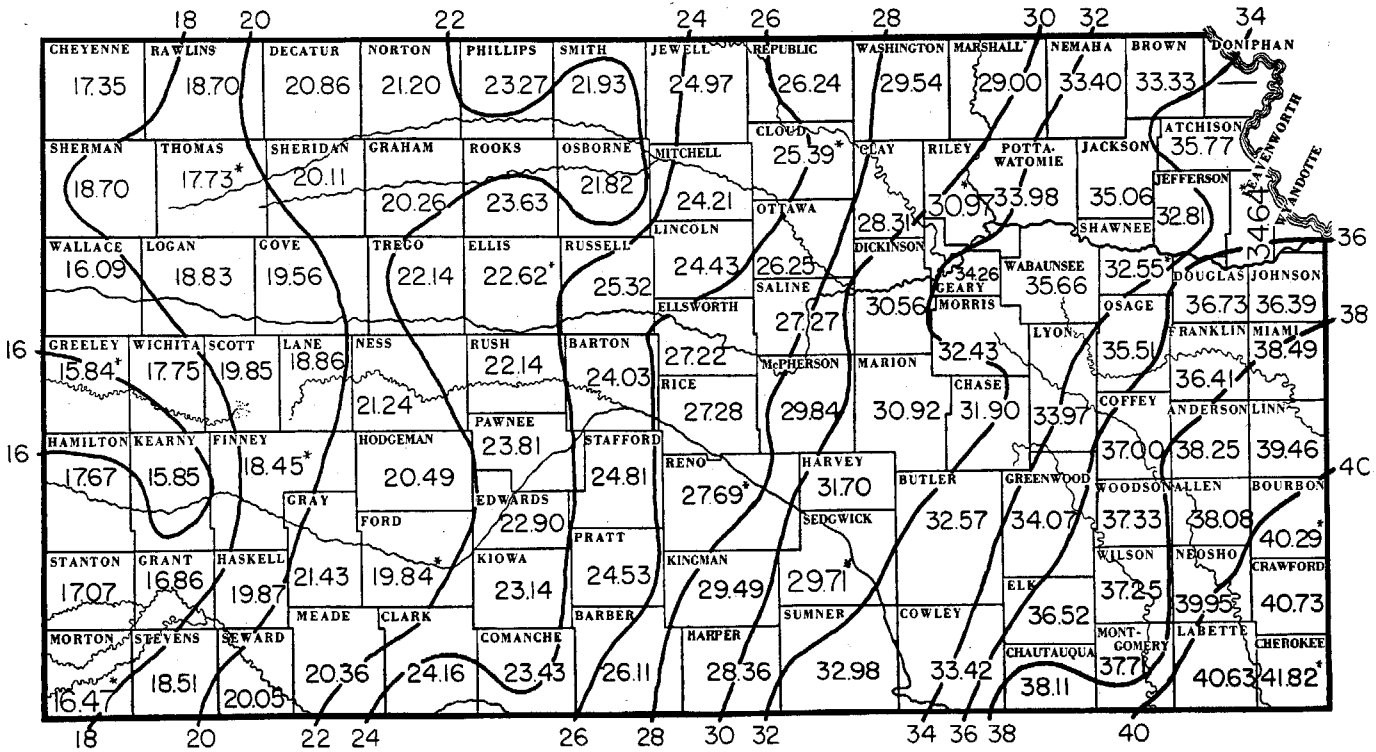


FIG. 6.—Average annual precipitation in Kansas by counties.

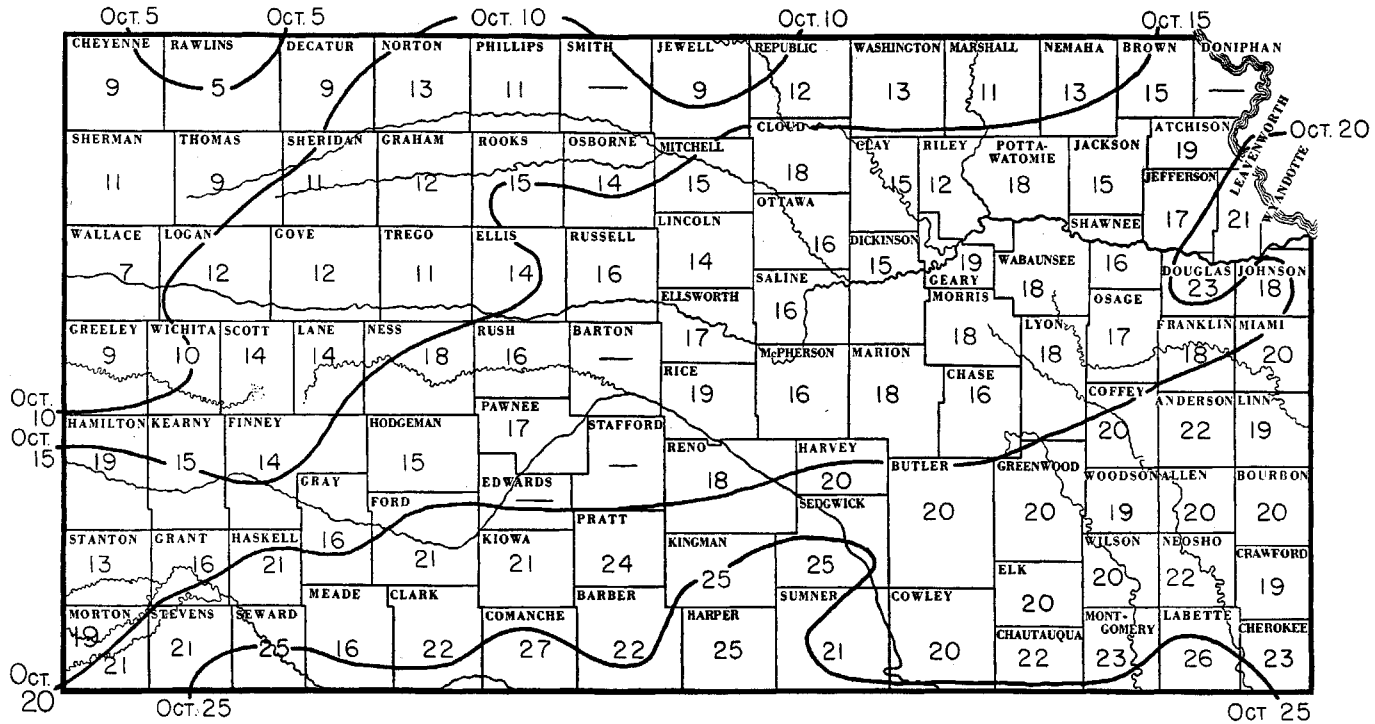


FIG. 7.—Average date on which the first killing frost in the fall occurs.

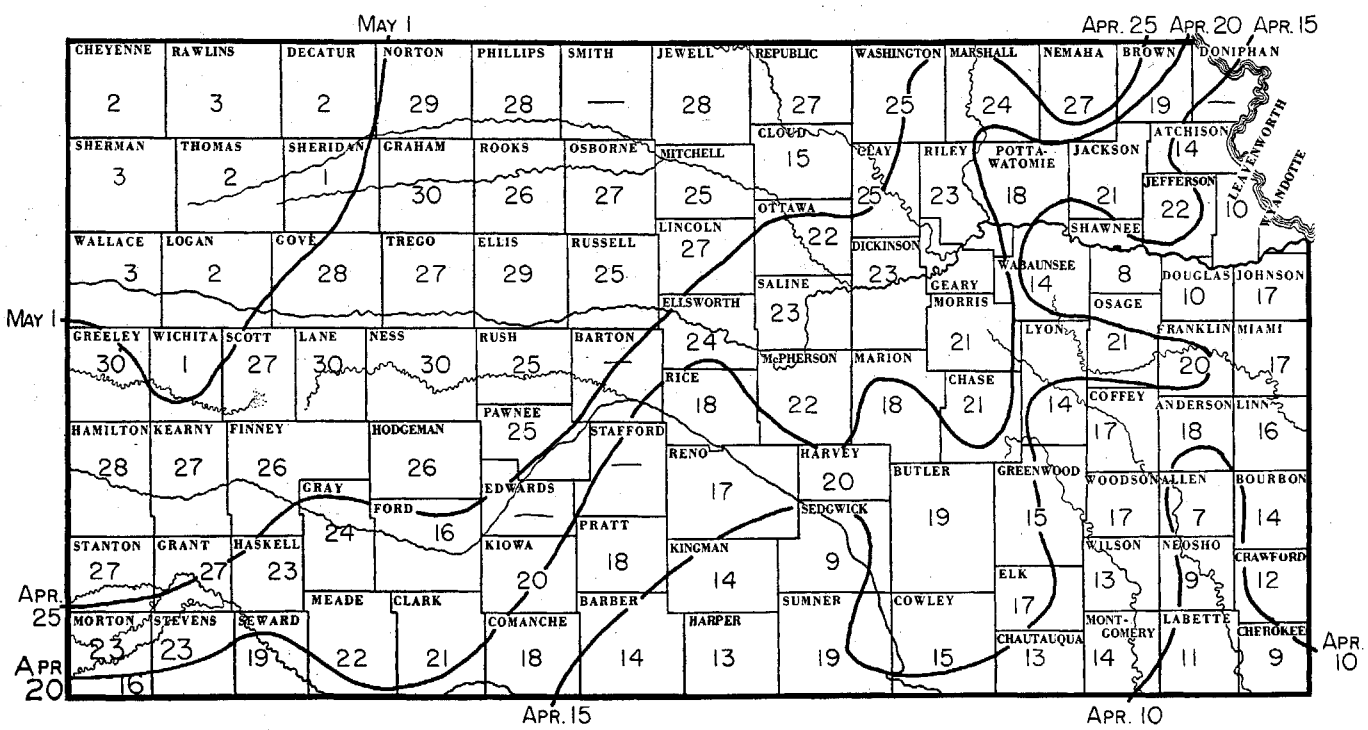


FIG. 8.—Average date on which the last killing frost in the spring occurs.

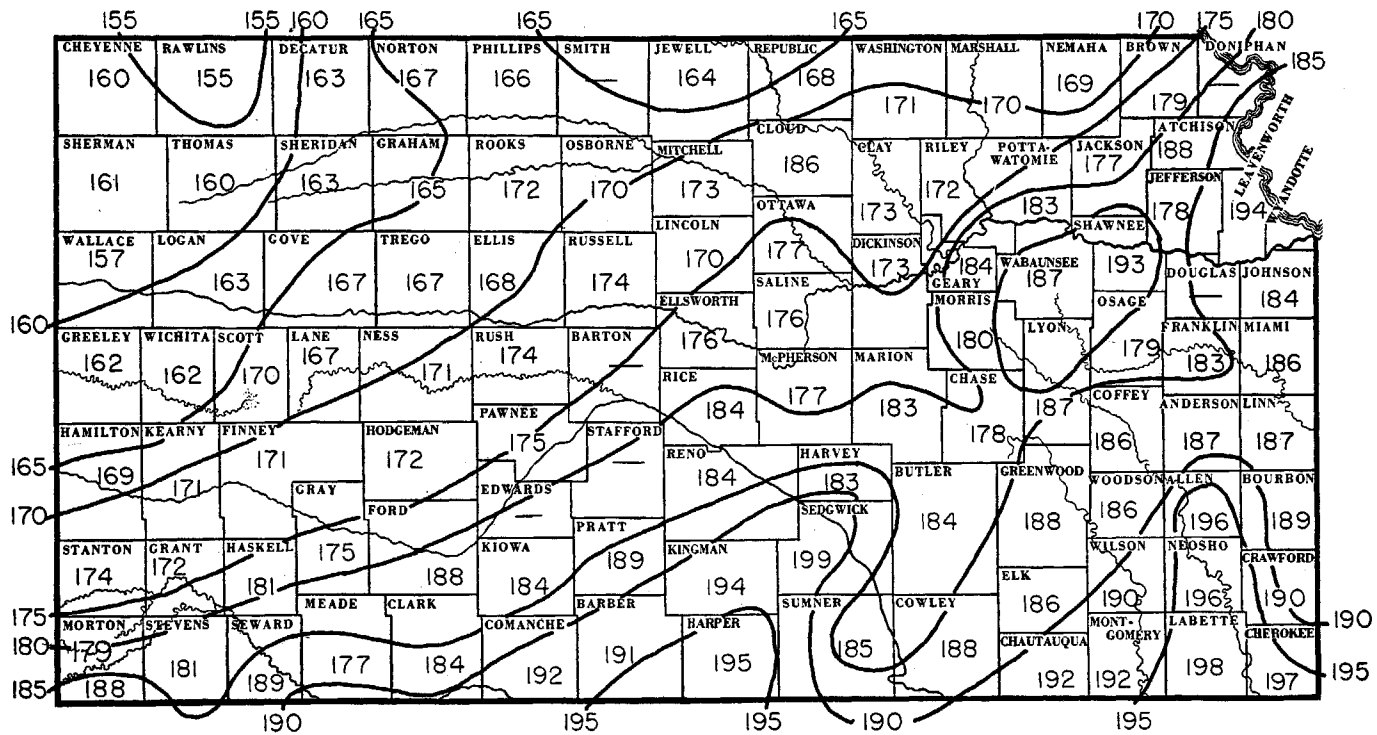


Fig. 9.—Average length of the growing season in Kansas in days.

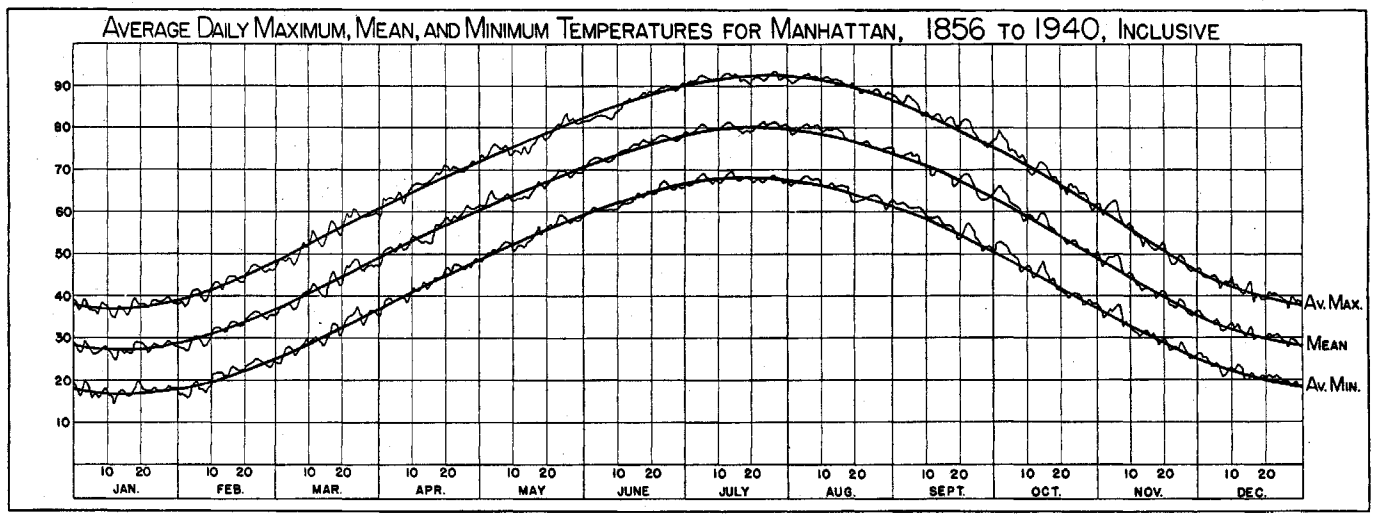


FIG. 10.—Average daily maximum, mean and minimum temperatures for Manhattan, 1856 to 1940, inclusive

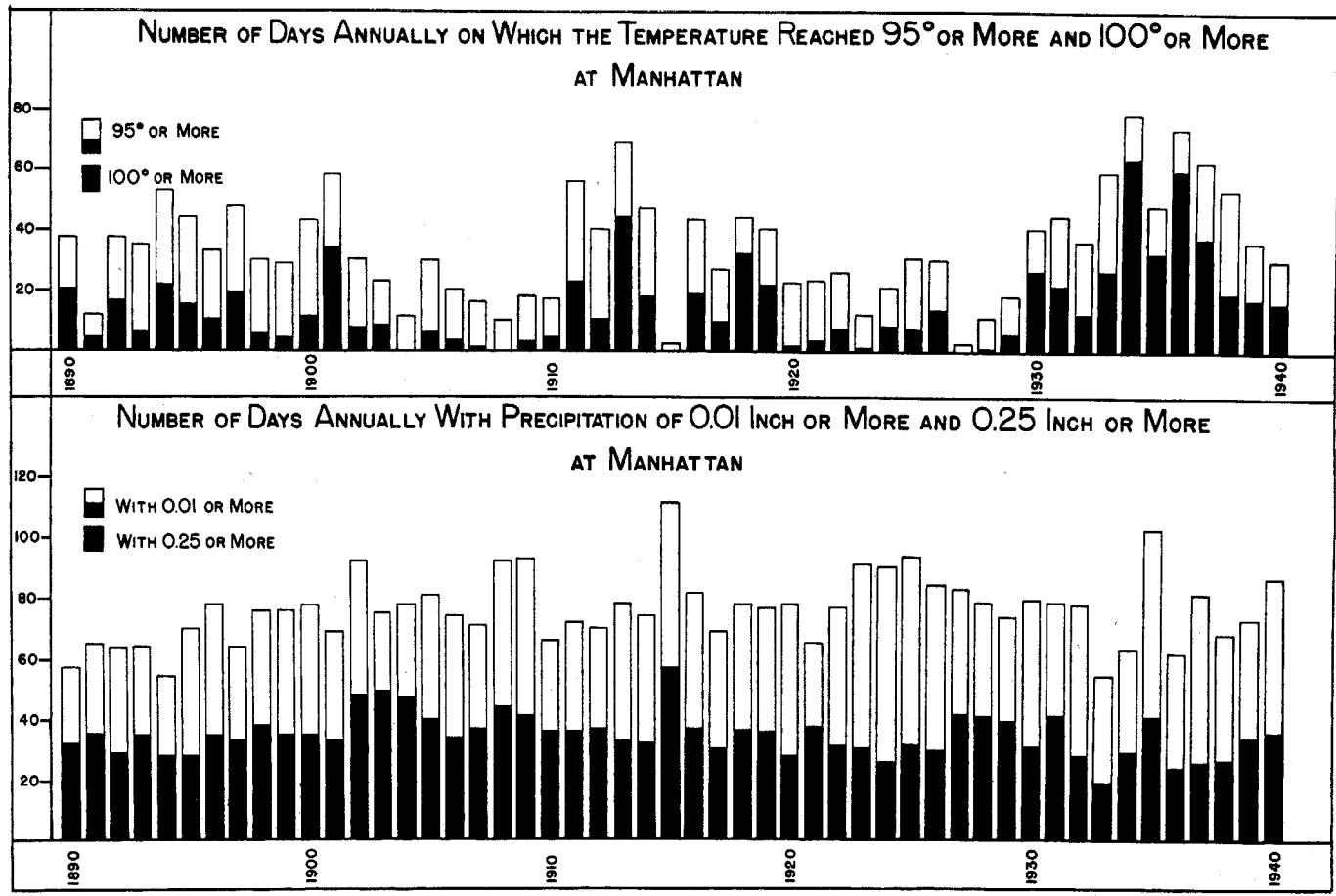


Fig. 11.—Number of days annually on which the temperature reached 95° or more and 100° or more and number of days annually with precipitation of 0.01 inch or more and 0.25 inch or more at Manhattan.

TABLE 1. Mean temperature, by months and years, for Kansas

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	26.0	30.0	45.8	56.9	69.5	76.2	80.1	75.3	68.7	54.6	41.5	28.3	54.4
1888	20.9	36.6	37.2	56.7	61.7	74.6	81.2	76.3	67.9	55.6	38.1	35.9	53.6
1889	27.6	27.4	43.0	55.3	62.9	71.2	76.9	76.1	65.9	55.4	37.5	43.9	53.6
1890	27.3	32.9	40.9	55.2	64.4	77.6	83.1	76.1	65.4	55.0	43.4	36.3	54.8
1891	30.4	29.8	34.7	56.3	62.1	70.7	74.0	75.1	70.6	54.8	39.9	37.0	52.9
1892	26.4	35.3	38.1	52.6	58.5	73.4	77.5	76.5	69.8	54.9	40.5	27.2	52.6
1893	29.3	29.2	40.8	54.2	61.5	74.7	79.5	73.8	70.5	55.1	39.9	36.4	53.7
1894	28.5	25.3	45.8	57.3	65.2	74.2	77.8	78.0	68.5	57.9	43.1	34.7	54.7
1895	25.3	24.8	42.2	58.6	65.8	71.7	74.9	76.0	72.7	52.3	40.9	33.4	53.2
1896	34.2	37.9	39.2	60.6	69.3	74.1	78.1	78.7	65.8	54.2	37.7	39.6	55.8
1897	28.4	33.5	42.5	53.6	64.1	76.6	80.2	76.0	74.0	60.9	42.2	29.0	55.1
1898	31.9	36.9	42.8	53.7	62.9	75.0	77.7	78.2	69.4	53.8	39.7	27.8	54.2
1899	30.1	19.6	37.3	54.2	67.4	73.9	76.2	80.6	68.8	61.8	48.4	31.4	54.1
1900	35.2	27.9	42.5	55.8	65.5	74.9	77.9	81.0	70.4	61.5	41.9	35.2	55.8
1901	32.6	28.0	42.3	52.9	63.1	77.3	85.0	79.1	69.1	60.0	44.9	30.6	55.4
1902	30.2	26.9	45.7	55.0	68.4	70.9	76.8	78.2	63.8	58.8	46.4	28.4	54.1
1903	32.2	27.4	43.5	56.2	62.4	67.2	78.3	75.3	66.8	57.2	41.8	33.8	53.4
1904	29.3	32.6	46.9	50.9	62.4	70.4	75.6	74.6	70.2	59.0	46.2	31.7	54.2
1905	21.8	21.1	50.3	53.2	63.1	75.5	74.5	78.7	71.4	54.0	45.9	33.0	53.5
1906	35.2	35.8	33.1	58.6	65.0	71.8	73.8	76.3	70.4	54.6	41.4	37.4	54.4
1907	31.2	35.5	52.5	48.7	55.3	72.0	78.4	78.1	69.7	57.3	42.6	34.7	54.9
1908	35.5	36.5	48.3	56.1	63.8	72.1	75.8	76.2	70.3	55.1	44.3	35.9	55.8
1909	29.8	36.6	42.1	53.0	62.2	73.1	78.1	80.1	69.9	56.5	48.8	22.8	54.4
1910	30.4	30.0	56.1	57.2	60.0	72.2	79.5	75.7	70.3	59.9	44.4	33.0	55.7
1911	34.1	35.9	47.8	54.4	66.7	80.5	78.6	76.4	74.6	54.9	38.7	31.1	56.1
1912	19.1	31.1	32.1	54.5	66.8	69.3	79.9	77.4	66.2	57.8	45.4	34.9	52.9
1913	29.7	26.5	39.9	56.9	66.7	74.2	82.1	84.2	67.8	54.0	49.4	34.4	55.5
1914	37.8	30.2	43.9	54.7	64.3	78.2	79.9	78.2	72.1	58.3	48.3	23.6	55.8
1915	29.4	38.0	33.0	59.0	60.3	69.2	74.0	70.1	69.2	59.0	48.2	34.7	53.7
1916	25.4	32.3	47.8	50.6	64.2	70.3	81.2	79.6	67.8	57.4	44.0	28.5	54.1
1917	31.5	31.9	43.8	52.1	57.5	72.8	80.8	73.4	69.1	51.0	47.6	26.4	53.2
1918	19.4	35.9	49.8	48.6	67.6	78.4	78.3	82.3	63.8	60.3	42.8	35.6	55.3
1919	30.2	32.5	44.1	53.2	61.3	72.3	80.2	78.3	72.5	54.7	39.8	27.6	53.9
1920	31.6	35.8	45.7	49.0	63.2	72.8	77.6	72.9	70.1	60.5	40.1	34.5	54.5
1921	36.9	40.2	50.0	54.9	65.5	74.4	79.2	78.6	73.7	59.9	43.8	34.5	57.6
1922	28.5	33.8	43.3	54.9	64.6	75.2	77.0	80.1	73.1	59.3	45.6	34.4	55.8
1923	38.5	31.5	40.8	54.3	61.3	73.0	78.7	78.2	69.6	51.7	46.2	35.8	54.9
1924	26.2	35.7	35.4	55.0	58.1	74.1	75.6	78.8	65.6	60.9	45.7	24.5	53.0
1925	25.5	39.9	48.6	59.8	62.9	77.6	79.8	77.2	72.7	47.9	42.5	33.2	55.6
1926	32.7	41.1	41.4	49.6	66.3	72.7	78.8	79.4	69.2	58.6	40.3	31.8	55.2
1927	32.1	38.5	43.2	57.2	65.5	71.2	77.2	71.8	69.9	60.6	44.8	27.6	55.0
1928	34.7	36.8	46.7	51.6	64.9	67.3	77.5	76.9	67.7	59.0	43.3	35.8	53.2
1929	24.7	25.0	46.9	56.5	61.2	72.1	78.9	78.9	67.2	57.2	35.7	34.7	53.2
1930	17.9	46.3	42.3	59.1	62.6	72.7	81.4	79.7	70.8	55.0	45.0	33.6	55.5
1931	36.4	41.7	39.1	53.1	60.5	77.8	80.4	76.0	77.5	61.7	46.2	38.9	57.4
1932	28.7	40.4	36.9	57.5	65.6	73.4	81.6	79.3	68.5	55.2	41.0	28.1	54.7
1933	39.3	31.4	46.1	54.7	64.3	80.7	81.4	76.7	74.3	57.8	47.2	39.6	57.8
1934	36.3	36.0	44.1	57.1	69.6	80.5	87.2	83.6	65.2	62.3	47.3	33.1	58.5
1935	35.0	38.8	51.0	52.3	59.0	71.0	84.3	80.4	69.1	56.1	40.2	33.8	55.9
1936	26.3	22.2	48.5	54.5	67.7	77.3	85.7	85.3	72.5	55.2	43.1	37.7	56.3
1937	21.3	32.7	40.0	54.3	66.7	74.3	81.7	83.5	71.3	57.2	41.0	31.8	54.6
1938	34.6	37.7	51.0	55.0	63.5	73.8	80.9	82.9	72.3	64.8	42.6	36.2	57.9
1939	38.3	30.4	45.5	54.5	68.5	75.3	83.4	78.1	75.5	61.1	44.3	39.0	57.8
1940	15.2	33.8	44.7	54.3	63.9	74.3	81.8	76.3	70.5	63.5	40.4	36.5	54.6
Average	29.8	33.0	43.5	54.7	63.9	73.9	79.2	77.9	69.8	57.3	43.2	33.1	54.9

TABLE 2. Precipitation, by months and years, for Kansas

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	0.26	0.81	0.43	3.08	2.43	3.58	2.02	4.76	2.98	1.68	0.48	0.86	23.37
1888	.44	.98	1.84	2.89	3.24	3.51	2.64	4.39	1.74	1.54	.70	.52	23.43
1889	1.19	.73	1.63	3.14	5.49	3.98	4.65	2.84	1.90	2.37	1.43	.06	29.44
1890	1.49	.43	.28	2.96	2.15	2.70	1.30	4.16	1.99	1.77	1.43	.52	21.16
1891	1.51	.96	2.88	2.38	4.78	6.28	4.56	1.27	2.49	2.13	.42	1.48	31.14
1892	.65	2.77	3.40	1.72	6.86	1.87	3.34	3.43	1.03	1.95	.51	1.49	29.02
1893	.11	.57	.95	1.51	3.04	3.91	3.52	2.69	2.50	.29	.78	.38	20.25
1894	.75	1.20	.91	2.37	2.20	4.94	1.62	.67	3.62	1.21	.33	.90	20.72
1895	.57	1.22	.85	1.29	2.57	5.01	5.51	5.20	1.72	.70	1.43	2.01	28.08
1896	.71	.27	.79	3.84	4.49	4.22	4.61	2.69	2.99	2.79	.23	.40	28.72
1897	1.10	1.19	1.97	3.69	2.04	3.64	3.13	3.06	1.35	2.49	.23	.56	24.45
1898	1.84	1.06	1.52	3.10	6.28	4.40	3.00	2.46	3.85	1.74	1.03	1.63	31.79
1899	.72	1.62	1.77	1.41	3.39	5.37	5.38	1.93	1.87	1.63	1.40	1.15	26.26
1900	.20	1.66	.79	4.17	3.18	3.59	3.31	2.09	5.74	2.42	.48	.33	27.96
1901	.39	1.19	1.66	3.62	1.62	2.28	1.84	2.65	3.09	1.84	.59	.58	21.35
1902	.81	.72	1.82	1.13	6.42	5.80	4.20	5.48	3.44	2.20	1.39	1.01	34.42
1903	.29	2.17	1.31	2.86	7.93	2.38	3.02	4.85	1.96	3.29	.92	.37	31.35
1904	.43	.10	1.28	3.33	5.43	6.57	5.97	3.29	2.57	1.24	.14	.66	31.01
1905	.85	.92	2.14	2.68	4.42	3.75	5.45	1.77	4.59	1.64	2.38	.14	30.77
1906	.66	.71	1.55	3.03	2.49	3.67	4.61	3.81	3.67	1.99	1.74	.65	28.58
1907	2.04	.73	1.04	1.34	2.37	4.83	3.77	3.23	2.02	2.90	.74	1.45	26.46
1908	.20	1.76	.71	1.86	5.07	7.91	3.43	3.85	1.57	3.28	2.52	.14	32.30
1909	.46	.72	1.81	1.26	3.66	5.46	5.43	1.21	3.06	1.70	5.00	1.38	31.15
1910	.91	.46	.07	1.15	4.83	1.88	2.01	4.37	2.86	.55	.08	.50	19.67
1911	.23	3.81	.40	1.83	2.66	.64	3.99	3.59	3.05	1.37	.83	2.13	24.53
1912	.14	2.06	2.68	2.58	2.87	4.02	2.56	4.29	2.48	2.16	.53	.32	26.69
1913	.45	1.69	.91	1.90	2.90	2.45	1.32	.47	3.81	1.95	1.65	3.52	23.02
1914	.15	1.14	1.09	1.76	3.39	3.96	2.66	3.27	2.66	2.15	.12	.73	23.08
1915	1.18	2.62	1.68	3.73	6.85	6.46	5.90	4.63	4.45	1.53	.52	1.22	40.77
1916	2.00	.23	1.11	2.53	3.32	6.01	.78	2.07	2.20	1.63	1.34	.62	23.84
1917	.32	.04	.90	2.91	3.50	2.11	1.53	4.86	2.36	.46	.38	.23	19.60
1918	.67	.79	1.75	3.05	4.13	1.31	2.59	2.27	2.73	3.82	1.72	2.77	27.60
1919	.07	1.82	1.83	3.85	2.97	4.36	1.91	1.81	2.73	2.09	1.97	.19	25.65
1920	.27	.33	1.48	2.71	3.07	2.93	3.25	4.34	3.16	2.82	1.34	.95	26.65
1921	1.06	.26	1.27	3.07	2.61	5.00	3.13	3.34	3.28	.62	.07	.48	24.19
1922	.39	1.09	3.82	4.86	3.97	2.33	4.89	1.51	2.04	1.27	2.77	.07	29.01
1923	.13	.19	1.54	2.49	5.75	6.10	3.15	2.42	4.21	4.32	.91	.67	31.88
1924	.39	.82	2.56	2.22	2.12	2.17	3.69	4.09	2.65	1.27	.72	1.53	24.23
1925	.38	.40	.85	3.52	2.16	4.03	3.15	3.18	4.13	1.64	1.47	.27	25.08
1926	.80	.78	1.63	1.39	2.20	2.69	2.51	2.84	4.81	2.83	1.42	.90	24.80
1927	.41	.78	2.84	4.82	1.91	5.91	3.71	6.46	2.77	1.78	.44	.57	32.40
1928	.09	1.87	1.41	2.34	3.53	7.35	4.38	3.11	1.36	2.57	4.41	.98	33.40
1929	1.13	.83	.94	3.33	4.76	3.99	3.54	2.14	1.91	3.59	1.61	.19	27.96
1930	.93	.31	.29	2.82	4.36	3.92	1.99	2.81	3.00	3.63	2.43	.38	26.87
1931	.26	.98	2.41	2.41	2.89	2.15	2.32	3.27	2.50	1.60	4.46	.65	25.90
1932	1.33	.71	.89	2.21	2.25	5.73	3.12	2.92	2.15	.99	.32	1.14	23.76
1933	.25	.26	1.47	2.42	3.80	.87	2.80	5.21	2.25	.86	.72	1.27	22.18
1934	.43	1.15	.70	1.27	2.82	2.73	1.13	1.32	4.18	1.29	2.58	.42	20.02
1935	.61	.79	.82	1.13	7.78	5.08	.68	2.95	3.17	2.88	2.31	.27	28.47
1936	.71	.23	.14	1.17	4.88	1.26	.86	1.06	4.84	1.82	.18	1.16	18.31
1937	1.40	.68	1.65	1.00	3.15	3.27	3.14	2.06	1.90	1.43	.67	.53	20.88
1938	.45	1.16	2.06	2.41	7.56	4.08	2.90	2.53	2.19	.33	1.40	.20	27.27
1939	.78	1.22	1.72	1.96	2.35	4.59	1.40	3.50	.32	.60	.83	.81	20.08
1940	.82	.93	1.31	2.97	3.76	2.68	1.58	4.39	2.50	1.05	2.66	1.02	25.67
Average	.67	1.00	1.44	2.53	3.83	3.92	3.13	3.13	2.77	1.88	1.29	.84	26.43

TABLE 3. Snowfall, by months and years, for Kansas

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1888	3.1	1.5	3.3	0	0	.....	.....	.....	0	0.2	4.0	1.8	13.9
1889	1.5	4.8	0.2	0.1	0	.....	.....	.....	0	0.5	2.5	0	9.6
1890	7.3	3.0	1.5	1.2	0	.....	.....	.....	0	0	2.0	0.8	15.8
1891	0.3	2.1	13.9	1.4	0	.....	.....	.....	0	0	0.4	2.4	20.5
1892	3.6	3.3	7.5	0.3	T*	.....	.....	.....	0	0	0.9	1.6	17.2
1893	0.7	3.2	1.5	T	0	.....	.....	.....	0	0	0.4	1.6	7.6
1894	1.1	10.7	0.4	0	0	.....	.....	.....	0	0	0.1	4.6	16.9
1895	5.2	1.3	1.9	0.2	0	.....	.....	.....	T	0	1.5	4.3	16.2
1896	1.6	0.9	3.8	T	0	.....	.....	.....	0	0.5	0.1	T	6.9
1897	5.9	8.6	4.7	0.1	0	.....	.....	.....	0	0.1	0.2	5.5	25.1
1898	8.8	0.6	0.5	0	0	.....	.....	.....	0.1	2.0	4.7	5.5	22.2
1899	2.7	3.5	7.9	0.8	0	.....	.....	.....	0	T	T	4.6	19.5
1900	0.1	12.9	0.7	2.4	0	.....	.....	.....	T	0	0.9	0.9	17.9
1901	1.6	8.7	4.9	5.6	0	.....	.....	.....	0	T	T	2.1	22.9
1902	7.7	5.9	1.0	T	0	.....	.....	.....	0	0	0.1	5.1	19.8
1903	2.4	12.0	1.6	2.1	0	.....	.....	.....	0	0	0.6	0.8	19.5
1904	1.0	0.2	0.6	0.7	T	.....	.....	.....	0	T	0.4	6.7	8.6
1905	7.1	9.0	0.2	0.7	T	.....	.....	.....	0	0	0.8	0.8	21.0
1906	3.7	0.9	3.3	T	0	.....	.....	.....	0	3.2	1.5	0.1	17.7
1907	1.3	1.9	1.1	2.1	0.9	.....	.....	.....	T	0.2	6.0	6.0	13.4
1908	0.3	3.8	0.1	T	0	.....	.....	.....	0	0.1	2.1	0.2	6.8
1909	3.7	2.6	5.3	0.5	T	.....	.....	.....	0	0.3	1.4	6.6	20.1
1910	3.8	2.3	0.1	T	T	.....	.....	.....	0	T	0.1	1.9	8.2
1911	0.4	6.8	0.2	T	T	.....	.....	.....	0	1.0	1.9	8.0	18.3
1912	1.6	13.6	16.4	0.2	T	.....	.....	.....	T	0.3	0.6	0.2	33.4
1913	3.5	11.9	2.4	0.5	0	.....	.....	.....	0	T	T	3.8	23.1
1914	0.6	7.0	1.2	0.1	0	.....	.....	.....	0	T	T	5.9	14.8
1915	4.8	6.8	12.2	T	0.2	.....	.....	.....	0	0	0.1	3.3	27.4
1916	4.5	2.2	3.1	3.9	0	.....	.....	.....	0	0.9	0.5	4.0	19.1
1917	2.3	0.3	2.1	0.6	0.1	.....	.....	.....	0	0.6	T	2.7	8.7
1918	7.5	2.7	0.1	1.2	0	.....	.....	.....	0	0.4	2.4	11.2	25.5
1919	0.8	8.4	1.6	3.4	0	.....	.....	.....	T	0	3.5	1.5	19.2
1920	2.3	0.6	0.7	5.6	T	.....	.....	.....	0	T	0.9	1.4	11.5
1921	2.5	2.1	0.5	1.1	T	.....	.....	.....	0	T	0.2	3.7	10.1
1922	1.1	4.5	6.1	0.7	0	.....	.....	.....	0	T	0.4	T	12.8
1923	0.2	1.0	3.0	0.2	T	.....	.....	.....	0	T	2.6	2.3	9.3
1924	3.3	5.4	20.3	0.1	T	.....	.....	.....	0	T	0.4	8.1	37.6
1925	3.9	0.9	1.0	0	0	.....	.....	.....	0	1.0	3.0	1.5	11.3
1926	3.0	3.9	6.7	4.1	0	.....	.....	.....	0	T	0.8	2.5	21.0
1927	2.5	4.5	3.7	0.1	T	.....	T	.....	T	0	1.3	2.3	14.4
1928	0.5	2.2	4.3	1.0	0	.....	.....	.....	0	0.6	1.9	2.4	12.9
1929	4.6	6.5	0.1	T	T	.....	.....	.....	T	0.1	7.2	0.9	19.4
1930	8.4	0.5	0.4	T	0.1	.....	.....	.....	0	T	1.0	1.9	12.3
1931	0.2	0.7	9.6	0.4	0.3	.....	.....	.....	0	T	3.9	1.5	16.6
1932	7.9	3.2	5.1	0.2	0	.....	.....	.....	0	T	1.1	3.4	20.9
1933	0.1	2.2	2.0	0.2	T	.....	.....	.....	0	0	0.3	T	4.8
1934	1.4	3.2	2.2	0.1	T	.....	.....	.....	0	0	2.4	2.2	16.5
1935	0.2	0.9	1.1	T	0	.....	.....	.....	0.1	T	1.1	1.1	4.5
1936	5.4	1.8	0.3	1.0	0	.....	.....	.....	T	0.3	0.1	2.1	11.0
1937	2.4	6.0	4.5	0.4	0	.....	.....	.....	0	T	4.0	1.5	18.8
1938	0.1	5.0	0.1	5.4	0.3	.....	.....	.....	0	T	0.9	0.8	12.6
1939	3.4	10.8	3.6	0.5	0	.....	.....	.....	0	T	0.1	6.5	24.9
1940	10.3	5.8	2.7	1.0	0	.....	.....	.....	0	0	2.9	5.0	27.7
Average	3.1	4.5	3.6	1.0	T	T	.....	.....	T	0.3	1.4	2.9	16.8

* T. = less than 0.01 inch moisture.

TABLE 4. Frost data and average length of growing season at different stations

STATION	Length of record, years	Average date of killing frost		Length of growing season, days		
		Last in spring	First in fall	Average	Longest	Shortest
Eastern Division:						
Atchison	40	April 14	October 19	188	221	151
Burlington	41	April 17	October 20	186	221	151
Centralia	29	April 27	October 13	169	198	138
Chanute	33	April 9	October 22	196	221	164
Columbus	47	April 9	October 23	197	231	161
Cottonwood Falls	35	April 21	October 16	178	221	139
Council Grove	31	April 21	October 18	180	208	142
Emporia	48	April 14	October 18	187	224	139
Esckridge	33	April 14	October 18	187	221	149
Eureka	36	April 15	October 20	188	221	143
Fort Scott	41	April 14	October 20	189	221	152
Fredonia	36	April 13	October 20	190	221	154
Garnett	19	April 18	October 22	187	227	154
Holt	15	April 21	October 15	177	198	151
Horton	51	April 19	October 15	179	198	150
Howard	14	April 17	October 20	186	227	141
Independence	64	April 14	October 23	192	239	164
Iola	35	April 7	October 20	196	225	163
Junction City	12	April 18	October 19	184	207	161
Lawrence	38	April 10	October 23	196	221	164
Leavenworth	34	April 10	October 21	194	217	170
Lebo	37	April 17	October 19	185	221	152
Manhattan	77	April 23	October 12	172	208	137
Oketo	32	April 24	October 11	170	197	149
Olathe	38	April 17	October 18	184	221	149
Osage City	37	April 21	October 17	179	221	138
Oswego	27	April 11	October 26	198	227	152
Ottawa	45	April 18	October 18	183	209	149
Paola	12	April 17	October 20	186	203	162
Parsons	15	April 7	October 28	204	215	193
Pleasanton	20	April 16	October 19	186	208	151
Pomona	12	April 20	October 23	186	199	161
Quenemo	10	April 24	October 13	172	190	142
Sedan	42	April 13	October 22	192	239	161
Topeka	53	April 8	October 16	193	233	132
Toronto	39	April 17	October 19	186	221	151
Valley Falls	42	April 22	October 17	178	209	150
Walnut	16	April 12	October 19	190	227	164
Wamego	35	April 18	October 18	183	207	151
Kansas City, Mo.	52	April 7	October 26	202	232	162
St. Joseph, Mo.	31	April 10	October 19	192	229	156
Middle Division:						
Alden	27	April 18	October 19	184	223	148
Alton	34	April 27	October 14	170	198	128
Anthony	34	April 13	October 25	195	225	154
Belleville	33	April 27	October 12	168	208	128
Beloit	20	April 25	October 15	173	194	128
Bison	35	April 25	October 16	174	207	140
Burr Oak	40	April 28	October 9	164	200	139
Chapman	35	April 25	October 15	173	198	139
Clay Center	38	April 25	October 15	173	197	139
Coldwater	32	April 18	October 27	192	224	157
Concordia	56	April 15	October 18	186	220	134
El Dorado	37	April 19	October 20	184	220	153
Ellsworth	36	April 24	October 17	176	208	141
Florence	10	April 15	October 27	195	209	179

TABLE 4. (CONCLUDED)

STATION	Length of record, years	Average date of killing frost		Length of growing season, days		
		Last in spring	First in fall	Average	Longest	Shortest
Middle Div.—Concluded						
Greensburg	34	April 20	October 21	184	224	151
Hanover	38	April 25	October 13	171	208	139
Hays	45	April 29	October 14	168	198	114
Herington	16	April 23	October 21	181	201	138
Hutchinson	49	April 17	October 18	184	223	145
Larned	37	April 25	October 17	175	206	143
Lincoln	26	April 27	October 14	170	195	128
McPherson	41	April 22	October 16	177	220	145
Marion	28	April 18	October 18	183	209	152
Medicine Lodge	40	April 14	October 22	191	223	154
Minneapolis	41	April 22	October 16	177	208	139
Newton	34	April 20	October 20	183	212	156
Norwich	41	April 14	October 25	194	225	152
Phillipsburg	45	April 28	October 11	166	198	126
Plainville	29	April 26	October 15	172	198	128
Pratt	38	April 18	October 24	189	224	150
Russell	35	April 25	October 16	174	202	143
Salina	47	April 23	October 16	176	208	141
Wellington	30	April 19	October 21	185	209	138
Wichita	52	April 9	October 25	199	229	163
Winfield	44	April 15	October 20	188	210	141
Western Division:						
Ashland	33	April 21	October 22	184	223	153
Atwood	37	May 3	October 5	155	182	114
Cimarron	31	April 24	October 16	175	198	154
Colby	48	May 2	October 9	160	194	132
Dodge City	66	April 16	October 21	188	238	149
Dresden	45	April 28	October 7	162	187	133
Elkhart	12	April 16	October 21	188	210	173
Garden City	47	April 26	October 14	171	199	124
Goodland	28	May 3	October 11	161	190	135
Healy	38	April 30	October 14	167	199	132
Hill City	28	April 30	October 12	165	196	128
Hoxie	37	May 1	October 11	163	199	132
Hugoton	15	April 23	October 21	181	204	148
Jetmore	37	April 26	October 15	172	195	113
Johnson	24	April 28	October 19	174	204	156
Lakin	40	April 27	October 15	171	194	134
Leoti	30	May 1	October 10	162	186	136
Liberal	32	April 19	October 25	189	223	154
Ness City	11	April 30	October 18	171	202	117
Norton	37	April 29	October 13	167	198	128
Oakley	26	May 2	October 12	163	190	132
Oberlin	31	May 2	October 9	163	180	128
Plains	15	April 22	October 16	177	202	142
Quinter	35	April 28	October 12	167	204	133
Richfield	38	April 23	October 19	179	204	135
St. Francis	32	May 2	October 9	160	194	132
Scott City	34	April 27	October 14	170	199	132
Sharon Springs	22	May 3	October 7	157	180	122
Sublette	22	April 23	October 21	181	208	156
Syracuse	25	April 27	October 13	169	191	117
Tribune	33	April 30	October 9	162	189	132
Ulysses	40	April 27	October 16	172	199	137
Wakeeney	38	April 27	October 11	167	201	118

TABLE 5. Mean temperature, by months and years, for Eastern Division

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	24.6	32.4	45.2	58.3	69.5	76.2	80.1	76.5	68.7	54.2	43.7	29.1	55.5
1888	21.7	34.4	39.2	57.7	62.6	75.1	80.5	75.6	65.9	53.8	39.6	35.4	53.4
1889	29.8	27.2	43.3	55.8	62.7	71.0	76.2	73.9	64.0	54.6	37.9	45.0	53.4
1890	28.7	33.5	39.5	57.1	63.9	77.2	82.1	75.6	64.3	55.7	44.5	36.5	54.9
1891	32.2	30.5	36.0	57.7	62.1	72.0	73.8	74.9	71.6	56.3	40.3	39.0	53.9
1892	25.5	37.1	39.0	53.1	60.3	74.7	77.2	76.5	69.7	57.9	41.5	27.6	53.3
1893	24.6	28.4	41.6	55.4	62.1	73.6	79.1	74.1	71.5	57.7	40.8	37.0	53.8
1894	30.1	27.9	41.5	58.2	65.6	74.9	77.2	78.9	69.4	43.1	37.0	55.2	55.2
1895	25.3	25.3	43.2	59.7	66.7	74.2	75.8	76.1	73.3	53.2	42.0	33.4	54.0
1896	33.0	37.6	40.1	62.4	70.1	73.6	78.3	78.4	66.1	55.2	40.6	39.7	56.3
1897	28.5	33.9	43.4	55.1	64.5	75.5	80.1	76.0	75.2	63.3	43.6	28.2	55.6
1898	33.7	36.5	44.3	53.6	64.6	76.0	77.2	77.1	71.3	54.1	40.1	28.0	54.4
1899	30.4	19.7	37.1	54.1	67.6	74.2	76.3	80.1	68.1	63.5	49.5	30.8	54.3
1900	35.0	28.4	42.1	57.7	66.5	74.7	77.3	80.5	71.2	62.4	42.5	35.7	56.0
1901	34.0	28.6	43.2	53.5	63.9	77.7	85.9	79.1	69.2	61.5	45.2	29.8	56.0
1902	30.5	24.3	46.3	54.6	69.6	71.0	77.0	77.4	63.1	59.7	48.7	29.8	54.3
1903	32.0	28.9	45.6	56.0	63.8	68.1	78.2	74.8	66.9	57.4	41.7	32.9	53.9
1904	29.2	32.2	46.8	50.5	62.9	71.2	75.5	74.5	70.9	59.4	47.1	32.5	54.4
1905	21.6	20.9	51.5	55.3	64.7	76.1	74.5	78.6	71.2	54.8	46.4	33.2	54.1
1906	35.0	35.6	33.8	60.2	66.4	72.7	74.5	76.6	72.2	56.2	41.9	37.4	55.2
1907	33.0	34.9	53.9	49.3	58.5	72.1	78.4	78.3	69.4	57.5	43.7	36.8	55.5
1908	35.2	36.7	49.4	56.4	64.5	72.0	75.8	76.7	70.4	55.7	46.0	36.9	56.3
1909	31.2	36.8	42.9	53.8	62.8	73.3	77.9	79.7	70.5	56.4	51.1	23.7	55.0
1910	31.2	29.4	57.0	57.3	60.2	71.3	79.2	75.9	70.1	60.2	44.4	32.0	55.7
1911	33.9	37.7	47.5	54.5	68.1	80.8	79.0	76.7	74.6	56.3	39.3	34.9	56.9
1912	19.4	29.5	33.6	55.3	68.0	69.7	80.2	78.5	67.6	59.1	46.0	35.8	53.6
1913	30.5	27.7	39.9	57.3	66.6	75.0	82.4	85.3	69.6	55.0	51.7	36.9	56.5
1914	37.4	29.5	44.7	55.3	65.7	79.2	80.5	78.5	71.8	59.2	49.5	25.0	56.4
1915	29.4	38.8	34.5	60.3	62.1	70.3	74.5	78.3	70.4	60.0	49.7	35.8	54.7
1916	27.2	31.2	47.3	51.0	65.3	70.8	81.4	80.6	68.5	58.6	46.2	29.7	54.8
1917	32.4	31.2	45.5	53.2	58.4	72.6	80.6	73.5	69.0	51.1	47.6	25.4	53.4
1918	18.0	35.0	50.8	50.7	69.0	79.3	78.7	84.3	63.7	61.5	44.7	37.8	56.1
1919	32.4	34.9	45.8	54.8	62.9	74.1	80.8	77.9	72.6	56.8	41.8	26.9	55.1
1920	30.3	35.7	46.5	50.2	64.7	73.2	77.0	73.2	70.8	61.2	40.9	36.1	55.0
1921	37.3	40.8	51.4	56.0	66.7	75.9	80.0	78.5	74.4	60.2	44.8	35.9	58.5
1922	29.4	35.2	45.0	56.5	66.1	75.9	76.7	79.3	72.6	60.0	47.2	35.1	56.6
1923	39.5	31.4	41.7	55.2	62.7	74.2	79.0	79.6	70.8	50.6	45.7	38.3	55.7
1924	25.9	35.4	37.9	56.5	59.3	74.1	74.8	78.5	65.4	62.2	47.0	26.6	53.6
1925	26.7	39.3	48.8	61.2	62.3	77.0	78.3	78.0	74.6	48.6	43.5	32.8	56.0
1926	32.9	40.9	41.9	60.3	67.9	72.6	78.9	79.4	69.5	58.4	41.0	33.2	55.6
1927	31.6	40.1	45.1	58.8	65.3	71.5	76.9	71.7	70.4	61.5	54.9	29.0	55.4
1928	33.8	38.2	48.3	52.4	66.8	68.9	78.1	78.0	67.4	61.2	44.8	37.1	55.2
1929	24.2	25.8	48.5	57.9	61.7	72.4	78.6	78.8	68.4	59.0	38.4	34.8	54.0
1930	17.7	46.9	44.1	60.6	64.0	72.5	82.0	80.6	72.1	56.0	46.5	35.0	56.5
1931	37.3	42.1	40.5	54.8	61.4	78.0	81.1	75.8	78.1	63.0	50.2	41.7	58.7
1932	32.4	42.5	37.6	58.5	65.9	75.0	80.8	79.3	69.3	56.3	40.2	30.2	55.7
1933	41.5	32.2	46.1	56.0	65.6	80.4	80.9	76.6	74.7	57.7	48.0	39.9	58.3
1934	36.3	35.6	43.5	57.9	69.2	81.5	87.5	84.7	66.5	63.0	48.4	32.7	58.9
1935	33.7	38.4	51.8	62.8	60.4	70.6	84.4	79.9	69.2	56.7	41.7	32.9	56.0
1936	24.1	21.9	49.9	55.0	69.0	77.7	87.1	87.1	74.4	56.8	43.4	38.9	57.1
1937	23.5	31.7	40.1	54.8	66.8	77.2	80.7	82.7	71.1	57.5	40.7	31.7	54.7
1938	34.0	38.6	58.2	56.6	64.6	73.7	80.7	82.7	72.5	65.9	44.9	36.8	58.7
1939	39.3	32.0	46.0	54.5	69.1	75.3	83.8	77.7	77.1	62.7	44.6	39.6	58.6
1940	14.6	33.2	44.7	54.8	64.3	74.2	80.8	76.1	69.7	64.6	41.4	37.2	54.6
Average	30.0	33.2	44.2	55.7	64.7	74.3	79.2	78.1	70.2	58.1	44.5	33.9	55.5

TABLE 6. *Precipitation, by months and years, for Eastern Division*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	.39	1.28	1.19	2.53	2.81	4.69	1.79	4.29	3.89	2.88	0.83	1.42	27.99
1888	.76	1.33	2.71	3.13	3.50	5.44	2.53	5.69	1.14	2.47	1.73	1.21	31.64
1889	1.29	1.34	2.20	3.25	7.35	4.69	6.20	3.41	3.70	1.84	2.05	.17	37.49
1890	2.37	.57	.64	2.65	3.63	2.69	1.97	6.19	3.53	3.54	2.50	.89	31.17
1891	1.74	1.71	2.66	3.75	4.97	8.67	3.64	1.56	.99	1.28	.83	1.95	33.75
1892	1.38	4.25	4.78	3.11	8.72	2.18	4.09	3.73	1.50	3.19	.83	2.29	40.05
1893	.18	.96	2.21	3.89	5.22	5.48	3.98	2.59	3.51	4.43	1.28	.50	30.23
1894	1.64	1.54	1.87	3.01	2.72	5.85	1.83	.80	5.44	2.07	.85	1.14	28.76
1895	.72	.74	1.51	1.27	3.35	5.06	6.45	8.24	3.85	3.30	2.26	4.24	37.99
1896	.53	.56	1.04	3.78	7.53	3.44	5.75	3.82	3.91	3.51	1.50	.60	35.77
1897	1.89	1.50	3.08	3.49	2.26	5.45	3.86	2.73	1.25	1.41	.50	.64	27.56
1898	3.09	1.80	3.41	3.93	7.28	5.09	3.31	2.94	5.09	2.84	1.41	2.02	42.21
1899	.43	1.12	2.97	2.51	4.25	5.15	6.86	2.64	1.75	1.66	1.24	1.58	32.16
1900	.29	2.59	1.03	4.17	4.31	4.85	4.69	2.78	8.08	3.47	1.00	.37	37.63
1901	.60	1.54	2.44	3.65	1.73	2.40	2.49	2.72	3.54	1.94	1.11	1.15	25.31
1902	.95	1.17	2.61	1.79	7.73	7.37	5.33	8.13	4.64	2.22	2.68	1.67	46.29
1903	.49	2.05	2.41	3.00	10.23	2.65	3.90	6.82	3.61	4.74	1.18	.80	41.88
1904	1.03	.27	2.34	5.33	7.21	8.80	7.92	3.94	2.95	.99	.22	.72	41.72
1905	.98	1.43	3.60	1.85	5.68	3.55	5.99	3.03	7.92	3.10	2.37	.35	39.85
1906	1.16	1.24	1.90	2.65	3.23	5.56	4.97	4.87	3.75	.79	2.92	.96	34.00
1907	4.24	1.13	1.94	2.24	3.44	6.43	3.41	3.68	2.05	4.19	1.46	1.46	35.67
1908	.45	2.91	1.68	3.29	7.75	10.01	3.26	4.63	1.74	6.31	3.48	.31	45.82
1909	.76	1.34	2.51	2.57	5.06	5.41	8.20	1.23	4.09	1.83	5.36	2.00	40.36
1910	1.48	.84	.17	1.51	7.69	2.77	2.27	5.22	5.24	.99	.11	.99	29.28
1911	.43	5.20	.77	2.81	2.41	.69	4.53	4.02	5.20	1.82	1.31	2.65	31.89
1912	.23	1.96	4.24	3.82	4.45	4.43	2.84	3.20	3.19	3.75	.65	.60	33.16
1913	.72	2.63	1.79	1.97	4.75	2.10	1.77	.55	3.70	3.97	1.94	3.81	29.70
1914	.28	2.25	2.30	1.94	3.08	4.99	3.14	3.78	5.55	3.23	.32	1.07	31.93
1915	1.77	3.66	2.05	4.06	8.59	8.03	7.41	4.50	7.41	1.37	.74	1.11	50.70
1916	4.08	.47	2.37	3.07	5.14	7.72	.81	2.09	3.52	2.48	2.86	.83	35.44
1917	.45	.04	1.75	3.88	4.76	2.99	1.42	5.54	3.01	.80	.18	.34	25.16
1918	.88	.87	1.33	3.74	4.82	1.59	2.09	2.48	3.44	4.91	3.28	2.71	32.14
1919	.11	1.63	2.40	4.34	3.83	5.29	1.75	3.01	1.98	3.36	2.49	.24	30.43
1920	.46	.26	3.19	3.34	3.20	3.75	4.06	5.31	4.43	3.89	1.78	1.20	33.87
1921	1.53	.25	2.50	3.44	4.21	6.30	3.39	5.21	5.09	1.07	.16	.47	33.62
1922	.65	1.36	5.64	6.74	4.34	2.69	6.78	1.25	3.60	1.90	4.04	.13	39.17
1923	.36	.34	2.68	2.79	4.41	6.39	3.88	2.40	4.96	4.83	1.42	.96	35.42
1924	.68	1.23	2.17	2.19	3.05	4.21	4.74	6.27	4.52	1.46	1.49	1.98	33.99
1925	.60	.62	1.29	5.00	2.57	6.25	3.52	2.12	5.90	2.46	1.83	.46	32.62
1926	1.34	1.09	2.00	1.96	2.80	3.26	2.35	4.15	8.31	5.34	1.37	1.30	35.25
1927	.88	.79	4.41	7.40	3.34	6.91	4.71	7.41	3.90	3.81	1.00	1.20	45.76
1928	.15	2.19	1.27	3.19	2.48	8.72	4.13	4.01	2.35	2.75	7.29	1.80	40.33
1929	2.03	1.12	1.86	5.33	6.54	5.44	3.34	2.28	1.48	5.46	1.05	.35	36.33
1930	1.82	.45	.47	3.94	4.54	5.55	1.37	2.70	4.10	2.81	3.20	.61	31.56
1931	.59	1.37	2.19	2.93	4.03	2.46	3.27	3.99	4.52	2.36	8.08	1.09	36.88
1932	1.43	.88	1.07	2.73	2.90	5.98	4.37	3.51	2.79	1.37	.68	2.31	30.02
1933	.60	.44	2.56	3.10	5.21	.98	3.73	5.26	3.52	1.57	.69	1.58	29.24
1934	.58	.93	.81	2.17	4.21	2.54	1.74	1.31	6.97	1.91	4.84	.68	28.69
1935	1.15	1.24	1.10	2.13	10.22	7.30	.47	4.55	4.18	4.96	3.86	.43	41.59
1936	1.13	.45	.24	1.69	4.90	1.30	.83	.92	7.38	2.44	.49	1.86	23.63
1937	2.33	.95	2.59	2.04	4.06	3.59	3.97	2.43	2.38	1.49	1.26	.92	28.01
1938	1.17	1.48	3.19	2.32	9.75	5.43	3.53	3.34	2.24	2.49	2.45	.31	35.75
1939	.99	1.38	1.99	3.17	3.45	5.64	1.31	4.59	.50	1.05	1.68	.79	26.54
1940	1.09	1.21	1.77	4.52	3.83	3.99	1.39	6.34	2.64	1.61	3.44	1.39	33.22
Average	1.10	1.37	2.16	3.22	4.88	4.82	3.64	3.78	3.89	2.55	1.96	1.20	34.57

KANSAS WEATHER AND CLIMATE

TABLE 7. Snowfall, by months and years, for Eastern Division

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l*
1898	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.8	24.2
1899	2.6	4.0	9.7	1.1	0	.....	.....	.....	0	0	T	4.7	22.1
1900	T	15.0	0.2	0.2	0	.....	.....	.....	T	T	0.8	0.7	17.3
1901	0.8	8.9	2.5	5.4	0	.....	.....	.....	0	T	0.1	2.3	20.4
1902	8.3	7.6	0.7	T	0	.....	.....	.....	0	0	0.1	3.2	19.9
1903	3.1	5.3	1.8	2.3	0	.....	.....	.....	0	T	1.0	1.3	16.3
1904	1.7	0.5	1.2	1.3	0	.....	.....	.....	0	0	0.1	5.5	10.7
1905	7.0	12.8	0.1	0.8	0	.....	.....	.....	0	3.4	T	1.5	23.4
1906	5.1	1.3	6.5	0	0	.....	.....	.....	0	0	5.4	0.1	18.4
1907	1.7	3.0	0.3	0.8	0.8	.....	.....	.....	0	0	T	3.1	9.4
1908	0.4	2.2	0.1	T	T	.....	.....	.....	0	3.3	0.1	T	6.6
1909	5.3	3.2	4.0	T	0	.....	.....	.....	.....	.....	.....	.....	20.3
1910	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.5
1911	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14.4
1912	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36.0
1913	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.0
1914	0.3	11.1	2.6	T	0	.....	.....	.....	0	T	T	7.2	21.8
1915	5.1	7.2	12.4	T	0	.....	.....	.....	0	0	T	4.9	29.6
1916	5.6	3.3	2.7	3.2	0	.....	.....	.....	0	0.2	0.1	3.6	18.8
1917	2.0	0.2	1.9	0.3	0	.....	.....	.....	0	0.4	T	3.7	9.4
1918	8.4	0.4	T	1.5	0	.....	.....	.....	0	T	3.1	10.9	23.6
1919	1.0	6.5	0.6	T	0	.....	.....	.....	0	0	2.2	0.7	10.8
1920	3.5	0.2	0.4	5.3	0	.....	.....	.....	0	0	T	0.9	9.8
1921	5.2	0.1	0.3	1.8	0	.....	.....	.....	0	0	0.1	3.2	10.1
1922	2.6	3.7	2.1	0	0	.....	.....	.....	0	0	T	0.1	8.2
1923	0.1	1.1	2.0	0.1	T	.....	.....	.....	0	T	5.2	0.5	8.7
1924	3.8	5.7	11.9	0	T	.....	.....	.....	0	0	0.1	5.7	27.1
1925	5.2	0.8	1.0	0	0	.....	.....	.....	0	1.1	2.1	2.0	11.9
1926	3.4	4.2	9.1	5.1	0	.....	.....	.....	0	0	0.3	0.9	22.0
1927	4.4	2.3	3.1	T	0	T	.....	.....	0	0	1.5	3.4	14.6
1928	0.6	0.6	2.6	0.2	0	.....	.....	.....	0	0	0.2	3.2	7.4
1929	6.0	6.3	0.1	T	0	.....	.....	.....	0	0	0.6	1.5	14.1
1930	14.3	0.5	T	T	0	.....	.....	.....	0	T	T	1.1	15.9
1931	0.4	T	8.0	T	0	.....	.....	.....	0	T	2.2	1.1	11.5
1932	2.1	2.6	4.6	0	0	.....	.....	.....	.....	T	2.4	4.4	15.8
1933	0.3	3.5	0.9	0.1	0	.....	.....	.....	0	0	T	T	4.9
1934	1.0	6.7	1.1	0	0	.....	.....	.....	0	0	3.6	4.3	16.8
1935	0.2	0.2	0.7	0	0	.....	.....	.....	0	0	0.7	0.7	2.6
1936	7.1	2.2	T	0.7	0	.....	.....	.....	0	T	T	1.2	11.0
1937	1.9	6.0	4.1	0.5	0	.....	.....	.....	0	0	6.4	0.5	19.4
1938	T	6.6	T	6.4	0	.....	.....	.....	0	0	0.8	T	13.4
1939	6.1	9.0	0.6	T	0	.....	.....	.....	0	0	T	4.0	20.1
1940	12.3	4.1	1.7	0.3	0	.....	.....	.....	0	0	1.0	3.5	22.6
Average	3.7	4.2	2.7	1.0	T	T	.....	.....	T	.2	1.1	2.7	16.2

* The annual divisional average has been computed from the annual snowfall by stations rather than from the monthly averages given in this table.
Monthly data not yet available from July, 1909, to December, 1913, inclusive.

TABLE 8. Mean temperature, by months and years, at Columbus, Cherokee County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1891	.....	.....	.....	.....	.....	.....	.....	75.6	75.3	61.7	45.4	43.3	.....
1892	32.2	40.2	40.0	54.7	64.2	74.8	76.9	77.4	70.1	59.4	42.5	31.0	55.3
1893	27.6	31.1	43.4	58.1	63.4	73.6	79.6	75.0	72.4	60.0	42.0	39.6	55.5
1894	32.6	30.4	49.2	58.6	65.5	75.2	76.1	76.4	69.0	59.2	44.4	36.6	56.1
1895	27.2	25.0	43.6	58.7	66.0	74.8	76.1	76.1	71.7	52.4	42.4	34.8	54.1
1896	34.2	37.8	41.4	62.7	71.0	74.0	78.2	78.0	87.6	54.4	43.5	40.4	56.9
1897	29.9	37.4	47.6	56.4	64.2	75.4	79.8	77.2	75.1	65.0	45.4	32.2	57.1
1898	37.2	39.8	46.0	54.4	66.8	76.9	77.4	76.8	71.5	55.4	41.7	30.0	56.1
1899	32.4	23.2	40.8	54.8	69.4	74.7	78.0	80.0	69.2	63.5	51.2	32.9	55.8
1900	36.8	30.0	44.4	59.2	66.8	74.8	77.0	79.6	73.0	62.2	46.2	37.9	57.3
1901	36.8	33.0	44.2	53.8	64.8	78.0	86.2	80.0	71.0	61.8	47.3	31.8	57.4
1902	31.9	27.2	47.0	55.4	70.8	72.4	77.7	78.3	63.8	59.8	51.4	33.8	55.8
1903	33.9	31.3	47.9	56.4	64.2	68.8	78.4	75.6	68.2	58.3	42.9	34.4	55.0
1904	32.2	38.2	50.2	51.6	64.0	72.0	75.4	75.0	71.8	59.5	48.2	34.9	56.1
1905	24.8	22.6	52.8	56.7	66.2	76.2	74.7	76.9	71.6	56.2	48.2	34.0	55.1
1906	35.4	36.0	37.8 ^a	61.2	66.1	72.4	74.6	76.0	73.6	55.8	44.2	40.2	56.1
1907	39.3	38.0	56.1	51.4	60.0	72.8	79.4	80.2	71.4	58.6	44.5	38.4	57.5
1908	36.8	39.0	51.5	56.4	67.0	73.6	76.4	78.4	71.6	56.2	47.2	39.0	57.8
1909	35.6	39.6	45.8	55.8	63.8	75.0	80.0	81.8	72.7	59.6	54.6	27.2	57.6
1910	35.1	31.0	56.7	56.8	62.4	72.8	79.1	77.2	72.0	60.0	46.6	35.0	57.1
1911	38.1	41.1	50.0	55.2	69.2	82.0	78.1	75.0	74.9	58.5	40.8	37.2	58.3
1912	24.5	31.0	39.0	56.2	68.2	70.6	80.0	78.8	69.4	60.0	46.2	36.5	55.0
1913	34.4	30.5	41.6	58.1	67.6	76.5	83.2	84.8	70.2	55.7	53.8	38.8	57.9
1914	39.8	33.5	46.1	56.4	66.0	81.2	81.0	78.6	72.6	60.0	50.6	29.7	58.0
1915	33.8	41.8	37.1	61.8	63.8	71.6	75.6	70.8	71.6	59.8	51.4	39.6	56.6
1916	33.4	34.8	50.2	54.0	66.5	71.8	81.5	82.2	71.2	60.8	48.6	34.4	57.4
1917	36.8	35.0	48.8	55.8	60.9	72.1	81.0	74.8	69.6	52.5	48.2	27.6	55.3
1918	19.8	38.7	53.4	53.2	68.7	81.0	80.0	84.8	64.9	63.8	46.8	40.2	57.9
1919	36.3	37.1	49.0	56.9	63.4	73.8	79.2	80.2	72.6	59.6	44.8 ^b	32.4	57.1
1920	32.4	39.4	47.8	54.3	67.4	72.6	77.2	73.2	70.6	62.2	43.3	39.2	56.6
1921	40.4	43.2	53.6	56.2	67.5	75.4	79.5	78.8	76.2	60.5	48.8	39.3	60.0
1922	32.6	40.2	46.7	58.2	66.7	75.6	76.4	78.3	73.8	61.6	49.0	39.8	58.2
1923	43.3	34.4	43.8	56.8	63.6	73.3	79.0	82.2	70.8	55.1	47.8	41.4	57.6
1924	29.1	37.8	40.4	58.0	60.1	75.5	75.0	78.6	65.8	62.7	50.2	31.2	55.4
1925	32.4	42.8	52.0	63.6	64.0	78.8	80.2	78.8	76.1	52.1	46.0	34.8	58.5
1926	35.2	43.2	42.8	51.8	68.3	72.4	77.4	78.7	70.4	60.2	42.8	36.7	56.7
1927	34.9	43.5	47.8	61.2	67.6	72.5	76.2	72.2	71.0	63.1	49.4	32.7	57.7
1928	36.7	40.0	49.1	53.8	67.3	69.0	77.4	76.8	67.8	63.6	45.7	38.8	57.2
1929	29.6	27.3	50.2	59.8	62.0	72.2	78.4	79.2	69.8	59.8	40.2	38.4	55.6
1930	21.2	46.2	45.9	61.4	64.6	72.2	79.6	79.4	72.0	56.0	46.9	36.6	56.8
1931	38.0	44.0	41.2	54.2	61.4	76.4	79.6	73.6	76.9	64.2	53.2	45.2	59.0
1932	38.9	46.8	42.6	61.1	67.2	75.5	79.6	80.2	70.8	58.6	42.6	34.2	58.2
1933	44.0	35.8	48.8	57.4	67.4	78.6	80.4	77.0	75.3	59.5	49.2	43.6	59.8
1934	39.2	38.4	44.6	58.2	68.2	82.8	87.6	85.4	67.6	63.6	50.4	35.6	60.1
1935	36.4	40.7	53.4	54.6	62.2	71.2	82.2	79.4	69.1	59.0	44.4	35.1	57.3
1936	30.0	27.8	52.0	57.1	69.1	78.5	85.5	87.8	76.6	58.4	44.0	42.0	59.1
1937	29.4	36.2	42.6	57.0	67.6	76.2	78.4	80.9	70.9	59.2	43.0	34.8	56.4
1938	36.8	43.7	56.2	59.0	66.5	74.0	79.4	83.0	74.0	67.4	47.2	38.9	60.5
1939	41.5	35.7	50.6	55.4	67.8	75.3	81.6	79.6	79.0	64.8	45.5	44.1 ^d	60.1
1940	18.8 ^f	36.7	46.9	56.0	64.0	73.7	78.4	76.2	69.8	64.2	44.4	40.2	55.8
Average	33.7	36.3	47.0	56.9	65.7	74.7	79.0	78.4	71.5	59.7	46.5	36.5	57.1

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, c represents three days, etc.

TABLE 9. *Precipitation, by months and years, at Columbus, Cherokee County*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1890								11.00	3.00	5.60	2.07	1.55	.....
1891	1.10	1.90	1.70	4.43	4.05	4.25	3.15	2.19	.41	1.47	2.96	2.01	29.62
1892	1.98	5.26	5.30	5.30	10.63	4.57	2.53	2.88	.69	5.80	1.92	4.06	49.92
1893	.36	1.19	2.39	8.51	5.85	3.35	3.24	2.42	5.99	1.00	1.42	.93	36.65
1894	3.12	1.64	3.37	2.40	4.28	6.69	3.40	2.45	9.44	1.16	1.40	1.65	41.00
1895	1.23	.13	1.97	.50	4.10	8.67	11.03	5.54	10.12	1.32	4.19	10.50	58.30
1896	.63	.98	1.40	4.21	11.41	7.84	8.50	3.25	4.35	4.31	3.14	1.14	51.16
1897	5.46	3.45	4.76	2.84	2.60	*4.27	4.10	1.83	.15	1.26	1.23	1.61	33.09
1898	4.63	.84	5.73	2.88	6.05	7.15	6.20	3.81	6.50	3.18	2.07	3.28	52.32
1899	.69	2.09	1.87	7.26	6.99	5.24	9.42	2.31	.98	4.67	2.75	1.85	46.12
1900	.85	3.50	2.38	4.24	6.27	8.21	5.17	4.13	5.58	2.33	2.03	.57	45.46
1901	1.27	1.42	4.54	2.94	2.01	4.33	1.88	3.57	2.35	2.22	2.27	2.46	31.26
1902	1.03	2.15	5.11	3.55	8.38	12.45	2.41	5.76	6.56	1.75	4.15	2.57	55.87
1903	1.15	3.29	5.87	3.80	14.47	1.90	3.14	6.62	1.23	2.69	.58	1.93	46.67
1904	1.64	.44	2.22	5.55	3.78	10.73	9.12	5.61	2.53	.30	1.15	1.52	43.64
1905	1.74	2.31	4.54	2.01	8.98	5.10	10.82	5.06	6.52	7.45	1.21	1.53	57.27
1906	2.72	1.18	3.47	2.46	6.34	5.13	5.23	3.42	3.58	1.00	2.73	1.70	39.01
1907	3.73	.79	2.32	3.78	8.03	6.26	1.33	2.68	1.04	5.27	2.08	3.35	40.66
1908	1.73	6.19	3.55	6.86	8.21	7.17	3.11	1.70	3.15	5.56	6.97	2.79	54.99
1909	1.36	2.30	2.12	4.13	6.58	3.84	4.51	.57	1.64	3.05	7.69	2.80	40.59
1910	2.33	1.67	.85	4.03	6.77	2.41	2.55	3.75	4.19	2.70	.04	.63	31.92
1911	.48	3.53	2.02	5.66	1.14	2.76	8.57	6.74	4.74	2.16	2.99	2.48	43.27
1912	.37	3.17	5.99	6.87	4.69	8.28	2.81	1.83	1.42	4.99	1.26	.40	42.08
1913	2.08	3.46	5.45	1.75	3.58	.68	.76	.58	6.98	3.93	1.06	3.43	33.74
1914	1.42	2.47	2.73	4.03	2.53	.96	4.01	4.38	6.36	2.27	.53	1.91	33.60
1915	1.99	3.42	3.70	3.70	9.12	6.63	3.80	4.13	6.04	1.73	1.12	1.94	47.32
1916	8.43	.46	4.61	4.16	3.87	10.95	.35	1.37	2.04	1.95	1.97	1.15	41.31
1917	.40	.13	1.56	3.59	4.96	3.42	1.50	5.87	3.06	.37	2.61	1.37	28.84
1918	1.45	.17	1.78	6.05	3.36	1.00	1.58	2.68	4.26	6.68	5.37	3.54	37.92
1919	.23	1.82	2.01	4.33	3.27	6.62	1.70	2.42	2.23	10.25	1.95	.76	37.59
1920	1.56	.33	4.36	1.46	6.80	2.39	2.07	9.14	5.29	4.68	1.35	1.05	40.48
1921	2.07	.18	4.14	5.42	2.28	6.25	1.44	4.05	4.64	.73	1.23	1.12	34.45
1922	.64	2.21	8.11	11.55	3.11	2.27	6.74	1.95	2.23	2.16	3.97	1.17	46.11
1923	1.91	1.16	3.26	3.23	5.41	11.43	.66	2.17	6.03	6.71	3.09	3.61	48.67
1924	1.86	2.95	2.17	2.93	5.02	6.64	6.29	8.63	6.48	7.73	2.63	3.64	49.97
1925	1.14	.84	2.45	3.62	1.41	6.73	1.75	2.85	3.88	2.00	2.76	1.00	30.43
1926	1.99	.94	2.83	2.34	1.97	5.91	4.19	7.40	12.63	5.00	2.00	2.97	50.17
1927	2.88	1.45	7.43	7.98	1.86	8.87	6.73	6.00	2.52	4.72	2.85	1.50	53.79
1928	.40	2.52	2.62	6.15	3.44	15.15	4.39	3.63	1.18	4.79	2.00	3.29	49.56
1929	2.26	2.08	1.94	9.97	9.80	8.48	3.01	1.47	2.34	3.37	1.27	.61	46.60
1930	4.29	1.98	.77	7.11	3.27	8.73	1.74	2.76	3.69	2.69	2.39	.99	40.41
1931	.73	1.85	2.53	2.47	5.76	1.73	5.35	5.13	.37	3.15	6.65	.48	36.20
1932	3.25	.79	.90	3.34	3.24	.50	5.27	2.49	1.68	2.67	1.04	5.83	37.50
1933	2.27	.74	1.46	4.62	5.78	.50	4.05	3.29	3.92	2.23	1.51	1.93	32.30
1934	1.45	1.50	1.12	4.24	2.17	.74	1.77	1.44	10.69	1.10	5.72	.98	32.92
1935	2.19	1.47	3.36	2.53	0.22	13.25	.23	5.12	2.68	6.42	2.83	1.19	50.49
1936	.63	.80	1.33	3.36	2.65	2.87	1.75	.17	7.22	3.96	1.75	2.53	29.02
1937	4.32	1.39	2.18	2.39	4.09	6.65	7.38	.92	2.09	1.64	1.23	1.23	35.51
1938	2.25	2.80	5.21	2.32	7.98	7.36	2.93	2.26	1.42	.81	2.79	1.22	39.35
1939	1.72	1.58	2.28	2.07	6.46	6.26	2.02	2.60	1.18	2.39	2.11	1.19	32.36
1940	.76	1.44	1.39	4.69	2.56	6.09	2.16	7.37	1.68	1.94	3.80	1.56	35.44
Average	1.92	1.85	3.14	4.31	5.33	5.93	3.94	3.76	3.94	3.18	2.47	2.05	41.82

* Estimated from surrounding stations.

TABLE 10. Snowfall, by months and years, at Columbus, Cherokee County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1893	3.0	1.0	2.0	0	0				0	0	0	1.0	7.0
1894	2.0	11.5	0.1	0	0				0	†	0	2.4	†
1895	13.8	1.2	T	0	0				0	0	6.0	7.5	28.5
1896	2.5	0.8	3.4	0	0				0	0	T	T	6.7
1897	7.4	3.0	T	0	0				0	0	0	7.0	17.4
1898	8.5	T	0.8	0	0				0	0.2	1.0	15.0	25.5
1899	2.5	2.1	11.1	0.2	0				0	0	0	6.7	22.6
1900	0.7	13.0	T	0	0				0	0	0	T	13.7
1901	T	3.0	1.5	0.5	0				0	0	0	2.8	7.8
1902	4.6	7.1	T	0	0				0	0	0	1.1	12.8
1903	1.5	4.0	0.1	1.7	0				0	0	0	0.5	8.7
1904	0.8	1.0	0	3.0	0				0	0	0	T	5.6
1905	8.3	20.0	0	0	0				0	1.0	0	4.0	33.3
1906	11.5	1.8	0.5	0	0				0	0	0	3.0	20.1
1907	0.1	1.2	0	0	0				0	0	0	0.1	8.8
1908	4.2	6.1	0.2	T	0				0	T	0	0	10.5
1909	7.9	1.5	0.2	T	0				0	T	0	4.2	13.8
1910	0.2	9.1	0	T	0				0	0	0	1.5	10.8
1911	T	2.0	0.4	0	0				0	0	1.2	5.4	9.0
1912	3.4	16.0	7.2	1.5	0				0	0	0	0.3	28.9
1913	1.2	12.5	3.2	0	0				0	2.5	0	6.8	31.5
1914	0.1	9.4	3.7	5	0				0	0	0	2.2	15.9
1915	0.7	2.0	6.9	T	0				0	0	0	6.0	15.6
1916	2.0	2.2	1.4	0.2	0				0	0	0	5.6	11.4
1917	1.2	0.2	1.6	0	0				0	T	0	17.9	20.9
1918	13.1	0	0	T	0				0	0	1.6	12.5	27.2
1919	0.5	3.3	T	T	0				0	0	0	0.1	8.9
1920	7.3	T	1.1	0.5	0				0	0	T	0.7	9.6
1921	8.5	0.2	T	0	0				0	0	0.4	0.2	9.3
1922	2.2	6.0	T	0	0				0	0	0	0	8.2
1923	T	1.5	0.8	0	0				0	0	9.5	T	11.6
1924	4.1	3.5	7.7	0	0				0	0	0	4.5	21.9
1925	5.4	0.2	5.5	0	0				0	0	0	5.5	11.7
1926	2.0	0.3	5.5	0	0				0	0	0	T	7.8
1927	2.3	6.2	7.7	0	0				0	0	0.7	0.9	17.6
1928	0.5	6.0	0	T	0				0	0	2	1.2	9.3
1929	2.2	13.5	0	T	0				0	0	0	1.1	16.8
1930	17.4	0	T	0	0				0	0	T	2.0	19.4
1931	1.0	0	4.8	0	0				0	0	1.5	0	7.3
1932	T	T	1.4	0	0				0	0	2.0	5.0	8.4
1933	0	1.6	0.8	T	0				0	0	0	0	2.2
1934	1.1	3.6	1.9	0	0				0	0	0	4.1	12.0
1935	0.6	T	0	0	0				0	0	0	1.6	2.2
1936	1.0	0.8	0	0.1	0				0	0	0	1.8	3.7
1937	8.0	3.3	1.7	0	0				0	0	0	1.1	20.0
1938	T	3.6	0	9.0	0				0	0	5.9	0	13.6
1939	7.5	6.0	2.0	T	0				0	0	T	4.2	19.7
1940	6.2	2.0	1.0	T	0				0	0	T	T	9.2
Average	3.7	4.1	1.9	0.4	0				0	0.1	0.8	3.4	14.4

† Data missing.

KANSAS WEATHER AND CLIMATE

TABLE 11. Mean temperature, by months and years, at Fort Scott, Bourbon County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1883	.....	.....	.....	.....	.....	.....	78.5	73.3	67.3	56.3	46.7	37.9	.....
1884	22.2	32.2	.....	55.5	65.1	76.0	83.9	74.4	.....	.....	.....	.....	.....
1885	24.4	26.5	43.0	57.3	65.0	.....	.....	.....	.....	56.0	45.6	37.2	.....
1886	21.2	34.4	44.8	56.8	72.0	75.5	.....	.....	.....	.....	.....	.....	.....
1887	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1888	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1889	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1891	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1895	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1896	.....	.....	.....	.....	.....	73.2	78.0	78.6	66.4	55.2	43.1	38.1	.....
1897	29.4	35.0	45.3	55.4	64.0	73.8	80.2	76.8	76.0	65.4	45.6	30.6	56.5
1898	36.4	37.7	41.6	53.2	67.6	75.8	78.4	77.4	72.8	55.0	46.8	28.0	55.5
1899	32.0	21.4	38.7	54.2	69.4	76.4	78.4	84.0	.....	.....	.....	.....	.....
1900	.....	.....	.....	.....	.....	.....	.....	81.8	73.8	.....	.....	.....	.....
1901	.....	.....	.....	.....	.....	.....	.....	.....	70.4	63.4	46.8	31.6	.....
1902	31.0	24.0	46.2	55.1	71.5	72.8	78.5	78.8	63.9	60.4	50.8	32.8	55.5
1903	34.0	32.8	48.2	56.9	64.0	68.0	79.4	76.0	67.6	58.5	43.2	33.8	55.2
1904	33.1	36.8	49.6	50.4	63.7	71.8	76.1	75.1	70.8	59.5	48.5	34.4	53.8
1905	23.8	23.2	57.6	55.6	65.0	76.5	74.8	78.4	70.8 ^a	.....	.....	.....	.....
1906	36.6	38.4	36.5	61.1	67.0	73.8	75.4	77.1	73.2	59.0	43.9	40.6	56.9
1907	36.8	37.3	57.2	49.8	57.6	71.4	78.2	78.8	69.2	57.7	44.0	38.2	56.4
1908	35.6	38.2	50.9	54.2	66.5	72.2	75.5	76.7	70.0	56.1	47.4	38.6	56.8
1909	33.8	38.3	43.6	54.0	62.4	74.0	77.2	78.6	69.6	57.2	52.2	24.0	55.4
1910	33.8	30.5	58.8	56.2	61.7	71.5	79.5	77.3	70.6	61.2	45.9	33.4	56.7
1911	36.3	39.9	48.0	53.9	68.4	81.1	78.5	76.7	75.2	58.4	40.5	38.4	57.9
1912	23.0	30.8	35.9	55.0	68.9	69.8	80.5	79.6	68.8	60.0	46.8	37.0	54.7
1913	34.0	30.4	43.9	37.8	66.4	76.4	82.4	83.6	69.2	56.4	53.6	39.4	57.8
1914	38.8	31.3	47.2	55.2	65.4	80.2	80.4	78.0	70.8	61.0	50.5	38.3	57.3
1915	31.4	40.9	35.8	60.9	62.2	71.0	75.4	70.4	71.0	61.6	47.2	32.4 ^b	56.2
1916	31.2	34.2	48.8	51.2	65.0	71.4	81.8	81.2	68.5	61.6	48.2	27.5	54.6
1917	35.5	33.3	47.8	53.6	59.2	73.1	80.9	74.3	69.2	53.0	46.2	39.8	57.2
1918	19.8	36.3	52.2	51.2	68.6	80.4	79.4	85.2	64.5	62.5	46.2	39.8	57.2
1919	35.2	37.1	49.5	56.5	63.2	74.8	80.0	78.2	73.7	59.1	44.4	29.6	56.8
1920	30.0	36.3	47.9	52.9	66.6	73.3	77.6	73.4	71.4	61.6	42.2	37.8	55.9
1921	39.9	42.7	53.2	56.0	67.3	76.6	80.0	78.6	75.6	59.4	46.7	38.6	59.6
1922	30.4	37.8	46.9	57.8	67.7	77.4	77.2	80.1	73.3	60.6	49.0	38.2	58.0
1923	43.0	32.4 ^a	42.9	57.0	64.4	75.6	79.8	82.0	71.6	55.4	48.3	40.5	57.8
1924	28.6	37.0	40.1	58.4	60.6	75.6	75.4	78.0	66.4	63.2	49.6	29.5	55.3
1925	29.9	41.8	51.0	62.5	63.8	78.8	81.2	79.8 ^a	76.4	51.0	45.2	34.8 ^a	58.0
1926	35.0	43.0	42.8	51.4	69.2	72.4	79.2 ^b	79.8	71.3	59.5	42.2	36.2	56.8
1927	33.6	43.2	48.0	61.7	67.4	72.6	77.6	72.6	72.2	62.6	49.0	32.0	57.7
1928	35.5	40.4	51.0	54.4	67.6	69.8	79.5	79.3	68.2	63.8	46.6	39.0	57.9
1929	28.7	28.4	50.9	59.4	63.2	73.6	79.8	80.6	71.8	60.8	41.0	38.1	56.4
1930	21.1	48.1	47.0	62.0	65.0	73.4	82.7	81.8	74.0	56.7	47.8	37.1	58.1
1931	37.9	44.0	41.9	55.8	61.9	78.4	82.6	77.2	80.2	65.0	53.4	44.0	60.2
1932	37.6	45.6	41.4	59.8	66.5	76.1	81.8	80.3	71.2	57.8	41.3	33.7	57.8
1933	44.0	34.5	47.0	56.8	67.6	80.3	81.0	78.9	75.1	58.5	49.4	43.4	59.5
1934	39.0	37.4	44.8	58.4	68.8	82.6	87.4	85.7	68.3	63.8	50.4	35.2	60.2
1935	35.8	39.9	53.2	54.0	61.8	71.4	84.9	80.9	69.9	58.0	44.4	34.8	57.4
1936	28.6	26.8	51.4	57.2	70.0	78.6	87.4	88.0	76.3	57.7	44.6	42.0	59.0
1937	27.4	35.3	41.6	56.4	66.0	75.2	80.6	83.0	71.8	58.6	42.0	33.5	56.0
1938	36.3	42.9	55.8	59.2	66.8	74.5	81.6	85.0	73.9	67.5	47.2	38.6	60.8
1939	41.3	35.4	50.2	56.3	69.0	76.6	84.4	79.1	79.2	64.3	44.8	41.3	60.2
1940	17.0	36.0	46.4	56.1	65.4	75.0	80.2	77.3	70.4	66.0	44.4	40.2	56.2
Average	32.2	35.8	46.9	56.1	65.7	74.9	79.8	78.9	71.4	59.7	46.6	35.9	57.2

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents two days, etc.

TABLE 12. *Precipitation, by months and years, at Fort Scott, Bourbon County*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1843	4.98	.20	1.75	4.46	6.10	8.46	5.34	3.30	4.42	.69	3.38	1.45	44.53
1844	2.05	1.30	3.78	6.91	14.79	12.64	10.50	2.51	3.33	2.49	1.52	.78	62.60
1845	.70	2.33	.94	5.39	8.16	24.56	4.57	7.18	3.35	3.05	.97	.39	61.59
1846	1.27	.92	1.61	2.64	1.76	7.03	1.17	3.09	5.53	2.56	2.97	3.49	34.04
1847	1.25	1.24	1.10	4.22	3.12	4.63	5.84	1.79	1.50	2.48	5.86	1.61	34.64
1848	.94	.25	2.53	1.96	7.33	1.85	4.84	4.20	1.19	1.72	.27	2.17	29.25
1849	3.26	.18	3.30	5.38	12.20	3.49	5.77	2.62	.56	3.86	3.78	1.03	45.43
1850	1.59	1.52	2.40	3.13	2.19	4.80	.27	5.45	.52	1.56	4.39	2.21	30.03
1851	.14	3.60	.48	.75	4.39	7.53	2.74	3.89	.15	2.01	5.49	1.84	33.01
1852	2.22	.11	.98	2.17	10.74	6.36	4.45	2.90	2.40	6.23	5.98	1.98	46.52
1853	2.68	1.30	.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Data from 1854 to 1879, inclusive, missing.

1880	.....	.....	.....	.....	.....	.....	.....	11.34	.57	1.40	2.50	.....	.....
1881	1.53	5.11	3.01	1.09	4.34	5.16	3.08	2.75	9.41	3.53	3.48	2.08	44.57
1882	1.05	4.67	.....	.....	.....	.....	.....	1.00	.....	.....	3.19	1.26	.....
1883	1.15	3.51	1.05	1.23	6.54	4.56	4.55	4.71	.22	7.78	.76	1.88	37.94
1884	1.45	2.53	2.44	7.53	4.14	3.83	10.76	3.90	11.45	2.33	.50	4.18	55.04
1885	2.77	1.50	1.75	8.73	2.24	3.54	4.76	3.90	3.55	1.65	3.00	1.00	38.39
1886	2.40	1.27	1.30	.....	6.20	3.99	.....	.....	.....	.....	.....	.....	.....
1887	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1888	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1889	*1.40	*2.50	*2.40	*4.05	7.50	9.00	2.75	.75	5.30	2.46	1.77	*.82	40.70
1890	*2.40	*.85	*.90	6.75	5.55	2.42	1.30	3.53	1.50	*4.55	*3.25	*1.20	34.00
1891	1.17	2.72	3.10	6.75	3.25	14.70	4.50	2.35	*1.26	.97	1.07	1.22	43.06
1892	2.10	7.11	3.78	4.40	10.74	4.05	2.17	1.77	1.18	2.80	1.83	2.54	43.47
1893	.48	.76	2.08	7.31	4.26	7.08	2.71	2.31	5.70	.60	1.11	.38	34.78
1894	3.15	.95	3.48	3.75	3.81	7.15	.75	2.51	5.99	*1.50	*1.90	.37	35.31
1895	*.40	.51	2.37	1.14	4.18	8.85	12.17	7.14	3.41	.45	3.83	8.03	52.48
1896	.60	1.03	.72	4.97	12.67	3.42	3.33	3.89	4.25	1.79	1.67	.86	39.20
1897	4.77	2.41	5.47	3.59	2.85	10.52	2.35	2.22	.51	.54	.80	3.06	39.09
1898	4.18	.52	5.26	4.67	7.41	9.96	2.43	.80	4.97	2.53	2.11	3.39	48.23
1899	1.03	1.88	2.10	3.79	5.73	1.89	4.39	1.66	*2.30	*2.50	*2.10	*1.90	31.27
1900	*1.00	*2.05	*1.40	3.55	*4.00	5.67	*4.20	3.54	8.26	*2.90	*1.95	*.30	38.82
1901	*.80	*1.40	*2.60	1.43	3.04	.53	1.24	2.52	2.77	.90	1.29	1.68	20.20
1902	1.19	2.83	3.95	1.58	7.65	4.95	3.56	10.98	4.51	.95	4.06	1.56	47.77
1903	1.02	3.40	4.77	3.66	7.84	4.64	2.96	7.95	2.60	6.93	1.13	1.39	48.29
1904	1.58	.57	1.69	10.34	6.23	12.88	8.12	4.63	1.41	.92	.12	.78	49.27
1905	1.17	1.77	3.22	1.32	6.18	4.17	11.45	5.62	5.26	*4.40	*1.50	*1.05	47.11
1906	2.80	1.58	1.51	1.67	2.20	6.93	3.16	3.43	4.21	1.40	2.56	2.65	34.10
1907	5.29	.81	2.01	3.84	5.39	6.97	1.66	3.09	2.04	4.31	1.79	1.73	38.93
1908	.81	4.16	3.16	3.88	6.14	8.70	3.45	2.88	2.43	6.94	5.43	.86	48.84
1909	.76	2.63	2.90	2.24	3.55	2.91	7.83	.51	1.65	2.83	4.96	2.51	35.29
1910	1.75	1.03	.57	2.13	6.31	4.49	4.52	3.46	8.08	2.25	.18	.61	35.38
1911	.34	6.41	1.39	4.44	3.80	1.62	5.16	5.70	11.18	5.03	2.11	2.00	49.18
1912	.35	3.08	4.78	7.24	5.09	4.19	2.83	1.74	1.17	4.12	.54	.75	35.88
1913	1.54	2.30	3.38	3.22	4.16	1.33	8.28	.87	2.24	4.73	1.27	3.84	37.16
1914	1.13	3.24	3.69	2.29	2.85	3.61	5.70	4.77	7.01	4.10	1.15	1.24	40.73
1915	3.05	3.22	2.73	2.16	8.83	9.26	7.65	6.04	10.61	1.18	2.38	3.41	60.52
1916	7.06	1.14	1.83	3.86	3.85	10.51	2.47	.71	2.43	1.70	2.30	.45	38.31
1917	.35	.05	1.43	3.05	8.03	.50	3.06	4.33	5.18	.83	.14	.60	27.55
1918	.73	.30	1.92	4.50	3.26	2.93	1.06	2.59	3.37	4.37	3.84	2.60	31.97
1919	T	1.09	1.48	4.59	4.98	8.27	2.52	3.29	1.53	7.71	1.61	1.09	38.16
1920	1.10	.15	5.55	2.86	4.77	3.31	2.24	4.24	5.30	5.57	1.24	.86	37.19

KANSAS WEATHER AND CLIMATE

TABLE 12. (CONCLUDED)

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1921	2.30	.50	3.03	7.87	2.97	7.42	5.14	2.62	7.43	1.33	.83	1.11	42.55
1922	1.42	1.00	8.11	9.59	2.04	1.93	5.52	1.81	3.27	1.55	4.59	.30	41.13
1923	1.49	.64	4.05	2.49	3.95	8.34	3.40	1.39	7.97	5.42	2.81	2.65	44.60
1924	1.45	2.47	2.01	4.19	3.14	5.80	10.36	4.94	4.99	2.41	3.27	2.29	47.32
1925	.98	1.02	2.15	5.05	1.54	6.35	2.44	.64	7.51	3.33	3.41	1.21	35.63
1926	1.62	1.84	2.84	3.06	2.78	5.75	1.12	4.68	10.83	5.74	1.30	2.24	43.80
1927	2.10	.55	6.37	8.55	4.27	6.50	5.72	12.41	3.62	5.08	2.25	2.19	59.61
1928	.12	3.78	1.93	3.88	4.16	9.70	2.29	2.88	2.43	5.03	3.73	1.90	41.83
1929	2.75	1.20	2.11	7.14	9.91	4.73	1.90	.84	.52	4.24	1.37	.75	36.96
1930	3.34	.48	.17	3.11	2.98	6.35	1.31	1.18	4.67	4.05	2.88	.89	31.41
1931	.97	1.53	2.41	2.88	5.15	1.30	1.86	1.60	2.97	3.51	6.53	.51	30.72
1932	2.26	1.18	.67	2.83	1.18	6.13	2.41	1.97	2.53	3.11	1.44	3.95	29.66
1933	1.63	.94	2.71	3.63	7.93	.22	6.00	3.28	8.00	4.13	1.20	2.15	41.82
1934	1.01	.92	1.87	2.64	4.12	1.82	3.01	.28	8.08	4.16	7.64	1.17	36.72
1935	1.82	1.47	2.21	3.91	11.28	8.07	.26	4.49	3.97	7.94	6.99	1.46	52.87
1936	.70	1.05	.55	1.19	3.35	3.92	.39	.36	10.00	4.53	1.00	1.54	28.58
1937	2.83	1.61	2.68	2.31	5.74	7.18	3.12	1.33	5.40	1.22	1.85	.70	35.97
1938	2.00	1.61	3.46	4.27	11.28	8.51	2.92	1.80	1.93	1.09	2.25	.48	41.60
1939	1.87	.98	1.68	3.86	3.77	2.45	2.35	3.76	.97	1.49	1.37	.99	25.54
1940	.81	.89	1.95	4.34	2.82	8.48	2.04	5.68	1.50	1.38	1.36	1.40	32.65
Average	1.74	1.76	2.50	4.05	5.44	5.98	4.00	3.45	4.12	3.12	2.47	1.66	40.29

* Estimated from surrounding stations.

TABLE 13. Snowfall, by months and years, at Fort Scott, Bourbon County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1896	T	0.7	5.0	T	0	.....	.....	.....	0	0	0	0	5.7
1897	8.0	1.0	0	0	0	.....	.....	.....	0	0	0	8.5	17.5
1898	0	T	0	0	0	.....	.....	.....	0	T	0	12.0	12.0
1899	7.0	3.0	3.0	0	0	.....	.....	.....	†	†	†	†	†
1900	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1901	†	†	†	†	†	.....	.....	.....	0	0	0	5.5	†
1902	11.5	18.0	1.0	0	0	.....	.....	.....	0	0	0	T	30.5
1903	3.2	8.5	T	T	0	.....	.....	.....	0	0	0.1	3.9	15.7
1904	1.2	0.8	T	T	0	.....	.....	.....	0	0	0	4.6	6.6
1905	7.8	16.3	0	0	0	.....	.....	.....	†	†	†	1.0	†
1906	10.0	1.2	3.6	0	0	.....	.....	.....	0	0	2.0	0	16.8
1907	0.7	1.0	0	0	0	.....	.....	.....	0	0	T	5.0	6.7
1908	1.5	2.2	T	0	0	.....	.....	.....	0	0	T	0	3.7
1909	5.2	1.2	0.2	T	0	.....	.....	.....	0	0	0	7.5	14.1
1910	4.0	6.5	T	T	0	.....	.....	.....	0	0	T	1.5	12.0
1911	T	14.0	T	0	0	.....	.....	.....	0	T	1.5	1.0	16.5
1912	3.5	8.0	17.0	0	0	.....	.....	.....	0	T	T	0	28.5
1913	1.0	7.0	3.0	0	0	.....	.....	.....	0	2.5	0	5.0	18.5
1914	0.5	20.0	2.5	0	0	.....	.....	.....	0	0	T	2.5	25.5
1915	2.0	8.0	23.5	0	0.3	.....	.....	.....	0	0	0	22.0	55.8
1916	2.5	2.0	1.5	10.5	0	.....	.....	.....	0	0	T	3.0	19.5
1917	3.0	T	T	T	0	.....	.....	.....	0	0.3	T	6.0	9.3
1918	7.3	0	0	0.5	0	.....	.....	.....	0	T	3.0	7.0	17.8
1919	T	1.0	T	T	0	.....	.....	.....	0	0	T	T	1.0
1920	12.0	T	T	T	0	.....	.....	.....	0	0	T	0.8	12.8
1921	7.0	0	T	T	0	.....	.....	.....	0	0	T	T	7.0
1922	6.5	2.0	3.0	0	0	.....	.....	.....	0	0	0	0	11.5
1923	0	0.3	T	0	0	.....	.....	.....	0	0	14.5	T	14.8
1924	4.5	11.9	8.1	0	0	.....	.....	.....	0	0	T	6.0	30.5
1925	9.2	0.5	0.5	0	0	.....	.....	.....	0	1.0	T	0.5	11.7
1926	0.3	T	14.7	0	0	.....	.....	.....	0	0	T	3.0	18.0
1927	4.0	3.0	4.5	0	0	.....	.....	.....	0	0	1.6	4.4	17.5
1928	0.7	2.0	8.5	0	0	.....	.....	.....	0	T	T	2.5	13.7
1929	4.0	4.5	0	0	0	.....	.....	.....	0	0	T	0.5	9.0
1930	15.5	T	T	0	0	.....	.....	.....	0	0	0	0.6	16.1
1931	0.1	0	11.2	0	0	.....	.....	.....	0	0	5.0	0	16.3
1932	T	0	0.8	0	0	.....	.....	.....	0	0	3.0	4.3	8.1
1933	0	6.0	5.0	0	0	.....	.....	.....	0	0	0	0	11.0
1934	2.0	5.5	6.9	0	0	.....	.....	.....	0	0	6.5	7.8	28.7
1935	6.0	0.2	0.4	T	0	.....	.....	.....	0	0	3.0	0.5	10.1
1936	0.4	0.2	0	0.5	0	.....	.....	.....	0	T	0	1.5	2.6
1937	2.5	4.2	3.0	0	0	.....	.....	.....	0	T	0	T	20.3
1938	T	5.1	T	7.5	0	.....	.....	.....	0	0	2.0	T	14.6
1939	8.5	7.3	0.1	0	0	.....	.....	.....	0	0	0	4.9	20.8
1940	8.1	4.5	8.0	0.2	0	.....	.....	.....	0	0	1.0	0	21.8
Average	4.0	4.1	3.1	0.4	T	.....	.....	.....	0	0.1	1.3	3.1	16.1

† Data missing.

TABLE 14. Mean temperature, by months and years, at Leavenworth, Leavenworth County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1882	.....	.....	.....	.....	.....	.....	72.5	73.2	68.8	58.9	43.3	31.6	.....
1883	19.4	27.9	39.4	56.3	60.8	71.1	76.8	72.7	63.4	53.0	44.0	35.1	51.6
1884	21.1	27.9	41.3	50.8	62.0	72.1	.....	.....	.....	.....	.....	.....	.....
1885	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1886	24.8	31.5	40.7	53.4	64.9	73.6	77.9	76.2	67.3	55.8	40.2	30.0	53.0
1887	20.9	29.6	43.6	58.0	69.4	74.5	79.9	74.2	67.6	53.1	42.8	48.3	55.1
1888	16.3	31.4	37.0	56.5	60.5	72.2	80.0	74.2	67.0	54.5	40.7	35.8	52.2
1889	29.8	27.5	45.2	55.4	63.8	70.6	76.8	74.0	64.7	54.2	39.2	45.3	53.9
1890	28.1	32.3	37.5	56.6	63.0	77.0	80.6	74.2	64.0	55.8	45.4	37.0	54.3
1891	33.2	29.8	34.2	57.0	60.7	71.7	72.6	73.6	70.8	55.9	38.7	39.3	53.1
1892	23.9	36.4	37.6	51.8	59.0	74.2	76.2	76.2	69.6	58.4	40.7	26.0	52.5
1893	21.8	26.6	39.8	53.4	61.1	73.2	78.0	72.8	70.5	58.2	.....	.....	.....

Data from 1894 to 1900, inclusive, missing.

1901	34.9	26.0	42.4	54.2	65.0	79.0	88.1	79.8	68.8	61.0	44.8	29.2	56.1
1902	.....	24.2	43.2	53.2	69.4	70.4	79.3	78.6	65.3	61.0	48.6	28.2	.....
1903	29.4	27.0	42.6	55.9	64.5	69.1	79.3	75.2	67.0	58.0	41.8	31.6	53.4
1904	27.2	39.8	44.6	50.4	63.4	71.6	75.4	74.9	70.9	59.4	48.2	32.8	54.0
1905	21.6	21.4	52.0	55.6	65.4	76.9	74.6	79.2	71.2	56.0	47.0	32.9	54.5

Data from 1906 to 1910, inclusive, missing.

1911	.....	.....	48.9	55.8	69.6	81.3	80.6	78.4	75.9	56.0	39.4	33.8	.....
1912	14.9	26.1	31.2	55.0	69.2	70.7	79.5	77.9	66.4	59.4	47.4	36.6	52.9
1913	31.2	28.9	39.3	57.3	67.1	75.5	82.0	85.0	69.5	55.2	50.8	37.3	56.6
1914	36.4	27.6	43.8	55.2	68.0	78.7	81.6	79.2	72.3	60.8	50.4	24.2	56.5
1915	29.0	38.8	35.6	63.0	63.2	71.8	74.8	71.8	71.0	61.6	49.4	34.2	55.4
1916	25.8	31.9	48.0	54.4	66.4	71.7	84.2	78.1g	67.9	57.6	46.5	29.2	55.1
1917	30.2c	30.4	45.0c	52.4	58.6c	71.9	79.1	73.3c	69.1b	50.2b	47.2c	24.8	52.7
1918	17.6	34.0	50.2	49.4	69.6e	78.8a	78.0	83.6	64.6	61.8	45.0a	38.9	56.0
1919	33.4	35.3b	45.0	54.9	63.4	75.7a	80.5	75.7	71.4a	56.5	41.4	26.5	55.0
1920	30.6	34.4a	45.2	48.6b	62.8	72.6	76.3	72.9	70.2	61.2	41.0	35.2b	54.2
1921	35.3	39.4k	51.8	57.5c	67.2	79.2	80.8	77.6	73.9b	61.8f	.....	36.8	.....
1922	.....	35.6	45.2	56.8	66.1	75.8	76.5	78.6	72.3	60.1a	48.2	35.2	.....
1923	39.2a	31.0	41.2	54.1	62.4	73.5	77.8	76.1	68.8	52.2	43.8	36.8	54.7
1924	22.4	32.8	36.8	54.8	57.3h	72.4	73.8	77.8	64.0	61.8	47.2	26.0	52.3
1925	28.0	38.6	47.8	.....	60.8b	75.4	77.5	76.0	74.1b	48.0	42.7	32.8	.....
1926	32.5	39.2	42.9	50.4	69.0b	73.0	79.4	79.2	69.0	57.8	39.4	30.0j	55.2
1927	30.9	40.0	44.8	57.4a	65.8a	.....	.....	71.1	70.5	62.6	44.4c	27.1	.....
1928	32.8	37.4	47.4	54.1a	68.2b	.....	77.4a	76.7b	65.8	60.8a	44.7a	37.1	.....
1929	22.0	24.4	48.6	57.6d	62.0	72.3	79.0	78.7	68.2	58.4	38.8	34.5a	53.7
1930	18.2	47.5d	44.4b	60.1	63.4	72.4a	81.5b	.....	71.0a	55.8	47.4b	36.0b	.....
1931	37.8a	41.6	40.5	55.5a	61.2a	79.0	80.6	75.2	77.6	62.3	50.4	41.6	58.6
1932	31.8a	42.1	37.6b	58.8	66.4	74.6	80.0	78.6	67.5	56.4b	40.0	31.3	55.4
1933	41.8h	32.4	45.0a	56.0	65.0	80.0	81.2	75.8	73.6a	56.4	46.5b	37.4	57.6
1934	35.6	33.3	41.8a	56.8	70.0	81.5	86.6	83.5	65.8g	63.4	48.2	32.4	58.2
1935	32.5	38.3	51.8	52.4	60.2	71.4a	84.6	78.8	68.6	56.7	41.0	32.9	55.8
1936	20.9	20.4	51.0f	55.1	68.9a	77.6	86.3	86.5	72.8a	56.2b	41.0	37.0	56.1
1937	20.9b	29.6b	39.2a	55.6b	67.4	74.8b	80.7	82.2e	70.8	59.1c	40.6	30.7	54.3
1938	33.9	38.6	54.2	56.4	65.5	74.4	81.4	82.0	72.2a	66.8	45.9	35.4b	58.9
1939	38.6c	30.8	45.2	54.4	71.5b	77.1	83.8	77.8b	77.0	63.0	45.8	40.2	58.8
1940	14.5	.....	43.4	54.3	64.0	74.4	79.6	76.3	69.8	64.8	41.5	37.0	.....
Average	27.9	32.3	43.4	55.1	64.7	74.5	79.4	77.1	69.5	58.1	44.2	33.9	54.9

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, e represents five days, etc.

TABLE 15. Precipitation, by months and years, at Leavenworth,†
Leavenworth County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1836	*0.91	*1.63	*1.36	*2.63	1.30	4.23	3.41	5.90	6.45	0.87	1.64	0.78	31.11
1837	.11	2.75	2.76	1.63	3.32	6.20	4.20	1.00	7.90	3.40	2.70	2.60	38.45
1838	1.80	1.00	1.90	1.30	2.60	6.13	2.18	6.66	.90	4.40	1.81	1.20	26.28
1839	1.08	.78	1.98	3.99	3.51	5.29	5.12	1.95	.76	6.05	1.29	1.52	33.32
1840	.73	.74	1.27	2.62	3.34	6.62	2.65	4.98	3.48	3.89	1.60	.22	32.14
1841	.04	.23	1.91	4.38	.56	2.95	2.50	2.33	5.52	3.26	*2.58	.05	26.31
1842	.01	.60	.99	2.84	1.39	5.65	3.15	6.06	1.02	.26	3.22	1.10	26.29
1843	.12	.10	1.35	5.53	2.29	.52	.57	.13	3.19	1.04	1.05	1.05	15.94
1844	.50	1.60	3.40	3.20	8.53	12.00	8.08	4.80	1.60	4.00	3.62	.39	48.12
1845	.60	2.20	.73	2.40	2.30	15.80	.01	1.70	6.70	1.30	.82	0	34.56
1846	.40	.20	1.10	3.90	3.20	4.16	2.61	.08	3.88	1.03	1.14	2.05	23.75
1847	.69	1.30	1.48	2.79	7.18	5.15	1.20	.50	.32	0	1.15	1.15	21.03
1848	1.45	1.40	1.50	.91	3.50	6.76	3.25	3.05	7.00	.74	4.33	3.50	37.89
1849	2.90	.60	3.40	2.40	5.10	2.26	6.03	5.80	7.56	3.44	2.80	.56	42.85
1850	1.10	2.21	3.64	1.74	2.32	5.99	1.63	2.27	.72	.85	3.84	.76	27.07
1851	.54	.96	1.03	1.00	6.40	8.16	6.78	5.02	1.10	1.68	3.18	1.96	37.81
1852	.96	.28	1.35	5.50	4.71	6.53	4.60	4.22	1.61	2.64	3.58	.60	36.53
1853	.01	.30	.15	2.36	3.39	5.95	3.21	5.01	1.47	3.20	2.07	.78	25.20
1854	.04	1.78	1.33	3.35	5.55	4.50	.18	1.07	2.11	3.20	1.20	.09	24.40
1855	.59	.20	.42	.27	1.98	1.09	1.70	10.18	4.43	2.38	2.75	3.56	27.55
1856	.26	1.07	.11	4.85	3.30	3.56	9.11	6.73	5.22	2.83	3.13	4.55	42.72
1857	.27	5.96	1.94	.58	2.31	5.95	1.87	3.81	1.46	2.01	5.35	.60	31.71
1858	2.38	2.10	1.00	2.62	5.00	8.77	10.57	7.26	8.28	5.66	3.90	2.11	59.65
1859	2.25	.59	1.85	1.88	5.71	6.96	6.32	6.47	5.47	.52	.79	.03	38.84
1860	.99	1.66	0	.08	.88	3.33	3.08	3.38	2.48	.39	1.58	1.34	19.19
1861	1.04	.52	.56	1.77	1.99	5.03	3.97	.25	7.65	2.04	.95	1.50	27.27
1862	1.55	.16	2.10	2.93	2.26	1.46	4.04	2.91	4.33	1.27	2.30	4.20	29.51
1863	1.71	2.67	1.61	1.79	4.99	4.05	6.33	3.35	1.40	*2.58	2.67	3.07	30.75
1864	1.00	0	.89	.97	.95	.26	1.73	1.80	3.66	2.00	1.47	.07	14.60
1865	.13	3.04	*1.36	*2.63	*3.76	10.68	6.95	9.66	7.37	3.20	2.20	1.39	51.37
1866	2.74	.33	.48	*2.63	*3.36	*5.12	*3.90	*3.74	*3.32	1.10	1.50	1.01	28.23
1867	.65	2.95	.85	2.30	7.38	3.03	*3.90	.21	.40	2.14	.90	1.12	25.83
1868	.35	1.45	5.60	2.50	3.36	2.60	1.63	5.81	2.37	1.35	5.11	2.35	33.18
1869	2.28	1.41	1.00	2.75	4.76	4.97	6.13	3.13	2.65	7.79	3.09	2.35	35.31
1870	.77	0	1.93	1.80	6.66	1.44	6.30	7.50	4.68	8.65	.70	2.75	43.18
1871	2.47	2.89	1.56	2.80	5.03	6.10	5.20	4.70	1.18	4.24	3.94	.73	40.84
1872	.13	.87	1.95	3.63	7.91	4.75	9.92	6.66	4.22	2.06	.06	1.34	43.50
1873	3.02	1.03	1.75	5.07	5.38	3.15	2.04	2.40	3.64	1.56	.89	5.24	35.17
1874	3.14	1.49	3.05	2.80	1.60	4.98	3.23	1.74	5.50	1.49	3.46	1.35	33.81
1875	.23	1.25	2.50	1.67	3.53	3.85	8.82	3.73	1.97	.72	.39	2.60	31.26
1876	1.42	.20	5.78	7.65	6.78	5.71	4.01	3.40	3.56	2.79	2.87	.31	44.48
1877	.73	.60	4.39	7.14	8.67	10.00	5.34	2.85	1.95	4.87	2.44	3.18	52.06
1878	2.34	2.94	2.35	2.86	5.28	5.27	3.08	3.31	2.64	1.16	1.78	2.16	35.15
1879	1.16	.54	.32	3.57	3.04	9.90	4.99	.18	3.41	4.25	7.85	2.34	41.55
1880	2.00	1.40	2.22	1.38	5.01	1.69	6.86	7.06	2.78	3.69	2.40	.40	86.89
1881	.44	4.84	2.21	1.86	3.65	5.27	1.72	2.74	6.89	5.73	3.42	1.18	39.95
1882	.83	1.17	1.16	4.15	2.53	5.06	3.44	.83	1.95	2.86	1.87	1.13	25.97
1883	.75	2.92	1.05	.97	7.33	10.84	3.58	1.95	1.57	8.31	2.02	.65	41.94
1884	.97	1.42	3.70	4.74	4.79	3.33	9.43	4.65	5.38	3.41	1.42	1.48	44.72
1885	1.47	.87	.31	6.63	5.89	4.00	4.56	5.20	7.65	4.23	1.86	.97	43.64
1886	1.60	.61	1.35	1.47	4.71	4.93	.55	.73	2.75	1.80	1.10	.65	22.25
1887	1.27	1.94	1.59	1.99	3.07	5.43	1.36	7.11	5.73	3.87	1.14	2.55	37.05
1888	.93	1.24	4.55	2.32	7.70	7.77	4.87	9.32	.84	2.67	3.50	1.57	47.21
1889	1.06	2.56	1.32	2.80	9.90	3.01	3.02	7.09	5.73	1.59	2.77	.08	40.93
1890	1.27	.54	1.00	2.23	4.10	1.93	1.61	5.85	3.81	3.86	1.89	.40	28.49
1891	2.66	1.39	3.16	3.95	7.32	6.12	2.19	6.45	.57	1.39	.80	1.71	37.71
1892	1.95	3.65	4.09	4.90	8.66	2.55	3.42	3.54	1.23	2.80	1.53	1.77	40.09
1893	.10	1.69	2.67	3.85	5.82	5.64	6.92	3.01	4.62	4.88	.95	3.22	36.07
1894	1.02	1.02	1.79	2.43	1.68	7.21	2.90	.07	5.89	4.33	.80	1.05	30.19
1895	.96	.56	.83	2.48	1.77	3.66	7.37	9.88	.73	2.20	1.71	2.56	32.71
1896	.86	.74	.82	2.56	8.43	1.84	6.98	4.16	3.92	3.61	1.09	.87	35.88
1897	1.21	.79	1.57	7.17	3.06	8.50	3.60	2.58	.93	.84	1.22	1.74	33.21
1898	3.40	1.91	3.86	3.24	10.32	7.22	3.09	3.38	7.43	2.60	1.25	2.05	49.75
1899	.42	1.36	3.42	1.66	3.60	5.16	7.63	2.89	1.95	.66	1.37	1.19	31.21
1900	.32	2.14	.94	3.73	2.58	4.86	5.67	4.08	7.05	3.21	.78	.28	35.62

KANSAS WEATHER AND CLIMATE

TABLE 15. (CONCLUDED)

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1901	.49	2.27	1.40	4.25	1.25	.75	1.55	1.80	3.65	1.20	.90	.95	20.46
1902	.60	.10	1.21	.65	6.05	3.49	6.88	5.93	4.50	2.69	1.57	1.05	34.72
1903	.70	1.15	1.15	2.50	10.50	3.95	2.22	9.54	3.55	4.73	.95	1.72	42.66
1904	1.38	.22	4.24	5.66	9.39	5.73	8.85	5.19	4.50	1.50	.21	1.20	48.07
1905	.80	2.12	5.20	2.67	4.65	2.84	5.70	4.36	9.13	2.17	3.54	.32	43.50
1906	.52	1.30	2.27	3.27	.72	3.92	4.30	5.04	1.26	.39	2.45	.65	26.09
1907	3.24	.91	2.39	1.49	1.71	4.81	5.20	2.63	3.22	2.08	.94	.24	28.86
1908	.02	1.55	.73	2.50	8.74	7.42	3.40	7.50	*.60	4.10	2.25	.32	39.13
1909	1.10	1.10	2.77	2.95	4.29	4.52	8.64	2.70	10.86	1.85	4.40	1.65	46.83
1910	2.15	.85	T†	1.31	8.10	3.15	1.85	3.21	7.19	.50	.30	1.23	29.84
1911	1.60	5.00	1.24	2.05	1.67	.45	.41	3.24	6.98	3.36	.84	1.78	28.62
1912	.02	1.31	3.98	1.42	3.61	2.33	4.64	3.71	3.44	2.98	1.94	.23	29.61
1913	.30	.52	.88	3.18	5.80	1.66	2.07	.49	4.03	5.93	2.55	3.75	31.16
1914	.07	1.20	2.70	2.51	1.95	8.16	2.21	4.64	9.23	4.02	0	1.40	38.09
1915	.98	1.97	*1.20	2.71	12.41	4.20	8.38	2.63	5.73	0	.79	.96	41.96
1916	4.21	.35	3.37	2.75	6.06	4.56	.48	3.90	4.35	3.07	3.46	.32	36.78
1917	.67	T	.90	6.08	4.57	3.82	1.46	4.87	3.58	1.69	.07	.33	28.04
1918	1.04	1.80	.57	3.20	6.25	1.13	2.21	3.10	5.20	1.74	5.67	2.65	34.56
1919	.05	1.90	2.13	6.60	3.75	6.59	2.25	5.57	3.98	1.51	2.44	.30	37.07
1920	T	.85	3.85	5.76	1.51	4.10	7.30	1.95	4.33	1.75	2.19	1.33	34.92
1921	1.24	.46	3.24	3.07	6.91	5.39	1.79	7.19	7.47	1.29	0	.09	38.14
1922	*.46	2.90	4.69	3.76	6.04	1.07	8.48	.51	3.54	1.65	5.58	.05	38.73
1923	.19	.17	2.83	3.09	2.94	4.71	4.37	4.42	4.85	2.97	.89	.63	32.06
1924	.61	1.10	2.71	.84	1.91	5.74	3.41	4.61	5.23	1.70	1.54	3.02	32.42
1925	.10	.41	.95	*5.68	4.05	8.37	4.57	1.70	4.07	2.74	.99	.21	33.84
1926	1.12	1.79	1.24	2.08	.61	3.18	1.75	4.64	5.97	3.79	.66	.50	27.33
1927	.63	1.49	*4.60	*6.44	3.35	*5.32	1.31	4.32	4.80	4.55	.85	.92	38.58
1928	T	1.70	.30	2.07	3.90	5.03	2.28	6.37	5.32	2.17	5.26	1.28	35.68
1929	2.05	1.63	2.00	6.47	5.83	8.32	1.81	.96	2.62	8.30	.50	.11	40.50
1930	1.94	.48	.47	2.92	5.28	4.59	1.33	3.91	3.46	3.20	4.69	.75	33.02
1931	.59	.56	2.24	3.02	4.36	2.05	4.41	3.21	8.02	3.01	9.55	2.76	43.78
1932	1.66	.62	1.55	3.64	2.47	6.17	2.33	4.75	3.37	1.53	.58	1.73	30.40
1933	.55	.62	3.55	2.17	7.41	3.53	2.93	8.58	2.08	*7.0	1.09	1.09	34.30
1934	1.42	1.35	.41	3.10	4.03	2.48	.85	1.32	6.26	1.13	5.00	.17	27.52
1935	1.18	1.21	.28	1.74	12.47	6.65	.52	5.10	8.21	5.99	3.51	.21	47.07
1936	1.99	.24	T	2.71	5.64	.64	.32	.36	8.78	1.94	.21	1.18	24.01
1937	2.24	.91	1.87	1.66	3.00	3.64	1.58	5.67	.90	1.73	1.13	1.06	25.39
1938	1.17	.60	1.71	1.82	6.42	4.01	5.90	7.19	1.65	.69	1.99	*.57	33.72
1939	.59	.84	2.29	4.35	1.99	6.75	.50	4.71	.70	.95	2.35	.87	26.89
1940	.81	.93	1.93	3.73	5.28	4.14	5.19	6.83	1.66	2.04	2.69	1.41	36.64
Average	1.08	1.29	1.91	3.03	4.59	4.89	3.89	4.11	4.00	2.42	2.14	1.29	34.64

‡ Record taken at Atchison from November, 1893, to January, 1901, inclusive, and from January, 1906, to February, 1911, inclusive.

* Estimated from surrounding stations.

† T = less than 0.01 inch.

TABLE 16. Snowfall, by months and years, at Leavenworth, Leavenworth County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1901	0.1	22.7	1.8	2.0	0	.....	.....	.....	0	0	T	2.0	28.6
1902	6.0	1.0	T	0	0	.....	.....	.....	0	0	0	4.0	11.0
1903	7.0	4.0	4.0	3.0	0	.....	.....	.....	0	0	0.5	3.0	21.5
1904	5.5	2.0	3.0	2.0	0	.....	.....	.....	0	0	T	12.0	24.5
1905	8.0	15.0	0	2.0	0	.....	.....	.....	0	0.2	0	3.2	28.4

Data from 1906 to 1911, inclusive, missing.

1912	0.2	6.8	21.0	T	0	.....	.....	.....	0	0.5	0	T	28.5
1913	4.2	6.2	2.0	0	0	.....	.....	.....	0	0.5	0	T	14.9
1914	0.2	9.0	3.0	0	0	.....	.....	.....	0	0	0	10.5	22.7
1915	2.2	5.8	10.0	0	0	.....	.....	.....	0	0	T	4.5	22.5
1916	9.5	3.5	1.5	2.0	0	.....	.....	.....	0	T	0	0.5	17.0
1917	1.5	T	T	4.0	0	.....	.....	.....	0	1.7	T	3.0	10.2
1918	11.4	T	T	T	0	.....	.....	.....	0	0	1.1	15.0	27.5
1919	0.4	13.0	T	0	0	.....	.....	.....	0	0	1.0	T	14.4
1920	T	T	T	5.0	0	.....	.....	.....	0	0	T	2.9	7.9
1921	5.5	T	T	0.2	0	.....	.....	.....	0	0	0	T	5.7
1922	†	0.1	0	0	0	.....	.....	.....	0	0	0	0	†
1923	T	0	†	†	T	.....	.....	.....	0	0	1.7	T	†
1924	†	5.0	6.5	0	0	.....	.....	.....	0	0	T	4.0	†
1925	0.9	0.1	0.5	†	0	.....	.....	.....	0	T	3.0	1.0	†
1926	5.8	8.5	6.0	†	0	.....	.....	.....	0	0	0.3	T	†
1927	5.0	2.5	2.2	0	0	.....	.....	.....	0	0	T	1.2	10.9
1928	T	0.2	T	0	0	.....	.....	.....	0	0	T	4.0	4.2
1929	11.5	8.0	T	T	0	.....	.....	.....	0	0	T	1.0	20.5
1930	17.5	1.5	T	0	0	.....	.....	.....	0	0.5	0	0.5	20.0
1931	0.4	T	10.1	0	0	.....	.....	.....	0	T	1.2	2.0	13.7
1932	3.0	2.2	5.5	0	0	.....	.....	.....	0	T	4.0	5.4	20.1
1933	2.8	7.2	2.0	1.5	0	.....	.....	.....	0	0	T	T	13.5
1934	T	5.6	0.4	0	0	.....	.....	.....	0	0	4.0	0.8	10.8
1935	T	T	T	0	0	.....	.....	.....	0	0	2.0	T	2.0
1936	†	4.1	0	T	0	.....	.....	.....	0	0	0	†	†
1937	†	5.5	9.0	T	0	.....	.....	.....	0	0	5.0	T	†
1938	T	5.5	T	6.0	0	.....	.....	.....	0	0	1.0	†	†
1939	†	9.0	T	T	0	.....	.....	.....	0	0	0	3.0	†
1940	21.7	9.0	2.0	0.5	0	.....	.....	.....	0	0	2.0	1.6	36.8
Average	4.5	4.8	2.7	0.9	T	.....	.....	.....	0	0.1	0.8	2.7	16.5

† Data missing.

TABLE 17. Mean temperature, by months and years, at Manhattan, Riley County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1856*	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.5	39.9	24.6	.....
1857	16.0	36.6	40.3	44.7 ^a	59.0	78.8	84.8	78.0 ^b	71.2	54.0	35.4 ^b	.....	.....
1858	.....	25.5	46.1	51.4	60.0	75.2	80.8	74.6	69.7	.....	33.7	25.8	.....
1859	32.0	33.9	46.9	50.6	64.4	75.1	82.2	78.0	66.9	54.0	46.0	21.8	54.9
1860	23.1	32.6	52.4	56.2	65.7	81.8	83.9	85.0	72.6	55.7	37.8	33.4	57.1
1861	24.9	35.9	42.6	56.3	64.9	79.1	78.8	78.8	69.0	56.6	41.4	32.5	55.1
1862	15.2	24.1	33.6	50.8	69.1	74.1	80.6	70.8	69.2	57.6	44.1	38.6	53.2
1863	36.1	30.1	47.0	61.2	79.4	70.9	76.1	78.6	73.2	48.3	38.1	25.7	55.4
1864	24.0	32.2	38.3	48.3	64.8	75.8	82.0	78.3	70.8	46.0	38.6	28.0	52.1
1865	27.4	35.2	42.0	54.7	68.2	76.1	.....	75.4	.....	.....	.....	.....	.....
1866	.....	.....	.....	61.8	77.8	80.8	72.7	62.3	57.5	46.4	31.0	.....	.....
1867	22.4	32.3	24.8	50.0	59.1	73.9	75.7	77.8	69.9	58.9	45.1	35.9	52.2
1868	18.4	27.7	49.4	46.6	67.1	74.3	83.7	76.8	60.7	53.1	38.1	25.3	51.8
1869	30.8	31.3	35.7	47.4	58.0	66.4	73.5	76.0	61.9	44.8	37.3	30.2	49.4
1870	27.7	34.1	36.2	53.5	65.8	74.6	84.9	72.9	68.3	56.6	45.6	30.1	54.2
1871	28.8	36.0	47.2	60.0	67.2	77.5	79.4	76.2	67.2	57.6	37.0	24.7	54.9
1872	25.2	32.9	38.7	56.6	65.7	75.0	78.7	77.7	66.2	52.4	34.1	21.1	52.0
1873	19.7	30.7	42.5	47.8	62.8	76.6	77.4	78.8	66.4	51.9	42.1	29.1	52.1
1874	26.4	25.7	37.1	46.0	65.6	76.0	82.3	83.4	65.4	59.1	39.0	32.2	53.3
1875	15.3	23.3	36.9	51.6	64.7	75.4	78.2	71.0	66.0	56.4	39.5	38.7	51.2
1876	33.8	36.9	32.0	55.6	65.8	69.3	77.1	76.4	65.1	53.3	37.3	23.2	52.1
1877	25.1	39.6	38.9	.....	64.2	72.2	77.5	75.2	70.5	53.4	38.7	41.5	.....
1878	33.1	39.2	49.3	53.1	61.8	68.0	78.1	77.5	67.0	54.8	43.5	21.2	55.6
1879	.....	21.4	46.6	55.6	68.6	72.8	80.0	77.5	63.3	61.1	49.5	24.8	.....
1880	37.2	36.6	41.0	56.3	70.4	74.3	75.3	76.2	64.9	51.9	31.0	24.4	53.3
1881	19.5	22.2	36.2	52.1	68.2	78.0	81.1	83.8	72.5	56.6	39.4	38.5	54.9
1882	31.7	40.4	46.7	56.1	58.4	73.9	72.7	73.6	70.3	57.1	40.5	29.6	54.2
1883	18.0	25.8	39.3	55.5	80.0	71.2	73.7	73.1	63.1	51.5	43.4	33.0	49.8
1884	21.5	29.0	40.2	49.3	61.0	71.8	76.9	72.0	72.6	60.0	42.4	22.7	51.4
1885	16.3	21.6	40.6	53.7	60.7	73.7	77.5	74.1	63.1	50.9	42.9	32.8	50.7
1886	12.4	31.2	39.2	57.7	69.5	74.2	78.8	79.3	78.4	61.0	45.6	24.3	54.4
1887	22.2	28.0	42.4	58.1	68.5	74.3	80.7	73.6	67.0	51.0	40.8	26.1	52.8
1888	15.4	32.1	35.8	56.7	60.2	73.4	80.1	74.1	64.2	52.1	37.3	33.4	51.2
1889	27.8	25.5	43.0	55.3	63.1	70.4	75.2	74.1	63.2	52.2	35.2	41.2	52.2
1890	23.1	30.0	37.2	56.2	62.9	77.2	81.9	74.3	63.0	53.3	41.9	33.2	52.9
1891	29.4	27.6	33.4	56.3	60.9	70.0	72.0	73.6	69.9	53.2	38.7	38.0	51.9
1892	22.2	34.6	39.2	51.7	57.8	74.3	77.3	74.5	69.7	55.7	39.8	24.0	51.7
1893	23.0	26.7	39.6	54.3	60.8	73.9	78.6	72.3	69.0	55.4	37.1	34.1	52.1
1894	26.6	25.4	46.0	57.6	64.3	74.0	77.6	79.9	69.2	57.4	40.9	35.1	54.5
1895	23.7	25.8	43.0	60.7	68.4	74.2	77.8	77.3	75.0	53.6	41.8	33.0	54.5
1896	32.2	37.0	38.5	61.9	69.9	74.4	78.6	78.8	65.6	55.3	38.5	39.8	55.9
1897	27.8	31.5	42.2	54.8	65.1	76.8	80.7	77.2	75.9	62.2	42.0	27.4	55.3
1898	31.4	35.8	43.6	54.2	63.8	76.0	77.9	79.4	72.1	53.1	38.0	26.3	54.3
1899	29.2	17.8	34.6	55.2	68.6	74.6	76.2	80.4	69.4	64.0	49.2	29.7	54.1
1900	33.3	25.4	41.2	58.4	67.6	76.0	77.6	82.6	71.6	63.0	41.0	35.2	56.1
1901	31.5	27.2	.....	54.0	63.8	78.9	86.6	80.6	69.0	55.6	44.7	30.3	.....
1902	32.3	22.6	46.8	55.4	70.2	71.2	80.0	78.7	63.0	58.4	47.6	28.0	54.5
1903	31.8	28.6	45.0	57.1	64.9	69.6	80.0	76.7	68.0	57.3	42.4	31.7	54.4
1904	27.4	30.1	45.4	50.3	63.3	72.4	75.7	74.1	70.8	59.8	46.0	31.4	53.9
1905	20.6	20.5	51.8	55.6	65.2	78.2	76.0	79.7	72.1	54.2	45.6	33.4	54.4
1906	34.0	35.6	32.8	59.6	66.5	74.4	75.8	78.4	72.0	55.8	40.1	35.8	55.1
1907	29.4	31.6	51.2	45.8	59.2	70.9	78.8	77.4	69.6	55.8	41.4	34.2	53.8
1908	35.0	34.8	47.6	55.7	62.6	71.8	75.8	75.2	70.2	55.7	43.5	35.0	55.2
1909	27.0	35.6	40.7	52.0	62.6	73.7	78.5	80.2	68.8	56.9	49.8	21.3	53.9
1910	27.6	29.0	56.0	57.8	59.6	71.2	78.1	73.9	68.7	58.7	41.3	31.2	54.4
1911	32.1	35.3	46.0	53.2	67.6	80.6	79.4	75.3	74.3	54.4 ^a	38.4	32.2	55.7
1912	18.1	28.6	32.0	55.4	68.7	69.8	80.7	78.5	67.2	57.2	45.2	34.9	53.0
1913	26.9	26.7	38.1	57.2	66.2	75.0	83.4	85.0	68.8	54.7	50.1	35.6	55.6

* Most of the means from 1856 to 1891, inclusive, are calculated from observations made at 7 a. m., 2 p. m., and 7 p. m. Other means are determined from maximum and minimum thermometer observations.

TABLE 17. (Concluded)

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1914	35.9	27.2	42.6	54.6	64.3	79.6	81.6	79.6	73.6	59.2	47.7	22.2	55.7
1915	26.6	37.2	33.8	61.0	62.0	71.0	75.2 ^a	68.2	69.4	58.0	47.6	33.6	53.6
1916	24.7	28.4	46.6	52.5	65.8	70.4	80.8	80.7	68.8	58.5	44.4	27.6 ^a	54.1
1917	31.5	30.9	44.8	53.6	57.2	73.1	81.1	72.6	68.5	50.2	47.5 ^a	24.9	53.0
1918	17.0	34.6	49.8	49.2	70.2 ^a	79.2	79.2	84.6	63.3	61.8	44.6	37.3	55.9
1919	31.0	34.0	43.8	54.4	62.8	73.8	81.8	78.4	73.8	56.4	40.1	25.2	54.6
1920	31.2	35.0	46.5	48.2	64.1	75.6	77.4	72.2	70.1	62.3	40.7	34.4	54.8
1921	36.5	40.8	51.1	56.2	66.8	75.5	79.6	78.6	75.0	60.8	42.8	33.6	58.1
1922	28.2	33.4	44.8	56.2	64.9	76.1	76.2	80.0	73.2	60.3	46.2	32.4	56.0
1923	38.2	30.8	40.5	54.2	61.8	74.0	78.2	77.4	71.4	53.6	45.0	35.0	55.1
1924	23.8	35.2	37.0	56.3	59.0	74.2	76.4	79.8	64.6	62.6	45.9	24.0	53.3
1925	24.2	38.9	48.6 ^a	61.0	62.2	77.2	79.0	77.4	73.4	47.0	42.7	31.7	55.3
1926	30.8	40.3	41.2	50.2	68.4	73.2	80.4	80.2	70.0	58.3 ^a	40.0	30.4 ^a	55.3
1927	30.1 ^a	38.0	44.0	57.0	64.4	71.4	76.4	71.0	70.0	60.8	43.4	26.8	54.4
1928	33.2	36.8	48.2	51.6	65.5	68.4	77.8	76.8	66.8	59.2	43.4	36.6	55.4
1929	21.3	23.9	47.6	57.7	61.2	73.0	79.5	78.6	68.3 ^a	58.2	37.7	33.3	53.4
1930	16.5	47.2	43.6	59.6	64.4	73.0	83.6	81.0	72.2	55.6	46.7	33.5	56.4
1931	36.4	41.1	39.8	55.1	61.8	79.3	83.0	75.2	78.4	62.2	48.2	40.4	58.4
1932	28.5	39.9	35.8	58.0	66.0	74.4	82.2	79.8	68.5	55.3	39.8	28.0	54.7
1933	39.8	31.1	45.3	55.0	65.4	83.6	82.0	78.4	74.9	57.5	47.7	38.3	58.2
1934	35.3	34.2	43.7	58.4	70.4	83.6	90.2	86.6	67.4	62.8	47.7	31.8	59.3
1935	33.2	38.0	51.8	52.5	60.2	71.0	86.6	81.4	70.4	58.1	40.7	33.0	56.2
1936	22.4	19.4	48.5	54.6	69.0	78.1	88.0	86.2	73.9	55.8	42.5	38.6	56.4
1937	21.6	30.6	39.6	54.8	67.2	76.0	82.9	84.6	72.6	56.6	40.6	30.6	54.8
1938	33.5	37.0	51.4	55.6	64.2	74.4	82.1	84.2	73.1	66.7	43.6	35.5	58.4
1939	38.3	29.8	45.0	54.8	69.2	75.0	83.8	76.8	76.3	61.8	44.8	39.0	57.9
1940	13.8	31.6	43.5	53.6	63.6	74.4	83.7	76.9	70.2	65.2	40.2	35.4	54.3
Average	27.0	31.5	42.5	54.5	64.6	74.5	79.5	77.5	69.3	56.5	42.0	31.2	54.2

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents two days, etc.

KANSAS WEATHER AND CLIMATE

TABLE 18. Mean maximum temperature, by months and years, at Manhattan, Riley County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1892	37.3	45.2	48.9	63.1	68.4	88.5	91.3	90.7	85.6	73.5	54.7	33.7	65.1
1893	34.0	38.8	54.3	68.7	75.5	87.8	91.7	88.7	88.5	75.0	54.2	47.3	67.0
1894	41.1 _a	38.8	62.1	74.3	79.5	88.9	95.9	97.7	87.9	75.7	57.1	48.7	70.6
1895	36.7	37.5	57.5	75.9	83.6	87.8	91.4	90.6	88.2	68.4	52.8	42.8	67.8
1896	43.0	49.6	51.6	75.0	81.2	87.3	90.3	92.0	77.4	68.6	49.4	50.6	68.0
1897	36.7	39.0	53.9	67.3	79.3	89.2	93.8	91.6	91.7	75.3	54.6	36.0	67.4
1898	40.0	47.7	55.4	66.3	73.8	84.9	89.5	92.2	84.5	63.5	50.1	34.8	65.2
1899	39.2	29.6	45.6	68.7	80.5	84.6	86.8	92.3	82.9	77.4	60.2	38.6	65.5
1900	44.1	36.4	54.1	71.0	78.4	88.9	92.2	95.3	82.2	74.9	52.3	45.3	67.9
1901	42.7 _c	38.4 _d	.....	66.4	78.4	92.5	103.0	95.3	83.5	74.5 _a	57.4	40.1	.....
1902	41.5	33.6	58.3	69.6	81.6	82.9	91.9	91.1	77.0	75.0	59.3	35.9	66.5
1903	42.0	39.5	58.5	71.8	75.6	83.0	93.4	89.6	82.2	71.0	52.6	44.5	67.0
1904	38.9	42.3	58.2	63.3	75.2	84.0	85.8	86.5	84.0	74.7	62.8	42.8	66.5
1905	31.1	32.2	64.3	70.4	78.0	91.2	88.0	93.2	84.5	67.4	58.9	46.7	67.2
1906	46.0	49.4	42.3	73.7	80.0	89.7	89.1	90.9	85.5	69.2	51.2	45.0	67.7
1907	36.5	44.4	63.3	58.9	71.7	82.7	89.8	89.0	82.3	70.1	54.6	44.5	65.6
1908	48.3	45.6	63.2	68.1	74.4	81.7	87.7	86.5	84.9	67.6	58.2	47.7	67.8
1909	37.3	50.4	53.0	65.7	75.7	85.7	89.5	92.7	83.5	70.4	61.6	31.1	66.4
1910	36.9	40.9	73.7	73.3	70.2	84.1	91.7	85.6	81.3	75.5	55.9	42.3	67.6
1911	43.2	46.4	60.2	68.9	79.4	96.9	91.4	88.5	87.1	65.4 _a	52.3	42.0	68.5
1912	27.6	38.3	41.7	67.1	82.0	83.2	94.3	91.6	80.7	72.0	59.6	48.8	65.6
1913	38.5	39.1	50.5	72.1	79.0	87.2	98.3	103.2	81.0	66.9	59.9	43.3	68.2
1914	45.5	38.4	54.9	67.4	76.2	90.7	94.1	93.0	86.2	72.4	64.3	32.0	67.9
1915	37.6	44.7	41.4	74.7	73.8	82.1	86.6 _a	80.5	80.9	73.5	61.5	43.9	65.1
1916	34.6 _a	39.3	61.7	65.1	77.9	82.3	96.2	94.7	83.5	72.9	56.9	40.4 _a	67.1
1917	42.9	45.0	59.9	65.7	69.3	86.3	95.9	85.8	82.1	65.5	61.6	35.8	66.3
1918	29.1	50.2	64.8	61.2	82.2	93.3	92.2	98.7	77.2	73.6	54.8	47.9	68.8
1919	43.5	43.9	54.9	65.1	74.8	85.2	96.1	93.7	89.0	69.0	53.1	35.2	67.0
1920	41.0	45.1	60.4	59.8	74.7	87.7	91.1	85.6	83.3	73.9	49.3	43.9	66.3
1921	45.2	53.3	63.8	68.3	78.0	85.6	90.9	90.3	87.4	75.2	55.0	43.7	69.7
1922	38.6	45.4	56.4	66.8	75.2	89.4	87.6	92.7	85.6	74.3	56.2	43.4	67.6
1923	49.9	42.6	54.0	66.2	72.4	83.0	88.6	89.4	83.6	63.7	56.8	45.7	66.3
1924	35.1	46.7	46.2	70.6	72.5	85.6	89.7	92.1	76.7	75.4	60.0	34.3	65.4
1925	35.1	52.0	63.2 _a	72.7	75.7	88.9	90.8	90.6	84.2	56.4	55.3	42.3	67.3
1926	39.9	51.1	53.2	62.1	80.4	86.6	93.0	93.6	80.1	68.7	50.0	40.2 _a	66.6
1927	39.8 _a	48.2	54.2	66.9	75.5	81.3	88.2	81.5	80.8	75.2	54.0	38.6	65.4
1928	44.3	48.0	61.5	63.8	79.5	79.0	88.1	89.1	80.4	72.0	53.6	45.9	67.1
1929	30.5	33.3	59.3	68.3	70.7	84.1	90.1	90.5	80.5	70.6	47.4	44.8	64.2
1930	27.5	59.4	58.0	73.5	76.4	84.7	98.3	94.9	85.7	66.8	59.7	42.8	69.0
1931	49.6	53.6	50.1	68.3	74.4	91.5	97.5	87.5	90.7	73.9	59.2	50.9	70.6
1932	37.1	52.1	47.9	70.7	79.5	86.7	95.3	93.2	83.4	69.3	53.9	38.6	67.3
1933	53.8	46.4	57.7	68.2	78.0	100.0	95.6	91.2	87.6	72.6	61.2	51.2	72.0
1934	46.6	48.3	58.7	73.2	84.9	98.2	106.4	102.1	81.7	77.5	59.1	40.6	73.1
1935	45.2	48.6	64.3	64.4	69.2	82.0	100.5	95.0	82.3	67.5	48.9	42.0	67.5
1936	31.5	30.7	64.0	69.8	80.0	93.2	104.3	101.7	84.7	67.5	57.0	49.1	69.5
1937	31.2	40.2	50.0	66.7	79.8	88.3	97.2	98.4	86.5	70.2	51.6	39.7	66.6
1938	45.5	48.0	63.4	67.7	75.0	85.9	95.6	97.2	88.0	83.1	56.1	48.5	71.2
1939	49.9	42.8	57.5	66.6	81.4	85.6	96.9	88.3	90.1	75.5	56.3	50.5	70.1
1940	23.0	39.5	54.9	65.4	76.4	85.7	97.3	88.2	81.0	78.6	50.2	44.0	65.4
Average	39.5	43.7	56.4	68.1	76.8	87.1	93.1	91.9	83.9	71.6	55.8	42.6	67.5

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents two days, etc.

TABLE 19. Mean minimum temperature, by months and years, at Manhattan, Riley County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1892	10.4	26.2	28.4	42.5	48.7	62.7	64.1	62.7	56.4	43.5	27.5	13.7	40.8
1893	12.8	16.8	27.3	41.5	48.3	61.1	65.0	59.0	53.2	40.9	25.1	21.1	39.3
1894	14.2	13.7	32.5	44.1	50.3	60.2	62.6	63.2	56.5	43.6	27.1	24.5	41.0
1895	10.7	14.2	28.6	45.5	53.2	60.6	64.2	64.0	61.7	38.8	30.8	23.1	41.3
1896	21.4	24.5	25.4	48.8	58.6	61.5	66.9	65.5	53.9	42.0	27.6	29.0	43.8
1897	19.0	24.0	30.5	42.4	50.9	64.4	67.6	62.8	60.1	49.0	29.4	18.8	43.2
1898	22.9	24.0	31.8	42.2	53.9	67.1	66.3	66.7	59.7	42.7	26.0	17.8	43.4
1899	19.2	5.9	23.7	41.6	56.8	64.7	65.6	68.6	55.9	50.5	38.1	20.8	42.6
1900	22.5	14.3	28.2	45.8	56.8	63.2	66.5	70.0	61.0	51.2	29.6	25.0	44.5
1901	21.3	15.2	30.8	41.6	49.3	65.0	70.1	63.9	57.9	47.2b	32.0	20.9	42.9
1902	17.0	13.4	35.8	41.3	58.5	60.8	65.5	64.6	52.5	45.9	36.7	20.7	42.7
1903	21.7	17.6	31.4	42.4	54.2	56.3	66.6	63.8	53.9	43.6	32.3	18.9	41.9
1904	16.0	17.9	32.5	37.3	51.4	60.7	64.9	62.4	57.6	45.0	29.1	20.0	41.2
1905	10.1	8.8	39.4	40.8	52.5	65.2	64.0	66.2	59.7	41.1	32.3	19.8	41.7
1906	21.9	21.8	32.2	45.6	53.0	59.2	62.5	66.0	58.4	42.5	29.0	26.5	42.5
1907	22.3	18.7	39.1	32.8	46.8	59.1	67.9	65.9	56.9	41.4	28.1	24.0	41.9
1908	21.7	24.1	32.0	43.3	50.7	61.8	63.9	64.0	55.5	43.8	28.8	22.3	42.7
1909	16.6	20.7	28.4	38.3	49.4	61.7	67.5	67.6	54.2	43.4	38.1	11.5	41.4
1910	18.2	17.2	38.4	42.4	49.1	58.4	64.5	62.2	56.1	41.9	26.7	20.2	41.3
1911	21.0	24.2	31.8	37.4	55.8	64.4	67.5	62.1	61.5	43.5a	24.5	22.5	43.0
1912	8.6	18.8	22.3	43.6	55.4	56.3	67.1	65.4	53.8	42.3	30.7	21.0	40.4
1913	15.3	14.3	25.7	42.3	53.5	62.7	68.4	66.9	56.7	42.5	40.3	27.8	43.0
1914	26.3	16.0	30.4	41.8	52.4	68.4	69.1	66.1	61.0	45.9	31.1	12.3	43.4
1915	15.6	29.6	26.3	47.4	50.1	59.8	63.9a	55.9	57.8	42.6	33.8	23.4	42.2
1916	14.8	17.6	31.5	39.9	53.6	58.6	65.4	66.7	54.2	44.1	31.9	14.9	41.1
1917	20.1	16.8	29.6	41.6	45.2	59.9	66.3	59.5	54.9	35.0	33.4a	14.0	39.7
1918	5.0	18.9	34.9	37.3	58.1a	65.1	66.2	70.4	49.4	49.9	34.3	26.7	43.0
1919	18.5	24.0	32.8	43.7	50.8	62.4	67.4	63.0	58.6	43.8	27.1	15.1	42.3
1920	21.3	24.9	32.7	36.7	53.5	63.5	63.7	58.8	56.9	50.7	32.1	24.9	43.3
1921	27.8	28.2	38.4	44.1	55.5	65.4	68.4	66.8	62.7	46.5	30.7	23.6	46.5
1922	17.7	21.3	33.3	45.6	54.6	62.8	64.8	67.3	60.8	46.3	36.2	21.5	44.4
1923	26.5	18.9	27.0	42.3	51.1	65.1	67.9	65.3	59.2	43.4	33.3	26.1	43.8
1924	12.6	23.6	27.8	43.0	45.6	62.9	63.2	67.4	52.6	49.7	31.8	13.8	41.2
1925	13.2	25.8	33.9	49.3	48.6	65.6	67.3	64.1	62.6	37.7	30.1	21.1	43.3
1926	21.6	29.5	29.1	38.4	56.4	59.8	67.7	66.7	60.0	47.9a	30.1	20.5	44.0
1927	20.4	27.8	33.9	47.2	53.2	61.5	64.7	60.5	59.3	46.4	32.8	15.1	43.6
1928	22.0	25.5	34.9	39.5	51.5	57.7	67.5	64.5	53.3	46.3	33.1	27.4	43.6
1929	12.1	14.5	35.9	47.1	51.7	61.9	68.9	66.8	56.1a	45.8	28.0	21.8	42.6
1930	5.5	34.9	29.2	45.8	52.5	61.4	68.9	67.2	58.7	44.5	33.7	24.2	43.9
1931	23.1	28.6	29.4	41.9	49.1	67.1	68.6	62.8	66.1	50.6	37.1	30.0	46.2
1932	19.9	27.7	23.7	45.3	52.4	62.2	69.0	66.3	53.6	41.3	25.6	17.5	42.0
1933	25.8	15.8	32.9	41.7	52.9	67.1	68.3	65.6	62.2	42.4	34.2	25.4	44.5
1934	24.0	20.1	28.7	43.7	55.9	69.0	73.9	71.1	53.0	48.2	36.3	23.1	45.6
1935	21.3	27.3	39.4	40.6	51.2	59.9	72.8	67.7	58.4	44.7	32.5	24.0	45.0
1936	13.2	8.0	33.0	39.4	58.0	63.0	71.7	70.7	63.1	44.1	28.0	28.2	43.4
1937	12.0	21.0	29.3	42.8	54.5	63.7	68.6	70.7	58.6	43.1	29.5	21.5	42.9
1938	21.5	25.9	39.4	43.5	53.5	63.0	68.6	71.2	58.2	50.3	31.2	22.5	45.7
1939	26.7	16.7	32.4	43.1	56.9	64.5	70.6	65.2	62.5	48.1	33.4	27.5	44.0
1940	4.6	23.7	32.1	41.7	50.9	63.1	70.1	65.6	59.4	51.9	30.3	26.8	43.4
Average	17.9	20.6	31.2	42.4	52.6	62.5	67.0	65.3	57.7	44.8	31.3	21.7	42.9

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents two days, etc.

For a number of years two sets of observations were taken in Manhattan, one at the College and one in town. The College records, which were destroyed by fire in 1934, have been almost completely replaced by copies of the original records in Washington, D. C. In a few instances, when College data are not available, the mean minimum and mean maximum temperatures were calculated from the records kept in town. These may differ slightly with the means shown in Table 17.

TABLE 20. Precipitation, by months and years, at Manhattan, Riley County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1858	2.50	0.46	2.02	4.44	5.12	4.83	6.34	3.98	1.10	4.67	0.69	1.11	37.26
1859	1.50	.61	2.88	2.54	9.42	3.57	4.99	6.84	1.82	.64	1.20	.20	36.21
1860	.60	1.84	T	.12	1.13	2.69	2.09	2.85	1.35	.42	1.58	.46	15.13
1861	1.75	0	0	2.00	3.76	8.20	6.08	1.39	8.06	2.12	.70	1.00	35.06
1862	1.50	.15	T	3.63	3.18	1.37	3.83	2.85	4.15	1.62	1.70	2.25	26.23
1863	.67	2.85	0	9.12	3.13	5.94	4.53	6.21	.73	2.40	2.23	2.17	39.98
1864	.44	1.10	2.12	1.68	2.29	2.06	3.02	1.84	2.30	0.68	1.61	1.11	20.25
1865	.83	2.21	2.27	2.03	2.04	7.98	6.42	5.04	1.33	2.92	0	.47	33.04
1866	1.70	0	0	.77	2.83	3.60	3.27	.10	6.23	.43	1.37	2.02	22.32
1867	.63	2.01	.63	2.44	3.59	5.65	5.42	.70	3.49	.91	.49	.51	26.47
1868	.81	.18	.93	1.96	1.38	3.48	4.70	5.94	5.72	2.51	2.17	.81	30.09
1869	1.15	1.22	1.06	2.20	1.12	8.85	6.27	2.43	1.83	4.33	1.19	.52	28.27
1870	.05	T	1.45	.50	.91	.79	2.98	5.21	4.87	5.06	.13	.45	22.10
1871	.63	2.48	1.02	3.00	5.07	2.60	5.69	4.25	1.92	1.14	1.95	.35	30.00
1872	.13	.48	.92	2.06	6.81	1.78	9.52	6.15	5.70	2.76	T	.95	37.26
1873	.87	.30	.71	1.67	8.54	7.78	2.84	1.64	1.85	.42	.82	1.67	29.11
1874	.50	1.57	.30	1.40	2.98	4.31	.18	.25	4.63	.22	2.12	.67	19.03
1875	.22	.87	1.11	1.60	2.64	2.06	3.23	1.40	2.85	1.04	.34	.78	18.14
1876	.12	.11	4.24	7.14	6.05	4.60	5.65	8.76	3.11	1.61	1.75	.50	43.64
1877	.46	.91	2.70	4.08	7.90	6.76	4.16	2.78	1.52	9.07	1.90	1.55	43.79
1878	2.35	1.44	1.77	2.02	4.04	5.02	12.71	2.66	3.22	1.06	1.90	.91	39.10
1879	0	.75	.02	3.21	1.79	8.48	4.91	1.61	4.30	2.63	7.83	.62	36.15
1880	.56	.05	.50	1.08	3.74	3.92	3.78	8.51	2.52	2.20	1.97	.28	29.11
1881	.50	2.75	.75	1.56	6.67	3.38	1.32	.43	4.92	4.27	1.86	.53	28.94
1882	.42	.42	.80	3.47	4.83	3.08	7.73	.87	1.20	3.54	.95	.44	27.75
1883	.25	1.75	1.05	2.36	4.88	9.58	4.15	2.61	1.71	7.40	.20	.45	36.34
1884	.30	.52	2.36	3.45	5.13	4.12	6.33	5.02	5.64	2.58	1.07	.33	36.85
1885	.25	.50	1.98	4.08	4.30	1.67	4.99	.89	4.38	1.72	.19	.55	25.50
1886	2.50	.25	1.55	4.76	5.25	5.40	2.84	2.06	1.14	2.42	1.24	1.39	30.80
1887	.68	1.15	.42	2.85	2.54	4.57	.90	6.60	6.33	2.23	.40	1.58	30.25
1888	.65	2.67	2.48	1.38	2.28	5.22	4.16	4.46	2.95	2.87	.94	1.21	31.27
1889	.78	.54	1.99	1.74	6.15	3.56	8.14	2.48	1.92	1.42	2.23	.02	30.97
1890	2.31	.24	.13	1.74	1.81	1.85	2.89	5.73	3.24	1.99	.91	.18	23.02
1891	1.63	.84	2.24	.53	4.79	7.45	5.51	.98	1.46	2.45	.26	1.09	29.23
1892	.78	2.95	4.60	2.91	6.62	.32	3.88	4.32	.86	1.32	.65	1.75	30.46
1893	.02	.89	.99	1.28	5.73	6.26	4.29	2.92	2.45	.71	.81	.70	27.05
1894	.71	1.10	.67	1.33	3.78	5.05	2.27	.48	3.34	1.68	1.10	.38	20.89
1895	.69	1.39	1.20	1.46	3.02	5.43	6.51	10.74	1.02	.53	1.17	.59	33.75
1896	.31	.56	.87	5.49	7.41	2.63	5.39	2.26	5.06	5.13	.91	.26	36.28
1897	1.32	1.20	2.19	4.19	2.30	4.97	3.44	.87	.53	2.02	.54	1.28	24.85
1898	.91	1.37	1.34	4.49	8.54	4.99	2.48	1.78	2.92	1.93	1.43	1.33	33.51
1899	.15	.86	3.31	.93	4.60	7.50	6.66	2.44	1.75	1.89	4.48	1.13	31.70
1900	.12	2.97	.49	3.13	4.06	1.19	4.51	2.84	5.37	2.22	1.01	.41	28.32
1901	.38	1.20	1.78	3.82	1.73	2.29	1.66	2.65	3.89	1.97	1.04	.28	22.69
1902	1.04	.48	1.09	.80	6.93	8.33	7.10	12.35	3.45	2.19	2.41	1.18	47.35
1903	.65	1.85	1.30	3.05	12.97	1.61	3.80	6.17	2.98	3.90	1.51	.40	40.19
1904	.65	.10	2.15	4.66	5.67	6.31	6.65	1.89	4.11	.99	.35	.58	34.11
1905	1.17	1.73	2.45	1.90	6.01	3.89	4.95	1.50	4.32	2.19	3.60	T	33.71
1906	.89	1.60	2.12	2.66	2.00	6.73	5.28	6.37	4.62	.83	2.21	.64	35.95
1907	1.59	1.61	1.37	1.35	1.05	5.12	6.46	1.94	3.11	2.63	1.12	1.12	28.47
1908	.15	1.61	.40	2.93	9.32	10.18	5.66	9.53	.62	1.82	1.47	.37	44.06
1909	.22	1.27	3.40	2.07	4.41	5.00	9.57	.59	5.21	1.60	7.98	2.19	43.51
1910	1.46	.30	.01	.51	8.71	1.84	5.83	10.70	2.79	.90	.20	.56	33.81
1911	.61	5.78	.85	1.89	2.18	.10	2.13	5.53	4.49	1.55	1.05	2.37	28.53
1912	.30	2.47	6.49	1.40	1.93	3.53	3.23	3.38	3.50	3.37	.05	.41	30.06
1913	.75	2.25	.56	2.96	7.18	1.55	.17	.65	5.69	2.61	1.92	3.84	30.13
1914	.10	1.41	2.01	1.19	2.33	4.58	2.40	3.56	5.76	1.58	T	1.39	26.31
1915	2.60	4.50	2.14	2.04	9.45	6.69	12.01	3.07	3.92	2.71	.93	.76	50.82
1916	1.47	.25	1.42	2.17	6.40	7.43	1.92	.76	8.12	2.65	3.42	1.21	37.22
1917	.30	.05	.72	4.69	5.04	4.80	.68	6.92	1.63	1.06	.10	1.15	26.04
1918	.65	.52	.76	4.60	5.17	1.56	1.98	3.43	2.35	4.87	1.55	2.40	29.84
1919	.26	1.24	5.03	3.40	3.15	4.66	1.45	1.40	2.65	.68	2.62	.08	26.62
1920	.12	.57	.61	4.17	1.75	2.24	4.83	6.76	4.39	.90	2.20	1.35	29.89

TABLE 20. (Concluded)

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1921	1.08	.36	.16	2.95	3.32	6.25	4.21	4.65	3.17	1.38	T	.34	27.87
1922	.35	1.30	3.96	5.13	3.70	3.52	6.08	.10	4.95	2.14	5.86	.18	37.27
1923	.01	.36	1.69	2.67	3.07	6.64	8.31	1.83	1.00	2.76	1.08	.26	29.68
1924	.54	1.01	1.57	1.15	2.60	3.02	3.75	10.25	3.36	.65	.29	1.02	29.21
1925	.15	.29	1.06	4.13	1.48	6.57	3.18	3.95	7.11	2.42	1.16	.07	31.57
1926	1.15	1.02	1.12	1.73	1.55	1.74	2.21	1.60	7.55	4.40	1.65	1.01	26.73
1927	.33	1.39	3.88	5.48	1.67	7.59	3.42	6.65	4.00	2.31	.09	.64	37.45
1928	T	1.58	1.06	1.77	2.21	4.99	7.38	5.29	2.19	1.33	5.79	.60	34.19
1929	1.95	.82	.94	5.49	3.35	7.96	3.05	2.51	1.39	5.07	1.10	T	33.63
1930	.85	.37	.52	6.72	5.23	6.39	.57	4.99	2.43	2.86	3.14	.11	34.18
1931	.12	1.18	1.64	2.79	3.28	2.80	1.52	10.52	7.21	2.04	5.12	.53	38.75
1932	1.03	.83	.40	1.91	2.67	4.88	1.91	4.11	4.03	.60	.24	1.32	23.93
1933	.12	.08	1.82	2.86	1.57	.69	4.68	4.07	4.13	1.03	.20	.69	21.94
1934	.62	.94	.31	.52	4.17	1.89	.85	.80	4.66	.63	3.79	.20	19.38
1935	.21	1.12	.21	1.05	7.62	6.79	.04	8.79	5.34	3.41	2.54	.59	37.71
1936	1.03	.30	.19	1.40	5.78	.75	1.78	2.19	7.55	2.29	.02	1.26	24.54
1937	1.76	.91	1.75	.54	2.42	3.39	4.39	2.05	1.52	2.15	.67	.26	21.81
1938	.18	.75	2.52	1.11	7.99	3.27	4.54	4.43	.79	.42	2.56	.31	28.87
1939	.42	.90	2.34	2.73	2.34	7.30	2.06	6.24	.78	1.29	1.80	.53	28.73
1940	.88	1.47	.64	3.24	3.95	4.06	.38	4.72	3.09	1.44	2.75	1.05	27.67
Average	.75	1.14	1.48	2.67	4.31	4.50	4.25	3.89	3.44	2.16	1.55	.83	30.97

TABLE 21. Snowfall, by months and years, at Manhattan, Riley County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1858	0	4.5	T	0.1	0				0	0	1.4	11.1	17.1
1859	5.8	2.0	3.4	0	0				0	0	2.6	2.0	15.8
1860	6.0	†	0	0	0				0	0	4.2	4.0	†
1861	15.0	T	†	0	0				0	0	0	7.5	†
1862	15.0	1.2	T	0	0				0	T	1.5	17.7	17.7
1863	8.0	5.5	0	0	0				0	1.8	2.5	8.0	25.8
1864	1.1	0	6.2	T	0				0	0	3.0	0.7	11.0
1865	3.3	4.0	2.0	T	T				0	†	0	†	†
1866	†	0	0	†	0				0	0	0	9.2	†
1867	7.5	T	3.0	0	0				0	0	3.0	T	13.5
1868	3.1	1.1	T	0	0				0	0	5.5	5.0	14.7
1869	0.2	5.0	2.0	0.5	0				0	0	T	4.2	12.3
1870	0.5	T	4.4	T	0				0	0.4	0	4.2	9.1
1871	5.3	0.5	T	T	0				0	T	2.0	3.0	10.8
1872	1.1	2.3	2.0	0	0				0	0	T	9.0	14.4
1873	3.2	3.0	0	0	0				0	T	0	5.0	16.2
1874	3.2	13.3	3.0	0	0				0	0	11.5	4.0	35.5
1875	1.2	5.2	3.0	0	0				†	†	†	†	†
1876	1.1	0	17.5	0	0				0	0	1.0	3.0	22.6
1877	0.2	0.5	4.0	0	0				0	0	2.5	0	7.2
1878	9.0	1.0	0	0	0				0	1.0	2.0	9.8	22.8
1879	0	0	0	0	0				0	0	2.0	0.2	2.2
1880	5.6	0.5	1.5	0	0				0	0	1.7	3.0	12.3
1881	3.5	14.0	9.0	T	0				0	0	0.2	0.5	27.2
1882	4.0	2.0	7.0	0	0				0	0	1.0	1.0	14.0
1883	4.5	1.0	0	0	0				0	T	0	0.5	6.0
1884	3.0	4.0	1.0	0	0				0	0	1.0	3.8	12.8
1885	4.5	5.5	1.2	0	0				0	0	T	3.5	14.7
1886	8.5	1.0	6.5	5.0	0				0	0	0.5	0.5	22.0
1887	6.8	16.5	3.9	0	0				0	0	1.1	0.5	28.8
1888	†	0.3	3.7	0	0				0	†	2.5	11.0	†
1889	3.2	4.2	0	0	0				0	0	0.8	0	8.2
1890	10.5	2.1	0.4	0	0				0	0	0	2.0	15.0
1891	10.0	2.0	12.0	0	0				0	0	1.0	4.4	29.4
1892	5.1	0	4.7	0	0				0	0	1.0	13.8	24.6
1893	0.2	6.5	2.0	0	0				0	0	0	5.5	14.2
1894	1.2	10.0	0	0	0				0	0	T	0.2	11.4
1895	8.1	2.0	6.8	0	0				0	0	T	4.0	18.9
1896	2.2	4.0	4.6	0	0				0	0	T	†	10.8
1897	7.8	11.9	5.3	0	0				0	0	0	10.0	35.0
1898	6.0	0.2	0.2	0	0				0	2.0	9.0	3.5	20.9
1899	1.3	5.7	12.4	1.4	0				0	0	0	2.0	22.8
1900	0	24.8	0	0	0				0	0	1.5	0.3	26.6
1901	3.3	20.8	7.5	4.5	0				0	0	0	1.1	37.2
1902	7.5	4.9	0.3	0	0				0	0	T	8.0	20.7
1903	4.5	9.0	4.0	5.0	0				0	0	T	1.0	25.5
1904	3.0	T	2.0	4.0	0				0	0	0	3.5	12.5
1905	10.7	15.1	0.1	0	0				0	1.0	T	T	26.9
1906	3.5	T	10.0	0	0				0	0	T	2.6	16.1
1907	0.6	4.0	T	2.0	1.5				0	0	T	5.0	13.1
1908	0.5	0.5	0	0	0				0	0	T	0	1.0
1909	2.0	2.0	12.0	0	0				0	0	T	8.1	24.1
1910	6.5	T	0	0	0				0	0	T	2.5	9.0
1911	1.1	9.0	T	0	0				0	T	0.4	5.3	15.8
1912	1.4	15.3	12.3	0	0				0	T	0	T	29.0
1913	7.5	16.0	1.5	0	0				0	T	0	2.5	27.5
1914	0.7	11.2	2.0	0	0				0	0	0	12.4	26.3
1915	16.8	12.0	15.0	0	0				0	0	T	4.5	48.3
1916	6.5	2.5	3.0	3.0	0				0	2.0	T	4.4	21.4
1917	1.0	0.5	0.4	T	0				0	0.8	T	1.5	4.2
1918	6.7	T	0	8.0	0				0	0	5.0	10.5	30.2
1919	2.9	4.4	1.0	0	0				0	0	2.8	0.5	11.6
1920	2.7	0.2	T	12.0	0				0	0	T	T	14.9

TABLE 21. (Concluded)

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1921	5.5	T	T	4.0	0	.....	.....	.....	0	0	T	5.8	15.3
1922	1.2	1.0	5.0	0	0	.....	.....	.....	0	0	0	0	7.2
1923	T	2.5	2.4	1.2	0	.....	.....	.....	0	0	1.0	0.8	7.9
1924	3.8	2.8	14.5	0	0	.....	.....	.....	0	0	T	5.5	26.6
1925	4.5	0.8	0.5	0	0	.....	.....	.....	0	0.2	3.0	1.2	10.2
1926	8.8	8.0	2.6	11.0	0	.....	.....	.....	0	0	T	1.8	32.2
1927	3.5	1.0	2.0	0	0	.....	.....	.....	0	0	1.2	3.1	10.8
1928	T	T	2.5	0	0	.....	.....	.....	0	T	0.5	0.2	3.2
1929	8.6	6.2	T	0	0	.....	.....	.....	0	0	1.2	T	16.0
1930	8.1	0.4	0.1	0	0	.....	.....	.....	0	T	T	0.7	9.3
1931	T	0	8.4	0	0	.....	.....	.....	0	0	1.0	0.6	10.0
1932	5.0	1.7	3.5	0	0	.....	.....	.....	0	0	0.3	3.5	14.0
1933	0	1.2	1.0	0	0	.....	.....	.....	0	0	T	T	2.2
1934	T	8.2	0.7	0	0	.....	.....	.....	0	0	0.5	1.0	10.4
1935	0.1	1.1	0.7	0	0	.....	.....	.....	0	0	2.6	1.0	5.5
1936	10.2	2.8	0	1.1	0	.....	.....	.....	0	0	0	0	14.1
1937	0.5	9.9	2.8	0	0	.....	.....	.....	0	0	2.6	1.0	16.8
1938	T	1.4	0	4.0	0	.....	.....	.....	0	0	0.2	0.2	5.8
1939	3.8	5.8	1.5	T	0	.....	.....	.....	0	0	0	4.1	15.2
1940	8.7	8.1	2.3	T	0	.....	.....	.....	0	0	1.2	7.5	27.8
Average	4.3	4.4	3.1	0.8	T	.....	.....	.....	0	0.1	1.1	3.3	17.1

† Data missing.

TABLE 22. Meteorological summary for Manhattan, Riley County ‡

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
TEMPERATURE													
Mean.....	27.0	31.5	42.5	54.5	64.6	74.5	79.5	77.5	69.3	56.5	42.0	31.2	54.2
Mean maximum.....	37.2	42.4	54.5	66.7	76.1	86.2	91.9	90.2	81.8	69.3	53.6	41.0	65.9
Mean minimum.....	16.8	20.6	30.5	42.3	53.1	62.8	67.1	64.8	56.8	43.7	30.4	21.4	42.5
Highest..... and date.....	74 ^a 16-1894	82 24-1930	95 ^b 28-1895	99 29-1910	103 ^c 30-1934	112 25-1911	115 ^d 9-1860	116 13-1936	109 13-1893	98 3-1938	96 2-1867	87 31-1885	116 8-13-1936
Lowest..... and date.....	-26 ^e 15-1888	-32 12-1899	-9 14-1867	5 5-1920	23 4-1907	37 3-1876	45 3-1924	40 ^f 24-1891	25 30-1876	11 23-1863	-9 1-1887	-16 ^g 8-1858	-32 2-12-1899
PRECIPITATION													
Average.....	0.75	1.14	1.48	2.67	4.31	4.50	4.25	3.89	3.44	2.16	1.55	0.83	30.97
Greatest monthly..... and year.....	2.60 1915	5.78 1911	6.49 1912	9.12 1863	12.97 1903	10.18 1908	12.71 1878	12.35 1902	8.12 1916	9.07 1877	7.98 1909	3.84 1913	12.97 5-1903
Least monthly..... and year.....	0 1879	0 ^h 1861	0 ⁱ 1861	0.12 1860	0.91 1870	0.10 ^j 1911	0.04 1935	0.10 1866	0.36 1892	0.22 1874	0 1865	T ^k 1905	0
Greatest recorded amount..... and date.....	1.25 16-1915	2.27 19-1888	2.85 31-1927	2.91 19-1929	3.77 7-1930	4.75 23-1906	6.10 24-1878	5.91 20-1895	4.64 1-1931	3.15 30-1870	4.79 11-1879	2.00 25-1862	6.10 7-24-1878
Average snowfall.....	4.3	4.4	3.1	0.8	T	0	0	0	0	0.1	1.1	3.3	17.1

a—Also 2/1939.
b—Also 25/1907.
c—Also 31/1934.
d—Also 14, 15/1934, 24/1936.

e—Also 19/1892.
f—Also 28/1916.
g—Also 11/1868, 10/1919.
h—Also in 1866.

i—Also in 1863, 1866.
j—Also in 1922.
k—Also in 1929.

‡ These data are compiled from all available records, the earliest being for October, 1856.

TABLE 23. Amount of evaporation (inches) and wind movement (miles), by months, at Manhattan, Riley County †

Year	Data	April	May	June	July	Aug.	Sept.	Oct.
1925	Evaporation		7.575	9.885	9.959	8.714	7.530	2.900
	Wind movement		2,240	2,330	1,990	1,822	2,518	3,195
1926	Evaporation	4.605	8.544	9.451	11.613	10.042	6.729	3.788
	Wind movement	‡	2,750	2,650	2,830	2,335	3,260	2,335
1927	Evaporation	4.497	6.710	7.224	7.850	5.589	5.613	4.251
	Wind movement	3.197	2,625	2,098	986	953	1,214	1,673
1928	Evaporation	6.357	7.120	5.619	7.529	7.093	4.942	3.333
	Wind movement	4.084	2,065	1,694	1,214	863	828	1,431
1929	Evaporation	5.503	4.436	9.823	8.674	8.192	5.823	.....
	Wind movement	3.652	2,013	1,659	1,553	1,568	2,059	.....
Data for 1930 to 1937, inclusive, missing.								
1938	Evaporation	6.627	6.886	7.969	12.673	*13.879	8.477	9.149
	Wind movement	5.189	3,147	2,190	2,441	3,390	2,417	3,046
1939	Evaporation	6.646	10.329	*10.852	14.010	8.481	12.516	8.069
	Wind movement	4,349	2,860	2,815	2,789	2,013	3,368	3,504
1940	Evaporation	7.862	8.318	*10.247	15.228	9.739	*6.685	6.392
	Wind movement	4,640	2,641	2,359	2,932	2,268	1,687	2,212
Average	Evaporation	6.014	7.490	8.884	10.942	8.966	7.289	5.412
	Wind movement	4,185	2,543	2,224	2,092	1,902	2,169	2,485

* Adjusted to complete month.

‡ Not a full month's record.

† The evaporation apparatus is composed of a galvanized tank 10 inches deep and 48 inches in diameter, mounted on a platform 4 inches above the ground. The tank is kept filled with water to a depth of approximately 8 inches. The apparatus for determining wind movement consists of a 3-cup anemometer, mounted 8 inches above the rim of the tank.

KANSAS WEATHER AND CLIMATE

TABLE 24. Mean temperature, by months and years, at Topeka, Shawnee County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	.....	.....	.....	.....	.....	75.0	79.4	74.5	68.4	52.8	42.2	28.2	.....
1888	17.0	33.5	37.2	56.7	60.0	72.0	79.0	73.4	65.8	53.9	38.8	33.8	51.8
1889	28.7	26.8	44.9	54.8	63.0	69.2	75.0	72.2	63.2	52.9	37.4	45.1	52.8
1890	25.8	32.5	37.8	56.0	62.5	75.8	80.9	74.8	64.0	55.6	44.6	36.5	53.9
1891	31.4	29.8	35.0	56.8	60.7	71.2	72.0	73.0	70.7	55.8	39.5	38.8	52.9
1892	24.0	37.2	38.5	52.5	59.6	74.8	76.8	76.0	70.5	59.3	41.7	26.4	53.1
1893	24.2	28.8	41.3	55.8	62.0	73.3	78.8	73.4	71.2	58.7	42.6	36.6	53.9
1894	29.8	28.1	48.6	58.5	65.6	74.8	76.9	78.6	69.9	59.9	43.4	38.0	56.0
1895	25.5	26.5	43.9	60.3	66.6	73.3	75.0	75.8	73.1	53.8	42.8	33.4	54.2
1896	32.4	37.4	39.6	62.8	69.8	73.0	78.2	78.1	65.4	55.8	40.2	41.0	56.1
1897	28.4	33.1	43.4	55.0	64.1	75.0	79.8	74.8	75.3	63.0	43.5	28.2	55.4
1898	31.7	35.9	43.8	53.0	63.4	75.6	76.7	77.6	71.3	53.6	39.4	27.5	54.1
1899	30.6	18.9	34.6	53.6	67.8	73.9	76.0	79.5	67.8	63.0	49.8	30.3	53.8
1900	34.1	25.0	41.0	57.4	66.3	74.2	77.3	80.3	70.6	62.8	41.6	35.7	55.5
1901	33.3	26.3	42.2	53.4	63.5	78.0	86.6	78.6	68.4	60.8	44.2	28.7	55.3
1902	30.3	22.2	45.2	53.9	68.9	69.8	77.0	76.2	63.0	59.6	47.1	27.9	53.4
1903	31.2	27.8	44.0	55.1	63.5	68.2	77.6	74.2	66.0	57.0	40.8	31.9	53.1
1904	26.6	28.6	43.4	49.1	62.2	71.0	75.0	74.4	70.6	59.0	47.0	31.8	53.2
1905	20.0	20.4	51.0	54.0	64.0	75.6	74.1	78.4	70.6	54.6	45.8	33.7	53.5
1906	34.2	35.1	32.0	59.4	65.6	73.0	74.8	76.8	71.2	55.6	41.1	35.4	54.5
1907	30.0	32.6	51.7	47.2	58.6	71.7	78.7	77.2	68.6	56.8	43.1	35.8	54.3
1908	34.0	35.2	48.2	55.9	63.4	71.8	76.0	75.8	70.6	55.0	45.2	36.2	55.6
1909	28.2	35.6	41.5	52.1	63.2	73.8	78.0	79.8	68.8	56.6	49.8	21.2	54.0
1910	28.8	28.2	57.2	56.8	59.2	71.6	79.4	74.6	69.0	60.0	43.4	31.4	55.0
1911	32.5	35.6	46.3	53.6	65.1	80.8	78.8	77.2	73.6	55.0	38.5	34.0	56.2
1912	17.4	28.6	31.6	55.1	68.4	70.0	79.9	78.6	66.9	58.5	44.5	36.2	53.1
1913	28.8	26.8	38.6	57.0	65.8	74.4	81.8	85.0	68.8	53.6	50.0	36.0	55.6
1914	35.8	27.2	43.0	54.4	65.2	78.2	80.2	77.6	70.9	58.6	49.0	22.8	55.2
1915	27.8	37.0	33.6	61.0	61.5	69.8	74.0	69.8	69.0	60.0	49.2	34.0	53.9
1916	24.8	29.4	45.9	52.0	64.9	70.2	81.9	79.9	68.2	57.4	45.3	28.6	54.1
1917	31.2	29.6	44.0	51.9	57.9	72.6	80.4	72.8	68.1	49.7	47.6	23.8	52.5
1918	17.2	33.8	49.8	49.4	69.1	79.4	78.0	83.4	63.2	60.6	44.0	37.6	55.5
1919	32.6	33.4	44.2	53.4	62.6	74.0	81.6	76.8	72.1	55.0	40.3	25.3	54.3
1920	30.0	33.8	45.6	47.8	63.1	73.0	76.8	72.6	69.8	60.8	40.4	34.8	54.0
1921	36.6	39.8	49.6	55.3	66.2	76.2	79.8	77.6	73.4	60.2	43.8	34.4	57.7
1922	28.8	32.8	44.2	55.8	66.0	76.4	76.4	79.2	72.0	59.6	47.0	32.8	55.9
1923	38.6	30.4	39.4	54.2	62.1	74.0	79.0	78.9	69.8	52.8	45.7	37.7	55.0
1924	24.6	34.6	37.4	56.2	58.8	73.0	75.2	78.0	64.4	62.2	46.2	24.4	52.9
1925	26.5	37.7	46.6	60.3	62.2	76.8	78.6	78.0	74.3	47.2	43.1	31.8	55.3
1926	31.2	39.3	40.3	49.5	67.6	72.3	79.0	79.1	68.1	57.7	40.0	31.0	54.6
1927	30.6	38.6	44.2	57.2	64.4	70.7	76.6	70.9	70.4	61.9	44.6	27.0	54.8
1928	33.4	36.5	47.8	51.6	66.9	68.8	78.3	77.4	66.8	60.0	44.0	36.6	55.7
1929	21.0	23.4	48.0	57.2	61.2	72.4	79.0	78.4	67.6	58.6	37.5	33.9	53.2
1930	16.8	46.6	43.2	60.1	63.8	72.4	82.4	80.0	71.6	55.5	46.2	34.1	56.1
1931	37.2	41.2	39.4	54.5	61.0	78.2	80.7	74.8	77.2	61.4	49.1	41.0	58.0
1932	30.3	41.6	35.8	57.3	66.0	75.5	80.8	78.6	68.0	54.6	39.1	29.0	54.7
1933	41.4	31.2	44.2	55.6	65.3	81.8	81.2	76.2	74.4	57.0	46.6	38.4	57.8
1934	35.1	34.4	42.2	57.6	70.4	82.4	88.1	83.6	65.0	62.9	47.7	31.0	58.4
1935	32.2	36.7	51.0	52.4	59.4	71.2	87.0	80.0	69.1	56.2	40.8	32.2	55.7
1936	21.2	19.4	49.0	54.4	69.8	78.4	88.4	87.4	73.2	56.0	43.1	37.8	56.5
1937	22.2	30.4	39.4	54.4	67.8	76.2	82.6	84.3	72.0	57.3	40.1	30.7	54.8
1938	32.1	37.2	51.6	56.3	64.8	74.8	82.2	83.9	72.8	66.2	44.0	36.4	58.5
1939	38.5	28.8	45.6	54.2	70.6	76.2	85.8	77.8	77.0	62.2	44.9	39.7	58.4
1940	13.8	31.8	43.2	54.3	64.4	75.2	82.6	76.4	70.2	65.2	40.0	36.2	54.4
Average	28.9	31.9	43.2	55.0	64.3	74.1	79.2	77.4	69.7	57.8	43.7	33.0	54.9

TABLE 25. *Precipitation, by months and years, at Topeka, Shawnee County*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1878	2.80	2.60	2.50	3.70	5.50	5.80	4.30	2.70	3.00	0.59	1.24	1.66	36.39
1879	1.10	.50	.15	5.17	3.55	5.90	3.92	.51	1.85	2.45	7.21	2.15	34.46
1880	1.05	.68	1.76	1.40	3.58	5.83	3.09	9.11	3.59	3.03	1.76	.35	35.23
1881	.60	3.30	1.34	1.08	3.81	5.84	.85	.72	2.74	4.65	1.70	.40	27.03
1882	.57	.62	1.19	3.43	4.49	3.88	4.02	.54	.70	3.02	1.37	.70	24.53
1883	.50	3.10	.81	1.60	6.43	7.05	6.52	4.17	.88	6.14	.83	.25	38.28
1884	.65	2.88	3.19	4.38	3.51	5.18	5.37	5.36	6.88	2.37	1.23	1.62	42.62
1885	1.34	1.82	1.02	5.20	4.22	2.37	3.41	4.83	4.53	2.40	.86	.95	32.95
1886	1.36	.42	1.84	1.74	3.00	4.03	1.31	3.03	1.82	2.71	.65	.83	22.74
1887	1.87	1.72	1.31	2.53	2.03	9.57	1.06	5.39	4.67	3.39	1.21	.89	35.64
1888	.72	1.43	3.21	1.36	.87	9.14	3.00	7.23	.57	2.39	2.91	1.13	33.96
1889	.63	1.84	2.03	2.89	6.08	3.08	8.11	6.48	4.28	1.34	2.15	.05	38.96
1890	2.54	.44	.35	1.89	3.50	1.60	2.30	5.60	4.65	2.62	1.57	.91	27.97
1891	2.58	1.91	2.49	3.72	6.86	10.50	8.06	2.31	1.00	1.58	.64	1.63	43.28
1892	1.21	3.33	4.53	2.17	14.10	.73	6.37	4.14	.90	1.46	.60	1.92	41.46
1893	.06	1.61	2.12	2.21	6.54	5.40	6.17	2.82	3.90	.25	1.30	.35	32.73
1894	.72	1.34	1.16	2.94	1.91	7.05	2.68	.42	3.55	2.04	.35	.45	24.61
1895	.67	.68	1.27	.93	3.74	2.79	9.23	6.20	2.61	.44	1.00	.77	31.23
1896	.41	.60	.62	4.00	9.30	3.19	5.54	5.60	2.61	3.34	1.04	.31	36.56
1897	1.45	1.46	2.32	2.44	2.43	7.82	3.89	2.81	1.16	1.37	.56	1.15	28.86
1898	2.18	1.78	4.21	5.27	6.10	2.65	2.63	3.81	4.98	3.00	1.13	1.48	39.22
1899	.39	1.22	3.14	2.41	4.28	4.21	6.40	2.05	1.57	.76	.34	.92	27.69
1900	.09	3.58	.83	2.33	3.56	2.54	4.60	2.07	7.47	2.97	.56	.21	30.81
1901	.13	1.87	1.78	3.55	.54	1.90	4.10	1.67	6.02	2.83	.65	.94	25.98
1902	1.66	.51	1.62	.76	4.43	4.64	3.87	6.01	3.56	2.26	2.13	1.26	32.61
1903	.44	1.14	1.27	3.08	8.63	4.91	3.74	12.69	2.74	3.50	1.09	.91	44.14
1904	.92	.16	2.62	4.70	6.96	3.88	6.37	2.99	4.35	.22	.17	.50	33.84
1905	.98	1.74	4.75	1.57	5.30	2.81	6.53	1.71	9.40	1.28	1.80	.20	38.07
1906	.63	1.03	2.30	2.13	1.00	2.07	2.56	7.67	1.31	.33	2.83	.63	24.49
1907	3.08	1.47	1.81	.83	1.87	4.89	4.25	3.14	1.87	2.54	1.14	.60	27.49
1908	.09	2.40	.68	2.05	9.07	9.80	3.91	7.76	.19	4.23	2.83	.19	43.20
1909	.44	1.06	2.01	1.61	4.93	3.56	11.60	.77	11.48	1.35	5.98	2.17	46.96
1910	2.42	.87	.06	.66	7.52	1.78	2.80	8.00	5.63	1.57	.25	1.03	32.57
1911	.54	5.59	.75	2.39	1.91	.55	3.91	4.44	4.45	.81	.96	2.41	28.71
1912	.14	1.58	3.29	1.11	3.31	3.88	2.31	3.03	3.98	7.05	1.92	.32	31.92
1913	.50	2.75	1.34	2.73	4.46	3.38	1.57	1.56	5.98	6.16	1.31	3.56	35.30
1914	.07	1.40	2.00	1.30	1.60	8.50	2.27	2.04	6.61	3.05	.08	1.08	30.00
1915	1.23	2.48	1.69	3.10	9.23	9.10	7.86	2.19	5.00	.76	.43	1.34	44.41
1916	2.69	.31	2.55	2.26	4.95	5.97	.32	.78	2.03	3.14	2.65	.70	28.35
1917	.31	T	1.04	4.35	4.30	3.04	.57	5.58	5.38	1.15	.05	.19	25.96
1918	.51	1.28	.86	3.64	7.14	2.18	2.65	3.24	4.05	3.95	3.51	2.37	35.38
1919	.06	2.13	5.73	4.09	2.68	3.93	.48	3.06	2.50	1.13	2.19	.07	28.05
1920	.24	.17	3.28	4.44	2.23	3.43	6.63	4.98	4.02	2.19	2.05	1.41	35.07
1921	1.55	.23	3.04	2.35	3.71	6.62	4.09	9.73	5.13	.73	.01	.28	37.47
1922	.34	2.48	4.27	5.23	3.93	1.35	8.04	.43	5.51	1.69	4.83	.06	38.16
1923	.07	.24	2.19	2.20	5.02	5.62	2.89	4.78	2.43	2.92	.81	.55	29.72
1924	.61	.94	2.28	1.80	2.11	1.97	5.30	6.93	4.15	.66	.88	2.16	29.79
1925	.28	.55	1.15	4.40	1.92	6.05	3.44	.87	3.57	3.28	1.12	.19	26.82
1926	1.12	1.39	2.06	2.71	3.01	2.49	2.42	3.27	6.40	4.90	1.42	.97	32.16
1927	.73	.76	5.31	5.10	2.69	8.19	6.23	6.80	3.44	3.05	.72	.78	43.80
1928	.02	2.43	.53	2.69	2.46	5.11	2.75	4.91	2.51	1.47	6.08	1.24	32.20
1929	2.42	1.26	2.01	5.26	5.96	3.18	1.70	2.64	1.49	5.96	.56	.37	32.81
1930	.91	.60	.55	4.52	3.89	4.73	1.57	2.88	5.85	5.07	2.95	.37	33.89
1931	.55	1.34	1.94	2.49	2.03	2.85	3.41	6.48	4.59	2.55	7.07	1.48	36.78
1932	.88	.56	1.31	2.58	2.59	4.46	2.89	7.82	1.89	1.00	.60	1.78	28.36
1933	.17	.49	2.01	3.82	2.55	2.25	2.47	3.50	2.30	.61	.58	1.49	22.24
1934	.29	.95	.76	1.49	6.47	3.00	2.87	1.71	4.94	1.91	2.65	.26	27.30
1935	.85	1.09	.32	2.09	11.08	5.05	.03	3.98	5.45	4.38	2.57	.42	37.31
1936	1.73	.42	.25	3.02	4.79	.92	1.11	.57	7.32	.86	.09	1.55	22.63
1937	1.82	.61	2.05	1.76	3.12	1.14	1.65	3.35	.43	1.40	1.34	.76	19.43
1938	1.14	.92	2.20	2.01	11.16	2.58	3.97	2.15	.37	.35	1.92	.24	29.01
1939	.70	1.52	1.27	3.72	1.33	5.63	1.26	3.51	.40	.83	1.42	.74	22.33
1940	1.32	1.00	1.38	3.58	4.01	2.76	.08	6.40	1.20	2.09	3.34	1.31	28.47
Average	.95	1.41	1.93	2.82	4.53	4.39	3.80	4.03	3.65	2.37	1.70	.97	32.55

TABLE 26. Snowfall, by months and years, at Topeka, Shawnee County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	†	†	†	†	†	.....	.....	.....	0	0	1.8	1.2	†
1888	2.3	1.6	4.0	0	0	.....	.....	.....	0	0	9.8	6.8	24.5
1889	0.2	7.2	1.3	0	0	.....	.....	.....	0	0	0.6	0	9.3
1890	7.8	2.9	1.0	0	0	.....	.....	.....	0	0	0	5.0	16.7
1891	13.0	2.4	6.9	0	0	.....	.....	.....	0	0	1.0	4.5	27.8
1892	6.1	0	1.5	0	0	.....	.....	.....	0	0	T	12.9	20.5
1893	0.5	14.6	6.0	0	0	.....	.....	.....	0	0	T	2.0	23.1
1894	0.5	7.0	0	0	0	.....	.....	.....	0	0	0	2.0	9.5
1895	5.0	1.0	2.0	T	0	.....	.....	.....	0	0	0.3	3.7	12.0
1896	2.6	2.2	2.6	0	0	.....	.....	.....	0	0	T	T	7.4
1897	4.7	11.8	2.3	0	0	.....	.....	.....	0	0	0	9.8	28.6
1898	11.9	T	0.2	0	0	.....	.....	.....	0	2.0	5.2	6.8	26.1
1899	3.2	6.3	14.1	2.0	0	.....	.....	.....	0	0	0	2.0	27.6
1900	T	27.1	0.4	0.3	0	.....	.....	.....	0	0	0.5	1.0	29.3
1901	T	17.9	4.0	6.9	0	.....	.....	.....	T	0	0.5	4.7	34.0
1902	12.4	5.0	1.7	0	0	.....	.....	.....	0	0	0	6.0	25.1
1903	4.2	4.4	1.2	4.6	0	.....	.....	.....	0	0	2.0	1.0	17.4
1904	1.8	0.4	3.9	2.1	0	.....	.....	.....	0	0	0.1	4.9	13.2
1905	6.7	14.0	T	T	0	.....	.....	.....	0	T	T	1.9	22.6
1906	3.6	1.7	10.8	0	0	.....	.....	.....	0	0	7.8	T	23.9
1907	1.0	4.5	T	0.5	3.2	.....	.....	.....	0	0	T	2.9	12.1
1908	0.3	1.8	0	0	0	.....	.....	.....	0	7.1	T	T	9.2
1909	5.1	1.6	4.6	T	0	.....	.....	.....	0	0	T	8.8	20.1
1910	6.4	0.4	T	T	0	.....	.....	.....	0	T	T	3.4	10.2
1911	T	7.8	0.5	0	0	.....	.....	.....	0	T	2.0	5.0	15.3
1912	3.3	11.4	26.2	T	0	.....	.....	.....	0	4.5	0	T	45.4
1913	5.3	16.4	3.1	T	0	.....	.....	.....	0	1.5	0	4.3	30.6
1914	0.3	8.4	4.8	T	0	.....	.....	.....	0	0	T	15.6	29.1
1915	6.9	8.9	11.1	0	0	.....	.....	.....	0	0	T	4.6	31.5
1916	7.1	5.2	3.4	1.7	0	.....	.....	.....	0	0	T	1.9	19.4
1917	1.2	T	0.4	T	0	.....	.....	.....	0	0.7	T	2.7	5.0
1918	9.4	T	0	0.4	0	.....	.....	.....	0	T	4.6	11.0	25.4
1919	1.0	9.8	0.6	T	0	.....	.....	.....	0	0	3.4	0.7	15.5
1920	0.7	0.3	0.8	7.5	0	.....	.....	.....	0	0	T	5.3	14.6
1921	3.2	0.4	0.2	1.0	0	.....	.....	.....	0	0	T	7.3	12.1
1922	2.1	1.9	2.1	0	0	.....	.....	.....	0	0	0	T	6.1
1923	0	1.2	3.3	T	0	.....	.....	.....	0	0	2.0	0.8	7.3
1924	5.6	6.1	13.1	0	0	.....	.....	.....	0	0	0.1	5.6	30.5
1925	5.6	1.5	2.6	0	0	.....	.....	.....	0	T	4.5	0.5	14.7
1926	6.6	8.0	12.2	10.0	0	.....	.....	.....	0	0	0.2	1.0	38.0
1927	5.7	3.3	3.1	0	0	.....	.....	.....	0	0	0.8	3.5	16.4
1928	0.2	0.3	0.5	T	0	.....	.....	.....	0	0	0.1	6.6	7.7
1929	10.2	6.5	0.3	0	0	.....	.....	.....	0	0	1.0	0.8	18.8
1930	11.0	0.3	T	0	0	.....	.....	.....	0	0.3	T	0.8	12.4
1931	0.7	T	10.4	T	0	.....	.....	.....	0	0	1.8	1.3	14.2
1932	1.4	3.4	9.9	0	0	.....	.....	.....	0	0	3.0	6.2	23.9
1933	1.0	5.9	1.7	0.1	0	.....	.....	.....	0	0	0	T	8.7
1934	1.1	9.3	2.9	0	0	.....	.....	.....	0	0	4.5	3.0	20.8
1935	0.1	0.1	0.1	T	0	.....	.....	.....	0	0	1.5	0.7	2.5
1936	13.2	4.6	T	1.5	0	.....	.....	.....	0	0	T	1.2	20.5
1937	T	5.3	5.1	2.0	0	.....	.....	.....	0	T	6.3	0.5	19.2
1938	0.1	6.6	0.1	6.5	0	.....	.....	.....	0	0	T	T	13.3
1939	6.5	9.3	0.2	T	0	.....	.....	.....	0	0	T	4.5	20.5
1940	14.7	3.2	0.5	0.6	0	.....	.....	.....	0	0	1.0	5.4	25.4
Average	4.2	5.3	3.5	0.9	0.1	.....	.....	.....	T	0.3	1.2	3.6	19.1

† Data missing.

TABLE 27. *Relative humidity, by months and years, at Topeka, Shawnee County*

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual																										
	Noon 6:30 a. m.	Noon 6:30 p. m.	Noon 6:30 a. m.	Noon 6:30 p. m.	Noon 6:30 a. m.	Noon 6:30 p. m.	Noon 6:30 a. m.	Noon 6:30 p. m.	Noon 6:30 a. m.	Noon 6:30 p. m.	Noon 6:30 a. m.	Noon 6:30 p. m.	Noon 6:30 a. m.																										
	6:30 a. m.	6:30 p. m.	6:30 a. m.	6:30 p. m.	6:30 a. m.	6:30 p. m.	6:30 a. m.	6:30 p. m.	6:30 a. m.	6:30 p. m.	6:30 a. m.	6:30 p. m.	6:30 p. m.																										
1936	...	...	...	...	...	...	...	...	...	79	61	70	51	82	74	...	...																				
1937	78	75	74	67	80	58	64	76	53	52	83	55	56	79	52	52	76	42	44	76	47	47	73	43	43	73	46	48	71	54	58	83	73	74	77	57			
1938	75	60	59	83	67	66	80	52	56	80	52	49	87	59	68	83	54	52	79	47	44	79	43	46	79	42	44	82	33	35	65	45	46	68	49	50	77	50	51
1939	72	57	59	64	45	49	73	55	54	75	47	46	70	39	41	82	51	52	68	37	33	79	49	48	62	31	29	64	39	39	76	52	57	70	50	52	71	46	47
1940	76	59	69	83	69	74	76	58	57	73	52	50	71	45	43	76	51	51	73	41	37	85	56	57	83	47	54	76	47	48	83	62	65	86	70	72	78	55	56

KANSAS WEATHER AND CLIMATE

TABLE 28. Mean temperature, by months and years, for Middle Division

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	26.7	29.6	46.4	57.5	71.2	76.8	84.5	77.8	70.6	56.0	42.9	28.1	56.3
1888	20.7	29.7	35.6	56.8	63.1	75.2	81.6	77.8	70.1	54.0	40.1	36.1	54.1
1889	29.4	29.1	45.2	56.4	64.4	72.3	77.5	75.8	66.2	56.0	37.0	43.8	54.4
1890	26.2	32.7	40.8	55.4	64.5	77.8	83.9	76.3	65.8	55.4	43.0	36.6	54.9
1891	30.8	29.6	34.8	56.9	62.0	70.8	73.8	74.7	69.9	54.9	40.5	38.1	53.1
1892	26.5	35.3	38.4	53.7	59.4	74.0	78.2	77.1	71.2	58.2	42.6	27.1	53.5
1893	30.2	30.0	42.8	56.3	62.4	75.2	80.3	74.8	71.5	54.6	40.9	37.2	54.7
1894	28.6	26.6	46.7	58.7	64.9	74.6	78.2	79.0	69.4	59.2	43.9	36.0	55.5
1895	25.7	25.9	43.5	59.6	66.9	73.2	76.0	76.8	73.9	53.0	41.5	35.4	54.3
1896	34.0	38.1	39.1	61.9	70.2	74.6	78.7	79.5	66.7	54.6	37.8	40.3	56.3
1897	28.7	33.6	43.3	54.7	63.8	76.2	81.2	77.0	74.3	61.5	42.0	29.9	55.5
1898	32.0	37.0	43.4	54.0	63.7	75.5	78.4	78.9	70.5	54.6	39.2	27.9	54.3
1899	30.0	19.4	37.5	55.0	68.0	73.5	76.7	81.6	69.3	62.3	48.7	32.1	54.6
1900	35.3	28.5	42.6	56.1	65.4	75.4	78.8	82.1	70.7	61.5	41.8	35.1	56.6
1901	32.0	27.5	42.4	53.1	63.1	77.6	85.9	80.1	69.8	60.5	45.1	30.8	55.7
1902	29.9	26.4	46.1	55.8	68.5	71.2	77.1	78.5	64.0	58.8	45.9	27.3	54.3
1903	31.9	27.2	43.1	55.2	62.1	67.2	78.8	75.8	67.3	57.6	42.1	34.7	53.6
1904	29.2	32.3	47.5	51.1	62.3	70.5	75.8	74.6	70.2	59.5	46.1	30.8	54.2
1905	21.1	21.2	50.6	53.0	63.3	75.6	75.1	79.1	71.9	54.2	46.0	33.1	53.7
1906	34.9	36.0	33.3	58.3	64.6	71.9	73.8	76.6	69.9	54.1	41.6	36.9	54.3
1907	29.8	35.1	52.4	48.4	58.3	72.6	78.7	78.6	70.3	57.3	42.6	34.1	54.8
1908	36.2	37.8	48.3	56.4	63.8	72.1	75.9	76.2	70.4	55.1	43.9	36.4	56.0
1909	28.4	37.3	42.4	53.3	62.8	73.7	79.5	80.7	70.2	57.3	48.5	22.5	54.7
1910	29.7	30.2	56.3	58.1	60.1	72.7	80.2	76.1	70.9	60.4	44.8	33.3	56.1
1911	33.7	36.2	48.4	55.2	66.6	80.7	78.9	76.6	75.8	55.8	39.2	31.2	56.5
1912	19.2	32.0	32.0	55.0	67.3	69.8	81.2	78.2	66.8	58.5	45.7	35.2	53.4
1913	29.4	26.4	40.3	57.4	67.3	74.9	83.3	84.9	65.3	54.4	49.1	34.4	55.6
1914	38.1	30.3	44.3	55.2	64.3	78.9	81.5	79.0	73.3	58.3	48.4	22.7	56.2
1915	29.5	37.8	32.7	59.3	60.3	69.4	74.5	70.4	69.5	58.8	48.5	35.2	53.8
1916	24.6	31.9	48.4	51.2	64.4	70.7	81.6	80.7	68.7	58.1	44.3	28.2	54.4
1917	31.9	31.7	44.7	52.9	57.8	73.7	82.2	74.0	69.8	51.4	48.2	25.7	53.7
1918	18.9	35.8	49.8	47.9	68.1	78.7	78.9	83.1	64.6	60.8	43.2	36.1	55.5
1919	32.2	33.6	44.5	53.4	62.0	72.6	81.1	79.3	73.3	55.0	40.1	27.5	54.6
1920	32.0	36.5	46.4	49.6	63.7	73.9	78.7	73.7	70.8	61.5	40.0	34.1	55.1
1921	37.4	40.8	50.7	55.6	66.8	75.0	80.0	80.2	74.9	60.5	43.6	34.8	58.4
1922	28.8	33.7	44.0	55.6	64.9	75.7	77.4	81.4	74.1	60.6	46.4	34.6	56.4
1923	38.9	32.4	41.7	55.1	61.8	74.0	80.1	80.0	71.0	53.0	45.6	36.7	55.9
1924	25.7	36.2	36.6	55.8	58.8	75.4	76.7	80.6	66.9	62.0	46.4	24.5	53.8
1925	24.9	40.3	49.4	61.1	63.4	79.1	81.1	78.2	73.6	48.2	43.0	33.6	56.3
1926	32.7	41.6	41.7	50.1	67.2	73.7	79.8	80.6	70.1	59.5	40.5	32.4	55.8
1927	32.2	38.7	43.7	57.6	65.6	72.1	78.2	72.4	70.6	61.5	44.5	27.9	55.4
1928	34.9	37.3	47.5	52.3	65.3	68.0	78.2	78.1	69.1	59.9	43.6	36.4	55.9
1929	24.4	25.4	47.7	57.6	61.6	72.9	79.5	80.1	68.3	57.7	36.4	34.7	53.9
1930	18.0	47.5	42.9	59.7	63.6	73.5	82.8	80.7	72.0	55.7	46.2	33.6	56.4
1931	36.7	42.2	39.4	53.5	61.0	78.8	81.8	77.0	79.2	62.7	46.5	39.7	58.2
1932	27.3	39.5	36.9	58.5	66.0	74.5	82.6	80.2	69.3	56.0	41.1	28.4	55.0
1933	39.7	31.6	46.7	55.5	65.3	82.6	82.5	77.9	75.4	58.5	47.9	39.4	58.6
1934	36.0	36.0	44.6	57.5	70.0	81.4	88.5	84.9	66.2	63.1	47.7	32.9	59.1
1935	34.7	39.2	51.9	52.6	60.0	71.1	84.8	81.4	69.9	56.4	40.3	34.1	56.4
1936	26.6	22.3	49.3	55.5	68.4	78.1	86.9	86.9	73.0	55.3	43.2	38.0	57.0
1937	20.6	32.6	40.4	55.0	67.3	75.1	82.6	84.6	72.1	57.4	41.3	32.0	55.1
1938	34.9	37.2	50.8	55.2	63.5	74.2	81.8	83.6	73.3	66.1	42.9	36.4	58.3
1939	38.8	30.3	46.0	55.1	69.3	76.1	84.3	78.6	75.9	61.9	44.9	39.2	58.4
1940	15.2	33.7	45.0	54.7	64.3	75.1	82.7	77.1	71.4	64.5	40.4	36.0	55.0
Average	29.7	33.2	43.9	55.3	64.3	74.4	80.1	78.7	70.5	57.8	43.5	33.3	55.4

TABLE 29. *Precipitation, by months and years, for Middle Division*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	0.21	0.61	0.05	2.50	1.85	3.59	1.78	5.95	3.42	1.14	0.21	0.75	22.06
1888	.41	.53	1.64	1.17	3.20	3.04	2.25	3.96	.72	.68	.18	.18	17.96
1889	1.16	.45	1.56	3.85	5.99	3.90	4.97	2.50	1.43	2.88	1.62	.01	30.35
1890	1.58	.36	.11	2.26	1.83	3.66	.47	4.41	1.55	1.09	1.19	.61	19.12
1891	1.65	.94	3.65	1.78	5.39	4.92	5.81	1.17	2.71	3.79	.31	1.20	33.32
1892	.33	2.94	3.55	1.31	6.90	1.86	3.29	3.27	1.19	2.05	.39	1.56	28.34
1893	.08	.51	.57	2.46	2.44	4.26	3.31	3.19	2.30	.21	.85	.40	18.58
1894	.49	.92	.51	2.94	2.17	6.31	1.43	.49	3.80	1.32	.11	.85	21.25
1895	.55	1.75	.80	1.21	1.46	5.10	4.10	5.45	1.09	1.28	1.37	1.87	24.88
1896	.72	.21	.90	3.76	4.14	5.71	5.33	2.15	3.40	3.13	1.02	.55	30.82
1897	.98	1.13	1.72	3.78	2.35	2.90	2.63	2.72	1.33	2.68	.10	.59	22.91
1898	1.47	1.24	.86	3.94	5.86	4.46	2.72	2.87	2.94	1.47	1.01	1.72	30.56
1899	.28	.37	1.73	1.20	4.22	7.21	3.74	2.07	2.55	2.51	1.13	1.33	28.34
1900	.22	1.46	.69	3.68	3.81	2.78	2.98	2.12	5.91	2.98	.34	.42	27.39
1901	.34	1.33	1.21	4.19	1.75	2.83	1.49	2.02	2.75	2.60	.55	.27	21.33
1902	1.01	.57	1.50	.84	6.92	6.52	3.95	5.45	3.43	2.26	1.30	.84	34.59
1903	.25	1.79	1.01	2.81	9.71	2.07	2.85	4.78	1.86	4.16	.95	.17	32.41
1904	.22	.03	1.13	2.74	5.74	6.75	6.38	2.98	2.38	1.13	.12	.51	30.11
1905	.86	.76	1.73	2.28	4.01	5.13	5.59	1.22	3.94	1.27	2.66	.08	29.53
1906	.49	.46	1.53	3.09	2.56	2.64	4.41	4.11	4.71	2.51	1.51	.63	28.65
1907	1.54	.87	.73	.97	2.02	4.52	4.21	3.12	2.49	3.28	1.57	1.62	25.88
1908	.09	1.36	.39	1.62	5.42	8.73	3.82	4.32	2.19	1.92	1.91	.05	31.88
1909	.42	.53	1.45	.78	3.78	5.38	4.94	1.36	2.97	2.20	5.92	1.26	30.99
1910	.87	.32	.02	1.03	4.51	1.59	1.98	4.55	2.18	.41	.06	.39	17.91
1911	.16	4.23	.27	1.55	3.19	.50	4.06	3.92	2.94	1.16	.67	2.24	24.89
1912	.09	2.28	2.14	2.18	2.95	3.46	2.26	4.89	2.49	2.20	.34	.29	25.57
1913	.36	1.51	.57	1.78	2.58	2.50	.98	.33	4.38	1.63	1.76	3.61	21.99
1914	.09	.81	.84	1.46	3.33	3.80	2.23	3.04	1.73	1.83	.02	.65	19.83
1915	1.27	2.64	1.89	3.44	6.69	6.85	5.59	4.58	4.06	1.89	.60	.30	39.80
1916	1.29	.20	.64	2.49	3.81	6.90	.66	1.63	2.39	1.49	1.08	.66	23.24
1917	.28	.01	.60	2.98	3.60	2.07	1.28	5.22	1.86	.37	.54	.18	18.99
1918	.67	.70	2.17	3.89	4.43	1.36	2.49	2.50	2.56	4.29	1.44	2.50	29.00
1919	.07	2.32	2.01	4.32	3.23	5.13	1.09	1.47	2.64	1.62	2.12	.17	26.19
1920	.24	.59	.98	2.74	3.28	2.34	3.07	4.70	2.38	2.78	1.72	1.08	25.90
1921	.89	.11	.90	3.47	1.92	4.99	2.55	2.97	2.82	.43	.01	.42	21.48
1922	.35	1.29	3.94	4.60	4.74	2.21	5.19	1.36	1.81	1.80	3.30	.03	30.62
1923	.01	.13	1.35	2.60	6.13	7.21	2.11	1.96	4.59	3.92	.86	.48	31.35
1924	.35	.47	2.79	3.23	2.12	1.36	3.81	3.49	1.67	1.18	.52	1.37	22.36
1925	.47	.19	.89	3.61	1.90	4.18	3.19	3.63	3.60	1.41	1.53	.19	24.79
1926	.87	.88	1.68	1.21	1.91	2.75	2.74	2.38	4.58	2.99	2.09	.83	24.91
1927	.25	.87	2.58	4.53	1.70	6.41	3.04	8.24	2.79	1.23	.19	.35	32.18
1928	.11	2.03	1.52	2.65	2.64	7.62	5.37	2.88	.93	2.19	4.36	.76	33.06
1929	1.10	.83	.52	3.07	4.68	4.22	4.37	2.22	1.81	3.57	2.15	.12	28.66
1930	.70	.19	.26	2.48	5.09	3.66	1.96	3.24	3.19	2.62	2.48	.32	26.19
1931	.18	.57	2.79	2.69	2.95	2.54	1.71	3.19	2.34	1.49	4.11	.58	25.14
1932	1.50	.82	.78	1.55	2.63	5.66	3.20	3.72	2.38	.99	.17	.88	24.28
1933	.12	.17	1.28	2.00	2.71	.74	2.82	5.45	1.90	.52	.50	1.18	19.39
1934	.60	1.16	.74	1.24	3.00	3.27	.91	1.22	4.12	1.30	2.24	.43	20.23
1935	.38	.89	.76	1.02	8.46	5.05	.76	2.79	3.04	2.22	2.07	.23	27.67
1936	.66	.17	.06	1.01	4.44	1.42	.83	.95	4.93	2.07	.04	.99	17.57
1937	1.47	.71	1.50	.57	3.96	3.18	3.76	2.17	2.05	1.59	.60	.38	21.94
1938	.10	1.60	1.71	2.56	8.26	4.39	2.71	3.19	1.88	.15	1.57	.11	28.13
1939	.73	1.25	1.53	1.59	1.95	5.52	1.49	4.57	.27	.64	.66	.71	20.91
1940	.75	1.15	.87	3.16	3.66	2.25	1.89	3.44	3.06	1.07	2.96	1.09	25.35
Average	.60	.96	1.29	2.40	3.88	4.06	3.01	3.18	2.67	1.88	1.26	.75	25.94

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TABLE 30. Snowfall, by months and years, for Middle Division

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l*
1898	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20.5
1899	2.5	2.8	7.6	0.4	0	.....	.....	.....	0	0	0	3.8	18.2
1900	T	12.0	0.3	2.3	0	.....	.....	.....	0	0	1.1	0.6	16.3
1901	2.0	10.5	4.6	6.8	0	.....	.....	.....	0	T	T	1.1	24.3
1902	9.4	5.1	1.0	T	0	.....	.....	.....	0	0	0.1	6.0	21.6
1903	2.3	13.5	1.0	1.0	0	.....	.....	.....	0	0	0.3	T	16.4
1904	0.6	T	0.4	0.2	0	.....	.....	.....	0	0	0.7	4.7	6.4
1905	7.2	7.1	0.2	0.5	T	.....	.....	.....	0	2.6	T	0.6	16.9
1906	2.5	0.5	9.0	T	0	.....	.....	.....	0	T	4.4	T	16.6
1907	0.9	1.6	1.4	1.7	0.9	.....	.....	.....	0	0	T	5.7	12.3
1908	0.1	2.1	T	T	T	.....	.....	.....	0	T	1.1	0.1	2.8
1909	3.5	2.1	5.9	0.2	0	.....	.....	.....	.....	.....	.....	.....	19.6
1910	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.7
1911	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.4
1912	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33.7
1913	.....	.....	.....	T	0	.....	.....	.....	.....	.....	.....	.....	23.8
1914	0.7	5.2	0.4	T	0	.....	.....	.....	0	0	T	5.4	11.7
1915	5.0	5.4	13.2	T	T	.....	.....	.....	0	0	T	2.1	25.7
1916	4.2	2.1	3.5	3.4	0	.....	.....	.....	0	1.3	0.5	4.6	19.6
1917	2.0	0.1	1.7	0.1	0	.....	.....	.....	0	0	T	1.8	5.4
1918	7.7	2.6	T	1.0	0	.....	.....	.....	0	0.7	T	2.2	25.0
1919	0.6	9.7	2.6	1.0	0	.....	.....	.....	0	T	3.5	1.6	20.1
1920	1.9	0.5	0.4	6.5	0	.....	.....	.....	0	0	1.7	0.9	11.6
1921	1.1	0.8	0.1	0.8	0	.....	.....	.....	0	T	T	3.3	5.9
1922	0.4	4.7	6.5	T	0	.....	.....	.....	0	T	T	T	12.0
1923	0.1	0.8	2.5	0.3	T	.....	.....	.....	0	T	0.7	1.2	5.8
1924	4.1	2.7	20.8	0	T	.....	.....	.....	0	0	0.3	6.6	34.8
1925	5.0	0.2	0.6	0	0	.....	.....	.....	0	0.5	3.1	0.8	10.3
1926	4.6	4.8	5.7	4.2	0	.....	.....	.....	0	T	0.7	2.3	20.7
1927	1.9	4.1	2.5	T	0	0	.....	.....	0	0	1.4	1.7	11.6
1928	0.8	2.1	3.8	1.7	0	0	.....	.....	0	0.8	2.0	2.2	13.6
1929	5.3	7.2	T	T	0	.....	.....	.....	0	T	6.8	0.2	19.5
1930	7.2	0.3	0.4	T	T	.....	.....	.....	0	T	0.1	2.2	10.1
1931	0.1	0.1	8.4	T	T	.....	.....	.....	0	T	3.5	2.1	14.3
1932	10.8	4.6	6.0	T	0	.....	.....	.....	0	T	0.6	2.7	24.5
1933	T	1.8	1.0	T	T	.....	.....	.....	0	0	0.1	T	3.0
1934	1.9	7.6	1.2	T	0	.....	.....	.....	0	0	1.2	1.2	12.8
1935	0.2	0.9	1.6	T	0	.....	.....	.....	0	T	0.9	0.8	4.3
1936	4.8	2.0	0.1	0.5	0	.....	.....	.....	0	T	T	1.2	8.2
1937	2.5	7.2	3.6	T	0	.....	.....	.....	0	T	4.1	0.8	17.7
1938	0.1	5.3	T	5.3	T	.....	.....	.....	0	T	0.5	0.4	11.7
1939	3.2	11.4	3.1	0.2	0	.....	.....	.....	0	0	T	5.2	22.2
1940	9.2	8.6	1.7	1.2	0	.....	.....	.....	0	0	2.4	7.0	30.2
Average	3.1	4.2	3.2	1.1	T	.....	.....	.....	0	0.2	1.2	2.6	15.9

* The annual divisional average has been computed from the annual snowfall by stations rather than from the monthly averages given in this table.
Monthly data not yet available from July, 1909, to December, 1918, inclusive.

TABLE 31. Mean temperature, by months and years, at Concordia, Cloud County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885	.....	.....	.....	.....	59.8	71.6	75.4	72.0	66.8	51.4	42.4	33.6	.....
1886	11.1	31.5	35.6	51.8	67.0	71.4	78.0	77.0	69.4	60.0	37.7	25.0	51.3
1887	22.0	24.1	42.9	55.6	66.6	73.0	78.3	73.8	67.5	52.8	41.6	27.2	52.1
1888	15.0	33.4	34.2	56.4	59.6	73.0	80.7	74.1	66.2	53.2	40.2	36.2	51.8
1889	29.0	26.2	44.1	55.6	62.4	70.5	75.7	74.0	64.0	53.1	36.6	42.0	52.8
1890	21.0	29.4	38.0	55.6	62.8	75.6	82.3	73.8	64.9	54.2	44.6	36.4	53.2
1891	31.6	27.6	33.1	56.8	60.8	70.0	72.8	74.4	70.6	54.6	39.2	37.7	52.4
1892	24.4	34.0	37.8	51.3	55.8	73.2	76.8	75.7	70.1	57.7	41.3	24.9	51.9
1893	27.0	27.4	39.8	53.6	60.8	74.0	78.6	73.4	70.4	57.2	39.4	35.6	53.0
1894	27.1	24.8	46.8	57.3	64.0	73.2	77.1	78.4	68.4	58.0	41.4	35.4	54.2
1895	23.5	24.8	41.4	59.4	66.2	72.2	76.2	76.0	73.4	52.4	40.5	33.3	53.3
1896	32.5	37.4	36.2	61.0	67.5	73.0	76.9	76.2	64.4	53.4	34.4	40.5	54.4
1897	28.0	30.8	41.0	53.0	63.2	74.2	79.7	74.5	75.3	60.4	40.3	27.5	54.0
1898	30.8	34.4	41.7	52.9	62.2	75.0	77.2	79.4	70.0	52.8	37.0	25.7	53.3
1899	29.0	16.8	32.8	53.9	66.3	73.4	75.8	79.8	69.0	61.5	48.7	30.4	53.1
1900	34.2	25.2	40.7	55.9	65.6	75.2	79.0	81.6	69.8	61.6	39.5	35.0	55.3
1901	30.2	25.0	39.7	52.0	62.2	76.6	85.8	79.0	67.4	59.8	43.8	29.6	54.3
1902	28.6	23.6	45.6	54.1	67.8	69.0	76.2	76.6	63.0	58.8	44.2	25.0	52.7
1903	30.7	24.2	41.0	54.2	61.7	67.4	77.1	74.2	65.6	56.8	40.4	33.0	52.2
1904	26.4	27.8	43.4	49.0	61.8	69.2	75.0	74.2	69.1	58.5	45.7	29.5	52.5
1905	18.1	19.4	49.6	51.6	62.3	74.2	73.8	79.3	70.9	62.4	44.8	33.4	52.5
1906	33.8	34.4	30.0	56.9	64.4	71.8	73.8	77.6	69.4	53.2	40.2	34.2	53.3
1907	25.8	32.4	49.6	46.2	57.8	72.5	79.3	78.2	68.6	55.8	42.0	32.2	53.4
1908	34.6	34.1	46.1	55.2	61.8	70.6	74.6	74.4	70.1	54.0	43.6	34.9	54.5
1909	25.0	33.8	39.9	49.6	61.4	72.8	77.9	79.8	67.7	55.8	46.5	18.3	52.4
1910	28.5	28.0	55.6	56.7	58.2	71.6	79.0	73.6	68.2	59.4	41.4	31.2	54.0
1911	30.6	34.3	46.8	52.8	66.3	80.4	78.9	75.8	72.6	53.0	37.4	30.5	55.0
1912	16.0	29.2	30.2	54.1	66.6	69.6	80.4	77.2	65.8	56.9	46.2	35.6	52.3
1913	27.0	25.4	38.6	56.2	65.8	75.2	83.2	85.0	68.0	53.4	48.7	35.0	55.1
1914	36.2	26.6	41.3	54.2	64.4	78.6	82.1	79.3	72.4	58.6	47.5	19.9	55.1
1915	26.5	35.1	30.6	59.6	60.0	68.3	73.7	70.1	88.6	58.4	47.0	33.4	52.6
1916	21.5	28.2	44.5	50.2	63.2	69.2	81.2	78.7	67.2	56.1	42.8	25.6	52.4
1917	28.8	28.6	41.6	51.0	57.6	72.6	81.1	72.8	68.4	49.0	47.3	23.5	51.9
1918	15.3	32.6	48.4	47.6	67.8	78.9	78.2	82.5	63.2	59.6	42.9	35.0	54.3
1919	33.6	30.9	42.0	51.0	61.1	72.8	81.6	77.0	71.4	52.1	38.2	24.4	53.0
1920	30.2	33.9	44.8	45.6	61.4	73.3	77.4	72.4	69.7	60.8	38.2	32.1	53.3
1921	36.2	39.6	47.6	54.6	65.8	75.8	79.2	78.9	73.8	59.4	41.1	34.3	57.2
1922	27.0	31.0	41.8	54.4	64.2	76.0	75.4	80.6	73.0	59.8	44.8	31.4	55.0
1923	37.2	30.0	37.9	53.7	60.2	73.0	78.8	76.2	69.6	51.6	44.9	35.6	54.1
1924	20.8	34.2	35.2	54.6	57.4	72.4	75.4	79.5	64.4	61.5	44.8	21.7	51.8
1925	23.0	37.4	46.6	60.2	62.0	77.1	79.4	77.2	72.3	45.4	41.4	31.7	54.5
1926	31.0	39.5	39.5	49.6	67.2	72.6	79.5	80.2	67.0	57.8	38.6	30.0	54.4
1927	30.0	36.4	42.2	54.6	63.1	70.4	76.5	70.4	69.0	60.2	41.9	23.8	53.2
1928	32.9	35.2	46.4	50.8	65.0	67.0	77.2	76.5	67.2	57.2	42.2	35.3	54.4
1929	20.6	22.6	46.1	55.9	60.0	71.4	78.6	78.2	65.8	56.1	35.0	32.3	51.9
1930	16.4	45.2	40.4	57.4	62.2	71.7	82.0	79.6	70.2	53.8	44.8	32.4	54.7
1931	35.9	39.8	37.0	53.2	60.0	79.0	81.1	75.4	77.6	60.4	45.0	38.9	56.9
1932	23.4	35.4	34.0	56.2	65.3	74.3	81.0	77.7	66.6	53.6	39.6	28.0	52.8
1933	38.6	30.4	45.0	52.8	63.0	82.0	80.6	76.4	73.0	56.2	46.3	36.9	56.6
1934	34.0	33.6	41.0	57.1	70.5	80.8	88.4	82.5	64.6	62.4	46.4	30.4	57.6
1935	30.6	37.3	48.4	51.2	57.6	69.6	84.8	79.5	69.0	53.4	38.8	32.0	54.4
1936	22.0	16.8	46.3	52.1	67.8	76.8	87.2	85.2	72.0	54.2	41.7	35.4	54.8
1937	16.6	28.4	38.5	52.8	65.9	74.2	81.8	84.0	71.6	55.8	39.2	30.2	53.2
1938	31.4	33.4	48.0	53.5	61.3	72.8	81.3	82.0	72.2	65.3	41.6	34.5	56.4
1939	36.8	26.6	43.0	52.8	68.6	75.0	84.0	76.8	73.7	59.3	44.3	37.2	56.5
1940	12.0	29.5	41.4	51.8	62.8	74.6	82.8	75.2	70.4	63.6	37.6	33.0	52.9
Average	27.0	30.5	41.4	53.8	63.1	73.4	79.0	77.0	69.1	56.5	42.0	31.5	53.7

KANSAS WEATHER AND CLIMATE

TABLE 32. Precipitation, by months and years, at Concordia, Cloud County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885	.....	.....	.....	.....	2.63	1.12	4.90	1.43	3.53	2.46	0.61	0.43	.....
1886	0.62	0.88	2.56	3.39	4.65	3.20	3.49	2.46	3.89	1.25	1.29	.56	28.24
1887	.61	.72	.23	1.95	6.08	3.13	2.36	3.88	3.62	.95	1.10	.63	25.26
1888	.51	.46	3.37	.65	3.98	4.22	1.85	4.97	1.00	1.43	.58	.22	23.24
1889	1.42	.59	2.25	3.48	5.65	2.46	8.29	4.90	1.90	1.90	1.62	.01	34.47
1890	1.38	.25	.14	2.22	2.26	3.63	.23	3.33	2.11	.78	1.24	.06	17.63
1891	2.15	.59	3.72	3.02	4.12	6.94	3.46	.69	3.14	5.24	.20	1.20	34.47
1892	.53	2.32	3.81	1.56	9.29	1.23	3.30	3.04	.65	.83	.44	1.19	28.19
1893	.05	.34	.74	.86	3.27	6.39	4.47	1.69	2.08	.14	1.01	.41	21.45
1894	.18	1.36	.28	2.91	3.74	12.49	1.14	.44	2.99	1.10	.02	.62	27.27
1895	.54	1.86	.44	.68	1.01	3.87	.96	4.98	.89	.70	1.19	.03	17.15
1896	.52	.30	1.02	2.60	6.46	2.12	9.27	3.09	3.53	2.56	1.78	.09	33.34
1897	.91	.50	1.44	4.20	2.13	6.82	5.31	1.88	1.20	5.80	.39	.85	31.45
1898	1.15	.32	1.00	1.95	2.67	3.65	2.87	1.03	3.40	.87	1.09	.33	20.33
1899	.03	.91	1.57	.47	5.34	6.30	4.24	2.78	1.49	5.41	.76	1.36	30.66
1900	.53	.77	1.60	4.02	2.32	2.26	3.13	3.12	3.59	3.27	.20	.73	25.54
1901	.24	1.57	1.29	3.37	2.86	1.23	1.73	1.66	2.58	1.30	.44	T	18.27
1902	.77	.19	.30	4.44	8.31	7.34	4.37	5.22	3.14	3.25	1.14	.75	35.22
1903	.27	.80	1.21	3.34	13.15	3.97	5.22	4.32	1.84	2.88	1.07	.12	38.19
1904	.51	.05	.36	4.50	5.45	12.97	2.97	3.15	1.54	1.76	.20	.40	33.86
1905	.75	.80	.84	3.80	4.75	6.19	6.43	.55	3.59	.72	3.16	.12	31.70
1906	.42	.50	1.79	2.02	1.83	1.87	2.59	1.73	3.75	1.94	.71	.76	19.91
1907	.72	.46	.96	.72	1.67	2.60	5.91	1.34	5.36	3.17	.21	.93	24.05
1908	.01	1.03	.15	.86	6.51	13.74	6.77	8.56	1.79	1.74	.71	.01	41.88
1909	.21	.49	1.24	1.58	3.06	3.18	7.86	.37	6.30	2.80	4.35	1.15	32.59
1910	.59	.02	T	.59	8.56	1.60	1.54	7.57	1.59	.37	.15	.16	22.74
1911	.09	3.19	.79	1.78	2.94	.85	2.77	5.78	3.27	.35	.46	2.01	24.28
1912	.03	2.41	1.32	1.35	3.26	2.96	1.33	5.18	2.68	3.11	.10	.12	23.85
1913	.55	1.30	.41	2.46	5.70	2.76	.15	.30	3.03	1.19	1.90	3.91	23.66
1914	.17	.82	1.05	1.00	1.70	2.73	1.13	2.11	4.61	2.49	T	.57	18.38
1915	.76	2.34	2.53	2.47	4.73	9.33	5.10	1.99	3.47	3.40	.99	.40	37.51
1916	1.34	.41	.37	1.82	3.99	4.66	.82	1.21	2.70	1.06	.77	.88	20.03
1917	.60	.07	1.49	2.60	3.11	3.17	.60	2.63	.56	.30	.07	.06	15.26
1918	.85	.63	.77	3.51	2.52	1.85	1.77	3.10	1.72	4.49	1.24	.87	24.32
1919	.02	2.36	.90	4.20	5.68	6.14	.03	1.00	3.03	1.05	1.71	.24	26.36
1920	.12	.73	.47	2.82	3.50	.84	4.90	5.15	.36	1.61	1.47	.58	22.55
1921	.50	.06	.47	2.79	2.51	3.35	5.24	1.93	1.36	.72	.08	.01	19.02
1922	.38	1.12	2.59	2.33	3.54	2.10	5.82	.88	1.35	1.14	2.05	T	23.30
1923	.01	.38	1.32	3.20	5.48	7.32	4.48	2.75	2.94	1.75	.61	.17	30.41
1924	.95	.26	2.56	1.38	1.75	1.87	3.55	2.38	.80	.48	.38	1.33	17.69
1925	.13	.11	1.67	1.24	2.77	5.20	3.13	4.10	1.52	1.21	.70	.38	22.16
1926	.59	.97	.88	1.00	1.93	2.97	2.66	1.42	4.68	.98	1.48	.53	19.99
1927	.20	1.41	2.24	3.80	1.51	5.82	4.27	7.74	1.55	.87	.26	.36	30.03
1928	.11	2.03	.47	1.25	1.24	4.79	7.03	5.47	.85	3.01	2.59	.01	28.85
1929	.78	.94	.06	5.09	3.56	4.12	1.98	1.33	2.96	3.82	1.42	.09	26.15
1930	.68	.14	.24	3.51	5.52	3.58	2.17	1.85	1.78	2.32	3.14	.10	25.03
1931	.10	1.46	1.38	3.38	3.83	.58	3.04	5.18	1.96	2.50	2.61	.91	26.93
1932	1.24	.59	.83	1.43	2.21	6.07	3.43	6.63	2.02	2.43	.04	.31	27.23
1933	.19	.11	1.97	2.48	1.55	1.34	3.94	3.30	3.47	.06	.84	.74	19.99
1934	.43	1.22	.29	.71	2.55	3.34	.95	.71	1.82	.75	2.29	.22	15.28
1935	.07	.67	.47	.72	6.20	7.58	1.23	5.83	7.14	2.14	1.29	.18	33.52
1936	.69	.14	.15	2.08	2.86	.98	.75	1.82	4.56	.75	T	1.24	16.02
1937	1.76	.32	2.21	.46	1.85	2.28	4.06	1.98	1.64	1.58	.20	.14	18.48
1938	.16	1.48	1.17	1.61	7.76	5.17	2.86	3.70	1.52	.10	1.72	.02	27.27
1939	.40	1.17	1.93	2.57	3.56	3.33	.34	4.37	.60	.60	.48	.54	19.89
1940	.53	.89	1.55	1.61	1.49	1.08	1.03	3.74	.83	1.56	2.65	1.25	18.21
Average	.55	.87	1.22	2.22	3.97	4.16	3.31	3.10	2.52	1.83	1.06	.58	25.39

TABLE 33. Snowfall, by months and years, at Concordia, Cloud County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885	†	†	†	†	†	.....	.....	.....	0	0	0.3	2.3	†
1886	16.6	7.5	15.5	5.2	0	.....	.....	.....	0	0	0.8	2.5	48.1
1887	5.9	7.0	2.3	0	0	.....	.....	.....	0	0	2.1	2.1	19.4
1888	7.2	1.2	5.0	0	0	.....	.....	.....	0	1.7	0.3	1.5	16.9
1889	3.0	6.5	1.0	0	0	.....	.....	.....	0	0	6.5	0	17.0
1890	10.5	2.8	T	0	0	.....	.....	.....	0	0	0	0	13.3
1891	9.0	4.5	25.0	T	0	.....	.....	.....	0	0	0.5	3.5	42.5
1892	6.5	5.0	1.5	0	0	.....	.....	.....	0	0	1.0	12.0	26.0
1893	0.8	1.9	3.5	0	0	.....	.....	.....	0	T	2.0	1.5	9.7
1894	1.6	11.7	T	0	0	.....	.....	.....	0	0	0	0.5	13.8
1895	5.1	3.3	3.4	0	0	.....	.....	.....	0	0	4.0	0.1	13.9
1896	1.6	2.0	10.0	0	0	.....	.....	.....	0	0	0.2	0	13.8
1897	7.2	5.2	3.5	0	0	.....	.....	.....	0	0	0.2	8.5	24.6
1898	11.5	2.1	0.8	0	0	.....	.....	.....	0	T	10.9	0.2	25.5
1899	0.3	9.0	13.6	1.5	0	.....	.....	.....	0	0	0	3.2	27.6
1900	0	7.3	T	0.8	0	.....	.....	.....	0	0	1.8	0.9	10.8
1901	2.2	15.4	8.7	2.9	0	.....	.....	.....	0	0	0	0.1	29.3
1902	7.2	1.8	T	0	0	.....	.....	.....	0	0	0.6	7.2	16.8
1903	2.3	8.0	4.0	0.8	0	.....	.....	.....	0	0	0.3	0.3	15.7
1904	1.5	0.2	0.2	T	0	.....	.....	.....	0	0	1.6	4.3	7.8
1905	7.6	8.0	0.8	0.6	0	.....	.....	.....	0	1.6	0	1.3	19.9
1906	3.1	1.2	13.4	0	0	.....	.....	.....	0	0	4.2	T	21.8
1907	2.3	3.1	4.4	3.2	3.7	.....	.....	.....	0	0	T	6.1	22.8
1908	0.1	2.0	0	0	0	.....	.....	.....	0	T	T	T	2.1
1909	1.9	0.8	6.2	1.8	0	.....	.....	.....	0	T	3.0	10.2	23.9
1910	5.4	0.2	T	T	0	.....	.....	.....	0	0	T	1.0	6.6
1911	0.4	1.1	0.6	T	T	.....	.....	.....	0	0	0.1	9.4	11.6
1912	0.3	23.6	10.4	0	0	.....	.....	.....	0	0.4	T	2.1	34.7
1913	5.5	13.0	2.8	0.3	0	.....	.....	.....	0	0	0	2.1	24.1
1914	1.1	7.5	0.5	0	0	.....	.....	.....	0	0	0	5.4	14.5
1915	5.4	8.6	21.5	0	0	.....	.....	.....	0	0	4.4	2.0	37.5
1916	9.7	4.1	3.3	0.9	0	.....	.....	.....	0	0	0	8.8	33.0
1917	2.0	0.7	4.5	0.1	0	.....	.....	.....	0	0.5	0	0.6	8.4
1918	8.7	3.3	T	1.2	0	.....	.....	.....	0	2.2	0	6.4	25.7
1919	0.3	8.9	2.8	0.6	0	.....	.....	.....	0	0	3.8	2.3	18.7
1920	0.4	0.6	0.7	9.2	0	.....	.....	.....	0	0	4.3	2.7	17.9
1921	1.4	0.6	0.2	0.1	0	.....	.....	.....	0	0	T	0.1	2.4
1922	0.9	2.2	5.3	T	0	.....	.....	.....	0	0	T	0	8.4
1923	T	1.8	4.6	1.4	0	.....	.....	.....	0	0	0.5	8.3	8.3
1924	9.2	1.0	20.3	0	0	.....	.....	.....	0	0	7.0	37.5	37.5
1925	1.8	0.4	0.2	0	0	.....	.....	.....	0	1.1	4.6	2.8	10.9
1926	2.9	6.3	2.8	7.4	0	.....	.....	.....	0	0	0.2	1.5	21.1
1927	2.0	2.8	1.3	T	0	.....	.....	.....	0	0	2.2	3.1	11.4
1928	1.0	0.7	0.4	4.5	0	.....	.....	.....	0	0	2.6	0.2	9.2
1929	5.1	8.8	T	0	0	.....	.....	.....	0	0	6.7	0.2	20.8
1930	8.9	T	0.8	0	T	.....	.....	.....	0	T	0.2	1.1	11.0
1931	0.2	T	7.6	T	0	.....	.....	.....	0	T	4.9	1.2	13.9
1932	12.1	7.7	5.5	0	0	.....	.....	.....	0	T	2.9	2.9	28.2
1933	T	1.1	4.7	T	0	.....	.....	.....	0	0	0	0	6.0
1934	0.8	8.7	1.2	0	0	.....	.....	.....	0	0	0.6	0.5	11.8
1935	0.1	1.8	3.6	T	0	.....	.....	.....	0	0	1.5	0.6	7.6
1936	6.0	3.0	T	2.5	0	.....	.....	.....	0	T	T	T	11.5
1937	3.2	3.7	0.7	0	0	.....	.....	.....	0	0	1.0	1.6	10.2
1938	0.2	1.6	0	6.0	0	.....	.....	.....	0	0	0.8	T	8.6
1939	4.5	9.3	8.0	0.4	0	.....	.....	.....	0	0	3.0	4.8	27.0
1940	7.2	6.9	2.9	1.3	0	.....	.....	.....	0	0	T	12.4	33.7
Average	4.0	4.7	4.4	1.0	0.1	.....	.....	.....	0	0.2	1.5	2.7	18.6

† Data missing.

KANSAS WEATHER AND CLIMATE

TABLE 34. *Relative humidity, by months and years, at Concordia, Cloud County*

Year	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Annual															
	6:30 a. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.	Noon	6:30 p. m.													
													
1911	82	68	82	70	71	44	72	43	71	49	66	33	73	47	80	51	82	60	79	65	83	68	84	72	77	56														
1912	87	79	84	76	85	76	76	48	74	48	77	51	75	46	82	56	77	60	77	58	76	54	78	61	79	59														
1913	80	67	81	66	77	60	72	46	78	57	75	53	65	29	68	25	79	50	82	64	84	69	90	83	77	56														
1914	82	72	87	74	79	57	78	50	80	58	78	50	77	46	77	44	84	54	84	65	75	53	90	82	81	59														
1915	86	81	88	80	88	81	81	60	83	61	86	67	86	62	80	63	87	67	82	59	80	65	84	76	85	68														
1916	90	88	86	73	75	49	80	52	76	52	82	56	75	45	76	45	79	47	75	53	80	58	80	73	80	57														
1917	83	72	84	64	74	44	74	46	77	50	72	41	67	34	84	52	85	52	66	42	78	54	90	80	78	53														
1918	92	79	81	80	64	64	69	48	43	72	40	47	70	48	48	70	42	39	72	46	49	82	56	63	84	67	73	66	72	76	77	55	55							
1919	85	67	73	91	76	82	82	66	83	60	63	84	56	58	87	60	64	73	40	40	76	43	45	78	47	46	84	60	68	83	59	70	88	77	82	83	59	63		
1920	87	77	77	85	68	69	71	44	42	84	61	84	56	65	76	46	48	78	44	41	83	50	49	83	44	51	78	44	51	86	77	78	87	69	73	82	57	59		
1921	81	68	71	78	51	52	75	48	43	77	47	50	78	49	50	81	52	53	83	51	54	77	42	50	76	44	45	65	34	40	81	52	54	82	58	58	78	50	52	
1922	86	66	67	79	59	56	83	62	82	56	56	77	46	41	83	52	56	77	40	40	68	41	43	72	37	42	79	55	65	80	56	62	79	52	54	54	57	54	57	
1923	71	49	50	63	49	46	73	54	54	76	51	53	83	62	60	88	65	66	81	52	52	80	52	54	83	58	57	84	57	66	81	52	60	80	56	63	79	54	57	
1924	84	70	72	78	58	59	81	59	62	71	38	39	69	40	46	82	55	52	76	46	44	76	47	49	79	47	48	70	36	39	71	44	50	84	69	77	77	51	53	
1925	86	70	75	80	58	60	67	41	41	74	45	42	73	46	46	76	50	45	75	43	45	79	45	48	81	55	57	82	56	63	75	50	57	79	62	66	77	52	54	
1926	80	67	72	76	55	54	74	52	50	70	44	44	74	44	43	70	43	44	75	44	42	76	41	40	84	61	66	73	47	58	77	63	67	84	70	76	76	53	55	
1927	78	63	65	77	62	66	78	59	59	82	64	64	78	49	50	81	55	58	76	48	44	87	60	66	81	58	60	73	43	48	78	57	61	82	66	69	79	57	59	
1928	73	53	53	76	57	61	74	43	43	69	36	41	70	42	45	86	65	65	84	58	60	83	53	58	69	36	42	78	51	58	88	59	69	76	57	65	77	51	55	
1929	79	67	68	84	65	71	74	48	50	82	55	55	85	61	64	82	56	59	78	52	55	73	45	51	77	52	55	86	56	68	84	68	74	81	62	68	80	58	62	
1930	76	65	67	75	52	52	69	40	39	71	47	48	77	58	59	76	53	54	65	39	37	74	48	50	80	48	56	80	56	62	77	53	59	53	70	72	77	52	55	
1931	83	56	58	83	61	61	85	60	64	81	54	58	76	57	56	71	46	43	68	42	43	82	50	56	67	42	46	81	52	61	88	68	72	82	74	82	80	55	58	
1932	92	81	90	89	72	77	86	62	64	76	50	64	74	44	61	81	52	68	76	48	48	63	81	51	53	83	47	56	78	48	54	69	47	48	87	64	75	81	56	60
1933	77	47	49	71	46	48	84	60	60	68	46	42	77	53	63	60	29	29	78	47	62	80	52	52	82	50	55	72	39	47	65	43	50	74	54	67	74	47	49	
1934	75	59	62	75	54	58	74	48	52	65	36	36	69	39	44	67	39	36	51	25	25	59	33	32	78	50	55	74	41	49	81	61	69	89	71	83	71	46	50	
1935	84	65	70	82	58	60	64	40	42	70	46	46	86	64	68	84	60	60	71	38	41	73	45	45	78	49	56	86	56	69	86	69	78	85	70	77	79	55	59	
1936	87	71	80	87	66	72	67	34	36	65	43	40	78	56	67	66	53	38	52	26	23	58	31	31	79	51	55	75	49	60	74	45	47	86	68	77	78	48	51	
1937	88	77	85	82	66	71	84	62	64	71	46	45	82	50	50	77	47	46	75	41	56	72	38	35	73	42	41	75	45	51	76	48	54	82	62	64	78	52	54	
1938	74	56	55	81	66	65	81	59	59	79	53	53	88	66	67	83	55	56	76	44	42	74	46	46	79	43	46	68	33	36	69	44	52	70	44	48	76	51	52	
1939	74	37	57	75	50	54	79	59	59	75	46	47	70	42	42	78	47	46	66	35	33	78	47	45	69	31	29	61	36	38	67	44	49	69	50	51	71	45	46	
1940	88	74	83	88	75	80	83	61	60	75	49	49	74	44	44	75	48	45	69	41	36	85	56	54	79	52	53	75	46	47	87	69	76	89	74	80	81	57	59	
Av.	82	65	70	81	60	65	77	53	54	75	46	50	77	52	54	77	51	50	73	44	45	77	46	47	78	47	52	76	47	55	79	56	62	83	64	71	.....	.....

TABLE 35. Mean temperature, by months and years, at Hays, Ellis County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1888	19.1	35.6	34.9	55.9	59.4	75.2	80.3	.....	66.0	53.7	38.8	37.0	.....
1889	36.7	27.6	44.8	56.3	61.4	69.3	76.6	76.5	66.5	55.2	37.0	46.5	54.5
1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1891	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1892	.....	.....	.....	.....	.....	63.8	.....	70.0	70.2	60.8	41.6	28.4	.....
1893	37.0	.....	42.9	56.1	64.0	71.7	74.1	70.2	69.5	53.8	38.5	36.4	.....
1894	26.2	23.8	44.6	58.0	64.4	74.0	78.4	75.2	64.4	57.1	40.5	31.6	53.2
1895	20.2	21.6	41.9	54.2	62.7	69.6	72.0	72.6	70.9	51.2	37.4	30.4	50.4
1896	32.4	41.6	39.3	58.7	68.2	77.2	79.4	77.8	66.3	53.8	37.6	44.4	54.7
1897	37.5	38.2	49.2	56.6	58.8	74.8	79.0	78.6	73.8	62.6	44.6	.....	.....
1898	.....	.....	.....	51.3	59.2	72.6	77.1	78.0	67.2	52.2	37.2	28.7	.....
1899	30.0	19.8	38.0	52.2	64.6	72.2	73.6	80.0	69.6	59.8	47.4	34.2	53.4
1900	35.4	28.4	44.6	52.4	63.1	73.8	77.9	81.4	69.2	60.2	.....	.....	.....
1901	.....	24.3	39.4	50.8	60.7	76.6	85.0	79.8	67.2	57.8	42.3	32.9	.....
1902	30.2	28.6	46.2	52.8	67.2	68.7	75.2	77.6	63.3	56.6	42.4	25.1	52.8
1903	31.2	24.0	38.7	53.0	59.8	65.1	76.7	74.3	64.2	56.2	39.6	33.4	51.4
1904	27.6	29.2	44.2	49.5	59.2	.....	.....	.....	.....	.....	.....	.....	.....
1905	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906	34.0	35.6	31.9	56.6	64.4	70.2	72.5	75.6	68.4	52.0	40.0	36.2	53.1
1907	27.4	35.3	49.8	45.1	56.2	70.4	77.0	76.3	68.9	56.2	40.0	30.4	52.8
1908	34.6	35.8	45.3	54.0	61.8	71.1	75.2	75.4	69.4	53.7	41.7	34.7	54.4
1909	27.4	34.4	40.2	50.4	61.2	71.8	77.6	78.6	67.4	54.6	45.7	21.0	52.5
1910	27.4	29.2	53.6	54.4	57.2	70.9	79.4	73.8	68.0	59.7	42.7	33.0	54.1
1911	32.6	33.9	46.8	51.4	63.8	78.8	78.0	75.3	71.8	53.4	36.9	27.2	54.2
1912	18.2	31.6	29.4	52.8	63.6	67.2	79.2	77.3	65.1	55.8	43.5	34.3	51.5
1913	26.4	24.5	39.0	53.4	65.0	72.8	82.0	82.8	66.6	51.8	45.6	33.0	53.6
1914	37.7	28.4	41.8	52.5	62.0	77.0	78.8	77.3	71.3	56.2	46.6	19.8	54.1
1915	28.3	36.4	30.4	56.6	58.4	66.6	72.6	68.8	66.7	57.0	45.2	33.0	51.7
1916	23.0	30.8	47.0	49.2	60.9	68.5	80.4	79.0	65.7	56.4	41.0	25.4	52.3
1917	29.9	31.6	41.2	50.0	56.2	72.2	80.8	72.4	68.2	48.8	45.7	.....	.....
1918	.....	36.1	48.2	46.4	65.1	77.2	76.8	80.9	64.0	59.9	41.8	35.4	.....
1919	32.6	31.2	43.7	51.2	60.0	70.9	80.4	78.0 _a	72.0	51.1	37.3	26.9 _b	52.9
1920	31.8	35.6 _a	44.0 _b	47.6	61.7	72.5	79.0	72.5	69.2	60.0	39.0 _a	32.6	53.8
1921	35.6	39.0 _a	48.0	54.2 _a	64.6	72.8	79.0	79.2	73.8	59.2	40.8 _a	31.9	56.5
1922	25.4	29.1 _b	42.1	54.4	63.1	73.8	76.7	80.6	74.5	58.6	45.8	34.1	54.8
1923	36.8	30.1 _a	40.4	54.4	60.5	72.6	79.2	77.9	69.1	50.7	44.2 _a	34.9 _b	54.2
1924	25.2	35.1	34.4	54.2	56.8	73.8	76.8	80.3	65.2	59.2	44.1	23.4	52.4
1925	24.0	39.8	48.2	58.0	62.0	77.9	79.7	75.8	72.5	46.8	41.9	32.8	55.0
1926	32.4	39.2	40.4	49.2	65.0	73.2	79.8	79.8	69.7	59.0	39.6	30.2	54.8
1927	31.8	36.4	41.6	55.8	64.4	70.6	76.8	72.0	69.2	60.0	43.0	24.2	53.8
1928	33.7	35.4	44.8	50.7	62.8	65.2	76.9	75.7	67.1	55.6	41.8	34.8	53.7
1929	23.5	23.0	46.2	55.2	60.8	70.8	75.8	78.4	66.7	55.8	34.5	34.2	52.3
1930	17.2	45.7	40.0	56.7	61.8	71.4	81.4	79.4	69.8	52.6	42.8	32.2	54.2
1931	34.5	40.7	36.8	51.9	59.2	77.2	79.1	76.2	78.6	61.1	42.7	37.2	56.3
1932	22.4	36.0	35.4	56.7	64.6	72.1	82.1	78.6	67.1	54.1	39.6	27.0	53.0
1933	37.8	29.4	46.8	53.5	63.2	80.8	81.5	77.2	74.0	57.4	46.2	38.8	57.2
1934	36.2	34.6	42.8	55.7	70.3	80.0	87.1	82.3	65.0	61.8	46.4	31.8	57.8
1935	34.2	38.2	50.4	52.0	58.4	70.0	83.6	81.0	69.4	54.2	39.2	33.9	55.4
1936	26.9	20.8	46.8	53.0	66.8	76.4	85.6	84.2	72.0	54.0	42.0	36.4	55.4
1937	18.4	31.2	39.6	53.9	67.2	74.4	82.2	84.1	71.3	56.2	40.6	31.1	54.2
1938	33.9	36.0	49.0	53.9	62.0	72.6	82.0	83.7	72.1	64.0	41.4	35.2	57.2
1939	37.0	28.7	43.2	53.7	68.6	75.4	84.7	78.0	75.2	59.7	43.0	37.2	57.0
1940	13.6	33.0	44.4	54.0	63.2	74.6	82.4	75.4	71.4	63.1	38.6	34.5	54.0
Average	29.5	32.2	42.5	53.3	62.4	72.6	79.0	77.4	69.1	56.3	41.6	32.3	54.0

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, a represents one day, etc.

KANSAS WEATHER AND CLIMATE

TABLE 36. Precipitation, by months and years, at Hays, Ellis County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1868	0.15	1.90	0.89	0.48	1.80	1.10	0.70	3.70	0.20	0.90	3.20	0.50	15.52
1869	.10	3.30	1.40	.80	1.10	4.80	2.50	3.54	1.34	.60	.20	.64	20.32
1870	.03	.01	1.08	3.15	1.40	.67	2.25	1.50	5.50	2.50	0	1.70	19.79
1871	.10	T	.25	4.60	2.75	.67	2.40	2.30	6.00	1.80	1.63	.50	23.00
1872	.25	.46	.75	.96	3.92	.80	4.42	1.92	2.50	0	.04	.34	16.36
1873	.38	.62	.40	1.40	7.88	2.44	1.38	4.08	.86	.60	.42	.22	20.68
1874	1.32	1.80	4.02	2.34	3.68	2.18	.34	.90	7.08	.88	1.07	1.27	26.88
1875	2.92	2.90	2.20	3.34	3.66	4.52	4.54	5.50	1.40	.38	0	.72	32.08
1876	.10	2.18	6.10	3.46	2.04	4.70	4.06	2.60	2.82	1.24	1.24	2.02	28.64
1877	1.58	.94	.98	2.94	3.86	3.20	4.36	2.50	1.50	3.82	1.28	3.25	30.21
1878	1.24	.78	.68	2.82	2.92	6.96	6.86	4.94	4.94	.70	.62	3.94	35.40
1879	1.00	.10	.16	2.80	.48	2.60	7.04	3.02	.30	.16	2.36	.60	20.62
1880	.40	.50	*.10	.26	*4.00	2.12	4.22	5.14	2.06	.76	.72	.60	20.88
1881	1.38	.60	.68	1.12	4.92	2.14	4.12	1.46	2.74	1.10	.24	.38	20.88
1882	.20	.12	T	2.68	5.34	2.01	1.16	1.40	.30	1.50	.46	.10	15.27
1883	.64	.10	.88	2.34	2.96	4.08	2.70	.98	.62	4.98	T	.86	21.14
1884	.14	.30	.62	3.76	2.96	1.56	4.93	2.40	.46	2.16	.10	.65	20.04
1885	.47	.64	.32	2.43	3.10	1.40	8.21	2.50	3.08	2.23	.53	1.04	25.95
1886	2.62	.44	2.39	3.06	1.80	3.60	6.66	2.41	3.06	1.44	.63	1.08	28.74
1887	.40	.70	.10	2.23	3.02	3.29	1.08	4.64	3.34	2.32	.65	.56	22.33
1888	.20	.15	2.25	1.51	3.18	1.56	4.85	4.00	.48	.70	1.10	1.20	20.18
1889	1.56	.32	1.50	2.95	6.57	4.22	2.78	3.28	.56	2.17	1.45	0	27.36
1890	1.37	.40	.20	4.00	*.55	*1.40	*2.22	*2.48	*1.25	*.45	*.80	*.05	15.17
1891	1.05	.35	1.65	.92	2.05	4.84	4.09	1.29	4.73	1.59	.13	1.52	24.21
1892	*.32	*1.81	*2.06	*.92	*4.87	1.13	3.92	5.08	.40	.52	.40	1.10	22.53
1893	.05	.05	T	.20	3.11	3.55	2.79	5.20	2.65	.16	.20	1.20	18.16
1894	T	.95	0	1.85	1.65	3.90	.65	T	1.65	.30	.10	.75	11.80
1895	.30	1.95	.10	1.20	1.22	.80	2.59	4.40	.28	.70	.05	.07	12.64
1896	.50	T	.45	4.56	3.01	6.19	1.64	1.95	4.90	3.85	.35	.30	27.70
1897	.20	.50	1.60	7.92	1.50	3.10	2.83	2.22	2.66	3.75	T	.30	26.58
1898	1.25	.25	*.36	2.38	10.42	1.97	2.36	1.40	7.21	.75	1.10	2.10	31.55
1899	T	.20	.25	.45	2.10	6.03	5.15	5.55	2.30	2.00	2.00	.65	21.68
1900	.10	1.35	T	6.35	3.43	3.37	3.07	3.46	2.98	1.95	.10	.22	26.38
1901	*.20	1.45	1.25	5.55	1.41	1.53	.50	5.67	2.58	1.26	.75	.70	22.85
1902	1.00	.55	3.80	.26	4.28	6.44	3.84	5.84	4.71	2.56	T	1.35	34.43
1903	.15	4.20	1.03	2.01	10.08	4.40	2.72	4.55	.55	1.95	.88	T	32.52
1904	.10	4.06	T	.88	*4.22	5.20	*2.75	*2.90	*.95	*1.75	*.06	*.60	19.47
1905	*.65	*.54	*.73	*2.54	*3.71	*4.94	*3.98	*.86	*1.61	*1.43	*2.74	*.T	23.73
1906	.15	.37	.73	1.67	1.51	2.29	5.79	2.87	3.39	2.94	.86	.51	23.08
1907	.64	.22	.85	.60	.83	4.97	9.15	3.12	1.75	1.40	.11	1.76	25.40
1908	T	.92	T	2.18	3.06	6.02	2.90	5.86	.81	1.76	1.79	.03	25.33
1909	.39	.28	1.16	.47	1.60	10.21	3.71	1.48	2.78	1.64	3.55	1.00	28.27
1910	.58	.26	.03	.91	3.53	2.71	2.45	3.92	1.28	.36	T	.14	16.17
1911	.12	2.12	.14	.82	2.27	.81	2.09	4.47	2.05	.30	.14	1.82	17.15
1912	.02	1.98	1.60	1.66	2.70	4.32	.88	3.52	1.85	.51	1.13	.03	20.20
1913	.36	.68	.41	2.78	5.72	3.53	.83	.11	4.80	.25	.72	3.11	23.10
1914	.04	.42	.15	2.31	2.36	3.89	2.77	2.63	.60	1.33	T	.63	16.63
1915	.68	1.80	1.74	3.13	6.82	3.97	8.18	4.11	2.44	.93	.30	.04	34.14
1916	.53	.15	.31	2.21	1.63	5.83	.30	1.97	1.26	1.14	.02	.81	16.01
1917	.11	T	.07	1.96	1.72	2.15	1.46	5.73	1.84	.09	1.64	1.15	16.92
1918	.80	1.15	1.71	2.49	4.79	.53	3.04	1.76	1.42	2.41	1.10	2.38	23.58
1919	T	2.18	.33	4.51	6.85	3.51	1.16	.77	3.32	1.81	1.54	.15	26.13
1920	.05	.37	.30	2.04	3.32	1.87	1.89	5.11	1.56	3.58	.73	.46	21.28

TABLE 36. (Concluded)

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1921	.40	.10	.49	3.58	2.59	3.67	3.36	3.04	.68	.05	0	.50	18.46
1922	T	.93	1.71	4.51	2.61	2.18	4.20	.81	.43	.82	1.28	T	18.98
1923	T	.10	1.04	1.63	3.97	5.96	.70	4.15	4.52	4.37	.29	.37	27.10
1924	.31	.26	1.81	1.05	3.19	.77	2.32	1.95	1.03	.46	.25	1.11	14.51
1925	.05	.24	.38	4.27	1.01	4.13	6.73	3.33	.99	.75	1.12	.02	23.02
1926	.36	1.13	1.75	.81	2.16	2.55	1.94	.83	2.83	.60	1.12	.37	16.45
1927	.04	.98	1.85	3.09	1.84	8.03	1.82	6.63	2.80	T	.03	.10	27.21
1928	.03	1.57	1.42	1.27	3.13	9.13	6.86	1.78	.84	2.01	1.88	.02	29.94
1929	.20	.51	.01	2.30	3.95	1.84	7.14	2.84	3.58	2.96	1.51	.03	26.57
1930	.30	.63	.02	1.71	3.10	3.36	1.14	3.80	2.45	5.25	2.63	.14	25.03
1931	.02	.21	3.96	3.33	1.85	5.50	1.85	3.23	.24	1.57	3.76	.54	26.06
1932	1.82	.50	.82	2.32	3.28	8.57	2.03	5.19	5.14	1.69	.12	.18	31.66
1933	.07	.21	.33	2.14	2.82	1.07	2.12	2.73	2.03	.03	.54	2.17	16.26
1934	.29	1.16	.45	.37	1.55	5.15	.54	2.78	2.48	.52	.75	.02	16.06
1935	T	.28	.15	.21	6.27	5.10	.01	1.98	4.52	.98	2.17	.20	21.87
1936	.15	.20	.11	1.02	5.47	.71	.74	2.15	2.21	2.84	T	.50	15.90
1937	.94	.39	.43	.38	1.49	2.68	4.94	2.82	1.62	1.59	.40	.18	17.86
1938	.06	.65	1.87	2.58	8.21	2.73	1.08	2.47	2.13	.03	.30	T	22.11
1939	.48	1.05	.98	1.65	1.00	4.71	1.04	3.53	.42	.18	.11	.70	15.85
1940	.72	.35	.83	1.57	2.41	2.36	4.21	3.30	3.14	.62	2.58	.82	22.91
Average	.48	.79	.98	2.20	3.30	3.45	3.12	3.00	2.30	1.44	.84	.72	22.62

* Estimated from surrounding stations.

KANSAS WEATHER AND CLIMATE

TABLE 37. Snowfall, by months and years, at Hays, Ellis County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1893	0.2	0.5	T	0	0	.....	.....	.....	0	0	T	T	0.7
1894	T	9.5	0	0	0	.....	.....	.....	0	0	0	6.0	15.5
1895	3.0	2.0	1.0	5.5	0	.....	.....	.....	0	0	0.5	0.8	12.8
1896	T	T	4.5	0	0	.....	.....	.....	0	0	T	0	4.5
1897	2.0	5.0	1.0	0	0	.....	.....	.....	0	0	T	3.0	11.0
1898	12.5	2.5	†	0	0	.....	.....	.....	0	0	11.0	7.0	†
1899	T	2.0	1.0	0.5	0	.....	.....	.....	0	0	2.0	1.5	7.0
1900	1.0	13.5	T	7.0	0	.....	.....	.....	0	0	1.0	0	22.5
1901	†	14.5	4.5	5.0	0	.....	.....	.....	0	0	0	7.0	†
1902	10.0	5.5	T	0	0	.....	.....	.....	0	0	T	13.5	29.0
1903	1.5	42.0	0.2	1.0	0	.....	.....	.....	0	0	0	†	44.7
1904	1.0	T	0	0	0	.....	.....	.....	†	†	†	†	†
1905	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1906	3.5	T	9.5	0	0	.....	.....	.....	0	0	3.2	T	16.2
1907	0.8	0.8	T	2.0	1.0	.....	.....	.....	0	0	T	14.0	18.6
1908	T	1.0	0	0	0	.....	.....	.....	0	0	4.0	0.5	5.5
1909	2.2	3.0	5.5	0.5	0	.....	.....	.....	0	0	3.0	9.5	23.7
1910	5.0	2.8	0	0	0	.....	.....	.....	0	T	T	1.0	8.8
1911	1.0	5.0	0	T	T	.....	.....	.....	0	T	T	8.5	14.5
1912	0.2	18.0	17.5	T	0	.....	.....	.....	0	1.0	2.5	T	39.2
1913	4.0	7.5	3.2	0.2	0	.....	.....	.....	0	0	1.2	T	17.1
1914	T	5.5	T	0	0	.....	.....	.....	0	1.0	T	4.2	9.7
1915	2.0	5.0	14.5	T	0	.....	.....	.....	0	0	T	0	21.5
1916	4.8	1.8	4.8	7.5	0	.....	.....	.....	0	2.0	0.2	9.2	30.3
1917	2.5	T	0.2	T	0	.....	.....	.....	0	0.5	0	2.0	5.2
1918	8.0	6.0	0	T	0	.....	.....	.....	0	1.5	0	8.0	26.3
1919	T	15.5	4.0	12.0	0	.....	.....	.....	0	0	4.0	0	37.5
1920	T	T	T	3.0	0	.....	.....	.....	0	0	2.0	1.0	6.0
1921	0	1.0	T	1.0	0	.....	.....	.....	0	0	0	5.0	7.0
1922	T	5.0	6.5	0	0	.....	.....	.....	0	0	0	0	11.5
1923	T	1.0	4.0	0	0	.....	.....	.....	0	0	0	2.0	7.0
1924	5.0	4.5	18.5	0	0	.....	.....	.....	0	0	0.5	9.2	37.7
1925	1.0	T	T	0	0	.....	.....	.....	0	T	6.0	0.5	7.5
1926	1.5	6.0	4.5	5.0	0	.....	.....	.....	0	0	1.0	2.0	20.0
1927	0.5	7.8	2.5	0	0	.....	.....	.....	0	0	0.5	1.0	12.3
1928	T	2.0	6.0	0	0	.....	.....	.....	0	3.0	1.0	T	12.0
1929	2.0	7.5	T	0	0	.....	.....	.....	0	0	6.5	T	16.0
1930	3.5	1.6	0	0	0	.....	.....	.....	0	0	0	1.2	6.3
1931	0	0.3	14.0	T	0	.....	.....	.....	0	0	7.2	2.6	24.1
1932	19.8	3.5	8.0	T	0	.....	.....	.....	0	0	0.7	3.0	35.0
1933	0	2.0	0.5	T	0	.....	.....	.....	0	0	0	0	2.5
1934	2.8	9.7	5.0	0	0	.....	.....	.....	0	0	3.5	0.2	21.2
1935	T	0.5	T	0	0	.....	.....	.....	0	0	4.0	1.0	5.5
1936	1.7	2.0	1.0	2.5	0	.....	.....	.....	0	T	T	0.7	7.9
1937	3.3	5.0	3.6	0	0	.....	.....	.....	0	0	4.0	1.8	17.7
1938	T	1.0	0	4.0	0	.....	.....	.....	0	0	0.5	T	5.5
1939	2.0	10.5	4.4	T	0	.....	.....	.....	0	0	0	7.0	23.9
1940	9.5	4.5	3.5	0.5	0	.....	.....	.....	0	0	6.0	7.9	31.9
Average	2.6	5.2	3.3	1.2	T	.....	.....	.....	0	0.2	1.7	3.2	17.4

† Data missing.

TABLE 38. Amount of evaporation (inches) and average hourly wind movement (miles), by months, at Hays, Ellis County †

Year	Data	April	May	June	July	Aug.	Sept.
1907	Evaporation.....	6.520	7.199	7.261	8.612	7.846	7.210
	Wind movement.....	a	a	a	a	a	a
1908	Evaporation.....	6.450	7.181	7.977	7.967	8.181	6.625
	Wind movement.....	a	8.4	8.6	5.7	6.4	6.1
1909	Evaporation.....	6.370	9.203	7.211	7.735	10.215	6.737
	Wind movement.....	12.2	10.8	7.1	4.7	6.1	6.0
1910	Evaporation.....	8.339	4.855	7.797	9.253	7.601	5.969
	Wind movement.....	10.1	6.6	6.4	5.3	6.5	7.2
1911	Evaporation.....	6.564	8.887	13.981	11.885	10.274	8.233
	Wind movement.....	11.6	13.2	9.9	8.1	7.5	9.5
1912	Evaporation.....	6.077	8.284	6.417	9.987	9.178	7.022
	Wind movement.....	11.9	10.0	6.5	7.7	7.7	8.1
1913	Evaporation.....	6.606	7.640	8.521	13.815	14.451	7.246
	Wind movement.....	12.0	8.8	10.0	10.0	8.6	8.0
1914	Evaporation.....	5.753	5.094	9.282	9.256	9.817	7.889
	Wind movement.....	9.8	8.1	8.6	5.3	7.1	7.8
1915	Evaporation.....	4.486	5.529	5.328	7.059	5.381	5.494
	Wind movement.....	8.7	8.3	6.9	5.7	4.0	6.3
1916	Evaporation.....	4.228	7.037	7.731	12.201	11.125	7.909
	Wind movement.....	9.1	8.9	7.2	7.1	8.3	8.8
1917	Evaporation.....	6.354	6.527	11.089	11.871	8.140	6.488
	Wind movement.....	12.1	9.4	9.3	7.4	5.7	6.3
1918	Evaporation.....	4.325	7.491	8.936	9.062	11.244	6.511
	Wind movement.....	10.0	10.5	5.9	6.3	7.0	6.9
1919	Evaporation.....	4.065	4.528	5.405	10.272	9.344	7.382
	Wind movement.....	10.2	6.5	5.7	7.2	5.8	7.8
1920	Evaporation.....	4.783	4.682	8.117	9.646	6.291	6.657
	Wind movement.....	11.0	7.3	7.5	5.7	5.5	6.7
1921	Evaporation.....	6.174	7.252	6.043	8.671	8.188	8.229
	Wind movement.....	10.6	8.3	5.3	6.1	5.4	8.2
1922	Evaporation.....	4.388	5.912	7.931	8.258	10.531	10.300
	Wind movement.....	10.1	7.9	6.7	7.1	6.2	8.8
1923	Evaporation.....	5.997	5.578	6.583	9.823	8.584	6.238
	Wind movement.....	11.3	8.6	7.4	7.1	6.2	7.2
1924	Evaporation.....	5.483	6.782	7.738	10.835	10.325	7.459
	Wind movement.....	9.7	7.8	7.0	7.6	7.5	7.8
1925	Evaporation.....	6.002	6.784	11.633	9.487	7.925	6.978
	Wind movement.....	9.5	7.8	10.6	6.2	5.6	7.2
1926	Evaporation.....	5.501	7.357	9.382	11.408	11.159	7.227
	Wind movement.....	8.2	8.8	7.7	5.2	6.9	10.2
1927	Evaporation.....	4.559	7.809	7.660	9.261	6.270	6.963
	Wind movement.....	8.0	11.0	8.6	6.2	5.4	6.7
1928	Evaporation.....	6.407	6.454	4.965	8.002	8.159	8.321
	Wind movement.....	10.0	7.6	7.3	6.6	6.4	7.3
1929	Evaporation.....	5.584	5.320	7.968	9.340	8.482	7.043
	Wind movement.....	10.2	8.8	7.6	7.0	6.3	8.6
1930	Evaporation.....	*5.230	*6.097	*8.420	*10.821	9.801	6.379
	Wind movement.....	a	a	a	a	6.7	5.9

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TABLE 38. (Concluded)

Year	Data	April	May	June	July	Aug.	Sept.
1931	Evaporation.....	4.718	6.575	9.517	10.267	9.560	11.634
	Wind movement.....	8.4	8.7	7.9	6.8	6.6	9.6
1932	Evaporation.....	5.811	7.119	6.693	11.029	9.511	6.151
	Wind movement.....	10.8	7.7	5.3	7.5	7.3	6.3
1933	Evaporation.....	6.850	6.990	12.875	12.442	8.896	8.400
	Wind movement.....	9.6	8.6	8.3	6.8	6.6	7.8
1934	Evaporation.....	7.010	10.740	12.645	16.322	13.054	6.581
	Wind movement.....	9.1	10.1	9.8	10.0	8.3	9.8
1935	Evaporation.....	7.285	5.503	6.907	13.149	11.317	7.531
	Wind movement.....	13.4	10.2	8.1	8.1	8.2	8.2
1936	Evaporation.....	7.305	6.800	10.110	14.635	12.081	8.031
	Wind movement.....	9.6	7.7	6.7	7.8	6.0	8.6
1937	Evaporation.....	6.827	8.417	9.896	11.483	11.783	7.879
	Wind movement.....	10.8	9.3	8.8	7.3	7.9	7.4
1938	Evaporation.....	5.222	4.722	7.724	11.201	12.442	7.752
	Wind movement.....	11.8	7.6	6.9	6.8	8.9	6.5
1939	Evaporation.....	5.785	9.525	11.179	13.597	9.846	10.770
	Wind movement.....	10.8	9.2	9.8	8.8	7.7	9.7
1940	Evaporation.....	5.835	7.734	10.374	11.522	7.403	6.407
	Wind movement.....	11.1	8.4	8.9	8.6	5.9	7.2
Avg.	Evaporation.....	5.850	6.871	8.567	10.594	9.541	7.460
	Wind movement.....	10.4	8.8	7.8	7.1	6.7	7.7

a. No record. * Interpolated.

† The evaporation apparatus is composed of a galvanized tank 24 inches deep and 72 inches in diameter, set in the ground to a depth of 20 inches. The tank is kept filled with water to a depth of approximately 20 inches. The apparatus for determining wind movement consists of a 3-cup anemometer, 4 inches above ground level.

TABLE 39. Mean temperature, by months and years, at Hutchinson, Reno County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1891								78.7	71.3	57.3	42.8	41.6	
1892	31.0	39.7	41.6	54.6	61.5	74.5	76.7	77.2	71.8	60.4	44.8	28.4	55.2
1893	33.8	31.8	44.4	37.1	62.4	74.6	80.2	75.2	72.4	61.1	44.2	41.2	56.5
1894	33.6	29.8	48.4	39.4	66.2	74.9	75.8	78.6	70.0	61.6	45.9	38.4	56.9
1895	38.8	26.0	45.2	60.3	66.7	73.4	73.8	77.5	75.0	56.2	44.2	37.8	55.4
1896	38.2	43.6	41.8	62.7	71.2	74.8	78.4	80.6	68.7	56.6	42.8	43.7	58.5
1897	32.2		47.8	57.0	64.8	76.0	80.2	78.2	75.3			34.3	
1898	35.0	40.8	44.6	55.2	64.4	74.8					42.1		
1899			39.4	56.4	68.3	72.8	76.5	81.4	69.8	64.6	51.3	35.8	
1900	39.2	31.7	45.1	55.8	66.2	74.6	78.5	81.0	70.4	62.8	43.0	35.9	57.0
1901	33.2	28.6	43.2	52.6	63.2	76.4	84.6	79.8	70.0	59.3	46.4	31.3	55.7
1902	30.2	27.2	44.8	55.3	68.0	71.4	76.4	77.4	63.7	59.4	47.1	28.6	54.1
1903	32.4	27.2	43.0	55.3	61.7	66.0	78.8	75.2	66.0	56.8	41.4	34.0	53.2
1904	27.6	31.8	48.0	50.6	61.7	69.5	74.0	73.1	69.4	57.9	46.2	30.6	53.4
1905	21.2	21.4	51.0	53.8	64.1	76.2	75.0	79.1	72.2	54.2	46.4	34.0	54.0
1906	35.8	37.2	34.1	58.5	65.4	72.9	74.0	76.4	70.4	54.5	42.2	38.5	55.0
1907	32.3	36.0	53.4	48.8	58.2	72.8	78.5	78.6	71.2	58.0	43.8	35.6	55.6
1908	37.6	38.4	49.5	56.8	64.4	72.8	76.3	76.5	69.9	55.7	44.3	37.1	56.6
1909	29.0	38.6	43.2	54.4	63.4	74.1	79.1	80.4	71.8	58.0	49.4	25.2	55.6
1910	31.6	31.4	56.4	59.3	61.2	73.1	81.2	77.4	71.6	60.8	45.8	34.0	57.0
1911	34.7	36.9	48.0	55.4	66.7	80.6	79.2	77.2	76.9	57.1	40.4	31.4	57.0
1912	19.0	32.3	32.6	55.0	67.6	69.8	81.7	79.1	67.0	58.4	46.0	33.9	53.5
1913	29.8	26.4	39.8	57.7	68.0	75.8	83.7	84.0	67.8		48.8	33.4	
1914	38.3	30.4	45.2	54.6	65.4	80.0	81.4	78.7		58.0	48.4	25.3	
1915	29.2	37.6	32.2	58.9	59.7	70.6	75.0	70.2	70.6	58.6	50.5	35.8	54.1
1916	23.2	32.2	47.4	51.2	64.6	71.3	80.4	81.8	68.4	58.0	44.2	29.2	54.3
1917	32.5	32.2	45.0	51.8	57.6	73.5	82.0	73.4	70.8	51.7 ^f	49.0 ^a	25.2	53.7
1918		36.1	50.2	50.0	68.1	78.3	78.6	83.2 ^a	64.8	61.2	43.0		
1919	31.2	34.3	45.6 ^c	54.9	62.4	73.4	81.0	80.7	74.4	55.6 ^b	40.8	28.4	55.3
1920	32.8	37.4	47.4	50.8	64.3	74.7	79.4	74.6	70.4	61.0		34.0	
1921	35.8	39.7	50.8 ^b	55.2	66.8	75.2	80.8	80.4	75.2	61.6	44.9	35.2	58.5
1922	30.0	35.8	45.4	58.0 ^b	67.1 ^a	77.2	78.2	82.1	76.0	63.0	45.4		
1923			44.4	56.5	63.9	75.4	80.4	82.4	73.3	54.2 ^a	48.2	39.6	
1924	27.1	38.2	37.5	57.5	60.6	77.0	75.5	82.0	67.7	63.2	46.6	24.8	54.8
1925	26.2		51.0	62.8 ^d	64.2	81.0	82.4	79.0	73.3	48.4	42.6 ^f		
1926	31.6	42.3	42.6 ^a	49.8 ^a	68.2	75.4	79.8	81.2	69.8 ^a	58.9	41.3	33.9 ^a	56.2
1927	33.2 ^a	39.7	45.3	59.0	66.8	73.3	78.5	71.4	70.4	62.2	46.5	28.5	56.2
1928	35.9	38.6	48.4	52.8	65.4	68.6	78.7	79.4	70.4	61.6	44.3	37.4	56.8
1929	25.7	26.6	47.7 ^b	59.2	62.6	73.8	79.8 ^b	81.7	69.4	59.8	37.4	36.4	55.0
1930	18.2	47.6	43.8	61.6	64.6	74.8	83.4	81.6	71.8	56.2	46.9	34.2	57.1
1931	37.8	42.0	39.8	54.2	61.6	80.3	82.3	76.4	79.4	62.8	48.0	39.9	58.7
1932	29.0	42.0	37.8	59.2	66.0	75.0	83.0	81.2	70.4	57.6	42.2	29.0	56.0
1933	40.2	31.9	46.8	55.7	65.3	83.2	82.4	77.6	75.1	59.4	49.0	40.2	58.9
1934	36.3	36.8	45.4	67.1	68.6	82.6	88.4	85.2	66.7	63.2	48.9	34.8	59.5
1935	35.4	39.1	52.6	52.8	60.5	71.4	83.9	80.8	69.6 ^b	56.0	39.8	33.2	56.3
1936	27.0 ^a	22.8	49.6	55.8	68.8	77.3	86.8	86.2	71.9	55.8	44.0	39.0	57.1
1937	22.2	32.3	41.2	56.4	67.1	74.6	82.1	83.8	71.9	57.4	41.5	33.0	55.3
1938	35.7	37.6	52.1	56.0	64.3	74.4	81.3	83.8	73.5	66.0	43.8	36.6	58.8
1939	39.2	31.1 ^a	47.2	55.1 ^a	68.5	75.1 ^a	82.5	77.4	74.4	62.3 ^b	43.0	38.0	57.8
1940	14.4	32.8	44.8	54.0	63.6	74.3	81.6	78.0	71.6	64.8	40.9	36.6	54.8
Average	31.2	34.5	45.2	55.8	64.7	74.8	79.6	79.1	71.1	58.9	44.8	34.2	56.0

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents two days, etc.

TABLE 40. *Precipitation, by months and years, at Hutchinson, Reno County*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1891	2.00	1.24	3.57	1.04	8.20	3.00	3.96	1.47	2.86	2.48	0.32	0.96	31.10
1892	.30	3.56	2.32	1.15	4.78	3.26	3.86	1.51	.79	3.43	.49	2.11	27.56
1893	.14	1.24	.10	.33	2.01	3.86	3.47	1.74	2.08	.09	.50	1.01	16.57
1894	.30	1.20	.69	2.49	1.97	8.87	4.34	.50	3.27	2.45	.02	1.53	27.63
1895	.57	1.47	.98	1.18	1.70	6.76	8.55	5.17	.86	1.66	1.03	.56	29.49
1896	.72	.34	1.15	2.97	2.06	6.51	6.72	.85	6.44	4.45	1.70	.53	34.44
1897	.95	1.20	.08	3.19	2.98	1.18	3.43	1.12	1.76	*1.25	*.07	1.17	18.88
1898	1.47	.50	1.81	6.40	3.88	5.93	3.20	5.49	3.46	1.91	1.12	2.59	37.76
1899	.69	.53	1.50	1.58	3.57	6.10	4.40	1.62	2.31	2.05	.80	1.32	26.47
1900	.28	1.95	.61	2.18	3.89	3.46	1.66	2.42	6.32	3.37	.52	1.35	27.01
1901	.25	1.40	1.73	3.81	1.09	4.00	1.54	2.42	2.49	6.30	.27	.25	25.55
1902	1.11	1.42	2.02	.68	8.98	4.90	1.14	8.25	1.75	2.22	1.48	.83	34.73
1903	.40	2.62	.90	2.64	7.51	1.48	3.04	1.91	2.84	3.44	.68	.17	27.63
1904	.16	.10	.33	3.77	5.26	5.58	9.37	3.15	2.31	.66	.14	.50	31.33
1905	.92	.60	2.43	2.05	3.86	5.84	6.74	1.32	7.57	1.65	2.42	.12	35.52
1906	.74	.52	2.49	3.49	1.08	1.32	4.51	7.85	3.90	1.72	2.21	.51	30.32
1907	1.57	1.07	.48	.64	2.82	3.52	4.77	3.10	1.36	3.98	.56	1.69	25.56
1908	.11	.58	.18	2.30	7.26	8.58	3.71	3.70	2.15	1.31	1.51	T	31.89
1909	.57	.35	1.33	1.33	4.82	7.73	4.52	2.53	1.03	2.85	6.52	1.04	34.62
1910	1.67	.19	T	.98	3.74	.89	1.56	3.50	3.03	.17	.01	.41	16.15
1911	.08	6.38	.13	1.71	2.43	.63	3.48	2.29	3.17	.93	1.17	3.11	25.51
1912	.09	2.08	3.39	2.07	3.87	2.95	3.35	3.95	3.89	1.52	T	.36	27.52
1913	.75	3.49	1.57	1.24	3.54	2.03	1.30	.01	5.04	*3.25	1.79	3.88	27.89
1914	T	2.00	.10	3.77	2.75	2.61	1.57	.57	2.48	0	0	.73	16.58
1915	2.13	2.26	*1.90	2.93	6.43	6.42	3.57	7.02	3.24	2.32	.32	.08	38.62
1916	2.53	.34	.80	2.68	5.14	7.04	0	.63	5.12	1.41	1.65	1.86	29.20
1917	.15	T	.85	3.79	3.94	2.03	.31	4.29	.58	T	.42	*.30	16.66
1918	.16	.15	2.97	5.16	3.38	.64	2.59	2.14	3.80	3.94	1.06	3.00	28.99
1919	.01	1.95	3.75	4.45	2.84	4.46	1.30	.60	.91	1.15	2.75	.50	24.67
1920	.17	.46	1.05	1.56	5.23	.97	.98	1.99	2.87	1.80	1.52	1.84	20.44
1921	1.60	T	.51	2.84	.24	3.83	2.67	2.69	1.08	.48	T	.26	16.20
1922	.03	1.20	5.60	5.40	5.29	2.75	6.33	.95	1.51	1.71	5.68	.02	36.47
1923	.01	.01	1.26	3.38	6.17	7.91	.78	.81	3.90	4.20	.92	.43	29.78
1924	.09	.45	3.17	5.71	1.41	1.65	3.88	1.33	1.26	.68	.09	1.36	21.08
1925	.43	.03	.34	3.15	2.64	3.50	3.10	4.40	6.18	1.38	1.29	*T	26.44
1926	1.00	.50	1.95	1.68	1.07	1.02	2.56	1.38	4.84	3.17	3.74	.59	23.50
1927	.26	.57	3.44	4.58	4.00	4.94	2.77	10.77	3.41	.88	.14	.20	35.96
1928	.08	2.35	2.27	2.47	3.12	10.21	1.92	2.12	.72	1.55	3.82	.91	31.54
1929	1.63	1.28	.05	1.81	5.70	5.62	7.10	2.31	1.43	3.55	3.03	.12	33.63
1930	.72	.02	.29	2.20	8.53	3.45	1.87	5.27	3.62	2.35	3.05	.21	31.58
1931	.27	.29	3.03	1.95	2.67	1.84	.74	2.79	4.63	1.39	5.02	.66	25.28
1932	1.42	.92	1.15	1.53	3.89	5.74	2.19	2.95	1.30	.50	.06	1.03	22.68
1933	.09	.37	1.57	.87	6.53	.21	4.90	5.92	.59	.27	.75	1.32	23.39
1934	1.27	1.32	1.13	1.36	4.23	1.05	.65	.64	7.35	2.58	2.23	.47	24.28
1935	.88	1.14	1.62	2.34	14.02	6.70	2.12	3.01	2.00	2.48	2.16	.12	38.59
1936	.91	.21	T	.83	6.90	1.48	.49	.43	8.21	3.02	T	.74	23.22
1937	2.09	1.11	1.04	.20	4.64	3.33	6.24	3.24	.96	1.58	.51	.24	25.18
1938	T	1.68	1.49	2.86	9.54	6.18	1.39	4.13	.94	.04	3.96	.11	32.32
1939	.57	1.50	1.64	1.16	1.16	11.36	2.20	5.32	.57	.42	.94	1.16	28.00
1940	.93	1.19	1.23	5.26	5.08	2.89	2.56	3.43	1.93	.90	2.61	1.07	29.08
Average	.71	1.15	1.48	2.43	4.36	4.17	3.21	2.96	2.88	1.99	1.46	.89	27.69

* Estimated from surrounding stations.

TABLE 41. Snowfall by months and years, at Hutchinson, Reno County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1893	1.4	12.4	T	0	0	.....	.....	.....	0	0	0.5	1.0	15.3
1894	1.0	11.0	T	0	0	.....	.....	.....	0	0	T	12.0	24.0
1895	5.0	1.1	3.8	T	0	.....	.....	.....	0	0	0.6	3.0	13.5
1896	1.5	1.0	4.5	0	0	.....	.....	.....	0	0	0	7.0	7.0
1897	6.0	12.0	2.0	0	0	.....	.....	.....	†	†	†	6.8	†
1898	13.8	T	T	0	0	.....	.....	.....	0	1.0	5.7	5.0	25.5
1899	6.5	4.3	10.0	1.0	0	.....	.....	.....	0	0	0	7.0	28.8
1900	T	17.5	0.2	1.0	0	.....	.....	.....	0	0	1.5	T	20.2
1901	1.0	14.0	2.0	5.0	0	.....	.....	.....	0	0	0	1.5	23.5
1902	11.0	13.0	4.0	0	0	.....	.....	.....	0	0	0	7.0	35.0
1903	4.0	17.0	T	1.0	0	.....	.....	.....	0	0	T	0	22.0
1904	0.5	T	0	1.0	0	.....	.....	.....	0	0	0	5.1	6.8
1905	7.5	7.5	T	1.0	0	.....	.....	.....	0	4.0	0	1.0	21.0
1906	3.2	1.0	7.0	0	0	.....	.....	.....	0	0	5.0	0	16.2
1907	0.8	3.0	0	T	0.5	.....	.....	.....	0	0	0	5.0	9.3
1908	T	0.3	T	0	0	.....	.....	.....	0	0	0.8	T	1.1
1909	5.0	0.5	2.5	0	0	.....	.....	.....	0	0	0	4.5	12.5
1910	3.0	0.8	0	0	0	.....	.....	.....	0	0	0	T	3.8
1911	T	5.8	0	0	0	.....	.....	.....	0	3.0	0.8	10.2	19.8
1912	1.0	10.0	17.0	0	0	.....	.....	.....	0	T	0	28.0	28.0
1913	5.0	18.5	1.2	T	0	.....	.....	.....	0	1.5	0	3.5	29.7
1914	T	3.1	0	0	0	.....	.....	.....	0	0	0	5.5	8.6
1915	7.0	5.0	10.5	0	0	.....	.....	.....	0	0	0	6.0	28.5
1916	8.0	2.0	4.0	0	0	.....	.....	.....	0	0	T	8.0	31.0
1917	1.5	T	4.0	T	0	.....	.....	.....	0	0	0	†	†
1918	8.0	0	T	T	0	.....	.....	.....	0	4.8	16.0	23.8	23.8
1919	T	16.0	3.0	0	0	.....	.....	.....	0	4.0	3.0	26.0	26.0
1920	1.0	0.1	T	4.0	0	.....	.....	.....	0	1.0	0.5	6.6	6.6
1921	1.5	0	0	T	0	.....	.....	.....	0	T	T	4.0	5.5
1922	T	6.0	12.0	0	0	.....	.....	.....	0	0	0	18.0	18.0
1923	T	†	0.5	0.5	0	.....	.....	.....	0	0	2.5	2.0	†
1924	4.0	2.0	19.0	0	0	.....	.....	.....	0	0	0	9.0	34.0
1925	9.4	0	0.5	0	0	.....	.....	.....	0	0	T	†	†
1926	9.5	1.0	12.0	4.0	0	.....	.....	.....	0	0	T	2.0	28.5
1927	1.2	3.5	3.0	0	0	.....	.....	.....	0	0	T	1.5	10.2
1928	1.0	1.5	7.1	6.0	0	.....	.....	.....	0	0	T	6.0	21.6
1929	6.0	14.0	T	0	0	.....	.....	.....	0	0	T	4.0	24.0
1930	9.0	T	0.5	0	0	.....	.....	.....	0	0	0	2.0	11.5
1931	4.0	T	13.3	0	0	.....	.....	.....	0	0	3.0	2.0	22.3
1932	8.2	8.5	9.7	0	0	.....	.....	.....	0	0.5	2.8	29.7	29.7
1933	0	4.8	T	0	0	.....	.....	.....	0	0	0	4.8	4.8
1934	2.2	7.2	1.0	0	0	.....	.....	.....	0	0	T	3.0	13.4
1935	0.5	T	5.0	0	0	.....	.....	.....	0	0	T	T	5.5
1936	9.0	3.0	0	T	0	.....	.....	.....	0	0	T	T	12.0
1937	T	12.0	7.5	0	0	.....	.....	.....	0	0	5.6	T	25.1
1938	T	12.0	0	10.0	0	.....	.....	.....	0	0	0.2	T	22.2
1939	1.2	21.0	2.0	T	0	.....	.....	.....	0	0	0	9.0	33.2
1940	10.5	9.0	1.0	1.0	0	.....	.....	.....	0	0	1.5	8.0	31.0
Average	3.7	6.0	3.5	0.9	T	.....	.....	.....	0	0.2	1.0	3.5	18.8

† Data missing.

KANSAS WEATHER AND CLIMATE

TABLE 42. Mean temperature, by months and years, at Wichita, Sedgwick County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1888	.....	.....	.....	.....	.....	.....	81.5	76.4	69.0	56.6	39.7	38.6	.....
1889	32.8	31.5	46.5	57.8	64.7	70.3	77.4	75.5	66.4	56.4	39.4	46.4	55.4
1890	29.9	35.3	43.6	57.0	64.5	77.2	82.4	77.2	66.2	58.0	45.9	39.7	56.4
1891	33.6	33.0	37.8	58.5	62.4	72.0	74.6	76.0	71.4	57.8	42.6	40.9	55.0
1892	29.1	38.5	39.6	54.6	61.7	74.9	77.4	77.5	71.6	59.6	44.0	27.6	54.7
1893	30.6	31.5	44.9	57.8	63.1	74.8	80.6	75.0	72.8	59.8	42.4	39.7	56.1
1894	32.1	28.0	49.0	60.0	66.3	75.2	78.2	79.2	70.8	61.4	46.0	37.8	57.0
1895	27.8	27.0	45.3	61.1	67.4	74.5	76.6	77.1	75.2	54.8	43.4	35.4	55.5
1896	35.7	40.2	41.4	63.7	71.8	74.2	78.4	81.6	68.3	56.8	41.8	42.4	58.0
1897	30.8	35.9	45.7	56.1	65.1	76.9	81.2	78.2	75.2	63.6	45.8	32.0	57.2
1898	34.3	39.0	44.4	54.6	65.0	75.6	77.4	77.3	72.0	56.4	41.0	30.6	55.6
1899	31.6	21.2	39.1	56.2	68.4	73.3	77.4	82.0	70.0	64.4	50.9	33.3	55.6
1900	37.4	29.8	44.2	58.2	66.3	75.8	78.4	81.7	72.2	63.3	44.4	37.2	57.4
1901	35.2	31.1	44.4	54.4	65.4	78.7	85.4	80.6	70.4	62.3	47.5	32.6	57.3
1902	31.8	28.6	47.2	56.8	69.2	72.8	78.0	79.5	64.8	61.2	47.9	30.6	55.7
1903	34.8	29.6	45.5	56.8	62.9	68.9	80.2	77.1	68.8	59.2	42.8	36.9	55.3
1904	32.6	35.5	48.9	52.7	63.4	72.0	76.7	76.0	73.1	61.0	49.2	33.7	56.2
1905	23.2	23.2	52.6	55.2	64.6	76.6	76.0	79.6	72.8	55.2	47.8	35.1	55.2
1906	36.4	36.9	34.2	60.2	66.2	73.3	74.4	77.3	71.4	55.4	42.5	38.2	55.5
1907	33.8	36.7	54.6	50.0	59.1	73.4	79.5	79.4	71.8	58.6	44.9	38.0	56.6
1908	37.6	39.3	50.6	56.6	65.3	73.1	76.6	77.1	70.1	56.2	46.3	38.0	57.2
1909	30.8	38.0	43.2	54.8	63.7	74.4	79.6	81.0	72.5	59.0	50.8	24.8	56.0
1910	33.0	30.8	58.1	58.7	61.6	73.3	81.4	77.4	72.2	61.3	46.4	35.1	57.4
1911	35.4	37.6	48.4	55.4	67.6	81.5	78.1	77.2	76.1	57.2	40.6	33.6	57.4
1912	21.8	32.0	33.6	54.7	68.0	70.8	81.6	78.2	67.7	60.6	46.8	36.2	54.3
1913	30.6	26.9	40.8	59.0	67.9	75.0	82.4	85.6	69.1	55.0	51.2	35.4	56.6
1914	38.5	32.0	46.2	56.0	64.8	79.6	82.4	78.6	73.6	59.3	50.9	25.7	57.3
1915	32.0	39.6	33.8	60.8	61.2	70.7	76.1	71.0	70.4	60.8	51.1	37.6	55.4
1916	27.1	33.4	48.7	52.2	66.2	72.4	83.0	81.6	69.3	58.8	46.2	31.0	55.8
1917	33.8	32.8	45.7	54.2	58.6	74.8	82.2	74.7	70.4	51.9	49.4	26.4	54.6
1918	19.4	36.1	50.9	50.8	68.0	79.8	78.7	83.7	65.4	61.4	44.8	37.4	56.4
1919	32.4	34.0	46.6	54.4	63.2	73.6	81.4	80.4	74.3	56.2	41.5	23.2	55.5
1920	31.7	37.1	47.1	51.0	65.4	73.6	78.5	74.4	71.2	62.8	40.9	35.8	55.8
1921	39.1	42.2	51.2	56.2	67.8	74.7	81.0	79.8	75.3	61.2	45.6	36.6	59.2
1922	30.8	35.8	44.8	55.5	66.2	76.1	77.5	80.8	73.4	60.0	47.6	38.4	57.2
1923	41.4	33.6	41.6	55.8	62.6	74.3	80.8	81.4	71.8	53.8	47.3	38.6	56.9
1924	27.9	37.4	37.6	56.2	59.3	76.9	77.0	80.8	67.2	63.4	48.1	27.0	54.9
1925	26.2	41.2	50.4	62.2	64.5	80.0	81.0	79.6	74.0	49.0	45.2	34.2	57.3
1926	33.4	43.3	42.1	50.3	67.4	73.6	78.8	79.8	69.4	59.8	41.8	34.0	56.1
1927	33.4	40.8	44.9	59.0	65.8	72.5	78.0	72.4	71.0	63.5	46.2	29.6	56.4
1928	36.3	38.6	48.0	52.8	66.5	69.3	79.3	79.8	70.4	62.2	44.9	37.6	57.1
1929	26.4	27.4	49.1	58.4	61.8	73.7	79.2	80.7	69.6	59.6	38.0	36.3	55.0
1930	19.0	48.6	44.0	62.0	63.8	74.4	82.3	80.7	72.9	56.6	47.0	35.6	57.2
1931	39.0	43.6	41.1	54.2	61.6	77.8	81.6	77.2	79.4	64.2	49.4	42.1	59.3
1932	32.4	43.2	38.1	59.9	67.0	75.0	82.8	80.6	71.5	56.8	42.4	31.4	56.8
1933	42.5	33.6	47.6	57.5	67.8	82.6	82.5	78.2	76.0	60.0	49.5	40.6	59.9
1934	36.5	37.9	45.0	57.8	69.2	82.2	88.2	85.3	66.4	64.2	49.6	34.2	59.7
1935	35.7	39.4	52.4	52.8	60.7	71.2	84.6	82.0	70.6	57.4	41.8	34.8	57.0
1936	28.0	25.0	51.0	56.5	69.6	79.0	87.8	89.0	74.2	56.1	44.8	39.8	58.4
1937	24.3	33.7	40.6	56.0	67.6	76.4	81.8	84.0	72.0	58.4	42.0	33.6	55.9
1938	35.6	38.9	51.9	56.7	64.6	74.6	82.2	84.2	74.2	67.0	43.9	38.0	59.3
1939	40.5	30.3	48.0	55.1	69.4	76.4	84.4	80.0	77.6	64.0	46.2	41.1	59.4
1940	16.2	34.8	46.2	54.6	65.6	75.4	81.4	77.4	71.0	65.8	40.7	37.5	55.6
Average	32.0	34.8	45.4	56.3	65.2	75.0	80.1	79.2	71.4	59.4	45.3	35.3	56.6

TABLE 43. *Precipitation, by months and years, at Wichita, Sedgwick County*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1888	.....	.....	.....	.....	.....	.....	1.04	7.77	1.89	1.36	1.29	0.71	.....
1889	0.82	0.57	2.41	5.18	3.88	7.89	4.72	3.79	2.10	2.14	1.14	0.03	34.67
1890	2.12	.35	.14	3.63	2.17	5.05	.95	2.60	1.96	2.39	1.72	.99	24.07
1891	2.66	1.95	3.36	1.26	9.15	4.90	5.59	.40	.72	2.95	.47	1.12	34.53
1892	.31	2.62	4.03	2.05	5.83	1.70	2.75	4.06	2.12	2.52	.24	1.71	29.94
1893	.78	.80	1.09	.25	2.22	3.41	5.02	1.51	2.10	.02	.91	.67	18.19
1894	1.19	1.01	.72	3.33	2.02	9.43	1.72	.94	9.72	2.01	.01	.75	32.44
1895	.57	1.19	1.81	.40	2.77	4.47	2.74	7.67	.86	.81	1.80	1.37	26.46
1896	.62	.37	1.58	3.26	3.02	7.10	3.40	.31	3.08	2.27	1.42	.63	27.06
1897	1.23	1.31	3.34	3.66	2.48	1.99	1.49	4.33	1.22	3.89	1.10	.97	26.01
1898	1.97	3.04	.95	5.16	8.32	5.24	5.30	2.78	1.55	2.02	1.13	2.00	39.46
1899	.38	2.20	2.53	1.58	5.72	6.81	4.62	2.45	4.75	1.55	1.09	1.81	33.49
1900	.10	2.10	.83	2.77	6.50	3.41	2.16	1.69	5.64	5.71	.21	.73	31.85
1901	.25	1.29	1.52	5.83	1.40	3.16	3.44	2.00	3.04	3.86	1.16	.52	27.47
1902	.32	.75	2.79	.87	10.33	7.11	4.12	5.28	2.69	2.02	1.76	.69	38.73
1903	.08	1.71	1.61	3.31	7.97	1.26	1.46	4.46	2.25	5.96	.75	.26	31.08
1904	.13	.04	4.23	2.65	5.74	5.69	7.46	1.42	3.10	.35	.07	.24	31.11
1905	.45	.64	3.67	2.14	4.24	5.53	5.39	1.84	6.70	1.63	2.59	.21	34.53
1906	.97	.58	1.68	3.09	3.40	1.82	6.88	3.30	4.33	2.12	2.92	.35	31.00
1907	2.97	1.53	.81	.91	4.12	3.62	3.37	5.80	1.88	4.10	7.79	1.61	31.51
1908	.16	2.50	.80	1.77	9.28	5.85	2.96	6.57	3.21	2.24	2.34	.03	37.71
1909	.27	.89	1.47	1.59	3.64	5.71	3.26	1.01	1.77	2.95	6.69	1.31	30.56
1910	.55	.63	T	.96	5.11	1.94	1.24	4.52	1.56	.52	T	.69	17.72
1911	.02	4.23	.10	2.19	4.66	T	5.95	4.32	10.56	.94	.87	3.05	36.89
1912	.12	2.32	3.07	3.87	5.18	3.27	1.28	3.14	3.36	2.18	.50	.85	29.14
1913	.41	2.43	.30	1.83	.97	1.36	1.28	T	3.52	4.18	1.73	3.93	21.94
1914	T	1.58	1.13	1.70	4.31	3.83	1.60	3.68	3.39	1.38	.11	.61	23.32
1915	1.35	4.61	1.97	3.29	8.34	5.90	3.82	4.81	4.69	1.66	.39	.40	41.23
1916	1.90	.13	1.50	3.87	5.11	8.32	.10	2.12	.86	2.32	2.93	.46	29.62
1917	.41	T	.66	2.52	4.84	.32	1.41	4.69	.92	.11	.02	.21	16.11
1918	.89	1.93	2.44	4.14	5.86	1.29	2.11	5.19	1.80	5.98	3.62	3.31	38.56
1919	T	2.49	2.37	4.40	4.72	2.68	.71	1.61	.23	1.64	1.99	.14	22.98
1920	.41	.32	1.13	1.56	2.97	3.76	4.05	4.40	4.16	2.75	2.68	1.76	29.95
1921	1.30	.14	2.18	4.09	1.41	4.31	.71	4.14	4.05	.52	T	.52	23.37
1922	.88	1.38	3.39	6.12	5.60	3.99	8.46	2.12	2.00	2.59	5.35	.06	41.94
1923	.02	T	1.70	1.64	5.47	14.43	.89	.42	3.26	5.52	1.26	.67	35.28
1924	.36	.58	2.61	4.38	2.93	3.36	3.64	1.70	2.51	1.70	.80	1.21	22.73
1925	.76	.10	.54	4.55	2.09	3.68	1.72	2.52	4.43	1.33	1.64	.59	23.95
1926	.80	1.44	2.16	1.64	2.47	3.03	3.47	2.74	5.01	5.68	1.63	1.11	30.18
1927	.55	.02	3.90	4.80	2.13	4.66	3.85	5.90	3.93	2.96	.32	.83	34.85
1928	.10	1.79	2.24	5.26	2.79	12.10	3.46	.70	.58	1.48	5.45	1.58	37.53
1929	2.08	.65	.88	4.04	5.84	7.13	7.08	1.30	.98	3.23	1.59	.04	34.84
1930	1.24	T	.22	1.68	5.02	2.36	1.06	2.96	5.29	2.55	3.05	.58	26.01
1931	.29	.64	2.52	2.49	2.37	5.50	.97	1.91	4.58	1.19	6.21	.69	29.36
1932	1.49	.94	.77	2.33	1.90	7.92	2.53	2.30	1.26	.40	.18	1.67	23.69
1933	.70	3.04	1.72	.86	2.29	.83	2.34	8.50	1.39	.74	.85	1.85	21.81
1934	.12	1.33	1.16	3.10	4.14	1.78	1.77	.38	4.25	1.89	2.90	1.03	24.15
1935	.87	1.39	.98	1.86	11.22	7.21	.39	1.55	3.11	4.41	2.99	.25	36.23
1936	.94	.02	T	.58	3.30	1.04	.21	.04	4.84	3.77	.01	.83	15.58
1937	1.54	.73	2.80	.57	4.13	3.99	4.77	2.86	1.80	1.12	.75	.58	25.64
1938	.12	2.48	1.91	2.85	8.14	4.49	2.24	5.60	2.62	1.16	2.05	.15	32.81
1939	1.09	1.93	1.57	2.14	3.25	8.90	.72	5.84	.80	1.14	.81	.95	28.64
1940	1.40	1.43	.74	6.15	5.82	4.85	.94	2.87	6.14	1.05	3.82	1.56	36.77
Average	.76	1.21	1.73	2.81	4.59	4.55	2.92	3.14	3.10	2.30	1.64	.96	29.71

TABLE 44. Snowfall, by months and years, at Wichita, Sedgwick County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1888	†	†	†	†	†	.....	.....	.....	0	0	9.0	3.1	†
1889	T	4.8	T	0	0	.....	.....	.....	0	0	1.6	0	6.4
1890	10.6	2.8	0.5	0	0	.....	.....	.....	0	0	0	0	13.9
1891	8.2	0.8	6.0	T	0	.....	.....	.....	0	0	T	0.6	15.6
1892	1.8	0.5	9.0	0	0	.....	.....	.....	0	0	0.4	13.9	25.6
1893	1.6	2.9	0.1	0	0	.....	.....	.....	0	T	0	1.9	6.5
1894	0.1	10.9	T	0	0	.....	.....	.....	0	T	T	6.2	17.2
1895	6.0	0.7	2.1	T	0	.....	.....	.....	0	0	0.1	2.0	10.9
1896	0.9	0.8	6.9	0	0	.....	.....	.....	0	0	T	T	8.6
1897	6.8	9.2	0.2	0	0	.....	.....	.....	0	0	0	6.3	22.5
1898	10.8	T	T	0	0	.....	.....	.....	0	0.5	5.1	6.7	22.1
1899	2.5	0.7	9.7	0	0	.....	.....	.....	0	0	0	8.7	22.6
1900	T	12.0	T	0.4	0	.....	.....	.....	0	0	0	0.2	12.6
1901	1.0	4.7	2.3	6.5	0	.....	.....	.....	0	0	0	0.9	15.4
1902	4.7	7.4	3.0	0	0	.....	.....	.....	0	0	T	3.1	18.2
1903	0.3	7.3	T	4.3	0	.....	.....	.....	0	0	0	0	11.9
1904	0.8	T	0	T	0	.....	.....	.....	0	0	0.2	2.8	3.8
1905	4.9	8.3	0.2	0.2	T	.....	.....	.....	0	2.5	0	0.7	16.8
1906	3.1	0.5	4.7	T	0	.....	.....	.....	0	0	8.7	T	17.0
1907	3.0	2.2	T	T	T	.....	.....	.....	0	0	T	1.2	6.4
1908	T	0.8	T	0	0	.....	.....	.....	0	0	T	T	0.8
1909	3.0	3.4	13.0	0	0	.....	.....	.....	0	0	0	6.0	25.4
1910	0.8	3.3	0	0	0	.....	.....	.....	0	0	T	1.2	5.3
1911	T	6.4	0.1	0	0	.....	.....	.....	0	T	2.3	6.2	15.0
1912	1.9	12.5	16.8	0	0	.....	.....	.....	0	0	T	0	31.2
1913	6.5	20.5	1.2	T	0	.....	.....	.....	0	1.3	0	4.9	34.4
1914	T	6.4	0.5	T	0	.....	.....	.....	0	0	0	3.3	10.2
1915	2.1	4.6	6.1	0	0	.....	.....	.....	0	0	0	2.5	15.3
1916	2.1	1.2	2.0	5.3	0	.....	.....	.....	0	T	0	1.2	11.8
1917	3.7	T	1.0	T	0	.....	.....	.....	0	0.1	0	2.1	6.9
1918	8.7	T	0	0.1	0	.....	.....	.....	0	0	2.1	16.3	27.2
1919	T	4.2	3.2	0	0	.....	.....	.....	0	0	1.5	0.2	9.1
1920	2.4	0.2	T	1.5	0	.....	.....	.....	0	0	T	T	4.1
1921	2.4	T	0.6	T	0	.....	.....	.....	0	0	T	3.9	6.9
1922	0.8	5.0	1.0	T	0	.....	.....	.....	0	0	0	T	6.8
1923	T	T	0.7	0	0	.....	.....	.....	0	0	1.8	0.1	2.6
1924	1.2	1.0	15.1	0	0	.....	.....	.....	0	0	0.1	5.6	23.0
1925	9.0	T	0	0	0	.....	.....	.....	0	0.4	0.2	1.9	11.5
1926	1.2	1.2	8.8	0	0	.....	.....	.....	0	T	0.2	0.7	12.1
1927	2.5	2.3	3.8	0	0	.....	.....	.....	0	0	2.3	2.7	13.6
1928	0.5	1.9	8.2	T	0	.....	.....	.....	0	0	0.9	5.3	16.8
1929	3.0	5.5	0	0	0	.....	.....	.....	0	0	1.2	0.4	10.1
1930	10.6	T	T	0	0	.....	.....	.....	0	0	T	4.4	15.0
1931	0.1	0	5.0	T	0	.....	.....	.....	0	0	3.0	T	8.1
1932	4.5	2.3	6.5	0	0	.....	.....	.....	0	0	T	2.3	15.6
1933	0	3.5	0.9	0	0	.....	.....	.....	0	0	T	0	4.4
1934	0.9	4.7	0.2	0	0	.....	.....	.....	0	0	0.2	3.0	9.0
1935	0.1	0.2	1.0	0	0	.....	.....	.....	0	0	0.1	0.1	1.5
1936	4.1	0.1	0	T	0	.....	.....	.....	0	0	T	2.1	6.3
1937	0.3	4.7	4.9	0	0	.....	.....	.....	0	0	4.9	T	14.8
1938	T	9.3	T	6.2	0	.....	.....	.....	0	0	0.2	T	15.7
1939	3.0	7.7	1.5	T	0	.....	.....	.....	0	0	0	5.0	17.2
1940	11.8	6.1	0.1	0.2	0	.....	.....	.....	0	0	1.7	0.7	20.6
Average	3.0	3.8	2.8	0.5	T	.....	.....	.....	0	0.1	0.9	2.6	13.7

† Data missing.

TABLE 45. Amount of evaporation (inches) and wind movement (miles), by months, at Wichita, Sedgwick County †

Year	Data	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
1918	Evaporation							6.472	5.510	2.367
	Wind movement							2,645	2,805	3,360
1919	Evaporation		5.248	5.914	6.665	10.297	9.748	8.353	4.081	
	Wind movement		4,075	2,166	1,593	1,757	1,896	3,077	3,273	
1920	Evaporation		6.408	5.884	8.652	8.691	7.196	7.198	5.938	
	Wind movement		5,065	3,058	3,018	1,797	1,550	2,060	3,474	
1921	Evaporation		7.289	7.675	6.862	†	10.911	8.666	8.218	
	Wind movement		4,152	2,251	2,625	2,736	2,435	3,450	3,892	
1922	Evaporation		5.513	6.339	8.901	8.243	10.052	9.459	6.445	
	Wind movement		3,992	2,292	1,738	1,553	2,237	2,509	2,521	
1923	Evaporation			6.721		10.284	13.444	7.017	3.437	
	Wind movement			2,620	1,965	2,025	2,760	2,590	2,060	
1924	Evaporation		6.736	7.205	9.910	10.057	10.747	7.784	6.222	
	Wind movement		3,585	2,510	2,802	2,395	2,933	2,562	2,704	
1925	Evaporation	7.207	7.212	8.024	11.671	10.961	11.028	8.435		
	Wind movement	4,872	3,862	2,532	3,142	1,973	2,132	2,564	3,083	
1926	Evaporation	†	4.775	8.571	10.657	10.687	9.775	6.581	†	
	Wind movement	†	3,295	2,650	2,631	2,344	1,562	2,707	2,777	
1927	Evaporation	†	6.020	6.873	8.457					
	Wind movement	4,117	3,086	2,769	2,296					
Avg.	Evaporation		6.150	7.023	8.972	9.889	10.363	7.774	5.693	
	Wind movement		3,889	2,539	2,423	2,073	2,189	2,685	2,954	

† Not a full month's record.

† The evaporation apparatus was composed of a galvanized tank 10 inches deep and 48 inches in diameter, mounted on a platform 4 inches above the ground. The tank was kept filled with water to a depth of approximately 8 inches. The apparatus for determining wind movement consisted of a 4-cup anemometer, mounted 3.6 inches above the rim of the tank.

KANSAS WEATHER AND CLIMATE

TABLE 46. Relative humidity, by months and years, at Wichita, Sedgwick County

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 a. m. Noon	6:30 p. m. Noon
1889	84	85	82	72	79	86	85	84	85	80	84	82	84
1890	87	88	85	71	82	76	71	82	84	76	79	71	81
1891	86	80	84	82	73	44	78	60	88	68	84	83	80
1892	79	83	85	71	81	86	76	55	80	56	79	58	80
1893	77	78	70	87	87	86	86	55	78	51	78	50	79
1894	78	80	85	80	68	48	69	46	72	52	70	46	71
1895	80	86	75	72	63	48	59	53	85	63	90	71	74
1896	79	72	76	60	76	52	76	57	76	46	77	50	71
1897	78	70	82	87	81	61	77	50	72	63	78	57	76
1898	81	80	76	81	74	50	70	52	80	64	84	81	81
1899	82	83	82	87	82	62	72	49	80	62	84	66	84
1900	80	59	74	68	74	63	77	55	83	61	79	54	80
1901	78	54	79	64	67	50	76	57	73	48	70	43	66
1902	75	60	79	69	70	49	72	47	84	70	80	64	84
1903	84	82	85	70	89	70	80	72	84	57	84	51	88
1904	82	81	86	82	75	49	83	63	84	64	84	82	85
1905	82	87	84	74	81	58	75	51	80	56	86	57	83
1906	80	88	76	48	85	71	75	53	78	54	79	50	88
1907	89	78	84	81	78	53	63	48	80	56	81	57	80
1908	70	49	76	62	76	48	79	67	82	61	85	63	81
1909	82	73	69	48	75	54	69	43	70	47	85	59	82
1910	80	67	80	59	64	32	64	38	80	59	74	48	71
1911	76	58	78	63	70	48	76	48	71	49	59	35	76
1912	84	72	84	67	83	79	80	61	79	54	77	49	84
1913	75	61	80	69	78	55	69	45	78	49	78	47	71
1914	81	65	84	64	71	43	78	53	83	62	77	52	74
1915	88	70	85	70	87	67	80	56	84	64	88	64	83
1916	89	77	86	68	69	44	81	60	77	52	84	62	70
1917	78	58	71	37	69	38	70	46	78	50	71	43	67
1918	90	69	74	75	48	49	75	60	76	44	46	78	49
1919	89	88	78	88	72	78	84	62	64	83	60	63	87
1920	89	75	82	59	60	69	43	40	82	47	50	80	66
1921	83	67	80	53	54	80	49	55	78	54	79	51	88
1922	80	69	65	68	46	48	82	88	60	81	62	84	59
1923	67	56	63	61	40	68	44	43	74	57	53	78	60
1924	73	63	69	72	53	62	74	62	67	49	48	50	82
1925	82	74	78	75	52	54	67	42	72	54	54	74	48
1926	86	66	74	78	52	48	76	53	54	75	48	51	78
1927	82	65	68	80	61	80	62	80	82	59	58	57	80
1928	76	54	54	81	61	64	78	52	52	71	48	46	70
1929	83	70	74	86	68	73	72	48	47	83	58	57	86
1930	84	68	74	76	50	52	67	42	39	68	41	41	84
1931	81	58	62	61	62	61	78	56	54	74	53	50	75
1932	85	70	81	56	63	78	48	43	70	44	44	81	54
1933	71	46	44	89	44	62	69	42	82	51	55	82	57
1934	79	67	63	70	49	69	48	42	62	42	44	72	44
1935	81	60	64	78	57	56	67	88	45	71	50	60	84
1936	77	60	63	74	50	52	57	30	26	57	32	33	77
1937	82	74	76	86	59	78	58	56	70	43	44	78	53
1938	89	47	79	67	61	76	83	51	83	61	63	81	51
1939	78	52	55	66	48	48	78	46	42	71	42	46	81
1940	85	73	80	89	69	75	80	52	82	48	51	81	47
Av.	80	68	76	75	61	75	50	58	78	54	56	78	54

TABLE 47. Mean temperature, by months and years, for Western Division

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	26.7	27.0	44.8	54.9	67.6	76.3	82.1	74.6	68.2	53.5	40.4	26.6	53.8
1888	20.3	38.0	35.1	55.3	59.3	73.6	79.5	72.7	66.6	52.6	35.3	35.1	51.7
1889	23.6	25.8	40.6	53.6	61.7	70.0	77.0	78.6	67.5	55.7	37.5	43.5	52.9
1890	28.1	32.6	42.4	53.2	64.9	77.7	83.4	76.3	66.1	54.0	42.6	35.7	54.8
1891	28.2	29.2	33.4	54.4	62.3	69.4	74.3	75.6	70.2	53.1	38.8	34.2	51.9
1892	27.1	33.6	36.8	51.1	55.7	71.4	77.0	75.9	68.5	55.0	40.9	26.8	51.6
1893	32.7	29.3	37.9	50.8	60.0	75.3	79.1	72.9	67.6	52.9	38.0	34.9	52.6
1894	26.6	21.5	43.1	55.1	65.2	73.2	78.0	76.0	66.7	56.1	42.2	31.1	52.9
1895	25.0	23.7	39.9	56.3	63.8	69.7	73.0	75.0	70.9	50.7	39.1	32.9	51.7
1896	35.1	37.9	38.5	57.7	66.4	74.1	77.3	77.9	64.8	52.6	34.2	38.8	54.6
1897	28.1	32.9	40.7	51.4	63.6	73.7	79.4	75.4	72.6	57.7	40.6	29.1	53.8
1898	30.1	37.0	40.6	53.5	60.3	73.7	77.5	78.5	66.3	51.7	39.8	27.1	53.0
1899	29.6	19.6	37.4	53.0	66.0	73.5	75.2	79.9	68.9	57.0	45.5	30.7	53.4
1900	35.3	29.6	42.5	51.9	63.6	74.5	77.3	80.0	68.0	59.2	41.0	34.2	55.3
1901	31.0	27.4	40.7	51.6	61.8	76.1	82.6	77.7	67.5	57.2	44.1	31.7	54.1
1902	30.2	31.8	44.0	54.5	66.4	70.5	76.4	78.7	64.6	57.1	43.2	27.2	53.9
1903	33.3	24.0	39.5	53.2	60.0	65.6	77.8	75.5	66.1	56.2	41.5	34.2	52.2
1904	29.2	33.7	46.0	51.2	61.8	68.9	75.5	74.7	68.9	57.5	44.7	31.5	53.6
1905	28.5	21.2	47.9	50.2	60.1	74.2	73.3	78.3	70.7	48.7	44.7	32.3	52.1
1906	36.1	35.5	32.0	56.1	63.4	69.9	72.5	75.5	67.8	52.5	40.0	38.3	53.3
1907	30.0	37.5	50.1	48.4	57.3	71.1	78.0	77.0	69.2	56.7	40.8	32.2	54.0
1908	34.5	35.9	46.2	54.9	62.7	72.1	75.6	75.7	70.0	54.2	42.1	33.5	54.8
1909	29.9	35.1	40.1	50.9	60.2	72.0	77.6	79.2	68.2	55.4	45.4	21.8	53.0
1910	29.9	30.9	54.2	55.8	59.6	73.0	79.2	75.0	70.0	58.9	43.7	34.1	55.4
1911	34.9	32.5	47.6	53.2	64.7	78.1	77.8	75.4	73.3	51.9	37.4	25.5	54.4
1912	18.4	32.2	30.1	51.8	64.4	68.0	77.5	74.6	63.2	55.2	43.9	33.1	51.0
1913	28.8	24.8	39.6	54.9	65.9	72.0	80.1	81.5	64.8	52.2	46.2	31.1	53.5
1914	37.8	30.4	42.4	53.3	62.0	75.6	77.3	76.2	70.9	56.7	46.5	23.1	54.4
1915	29.1	37.4	31.3	56.1	57.7	67.1	72.5	69.3	66.7	57.2	45.2	32.6	51.9
1916	24.1	34.7	47.5	49.4	62.2	69.1	80.4	76.9	66.1	54.8	40.2	27.2	52.7
1917	29.4	33.4	39.7	49.5	55.9	71.7	79.3	73.0	68.2	50.1	47.0	28.8	52.2
1918	21.9	37.2	48.5	46.8	65.1	76.7	77.0	78.7	62.9	58.6	39.9	31.6	53.7
1919	27.0	29.9	42.1	51.2	60.3	69.6	78.4	77.5	71.6	50.9	36.9	28.6	51.9
1920	32.8	35.0	43.4	46.6	60.7	70.9	77.0	71.5	67.8	58.3	38.8	32.7	53.0
1921	35.4	38.6	48.5	52.5	63.1	71.7	77.4	76.8	71.0	58.8	42.7	32.1	55.7
1922	27.2	32.4	40.2	51.5	62.1	73.5	76.8	79.4	72.2	57.3	43.3	33.4	54.1
1923	37.0	30.6	39.1	52.6	59.4	70.7	77.1	75.1	67.0	49.8	43.4	32.4	52.7
1924	27.0	35.6	31.7	52.6	56.2	72.7	75.2	77.4	64.5	58.4	43.8	22.3	51.4
1925	24.9	40.0	47.5	57.1	63.0	76.7	79.1	75.3	69.9	46.8	40.9	33.1	54.5
1926	32.6	40.8	40.5	48.4	63.9	71.7	77.7	78.1	68.1	58.0	39.5	29.9	54.1
1927	32.6	36.7	40.8	55.3	65.5	69.9	76.4	71.2	68.7	58.9	44.1	25.8	53.8
1928	35.4	35.0	44.4	50.1	62.5	65.0	76.1	74.5	66.7	55.8	41.4	34.0	53.6
1929	25.5	23.9	44.6	53.9	60.3	71.0	78.6	77.7	64.8	54.9	32.4	34.7	51.9
1930	17.9	44.6	39.8	57.0	60.3	72.1	79.4	77.8	68.4	53.4	42.2	32.3	53.8
1931	35.3	40.8	37.5	51.0	59.2	76.6	78.4	75.1	75.2	59.4	41.8	35.2	55.5
1932	26.5	39.3	36.3	55.5	64.8	70.8	81.4	78.3	66.9	53.4	41.7	25.6	53.4
1933	36.7	30.3	45.6	52.6	62.1	79.2	80.9	75.5	72.7	57.2	45.8	39.5	56.5
1934	36.7	36.3	44.1	55.9	69.7	78.5	85.6	81.2	63.0	60.7	45.9	33.8	57.6
1935	36.6	38.7	49.2	51.4	56.7	71.2	83.6	79.9	68.2	55.2	38.5	34.3	55.3
1936	23.3	22.4	46.2	52.9	65.7	76.1	83.2	81.9	70.0	53.5	42.6	36.1	54.9
1937	19.8	33.8	39.4	53.2	65.9	72.5	81.7	83.2	70.8	56.6	41.1	31.7	54.1
1938	34.8	37.2	49.0	53.2	62.4	73.6	80.2	82.5	71.2	62.5	40.0	35.4	56.8
1939	36.9	28.8	43.5	54.0	67.1	74.4	82.1	77.9	73.5	58.6	43.4	38.2	56.5
1940	15.8	34.4	44.3	53.3	63.1	73.5	81.9	75.6	70.4	61.5	39.4	36.2	54.1
Average	29.5	32.5	41.8	52.9	62.3	72.6	78.3	76.8	68.4	55.4	41.5	32.0	53.7

KANSAS WEATHER AND CLIMATE

TABLE 48. Precipitation, by months and years, for Western Division

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1887	0.17	0.55	0.04	4.22	2.64	2.47	2.49	4.03	1.64	1.02	0.39	0.40	20.06
1888	.16	1.09	1.17	4.37	3.03	2.04	3.14	3.51	.36	1.47	.20	.16	20.70
1889	1.13	.41	1.22	2.33	3.13	3.35	2.77	2.60	.53	2.39	.63	T	20.49
1890	.51	.36	.04	3.96	.99	1.76	1.45	1.87	.90	.68	.61	.06	13.19
1891	1.15	.22	2.33	1.60	3.99	5.24	4.23	1.08	3.77	1.32	.12	1.30	26.35
1892	.24	1.11	1.88	.74	5.27	1.58	2.63	3.30	.41	.61	.31	.62	18.70
1893	.07	.24	.06	.19	1.45	2.00	3.28	2.30	1.69	.22	.20	.23	11.93
1894	.21	1.14	.34	1.16	1.72	2.67	1.61	.71	1.62	.25	.04	.72	12.19
1895	.45	1.16	.25	1.40	2.89	4.87	5.98	1.90	.60	.72	.74	.43	21.39
1896	.87	.03	.42	3.99	1.81	3.51	2.74	2.29	1.67	1.74	.25	.26	19.58
1897	.43	.95	1.10	3.81	1.52	2.67	3.39	3.72	1.48	3.38	.10	.46	22.91
1898	.61	.14	.29	1.44	5.70	3.64	2.98	1.58	3.51	.92	.67	1.16	22.64
1899	.30	.37	.62	.51	1.69	3.76	5.55	1.07	1.32	.71	1.82	.54	18.26
1900	.08	.93	.64	4.66	1.41	3.14	2.25	1.36	3.23	.53	.09	.19	18.51
1901	.24	.69	1.32	3.01	1.37	1.60	1.55	3.20	2.97	.97	.10	.32	17.34
1902	.47	.43	1.35	.75	4.60	3.51	3.32	2.87	2.26	2.13	.18	.53	22.40
1903	.14	2.67	.52	2.77	3.84	2.42	2.32	2.95	.40	.98	.64	.13	19.78
1904	.05	T	.38	1.93	3.35	4.17	3.60	2.96	2.37	1.59	.07	.75	21.22
1905	.74	.57	1.08	3.92	3.57	2.56	4.76	1.06	1.90	.67	2.11	T	22.94
1906	.34	.42	1.22	3.34	1.69	2.81	4.46	2.49	2.55	2.68	.80	.36	23.16
1907	.33	.19	.45	.81	1.66	3.54	3.70	2.88	1.52	1.22	.26	1.27	17.83
1908	.05	1.01	.07	.68	2.03	4.99	3.22	2.60	3.79	1.62	1.10	.06	19.22
1909	.21	.28	1.46	.43	2.15	5.59	3.16	1.04	2.11	1.06	3.73	.87	22.09
1910	.39	.22	.01	.92	2.29	1.28	1.77	3.34	1.16	.24	.06	.13	11.81
1911	.11	2.00	.15	1.13	2.39	.72	3.34	2.84	1.01	1.14	.50	1.49	16.82
1912	.11	1.95	1.66	1.73	1.20	4.17	2.78	4.77	1.76	.54	.60	.06	21.33
1913	.28	.94	.36	1.95	1.36	2.76	1.21	.53	3.34	.25	1.25	3.14	17.37
1914	.09	.35	.14	1.87	3.77	3.08	2.62	2.99	.69	1.40	.61	.46	17.47
1915	.49	1.56	1.10	3.70	5.28	4.50	4.69	4.80	1.89	1.34	.23	.25	29.83
1916	.62	.03	.31	2.04	1.01	3.40	.87	2.50	.68	.92	.09	.38	12.85
1917	.22	.07	.35	1.86	2.14	1.27	1.90	3.83	2.21	.20	.43	.18	14.66
1918	.47	.79	1.75	1.51	3.14	.97	3.20	1.88	2.19	2.27	.45	3.11	21.73
1919	.03	1.50	1.24	2.89	1.85	2.67	2.88	1.96	3.57	1.28	1.29	.17	20.33
1920	.12	.15	.28	2.05	2.74	2.70	2.62	3.00	2.66	2.79	.53	.56	20.20
1921	.77	.43	.41	2.29	1.70	3.70	3.46	1.85	1.94	.36	.04	.54	17.49
1922	.18	.63	1.87	3.24	2.83	2.10	2.69	1.91	.70	.12	.96	.01	17.24
1923	.01	.10	.59	2.08	6.70	4.71	3.47	2.90	3.07	4.20	.44	.58	28.85
1924	.13	.76	2.72	1.24	1.18	.93	2.53	2.50	1.75	1.17	.15	1.25	16.31
1925	.08	.38	.37	1.94	2.02	1.67	2.74	3.78	2.89	.76	1.06	.15	17.84
1926	.18	.36	1.20	1.01	1.88	2.05	2.47	1.98	1.53	.15	.81	.57	14.19
1927	.11	.67	1.52	2.52	.70	4.41	3.37	3.73	1.63	.31	.13	.16	19.26
1928	.02	1.38	1.45	1.17	5.47	5.70	3.65	2.44	.81	2.78	1.59	.38	26.84
1929	.22	.49	.43	1.58	3.06	2.30	2.92	1.93	2.43	1.73	1.62	.09	18.80
1930	.27	.28	.15	2.04	3.46	2.54	2.65	2.49	1.72	5.47	1.62	.22	22.91
1931	.01	1.00	2.25	1.61	1.68	1.45	1.97	2.63	.64	.96	1.19	.27	15.66
1932	1.06	.43	.83	2.34	1.23	5.56	1.78	1.53	1.28	.62	.10	.24	17.00
1933	.02	.18	.58	2.17	3.48	.88	1.84	4.91	1.33	.50	.97	1.04	17.90
1934	.11	1.30	.55	.39	1.24	2.39	.74	1.44	1.45	.66	.66	.15	11.14
1935	.31	.25	.61	.25	4.65	2.90	.80	1.50	2.29	.58	.99	.16	15.29
1936	.34	.08	.11	.81	5.29	1.07	.93	1.32	2.21	.94	.02	.62	13.74
1937	.39	.37	.86	.39	1.44	3.03	1.70	1.57	1.27	1.22	.15	.29	12.68
1938	.09	.51	1.28	2.36	4.66	2.41	2.42	1.05	2.45	.35	.17	.17	17.92
1939	.63	1.03	1.63	1.13	1.66	2.60	1.39	1.35	.19	.10	.14	.94	12.79
1940	.62	.43	1.29	1.22	3.78	1.81	1.46	3.39	1.81	.46	1.57	.58	18.42
Average	.32	.66	.86	1.95	2.72	2.88	2.73	2.43	1.74	1.20	.67	.54	18.70

TABLE 49. Snowfall, by months and years, for Western Division

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual*
1898												5.6	19.5
1899	3.3	3.8	4.6	1.0	0				0	0	0	4.0	16.7
1900	0.3	8.6	2.1	5.7	0				0	0	0.2	1.6	18.4
1901	2.1	6.5	8.3	5.0	0				0	0	0	2.9	24.7
1902	4.3	4.1	1.3	T	0				0	0	T	7.0	16.7
1903	1.3	23.7	2.0	3.2	0				0	0	0.4	1.1	33.7
1904	0.4	T	0.1	0.3	T				0	T	0.3	7.4	8.6
1905	7.1	5.7	0.6	0.6	T				0	4.3	T	0.1	17.9
1906	3.5	0.7	10.4	0.6	0				0	0.7	T	3.0	19.4
1907	1.2	0.5	1.8	5.0	1.2				T	T	T	10.6	21.7
1908	0.5	5.7	0.1	T	T				0	0	6.9	0.6	13.1
1909	1.9	2.4	7.1	1.8	0								14.5
1910													7.3
1911													25.0
1912													31.1
1913													22.3
1914	1.1	3.3	0.3	0.3	0				0	0	0.1	4.4	9.3
1915	4.0	10.3	T	0.7	0.7				0	0	0.3	2.6	26.0
1916	3.3	0.3	3.0	5.2	0				0	1.4	1.0	3.7	18.0
1917	3.1	0.9	3.0	1.7	0.5				0	0.9	0.1	2.2	12.6
1918	5.9	5.4	0.3	1.0	0				T	0.6	2.0	18.2	32.6
1919	0.3	9.4	1.4	6.8	0				0	0.1	5.1	2.3	26.1
1920	1.4	1.2	1.4	4.8	T				0	T	1.1	2.4	11.7
1921	0.5	4.2	1.4	1.1	T				0	0.6	0.6	4.8	12.7
1922	0.2	5.3	10.1	2.4	T				0	T	1.1	T	20.1
1923	0.3	1.2	4.6	0.3	0				0	0.1	0.9	5.3	13.8
1924	1.9	7.7	29.0	0.3	0				0	T	0.7	11.9	52.8
1925	1.5	1.6	1.4	0	0				0	1.3	3.9	1.6	11.4
1926	0.9	2.6	5.2	3.0	0				0	0.1	1.4	4.4	17.4
1927	1.3	7.1	5.4	0.4	T		T		T	0	1.1	1.7	16.9
1928	0.2	4.0	6.5	1.0	0.1				0	0.9	3.4	1.9	17.4
1929	2.4	6.0	0.2	T	T				T	0.4	14.3	0.9	23.7
1930	3.7	0.8	0.7	T	0.3				0	T	2.8	2.4	10.7
1931	0.1	2.1	12.5	1.2	1.0				0	T	5.9	1.3	24.4
1932	10.8	2.4	4.6	0.5	0				0	T	0.3	3.0	21.4
1933	T	1.2	4.0	0.4	T				0	0	0.8	T	5.8
1934	1.2	10.4	4.2	0.2	T				0	0	2.3	1.2	19.8
1935	0.1	1.6	1.1	T	0				0.3	T	1.6	1.8	7.1
1936	4.3	1.3	0.7	1.9	0				T	0.8	0.2	4.0	13.1
1937	2.8	4.7	5.7	0.8	0				0	T	1.6	3.2	18.5
1938	0.1	3.2	0.2	4.5	0.9				0	T	1.4	1.9	12.3
1939	0.9	12.0	7.1	1.2	0				0	T	0.2	10.4	32.0
1940	9.5	4.8	4.8	1.4	0				0	0	5.2	4.6	30.2
Average	2.3	4.6	4.4	1.7	.1	T			T	.3	1.9	3.8	19.3

* The annual divisional average has been computed from the annual snowfall by stations rather than from the monthly averages given in this table.

Monthly data not yet available from July, 1909, to December, 1913, inclusive.

TABLE 50. Mean temperature, by months and years, at Colby, Thomas County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1892	.....	.....	.....	.....	.....	.....	.....	.....	65.7	52.6	38.4	23.7	.....
1893	31.1	27.6	36.1	47.6	57.4	72.8	78.6	70.8	66.7	52.6	37.5	24.4	51.0
1894	25.4	21.3	42.2	53.2	63.1	71.0	76.6	75.2	65.2	54.2	41.8	30.2	51.6
1895	23.6	22.4	38.2	54.2	60.9	67.6	70.5	72.2	68.2	48.8	37.2	29.6	49.4
1896	34.2	36.7	35.7	54.0	63.0	71.4	78.1	74.7	61.5	49.3	32.6	37.2	52.2
1897	26.6	32.4	36.4	48.8	61.4	70.2	78.0	72.3	69.4	53.7	39.4	26.7	51.1
1898	28.9	34.8	37.3	52.0	56.9	70.2	74.2	75.8	62.8	47.4	34.8	26.2	50.1
1899	27.8	15.8	33.9	50.2	61.8	70.5	74.0	77.4	67.8	54.8	43.1	30.1	50.6
1900	33.7	26.4	41.3	49.1	61.7	72.8	76.2	78.7	66.5	57.6	39.0	33.8	53.1
1901	29.0	24.8	37.7	48.4	59.7	73.8	81.6	75.9	65.0	55.2	41.8	30.1	50.9
1902	28.2	30.3	42.3	52.6	64.4	69.0	74.8	76.0	61.2	54.6	40.6	24.2	51.5
1903	30.8	22.2	36.6	50.4	57.2	64.2	75.0	73.0	64.1	53.8	40.0	33.6	50.1
1904	27.0	32.1	43.6	49.4	59.4	66.7	73.6	73.0	67.1	56.0	43.3	32.0	51.9
1905	.....	15.8	44.6	48.0	56.8	71.4	70.8	75.5	67.9	47.0	43.3	30.8	.....
1906	34.5	34.6	27.8	54.7	61.3	68.5	70.5	73.6	67.9	50.6	39.2	37.5	51.6
1907	26.2	35.6	48.8	46.8	55.6	69.8	.....	.....	67.3	55.8	39.6	29.2	.....
1908	32.8	33.2	44.2	53.2	59.2	70.8	.....	.....	69.3	52.8	40.4	29.6	.....
1909	29.2	32.6	38.3	48.4	59.4	70.4	75.8	78.4	65.2	54.1	42.9	18.4	51.9
1910	28.0	30.0	53.6	53.6	56.8	71.4	78.4	73.3	67.6	58.0	43.0	33.4	53.9
1911	32.9	33.6	46.1	49.0	63.4	76.6	77.0	71.2	61.2	49.2	36.8	26.6	53.1
1912	18.8	32.2	27.6	51.4	63.6	68.8	76.0	73.4	61.4	53.8	43.0	33.5	50.1
1913	27.8	24.6	38.8	54.0	62.9	69.3	78.4	79.8	60.4	45.7	36.6	21.7	51.8
1914	35.9	29.8	40.2	53.0	60.8	74.2	75.2	74.9	69.0	56.0	46.2	31.7	53.1
1915	28.2	36.1	29.3	55.2	56.5	65.4	70.4	67.2	64.6	56.6	44.3	32.0	50.5
1916	22.8	34.6	45.8	48.6	59.4	66.8	79.8	75.6	65.7	53.0	39.0	24.6	51.3
1917	28.5	33.5	37.0	47.3	53.4	69.8	77.8	71.8	67.7	48.6a	46.6	29.2	50.9
1918	21.4	36.3	46.6	44.2	62.7	75.6	76.0	77.7	61.8	57.0	38.6	30.2	52.3
1919	25.6	26.3	40.0	48.7	57.8	68.0a	77.0	76.4	70.0	48.2b	35.1b	28.6	50.1
1920	32.2	33.8	42.0	43.5a	58.6	68.2	75.6	70.4	66.6	56.8	38.4	30.0	51.3
1921	34.0	37.7	.....	53.6g	61.8	70.4	75.5	75.9	69.0	57.9	42.2	33.2	.....
1922	25.8	30.0	39.0	49.2	60.6	72.4	77.0	78.4	70.8	56.7	41.4	32.3	52.8
1923	35.8	30.2	37.2	50.6	57.2	70.0	75.4	73.0	65.8	48.4	43.2	30.4	51.4
1924	26.9	34.4	31.0	51.5	55.3	71.4	74.0	76.0	62.6	37.6	42.4	20.2	50.3
1925	22.4	40.0	46.0	54.8	60.7	75.6	79.3	75.2	69.0	44.4	41.3	32.6	53.4
1926	33.2	40.0	41.2	48.8	63.8	71.1	78.8	79.1	66.5	57.4	38.6	29.8	54.0
1927	31.4	35.0	38.5	54.6	64.5	68.0	75.6	70.7	68.0	58.8	43.2	24.5	52.7
1928	34.0	33.2	43.5	48.8	61.4	63.3	74.3	74.9e	66.4	55.2	40.6	33.2	52.4
1929	24.6	21.8	43.8	52.2	59.2	70.4	79.4	77.4	62.7	53.4	31.2	34.5	50.9
1930	16.4	44.2	39.2	55.5	58.8	69.4	79.8	77.5	67.8	52.0	40.1	32.6	52.8
1931	35.8a	40.0	35.2a	50.3	57.9	75.0	74.0	73.6	58.4	41.0	30.2	54.0	.....
1932	24.6	36.8	34.4	54.2	63.6	70.0	81.2	76.6	66.8	52.0	41.5	24.0	52.1
1933	36.0	29.0	44.6	51.6	59.5	78.0	78.8	73.4	70.8	55.9a	44.8	39.6	55.2
1934	35.5	35.2	43.0	54.6	69.8	76.0	84.0	80.3	63.8	59.5	45.0	32.5d	56.6
1935	35.7	35.6	46.4	49.2	54.8	69.2	83.0	79.4	68.8	54.4	37.2	32.0	53.8
1936	27.1	20.2	43.2	50.8	64.5	76.1	83.0	80.9	68.3	52.3	41.7	34.4	53.6
1937	17.2	33.1	37.7	51.4	64.1	70.9	80.0	81.3	69.0	55.3	40.4	31.1	52.6
1938	33.2	35.8	47.2	52.2	60.8	72.4	79.2	81.5	70.8	61.8	39.2	34.4	55.7
1939	36.2	26.2	41.3	51.8	66.0	72.8	81.4	76.2	71.6	56.4	42.4	38.4	55.1
1940	14.6	31.4	41.2	50.6	60.7	73.2	80.3	73.8	68.7	59.2	36.8	35.1	52.1
Average	28.8	31.3	40.1	51.0	60.4	70.8	76.8	75.5	66.8	54.0	40.5	30.4	52.2

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents two days, etc.

TABLE 51. *Precipitation, by months and years, at Colby, Thomas County*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1888	0.04	1.21	0.85	3.20	4.20	2.35	2.05	2.70	0.05	1.05	0.70	0.08	18.48
1889	.89	.11	1.22	1.50	2.28	4.33	2.41	*2.80	*1.10	*1.30	*.20	*T	17.14
1890													
1891													
1892	*.20	*.50	*1.40	*1.20	3.98	2.03	2.65	4.13	.02	.36	.18	.58	17.33
1893	.15	.03	.52	.77	2.07	1.69	2.47	1.35	.94	.24	.18	.05	9.69
1894	.41	.90	.30	.77	1.14	3.19	1.76	.07	1.15	.38	.06	.60	10.73
1895	.34	.63	.15	1.13	3.14	4.38	5.87	1.04	.75	.35	.70	.48	18.96
1896	.46	.10	.48	5.11	2.13	5.39	2.00	2.83	1.47	1.62	.25	.16	22.00
1897	.22	.65	2.13	4.05	1.73	4.74	1.83	4.84	3.19	5.50	.18	.47	29.54
1898	.04	.02	.24	1.11	4.51	2.85	1.35	.64	3.00	.55	.35	.42	15.08
1899	31	.29	.56	.34	1.82	3.16	4.41	.19	.75	T	2.12	.35	14.30
1900	T	1.21	.50	4.95	.20	3.15	2.52	1.49	2.04	.10	.23	.39	16.78
1901	.20	.81	2.25	2.45	.85	1.75	.54	3.58	1.46	.64	.07	.26	14.86
1902	.31	.36	.81	.67	3.46	1.92	3.26	6.29	2.50	1.69	.03	.82	22.12
1903	.22	1.94	.71	2.40	3.00	2.19	5.59	3.04	.64	.43	.97	T	21.13
1904	T	0	.34	3.78	2.42	7.11	3.19	3.00	1.60	1.78	T	.56	23.78
1905	.44	.44	.60	3.30	1.72	2.94	2.06	1.90	1.59	.98	.95	T	16.92
1906	.50	.15	1.52	4.90	1.67	2.29	1.90	2.62	1.25	1.92	.53	.35	19.60
1907	.13	.09	.69	1.00	1.13	2.16	.82	2.67	2.06	1.17	.29	.78	12.99
1908	.08	.65	.04	.19	1.76	4.74	2.08	1.67	1.00	1.09	1.36	.06	14.72
1909	.09	.34	1.16	.35	1.45	5.60	2.98	.45	1.97	.70	2.26	.56	17.91
1910	.18	.17	.13	.62	2.26	.71	.25	1.25	.96	.03	T	.06	6.62
1911	.26	.56	T	1.47	1.19	1.15	1.25	1.31	1.23	1.18	.06	.84	10.55
1912	.13	.85	1.66	.98	1.00	3.34	3.29	4.48	3.03	.76	.30	.20	20.02
1913	.65	.53	.93	2.35	5.07	2.85	.59	.62	2.69	.29	.56	4.36	21.49
1914	.05	.45	.21	1.21	2.89	2.69	5.22	2.12	.51	.95	T	.51	16.81
1915	.38	1.49	1.50	3.95	5.06	4.72	7.77	4.04	.91	1.03	.48	.48	31.81
1916	.55	.05	.33	2.01	1.33	3.60	1.76	1.83	.41	.66	.21	.37	13.11
1917	.12	.20	.56	2.00	1.56	2.42	2.70	5.99	3.78	.32	.42	.20	20.27
1918	.77	1.79	1.34	1.40	2.35	.34	1.74	2.05	2.33	3.15	.40	2.71	20.37
1919	T	1.57	.59	3.17	2.05	2.76	3.19	.40	2.19	.91	1.63	.19	18.65
1920	.23	.31	.46	4.49	2.74	5.55	4.09	3.19	2.56	2.71	.27	1.31	27.91
1921	1.15	.03	*.50	2.61	1.85	3.21	4.15	2.39	2.86	.45	.18	.40	19.78
1922	.11	.25	1.85	5.40	2.38	1.64	2.73	1.38	.27	.05	2.88	T	18.94
1923	.02	.11	.83	3.16	6.44	3.45	3.50	3.86	1.97	3.30	.12	.77	27.53
1924	.18	1.90	2.00	.38	1.49	.74	1.74	3.18	1.97	.95	.18	2.14	16.85
1925	.15	.21	.50	1.56	3.47	.91	1.37	2.56	2.03	.95	.55	.23	14.49
1926	.40	.10	.40	1.07	2.05	1.71	.76	1.92	1.10	.25	1.27	.43	11.46
1927	.28	1.14	1.77	3.45	.46	3.92	1.82	2.17	2.58	.58	.21	.43	18.81
1928	.02	.83	1.75	.75	4.66	5.54	3.40	1.85	.28	1.67	1.08	.05	21.38
1929	T	.65	.10	3.28	4.11	2.14	1.08	1.42	3.34	2.07	1.67	.08	19.94
1930	.28	.46	.16	2.48	4.88	3.42	1.91	4.30	.66	5.12	1.81	.09	25.57
1931	0	1.70	2.32	1.36	1.34	1.93	2.93	1.37	.38	.92	1.48	.35	16.08
1932	.55	.55	.41	1.98	1.52	4.03	3.52	.77	.72	.43	.21	.40	15.09
1933	T	.17	.86	2.25	3.29	.17	3.03	5.93	.67	.25	.51	.96	18.14
1934	.10	1.17	.65	.37	.97	1.80	.47	1.33	.96	.09	.45	.24	8.60
1935	T	.32	.42	.33	3.41	3.88	.30	1.36	1.76	.11	1.19	.15	13.23
1936	.20	.30	.15	1.14	3.92	.56	.30	1.66	2.90	.48	.02	.43	12.06
1937	.33	.19	1.56	1.19	1.61	3.43	1.65	1.46	1.62	1.57	.05	.26	14.92
1938	.21	.11	1.67	1.18	4.57	2.98	5.55	.85	1.08	.06	.16	.02	18.42
1939	.36	.87	2.99	1.67	2.44	2.16	1.54	1.60	1.55	T	.18	1.02	15.38
1940	.47	.19	2.42	.85	1.90	1.09	1.53	3.74	1.65	.60	.82	.35	15.61
Average	.26	.58	.92	2.02	2.53	2.88	2.49	2.34	1.52	1.05	.61	.53	17.73

* Estimated from surrounding stations.

TABLE 52. *Snowfall, by months and years, at Colby, Thomas County*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1893	T	1.5	T	0.3	0	.....	.....	.....	0	0	1.8	0.5	4.1
1894	3.7	9.8	0.5	0	0	.....	.....	.....	0	0	0.6	6.2	20.8
1895	3.4	1.5	1.5	0	0	.....	.....	.....	0	2.0	3.0	5.1	16.3
1896	T	T	2.9	T	0	.....	.....	.....	0	3.0	T	0	5.9
1897	T	7.0	12.5	1.0	0	.....	.....	.....	0	1.0	T	5.0	26.5
1898	0.5	T	1.0	1.5	0	.....	.....	.....	2.0	0.5	2.7	3.5	11.7
1899	3.3	2.9	5.4	1.5	0	.....	.....	.....	0	0	0	2.3	15.9
1900	T	10.2	3.2	3.0	0	.....	.....	.....	0	0	0	3.5	19.9
1901	2.0	7.8	18.8	0.5	0	.....	.....	.....	0	0	0	3.0	32.1
1902	3.2	4.2	0	3.0	0	.....	.....	.....	0	0	0	9.1	19.5
1903	1.0	19.4	3.3	1.8	0	.....	.....	.....	0	0	0.5	T	26.0
1904	T	0	T	5.0	0	.....	.....	.....	0	0	T	6.0	11.0
1905	4.5	5.5	T	T	0	.....	.....	.....	0	9.6	T	T	19.6
1906	5.0	0.5	13.1	2.5	0	.....	.....	.....	0	2.8	0.5	0.5	24.9
1907	0.7	0.9	6.2	2.2	1.0	.....	.....	.....	0	0	0.3	9.0	20.3
1908	1.1	2.2	T	0	T	.....	.....	.....	0	0	7.6	1.0	11.9
1909	0.9	5.0	9.0	3.2	0	.....	.....	.....	0	0	8.5	6.7	33.3
1910	2.7	4.0	0	T	T	.....	.....	.....	0	0	T	0.8	7.5
1911	3.0	2.0	T	†	0	.....	.....	.....	0	T	2.5	8.5	†
1912	1.2	6.0	13.5	0	0	.....	.....	.....	0	5.0	2.0	1.5	29.2
1913	3.0	6.0	5.5	3.0	0	.....	.....	.....	0	T	T	13.0	30.5
1914	T	1.6	T	T	0	.....	.....	.....	0	0	T	5.0	6.6
1915	4.0	10.5	13.8	0	1.5	.....	.....	.....	0	0	T	5.0	34.8
1916	2.5	0.5	3.0	9.0	0	.....	.....	.....	0	3.0	2.5	4.5	25.0
1917	1.5	2.5	5.0	4.0	T	.....	.....	.....	0	T	0.5	2.0	15.5
1918	9.0	15.5	T	T	0	.....	.....	.....	0	0	2.0	26.0	52.5
1919	T	13.5	1.5	5.0	0	.....	.....	.....	0	0.5	9.0	2.0	31.5
1920	2.0	3.0	2.0	15.5	T	.....	.....	.....	0	0	2.5	11.0	36.0
1921	T	0.5	†	5.0	0	.....	.....	.....	0	0	2.0	4.0	†
1922	1.0	3.0	10.5	10.0	0	.....	.....	.....	0	0	4.0	T	28.5
1923	T	1.0	8.5	T	T	.....	.....	.....	0	T	0	7.5	17.0
1924	2.0	19.0	18.5	T	0	.....	.....	.....	0	0	1.5	18.0	59.0
1925	3.0	T	3.0	0	0	.....	.....	.....	0	2.5	4.0	2.0	14.5
1926	0.5	0.5	T	6.5	0	.....	.....	.....	0	T	4.5	3.0	15.0
1927	1.0	13.8	16.0	T	T	.....	.....	.....	T	0	2.0	3.0	35.8
1928	T	5.0	8.0	T	T	.....	.....	.....	0	1.5	8.0	T	22.5
1929	T	5.5	1.0	T	T	.....	.....	.....	0	1.0	20.0	1.0	28.5
1930	4.0	2.0	1.0	T	T	.....	.....	.....	0	T	4.5	T	11.5
1931	0	4.0	14.0	5.0	T	.....	.....	.....	0	T	9.0	3.5	35.5
1932	4.5	2.5	3.0	1.0	0	.....	.....	.....	0	T	T	4.0	15.0
1933	T	1.5	7.0	T	0	.....	.....	.....	0	0	0.5	0	9.0
1934	0.5	9.2	7.0	1.0	0	.....	.....	.....	0	0	2.0	1.5	21.2
1935	T	3.0	3.5	1.0	0	.....	.....	.....	0	0	5.0	1.0	13.5
1936	2.4	3.6	1.2	6.7	0	.....	.....	.....	0	1.3	0.2	4.4	19.8
1937	3.5	3.5	8.6	2.0	0	.....	.....	.....	0	0	0.2	2.6	20.4
1938	2.1	1.0	0.5	1.5	2.0	.....	.....	.....	0	0	2.0	0.3	9.4
1939	0.7	12.1	15.7	3.2	0	.....	.....	.....	0	0	0	14.0	45.7
1940	9.3	2.6	14.0	2.5	0	.....	.....	.....	0	0	5.6	4.1	38.1
Average	1.9	4.9	5.6	2.3	0.1	.....	.....	.....	T	0.7	2.5	4.5	22.5

† Data missing.

TABLE 53. Amount of evaporation (inches) and average hourly wind movement (miles), by months, at Colby, Thomas County †

Year	Data	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914	Evaporation.....				4.587	5.737	8.975	7.972	8.880	7.592			
	Wind movement..				a	a	7.2	7.8	5.9	6.2	6.2		
1915	Evaporation.....				4.023	5.429	5.843	5.980	5.444	4.938			
	Wind movement..				7.4	7.6	6.8	5.5	3.7	5.5	5.6		
1916	Evaporation.....				4.415	7.065	7.153	11.231	8.830	6.838			
	Wind movement..				8.1	8.8	7.4	8.1	6.8	6.7	8.3		
1917	Evaporation.....				4.362	5.377	7.950	9.579	6.741	4.711			
	Wind movement..				9.3	8.8	8.2	6.3	5.6	5.5	6.0		
1918	Evaporation.....				3.753	7.049	8.092	8.457	9.214	4.810			
	Wind movement..				10.3	10.0	6.2	6.8	7.0	6.4	6.0	6.3	7.4
1919	Evaporation.....				3.540	5.023	6.607	9.194	8.857	6.420			
	Wind movement..				9.0	7.1	5.5	5.9	4.7	5.6	4.8		
1920	Evaporation.....				3.083	4.064	6.812	7.504	5.261	6.017			
	Wind movement..				9.5	8.0	6.4	3.8	3.4	a	a		
1921	Evaporation.....				5.277	7.030	6.033	8.720	6.409	5.894			
	Wind movement..				9.2	9.6	5.2	5.7	4.2	4.9	a		
1922	Evaporation.....				3.535	6.499	8.359	9.057	8.295	6.840			
	Wind movement..				9.0	7.0	6.9	6.0	5.3	6.2	5.6		
1923	Evaporation.....				5.431	5.259	6.609	7.341	6.887	5.844			
	Wind movement..				a	8.2	7.5	4.5	4.0	5.3	5.9	4.7	5.3
1924	Evaporation.....				5.610	6.712	7.871	10.194	8.637	6.282			
	Wind movement..	5.9	7.0	7.4	8.1	7.0	7.3	8.0	7.2	7.6	8.9	6.5	7.2
1925	Evaporation.....				6.142	6.697	10.395	10.892	8.471	6.371			
	Wind movement..	6.7	6.7	8.2	8.8	7.5	9.1	6.3	7.0	7.1	6.7	6.7	6.8
1926	Evaporation.....				5.341	7.312	8.520	11.476	10.353	6.285			
	Wind movement..	7.0	8.3	7.9	7.5	8.9	7.0	8.0	7.1	9.1	7.7	7.2	6.2
1927	Evaporation.....				5.017	8.940	7.063	9.037	6.014	7.154			
	Wind movement..	7.3	7.0	10.6	8.8	10.8	7.7	6.1	5.2	7.4	6.0	5.9	5.9
1928	Evaporation.....				6.118	5.948	5.228	7.364	8.770	7.153			
	Wind movement..	6.0	6.3	7.5	8.7	6.6	6.4	5.4	6.7	5.7	7.2	6.1	6.0
1929	Evaporation.....				5.804	5.102	7.049	9.982	8.217	5.782			
	Wind movement..	6.6	6.5	8.1	9.1	8.6	6.1	6.8	5.3	7.4	5.6	6.5	5.2
1930	Evaporation.....				4.820	5.546	7.633	9.502	7.540	5.036			
	Wind movement..	6.5	6.3	8.0	7.8	8.5	5.7	5.5	4.9	4.4	5.2	5.7	5.6
1931	Evaporation.....				3.993	6.066	8.897	9.804	8.066	8.156			
	Wind movement..	5.0	5.1	7.4	7.2	7.4	7.1	6.6	5.6	7.2	7.0	6.6	5.8
1932	Evaporation.....				5.730	7.589	6.869	10.344	9.147	6.289			
	Wind movement..	6.4	6.7	7.4	10.2	9.2	5.6	7.5	7.6	6.3	6.3	6.6	5.6
1933	Evaporation.....				6.839	5.848	10.154	9.739	7.092	6.538			
	Wind movement..	5.7	7.5	9.3	9.4	7.8	8.2	6.5	6.2	6.4	6.1	6.3	5.8
1934	Evaporation.....				6.287	9.421	11.217	13.541	10.649	6.336			
	Wind movement..	5.8	6.8	8.2	7.4	9.7	10.0	8.3	7.6	8.4	7.2	7.0	6.9
1935	Evaporation.....				6.925	5.324	7.661	11.820	9.354	6.203			
	Wind movement..	6.6	7.3	10.2	11.9	9.7	7.9	7.1	6.8	6.0	6.1	4.8	5.9
1936	Evaporation.....				5.248	6.557	9.685	12.181	9.643	6.798			
	Wind movement..	6.3	7.5	8.5	8.8	10.0	8.2	9.5	6.1	8.3	6.1	6.8	5.9

KANSAS WEATHER AND CLIMATE

TABLE 53. (Concluded)

Year	Data	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1937	Evaporation.....				5.441	6.879	7.322	10.204	9.792	5.974			
	Wind movement..	7.5	8.0	7.9	9.6	9.4	7.1	6.3	7.7	5.6	6.0	6.1	5.1
1938	Evaporation.....				4.768	5.297	7.670	9.222	10.625	6.217			
	Wind movement..	6.7	5.8	7.2	9.9	6.7	7.9	5.4	8.0	5.9	7.5	6.4	6.8
1939	Evaporation.....				4.470	7.752	9.808	11.685	8.502	8.919			
	Wind movement..	7.7	7.7	6.8	8.5	7.8	9.1	7.8	6.3	7.5	6.3	5.6	5.9
1940	Evaporation.....				5.205	7.107	10.175	10.502	7.646	5.331			
	Wind movement..	5.9	6.5	7.0	8.1	6.5	8.1	7.2	5.7	6.0	5.7	5.5	5.7
AVE.	Evaporation.....				5.009	6.394	7.950	9.723	8.269	6.323			
	Wind movement..	6.4	6.9	8.1	8.9	8.4	7.8	6.5	6.0	6.5	6.4	6.2	6.1

a. No record.

† The evaporation apparatus is composed of a galvanized tank 24 inches deep and 72 inches in diameter, set in the ground to a depth of 20 inches. The tank is kept filled with water to a depth of approximately 20 inches. The apparatus for determining wind movement consists of a 4-cup anemometer, 24 inches above ground level.

TABLE 54. Mean temperature, by months and years, at Dodge City, Ford County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1874										58.2	38.0	35.2	
1875	13.0	29.1	39.7	47.8	65.0	73.9	75.6	74.6	69.1	57.2	41.1	42.2	52.4
1876	36.8	41.9	36.0	56.7	64.4	70.6	79.7	77.8	67.2	53.5	40.4	24.8	54.2
1877	24.4	35.6	44.3	51.0	63.9	71.0	78.1	77.1	69.4	53.2	39.8	40.4	54.3
1878	33.6	39.5	50.2	55.8	61.6	70.6	79.6	79.2	67.6	55.8	44.6	23.4	55.1
1879	23.9	33.8	48.2	56.9	69.3	76.2	80.8	76.6	68.0	59.5	41.4	26.4	55.1
1880	38.2	35.8	41.0	54.8	69.3	75.3	76.2	75.0	66.4	52.2	25.6	24.7	52.9
1881	20.0	27.0	41.0	54.6	64.9	77.5	77.0	80.1	69.0	57.5	38.7	37.4	53.7
1882	31.6	39.2	48.2	54.2	58.0	74.1	75.9	75.1	69.0	58.3	41.6	32.7	54.8
1883	22.4	28.6	40.6	54.1	61.9	71.5	77.4	73.0	65.2	50.6	42.4	35.2	51.8
1884	24.4	23.0	42.2	49.8	59.8	71.4	77.6	72.2	71.1	58.8	42.0	21.4	51.6
1885	18.0	26.5	42.3	55.7	60.0	72.6	77.9	74.8	67.6	52.6	46.0	37.1	52.6
1886	16.9	35.8	40.6	51.9	68.9	72.0	79.4	79.7	68.6	59.8	39.2	29.9	53.6
1887	27.5	31.2	46.4	54.8	66.0	74.5	79.2	75.6	69.0	54.3	42.8	29.4	54.2
1888	23.3	39.3	37.4	57.5	61.5	73.6	80.0	74.4	67.8	55.0	41.1	38.4	54.1
1889	28.9	29.0	45.8	56.6	63.7	69.8	77.5	76.9	66.3	55.6	37.4	44.6	54.4
1890	27.2	32.4	42.6	54.2	63.6	75.0	82.4	76.4	65.2	55.5	44.4	38.8	54.8
1891	28.8	32.0	33.8	55.4	61.6	69.6	73.8	74.0	68.4	55.2	40.9	37.4	52.6
1892	28.9	34.7	36.5	51.8	57.8	71.9	77.0	76.0	69.8	56.2	42.4	25.6	52.4
1893	34.0	31.0	42.2	53.5	60.4	75.0	79.4	73.8	70.4	56.8	40.4	38.6	54.6
1894	30.8	24.3	46.1	57.6	64.9	73.4	75.9	75.9	68.9	59.4	44.4	34.4	54.9
1895	26.9	25.4	42.9	57.0	64.8	70.0	74.0	75.6	72.7	52.8	41.4	33.8	53.1
1896	36.4	39.2	40.0	59.8	68.4	76.2	77.6	79.4	66.3	54.2	38.0	41.0	56.4
1897	28.2	33.5	42.6	53.8	64.4	74.0	78.8	76.0	73.2	59.8	43.0	30.7	54.8
1898	29.1	38.2	42.6	54.6	61.8	73.5	76.8	77.8	68.2	53.6	38.8	27.3	53.5
1899	31.5	20.0	39.0	54.4	66.8	73.4	75.4	80.8	69.5	59.2	48.0	32.6	54.2
1900	36.8	30.4	44.4	54.2	64.4	74.6	77.2	80.2	70.0	61.6	43.6	36.0	56.1
1901	33.8	30.2	42.0	52.8	62.3	76.8	82.4	78.5	69.6	59.8	46.2	32.7	55.6
1902	30.8	32.0	45.4	55.8	67.4	71.1	76.9	79.6	64.5	59.7	43.7	27.6	54.5
1903	33.4	26.2	39.9	53.8	60.4	65.8	79.2	76.8	67.2	57.4	42.5	36.0	53.2
1904	30.0	35.0	47.2	51.9	62.5	69.8	76.1	75.1	70.0	58.2	46.0	30.4	54.4
1905	22.4	21.4	49.0	51.0	61.2	75.4	73.8	78.2	71.7	53.0	45.4	32.9	53.0
1906	37.8	36.2	31.8	56.6	64.2	70.1	72.8	74.8	67.7	51.4	40.2	38.2	53.5
1907	31.6	37.0	51.7	47.8	57.1	72.0	78.4	77.0	69.0	57.2	42.0	34.0	54.6
1908	36.5	37.8	47.4	55.0	64.0	71.9	75.2	76.0	70.2	54.5	42.9	36.2	55.7
1909	30.0	36.2	40.7	51.4	61.4	73.7	79.5	80.7	70.2	56.2	47.0	22.2	54.1
1910	31.1	29.8	55.8	56.6	59.4	72.2	78.9	75.4	70.7	59.3	45.8	35.4	55.9
1911	36.0	33.1	47.3	54.0	64.3	77.9	76.8	74.8	74.9	53.6	37.9	27.9	54.9
1912	18.0	32.0	30.5	52.8	65.8	68.1	78.6	76.5	64.0	56.3	45.0	34.6	51.8
1913	29.4	24.8	40.0	55.8	67.3	72.5	80.7	82.4	64.8	52.8	48.0	33.6	54.3
1914	39.4	30.0	43.7	54.2	62.8	77.3	79.3	77.1	72.6	57.8	48.4	23.4	55.5
1915	30.6	39.0	32.6	58.8	59.4	68.8	74.3	70.0	68.4	58.0	47.4	34.6	53.5
1916	23.8	34.9	48.1	50.2	63.6	70.6	80.3	78.6	67.0	56.2	42.0	29.0	53.7
1917	31.3	32.1	41.8	51.4	57.0	73.4	80.4	73.6	69.4	50.2	48.6	28.2	53.1
1918	21.1	37.5	49.4	47.8	67.0	77.9	78.5	80.6	63.4	59.8	41.7	34.0	54.9
1919	31.0	31.9	43.8	52.6	61.2	70.7	79.6	79.4	73.1	53.3	38.7	29.6	53.7
1920	32.8	35.1	45.0	48.8	61.6	72.6	77.9	72.4	69.4	59.8	39.4	35.1	54.2
1921	36.4	38.7	49.1	53.8	64.8	72.8	78.4	77.8	73.0	59.6	43.6	33.4	56.8
1922	28.6	34.0	41.0	53.0	63.6	74.5	77.2	80.0	72.4	59.0	45.5	33.7	55.2
1923	39.0	32.0	40.0	54.1	60.8	71.8	79.3	77.9	69.6	51.0	45.2	34.5	54.6
1924	28.1	35.9	33.6	53.4	57.0	75.2	75.1	79.0	66.0	59.4	45.9	24.0	52.7
1925	28.8	41.3	49.2	59.6	63.9	78.1	79.4	76.0	70.3	47.4	42.6	34.0	55.9
1926	33.1	41.6	40.6	48.2	64.3	72.8	77.8	78.2	68.4	59.4	40.4	31.4	54.7
1927	33.2	38.6	41.8	56.6	66.0	71.0	77.3	71.8	69.0	60.6	44.6	27.5	54.8
1928	36.6	36.6	45.3	50.2	62.9	66.5	78.1	75.8	68.5	57.5	42.6	35.7	54.7
1929	28.0	24.4	46.4	56.6	61.1	72.7	79.1	79.2	66.8	56.4	34.0	36.0	53.2
1930	19.6	47.2	41.2	59.4	61.8	74.7	81.2	80.4	71.3	54.8	45.8	33.2	55.9
1931	37.5	42.6	37.9	51.6	59.5	77.4	79.6	76.2	77.8	61.0	44.4	38.8	57.0
1932	26.3	41.4	36.6	56.5	66.0	73.0	82.7	79.4	68.8	54.5	41.8	28.0	54.6
1933	38.8	31.5	46.3	53.6	64.2	79.9	81.9	76.8	74.2	58.6	47.0	40.4	57.8
1934	36.7	35.8	43.9	56.2	69.5	80.0	87.3	82.8	65.6	62.4	47.4	35.4	58.6
1935	36.0	39.8	50.4	51.8	57.4	71.4	83.6	80.2	68.7	56.8	40.4	35.4	56.0
1936	28.4	28.6	48.0	54.2	67.4	76.6	83.8	83.6	70.5	53.8	43.4	37.9	55.9
1937	21.4	33.6	40.2	54.6	67.0	73.4	82.0	83.8	71.4	57.0	41.4	31.9	54.8
1938	35.8	37.8	49.6	53.1	63.1	73.3	80.8	83.6	73.0	63.6	41.5	36.6	57.6
1939	38.4	29.1	45.2	55.0	67.8	76.0	83.2	79.0	73.2	59.6	45.0	39.4	57.6
1940	16.6	35.2	45.6	53.3	63.8	73.0	82.0	75.8	70.2	63.4	40.8	37.8	54.8
Average	29.7	33.6	43.1	54.0	63.3	73.2	78.6	77.3	69.2	56.7	42.5	33.1	54.5

TABLE 55. Precipitation, by months and years, at Dodge City, Ford County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1874	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.27	0.24	0.05	.....
1875	0.12	0.10	0.04	0.71	2.26	0.63	3.28	2.06	1.32	.06	.01	.09	10.68
1876	T	.05	3.59	.16	1.15	2.53	2.26	1.03	2.13	1.00	1.35	.15	15.40
1877	.18	.55	.25	3.38	4.96	3.92	1.79	4.09	.50	3.84	.56	4.36	27.88
1878	.21	1.13	1.01	1.06	4.63	2.19	1.61	4.48	.76	.09	.60	.19	17.96
1879	.87	.08	.17	.40	.90	4.40	3.90	3.75	.80	T	.04	.12	15.43
1880	T	T	.04	.11	3.33	1.59	4.00	5.17	.32	1.42	2.43	.03	18.44
1881	.15	1.63	.50	2.38	12.82	1.77	5.06	2.36	3.13	2.19	.95	.61	33.55
1882	.52	.22	.24	.68	3.87	1.51	3.04	1.07	.15	1.62	.11	.11	13.14
1883	.44	1.42	.42	2.40	5.41	4.31	2.61	5.66	1.32	3.32	.12	1.07	28.50
1884	.08	.28	1.94	1.07	4.47	7.67	6.40	4.82	.23	1.50	.83	1.10	30.36
1885	.52	.47	1.75	1.39	4.07	2.02	6.03	1.80	3.48	1.06	.36	1.76	23.71
1886	1.82	.46	1.50	1.90	.40	5.47	2.07	2.46	2.33	.45	.24	.25	19.35
1887	.07	.53	.17	2.46	3.69	4.00	1.00	2.28	.14	.48	.35	.54	15.71
1888	.23	.73	.93	4.08	2.86	5.16	4.07	3.00	.78	.81	.06	.23	22.94
1889	1.69	.34	1.38	2.12	1.54	3.43	2.02	2.14	.86	2.88	.77	0	19.17
1890	.42	.39	.05	2.90	1.19	1.00	.22	3.45	.57	.89	.50	.14	11.72
1891	.98	.27	3.32	2.76	3.36	6.27	5.16	1.36	4.56	3.33	.12	.85	32.34
1892	.25	1.01	2.62	.40	3.23	3.34	.66	4.69	1.04	.73	.31	1.38	19.66
1893	.02	.34	T	.04	1.31	.76	3.32	1.82	1.74	.25	.42	.10	10.12
1894	.04	1.03	.40	1.88	.95	2.80	2.05	1.15	2.03	.62	.03	.62	12.60
1895	.58	2.26	1.31	.91	.97	5.32	4.84	2.42	4.06	1.09	.34	.21	20.31
1896	.49	T	.25	5.50	1.13	1.98	5.41	.73	1.06	2.45	.34	.53	19.87
1897	1.44	2.38	.26	3.21	1.49	2.31	3.91	3.06	.60	2.66	.06	2.0	21.58
1898	1.74	.70	.24	.97	10.31	4.37	3.14	2.26	3.16	1.87	.96	1.54	31.46
1899	.08	.20	.47	.55	1.50	11.17	6.56	.50	1.71	3.94	1.15	.82	28.45
1900	.17	.99	.58	4.08	2.20	2.62	3.07	1.32	4.63	.92	.09	.09	20.76
1901	.13	.48	.80	3.45	1.75	2.63	1.81	.71	2.54	1.64	.04	.08	16.06
1902	.34	.16	1.58	.76	3.35	2.49	3.73	1.62	.60	2.26	.53	.28	17.70
1903	.08	2.87	.67	1.97	2.88	1.49	.59	2.21	1.15	1.28	1.03	.05	15.27
1904	.03	.02	.04	1.54	4.42	2.02	1.71	3.99	1.82	.37	.04	1.19	17.19
1905	.84	.61	1.23	3.84	5.88	1.05	5.75	1.81	1.70	1.05	2.20	T	25.96
1906	.40	.87	1.13	1.79	1.63	4.73	4.78	4.19	9.26	1.96	1.50	.30	32.54
1907	.28	.18	.33	.19	2.01	4.16	1.96	4.08	1.71	2.36	.17	.83	18.26
1908	.04	.77	.12	1.35	.90	8.76	1.67	1.51	1.11	1.17	2.17	.04	19.61
1909	.20	.16	1.15	.02	2.53	3.20	2.93	1.25	1.50	.92	5.81	.79	20.55
1910	.26	.31	.01	.93	1.17	2.27	1.86	2.63	.26	.34	.02	.06	10.12
1911	.22	2.94	.27	1.01	3.95	.63	7.29	2.21	.37	.63	.99	1.76	22.27
1912	.16	2.12	.97	1.73	1.03	8.55	.88	5.80	2.75	.15	.26	T	24.40
1913	.28	.68	.23	2.12	.81	2.02	.70	7.2	5.40	.30	2.14	1.88	17.28
1914	.18	.47	.09	1.28	3.47	3.82	.36	1.23	.53	.43	T	.46	12.32
1915	1.08	1.37	.64	2.28	5.43	2.96	3.92	6.16	3.79	.81	.08	.23	28.75
1916	.59	.06	.68	2.84	.41	5.16	.09	2.25	1.15	.79	.03	.30	14.35
1917	.22	.04	.36	1.45	1.60	.91	2.76	4.46	.36	.07	.58	.25	13.06
1918	.80	.29	2.59	1.38	2.90	.26	2.25	.84	2.20	1.67	.37	4.03	19.58
1919	.06	1.50	.94	1.65	1.56	1.72	1.83	1.23	1.01	1.01	1.11	.08	13.70
1920	.07	.09	.43	1.75	3.47	2.08	3.79	2.43	3.34	3.58	1.13	.81	22.97
1921	.24	.69	.01	2.73	1.36	4.48	2.91	2.65	1.53	.23	T	.68	17.51
1922	.45	1.73	3.76	4.24	2.77	1.37	2.86	3.19	1.84	.45	.95	T	23.61
1923	.03	.03	.71	2.13	7.74	2.96	1.95	1.46	2.50	3.82	.53	.48	24.34
1924	.17	.71	2.77	2.34	.63	1.23	3.64	3.23	1.62	1.68	.34	1.13	19.49
1925	.07	.21	.64	3.33	2.18	2.22	6.84	3.09	4.52	1.29	1.77	.05	26.21
1926	.36	.97	2.27	1.17	2.42	2.44	3.76	1.65	3.08	.10	1.29	.48	19.99
1927	.02	1.21	1.73	4.37	.74	3.69	4.10	5.98	2.77	.23	.19	.02	25.10
1928	.03	1.60	1.84	2.54	3.85	5.30	2.34	2.78	1.13	3.19	2.35	.82	27.77
1929	.56	.72	.48	1.67	2.61	2.73	5.51	1.58	2.61	.85	2.53	.05	21.90
1930	.32	.04	.07	2.79	3.28	1.27	1.54	.55	2.70	4.24	1.77	.57	19.14
1931	.10	.56	2.83	2.10	2.14	1.46	2.00	1.52	.69	.56	1.32	.47	15.75
1932	1.28	.37	.91	1.08	1.20	4.46	2.38	2.60	2.35	.71	.15	.22	17.71
1933	T	.17	.09	4.06	3.16	1.23	1.75	4.79	1.01	1.27	.38	.75	18.66
1934	.29	1.60	.52	.42	1.00	2.34	.43	.24	2.05	1.50	.98	.13	11.50
1935	.65	.55	.84	.08	4.40	1.95	1.09	1.62	1.77	1.09	.98	.12	15.09
1936	.59	.06	.10	.56	5.81	1.31	1.10	.98	1.81	1.00	T	.85	14.17
1937	.76	.56	1.11	.52	1.64	3.15	1.99	.60	.84	.87	.34	.25	12.63
1938	.01	1.08	1.63	3.20	4.30	1.50	1.71	2.96	2.73	.18	.07	.06	19.43
1939	.68	1.30	1.06	.46	2.29	2.48	.93	2.09	.10	.28	.42	.89	12.98
1940	.50	.59	1.31	3.54	4.41	3.53	1.52	5.09	2.05	.12	2.39	.79	25.84
Average	.40	.73	.93	1.88	2.93	3.10	2.86	2.54	1.83	1.28	.78	.58	19.84

TABLE 56. Snowfall, by months and years, at Dodge City, Ford County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885	2.5	4.5	0.8	T	T				0	0	T	5.4	13.2
1886	9.4	3.5	0.2	0	0				0	4.2	0.5	0.5	17.8
1887	0.3	4.3	1.4	0	0				0	4.0	0.5	0.5	11.0
1888	1.3	0.8	3.2	0	0				0	T	3.8	0.5	9.8
1889	0.1	3.8	T	0	0				0	1.0	2.0	0	6.9
1890	7.5	4.0	1.0	0	0				0	0	0	0	12.5
1891	9.0	2.5	20.0	1.0	0				0	T	0.7	0.7	33.2
1892	2.5	4.0	14.8	0	T				0	0.5	0.5	0.5	22.3
1893	0.2	2.8	0	0	0				0	0.5	0.5	0.5	3.5
1894	0.5	10.7	2.7	0	0				0	0.1	0.5	0.6	19.6
1895	5.8	1.6	7.2	6.9	0				0	0.8	0.8	0.8	24.5
1896	T	T	2.4	0	0				0	0.1	T	T	5.5
1897	15.9	22.5	1.3	0	0				0	0.4	2.3	2.3	42.4
1898	19.7	7.2	1.9	0.2	0				0	1.2	7.5	5.0	42.7
1899	1.1	2.5	4.4	0.5	0				0	0	0	5.9	14.4
1900	0.1	10.2	3.6	7.5	0				0	0	0.3	0.6	22.3
1901	1.2	5.1	5.5	4.4	0				0	0	0	0.4	16.6
1902	4.5	1.3	4.8	0	0				0	0	4.5	4.5	15.3
1903	0.4	27.7	0.1	1.3	0				0	0	0.1	T	29.6
1904	0.1	T	T	0	0				0	0.4	11.7	12.1	12.1
1905	5.7	16.1	0.5	0.4	0				0	1.5	7.0	0.1	19.9
1906	4.0	2.1	T	1.2	0				0	0	0.4	0.4	12.4
1907	1.2	5.6	T	8.0	0				0	0	1.4	0.1	8.5
1908	0.2	5.6	7.9	T	0				0	1.2	0.8	0.8	23.8
1909	2.7	1.2	T	T	0				0	0.3	T	0.8	7.5
1910	2.4	4.5	0	0	0				0	T	T	0.8	7.5
1911	1.4	12.2	T	0	0				0	3.2	5.1	15.4	37.3
1912	2.9	19.7	11.2	T	0				0	0.5	T	T	34.3
1913	5.0	11.5	2.5	T	0				0	0	0	2.7	22.2
1914	2.0	4.1	0.6	T	0				0	0.5	T	0	6.4
1915	9.3	3.3	5.6	T	0				0	0	0	0	13.1
1916	5.3	0.6	5.5	4.9	0.7				0	0	0.3	3.0	20.6
1917	2.7	0	4.0	0.6	0				0	0	0	0	19.9
1918	9.3	0.2	T	0	0				0	3.5	3.4	20.5	10.4
1919	0.6	10.3	2.6	7.6	0				0	0	2.5	0.3	24.4
1920	0.7	0.3	0.3	2.9	0				0	0	0.8	0.2	5.2
1921	0.1	7.1	0.1	T	0				0	0	T	6.8	14.1
1922	0.2	8.5	18.4	T	0				0	0	T	T	27.1
1923	0.1	0.2	3.7	0	0				0	0	T	2.2	6.2
1924	2.1	8.7	24.3	T	0				0	0	T	7.1	42.2
1925	1.6	T	0.9	0	0				0	0	T	2.5	5.5
1926	0.4	8.8	10.3	2.1	0				0	0	0	0.2	26.4
1927	0.4	6.1	1.9	0	0				0	0	4.4	2.3	10.2
1928	0.3	5.5	10.8	2.5	0				0	0	1.5	5.1	24.2
1929	6.7	9.1	T	0	0				0	0	16.8	0.2	32.8
1930	2.9	T	T	0	0				0	0	5.0	5.0	7.9
1931	0.4	1.3	12.1	T	T				0	0	2.9	0.6	17.3
1932	12.5	1.6	4.6	T	0				0	0	0.5	1.1	20.3
1933	0	0.8	0.6	T	0				0	0	0.3	0	1.7
1934	2.6	10.9	2.7	0	0				0	0	3.4	0.2	19.8
1935	0.4	1.4	0.5	0	0				0	0	0.2	1.5	4.0
1936	6.9	0.7	0.1	1.2	0				0	0.9	T	3.9	13.7
1937	2.9	6.4	4.4	0	0				0	0	1.6	2.0	17.3
1938	0.1	4.1	0.1	14.3	0				0	0	0.2	1.2	20.0
1939	0.8	14.3	2.8	T	0				0	0	1.0	4.6	23.5
1940	6.7	5.9	0.8	1.5	0				0	0	2.5	5.5	22.9
Average	3.3	5.4	4.0	1.1	T				0	0.2	1.5	3.0	18.5

TABLE 57. Relative humidity, by months and years, at Dodge City, Ford County

Year	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Annus.			
	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.	6:30 a. m.	Noon.		
1888	79	73	85	73	82	67	84	67	86	72	80	56	74	46	81	53	79	45	73	48	75	62	81	67	80	61		
1889	81	70	78	65	76	55	77	50	73	47	81	51	80	55	79	48	80	46	81	62	80	64	74	53	73	56		
1890	80	75	76	63	74	40	80	54	76	46	71	45	62	34	80	49	81	47	76	47	77	50	71	48	75	50		
1891	86	78	81	61	86	69	74	44	83	59	84	65	82	64	78	52	82	58	77	53	78	54	72	60	80	60		
1892	76	56	87	72	84	65	77	50	86	55	76	51	75	47	80	46	80	47	77	49	73	54	85	76	80	66		
1893	77	56	80	57	69	35	54	29	68	39	72	37	71	41	81	51	67	42	67	38	64	46	74	55	70	44		
1894	74	48	80	63	71	37	66	36	68	40	72	43	64	37	71	36	81	36	64	40	56	35	72	59	70	43		
1895	80	67	73	62	63	42	69	42	63	30	78	54	85	57	84	57	68	39	71	48	81	61	61	54	75	51		
1896	88	61	81	42	75	45	78	44	78	45	79	36	83	56	78	39	80	49	80	52	78	58	76	58	70	49		
1897	82	77	88	76	86	44	73	41	85	48	84	57	79	56	75	36	73	47	75	41	80	51	73	57	80	54		
1898	80	68	80	57	76	44	73	41	85	58	86	59	82	52	80	43	81	52	76	45	82	48	86	67	85	54		
1899	77	62	77	58	78	53	74	37	80	40	82	57	89	30	78	43	76	45	82	48	86	67	85	74	80	54		
1900	86	58	86	66	83	57	87	60	87	58	86	50	79	43	80	42	87	59	86	59	80	62	76	54	84	56		
1901	81	58	88	69	74	54	85	62	82	52	75	42	68	37	81	39	81	50	88	63	82	57	81	65	80	54		
1902	81	63	88	71	79	49	78	40	84	57	85	58	83	52	82	44	78	48	87	53	88	70	89	79	84	57		
1903	88	61	90	77	90	66	77	48	87	39	85	57	76	43	82	40	77	45	76	40	80	67	80	50	82	56		
1904	80	52	83	47	86	30	69	33	83	37	85	58	81	57	85	54	80	50	86	59	76	50	85	71	80	52		
1905	88	78	80	78	83	60	82	54	84	56	86	47	87	51	88	49	88	54	88	58	86	62	84	62	86	59		
1906	82	65	83	59	85	37	86	52	88	55	85	54	81	58	92	62	82	65	86	63	86	74	76	65	86	62		
1907	85	75	80	47	86	39	73	44	80	50	82	48	81	52	82	56	77	47	85	47	87	55	82	61	78	53		
1908	84	48	81	55	73	39	77	48	80	45	84	55	85	57	84	49	85	49	77	54	81	55	80	63	79	51		
1909	81	59	88	40	77	53	78	40	73	42	84	52	83	46	74	44	79	46	76	52	84	65	84	70	78	51		
1910	77	63	76	55	64	30	68	34	87	57	78	45	74	40	84	53	80	49	76	43	69	44	75	53	76	47		
1911	79	58	79	62	78	48	77	44	77	57	84	33	80	51	88	51	83	47	82	57	82	61	81	61	78	52		
1912	86	76	85	74	87	76	76	47	72	45	82	58	78	45	86	56	83	63	76	40	74	49	74	46	80	57		
1913	73	54	78	50	75	50	69	42	75	43	84	55	72	33	82	28	86	60	86	62	87	70	84	76	78	53		
1914	75	56	75	61	74	42	79	46	84	83	79	54	78	47	84	47	84	44	82	52	76	48	82	69	79	52		
1915	77	61	81	63	84	69	83	56	83	58	89	62	88	54	83	63	88	64	82	61	74	49	80	65	83	60		
1916	84	69	78	58	70	41	82	58	80	49	83	54	77	36	77	44	83	50	80	57	78	59	79	65	79	53		
1917	76	63	70	50	68	48	78	53	83	50	66	31	70	34	88	54	86	52	69	51	71	55	74	55	74	49		
1918	72	63	61	51	46	68	51	47	81	63	60	73	51	50	71	40	40	76	47	45	88	38	82	54	53	82	53	
1919	72	45	50	85	67	68	66	61	82	65	62	62	39	64	84	55	60	76	41	46	77	43	43	81	46	48	59	
1920	88	60	84	52	63	64	28	28	79	46	47	87	62	62	83	49	46	80	43	42	86	48	50	84	43	52	78	46
1921	79	52	84	88	50	56	76	42	44	74	41	42	80	46	48	51	79	46	47	81	43	46	63	31	39	74	48	51
1922	84	58	84	78	45	49	88	53	68	84	54	55	84	51	59	82	47	49	82	48	50	76	38	41	70	37	40	
1923	72	51	57	71	44	44	72	41	41	81	45	42	85	56	55	85	60	61	82	44	44	74	41	42	87	47	56	
1924	81	56	65	62	57	65	68	72	80	45	48	76	44	48	80	42	43	46	50	78	45	50	81	41	47	78	42	
1925	88	60	75	80	40	49	88	33	36	80	42	40	81	50	51	71	83	75	41	45	80	45	47	88	57	62	88	
1926	87	64	64	77	38	49	62	51	57	83	51	54	82	50	52	78	44	42	80	40	42	80	88	41	62	52	59	
1927	83	53	58	82	49	55	84	56	56	81	47	52	75	38	43	81	50	52	77	43	43	83	62	66	81	47	55	
1928	71	39	45	62	56	63	78	47	47	70	39	38	78	50	54	86	62	64	40	47	50	80	43	50	32	40	32	
1929	85	66	71	80	82	73	69	36	40	76	48	48	88	55	60	77	45	51	78	42	46	76	38	44	78	46	46	
1930	82	62	70	75	34	41	71	35	35	70	41	43	80	45	51	76	42	44	65	33	33	74	37	38	78	42	48	
1931	81	50	58	86	52	56	83	58	63	54	52	58	76	45	51	70	37	38	72	37	38	75	42	43	62	31	34	
1932	89	76	82	78	52	61	78	51	51	72	40	73	40	59	84	53	54	72	38	37	76	39	43	80	44	50	74	
1933	60	32	35	64	36	38	68	40	36	63	38	36	76	44	40	68	28	25	70	36	37	77	46	47	76	43	44	
1934	72	51	57	72	54	61	74	47	45	62	37	36	68	35	36	83	35	48	23	22	60	31	81	78	44	48	71	
1935	74	49	53	72	49	50	59	54	35	64	38	35	84	45	61	84	48	47	65	29	31	70	37	39	79	41		
1936	80	62	69	70	44	43	54	28	25	62	34	32	80	54	52	68	36	35	57	26	26	85	27	28	81	50		
1937	82	65	76	78	44	53	74	50	50	67	33	32	74	42	44	75	46	43	71	34	32	70	35	33	74	41		
1938	64	41	37	69	52	53	72	45	47	84	55	53	86	52	54	82	46	48	73	35	37	63	32	32	74	37		
1939	89	44	46	84	44	45	80	52	54	74	41	38	74	38	37	75	39	37	63	32	29	74	37	35	84	30		
1940	80	71	80	62	63	69	77	52	46	75	49	45	77	47	44	75	43	42	70	37	83	81	45	48	81	50		
Av.	79	54	62	79	50	58	78	46	40	76	45	46	80	48	52	79	45	49	76	39	44	78	41	46	79	43	49	

TABLE 58. Mean temperature, by months and years, at Garden City, Finney County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1894	28.5	22.0	45.8	55.8	65.7	73.6	76.6	73.4	65.4	56.0	42.6	30.7	63.0
1895	26.4	25.0	41.2	56.2	64.1	70.4	73.0	75.2	71.3	51.8	39.1	.....	.....
1896	35.2	37.4	41.0	58.8	66.6	.....	.....	.....	.....	.....	.....	.....	.....
1897	33.7	33.7	41.8	53.3	67.0	74.2	78.2	74.0	72.0	57.2	41.6	29.0	.....
1898	39.4	36.3	42.4	55.2	61.1	72.6	76.8	76.7	65.4	51.6	39.0	26.8	52.8
1899	30.5	18.8	38.6	53.6	67.2	74.2	76.2	80.4	69.6	57.2	45.9	31.0	53.6
1900	35.6	31.1	45.2	54.2	64.8	76.4	79.3	81.6	69.2	60.4	42.8	33.7	56.2
1901	31.5	29.0	41.3	53.9	63.5	78.7	84.4	80.4	69.2	59.4	45.2	32.6	55.8
1902	29.8	34.0	44.5	56.1	67.6	72.6	76.2	81.3	66.2	58.0	45.2	27.8	54.9
1903	34.9	24.8	40.1	53.4	60.8	66.5	79.5	79.8	69.8	56.8	43.6	34.8	53.7
1904	29.4	36.4	47.7	52.0	63.5	70.6	76.9	76.4	71.3	58.1	46.2	29.4	54.9
1905	23.0	22.3	50.2	51.5	61.4	75.4	74.8	79.8	72.1	54.3	45.6	32.6	53.6
1906	35.6	35.2	33.4	56.9	64.6	70.7	72.8	77.2	68.9	52.2	41.6	41.2	54.2
1907	31.6	38.0	52.0	50.4	59.1	72.4	80.8	77.0	70.2	57.4	39.8	32.6	55.1
1908	34.2	37.0	46.0	54.8	63.8	72.3	75.6	78.0	70.3	54.0	42.6	35.0	55.3
1909	31.0	35.8	40.6	52.2	60.4	73.0	77.9	79.8	69.6	56.0	45.8	24.6	53.9
1910	31.4	31.1	54.2	55.9	60.6	74.0	77.9	75.4	70.2	58.6	43.9	34.2	55.6
1911	35.4	31.4	47.4	54.9	66.8	77.2	79.2	75.2	74.6	52.4	37.7	26.2	54.9
1912	18.8	34.0	32.0	52.6	66.2	68.1	77.8	76.4	64.0	56.4	43.1	33.0	51.9
1913	28.8	25.2	40.4	56.5	67.6	73.0	80.4	80.4	64.3	53.0	46.8	33.1	54.2
1914	38.7	31.2	44.6	54.6	63.6	77.8	78.0	77.2	72.5	56.8	45.7	25.2	55.5
1915	31.2	34.0	34.0	58.2	58.9	69.4	74.8	71.0	68.4	57.9	46.3	34.4	53.7
1916	25.6	35.2	49.6	50.4	63.3	70.7	80.4	77.8	68.4	55.8	40.7	28.4	53.9
1917	30.2	34.5	41.6	.....	.....	72.2	77.4	73.3	67.6	51.9a	47.0	29.2	.....
1918	24.2	38.8	49.8	47.9	67.2	77.2	77.2	79.6	64.0	59.4	41.2	31.6	54.8
1919	23.9	29.8	43.8	53.8	61.6	70.8	78.2	77.8	73.0	52.8	37.6	23.0a	52.6
1920	32.8	34.8	45.6	47.4	62.1	72.5	77.0	71.8	67.4	59.8	39.0	35.6	53.8
1921	35.3	37.9	49.5	53.4	63.6	71.6	78.2	77.2	72.5	58.4	42.3a	31.8	56.0
1922	28.9	33.6a	40.7	52.5	63.9	73.6	77.9	79.4d	74.2b	57.6	44.6	32.6	55.0
1923	37.5	.....	40.4a	53.0	61.4a	72.0	78.8	76.6	68.1	50.8	43.9	33.3	.....
1924	28.4a	36.8	33.3	53.0	57.0	74.4	76.8	79.0	67.0a	58.7	44.4d	26.6a	53.0
1925	27.8b	41.2	49.5b	59.2	64.8	78.6	80.6	77.0	71.2b	47.2c	41.2c	33.9b	56.0
1926	33.2b	42.0b	42.4a	48.2	64.7d	73.1	78.8	78.6	70.0	59.4a	39.8	30.0	55.0
1927	33.4	37.6	41.0	56.3d	67.9	72.8	78.7b	73.7c	70.8d	59.9	46.0c	28.2a	55.2
1928	37.0a	36.4a	46.0b	51.2	64.2	66.7	78.2	76.7	69.1f	57.2b	42.2	34.4	54.9
1929	26.2b	23.9a	46.5a	55.0	59.6	69.6d	80.4	78.2	65.8	55.2d	32.8	35.8	52.4
1930	18.8	46.7b	41.8	58.5	62.3	74.4	80.4	78.7	69.2	54.4	44.0	33.0b	55.2
1931	36.8	42.4	37.9	52.3	60.4	79.1a	79.2	75.6	76.5	60.4f	44.2b	37.8	56.9
1932	28.0b	41.2	37.6a	58.1a	67.2	72.4	82.6	79.2	68.9	54.8	43.4d	27.5b	55.1
1933	38.7	33.4a	48.1	53.8	63.9	80.4	81.4	76.2	74.4	58.7	45.6	40.2	57.9
1934	37.4	.....	44.8b	57.2	70.4	80.0	86.6	81.9	67.2	61.6a	45.8b	.....	.....
1935	36.0d	39.8a	51.2	53.5	57.8	73.0	83.8	79.7	68.4	56.0	39.8	36.0a	56.2
1936	30.0	25.8	47.9	54.9	66.6	76.4	81.8	81.3a	70.4	53.4a	43.2	37.8	55.8
1937	22.5	34.7	40.5	56.6b	66.6	72.8	81.6	83.6	71.0	56.0	41.4	32.8a	54.7
1938	36.0b	38.8	50.0b	54.0b	64.0	74.1a	79.8	81.9	70.5	60.8	41.0a	35.6a	57.2
1939	38.0	29.6	44.6	55.4a	67.9c	75.0a	80.5	76.9a	72.0a	57.2a	43.7	38.0	56.6
1940	17.2	35.8	45.6	53.8b	63.4a	72.2	80.2	74.2	69.2	61.1	39.9	37.6	54.2
Average	30.8	33.8	43.7	54.2	63.8	73.4	78.8	77.7	69.6	56.4	42.7	32.3	54.8

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, c represents three days, etc.

TABLE 59. Precipitation, by months and years, at Garden City, Finney County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1889								4.24	0.16	3.98	0.50	0.00	
1890	T	T	T	3.48	2.02	2.48	0.62	1.75	.72	.48	†.50	†.05	12.10
1891	0.64	0.18	0.28	.21	1.78	7.89	7.91	2.08	4.45	.79	0	1.00	27.21
1892	.10	.40	2.00	.20	4.40	.60	1.13	.15	.03	.02	T	.50	9.53
1893	†.05	†.20	†.10	†.06	†1.63	†1.36	†1.62	†1.09	1.79	T	.47	T	8.92
1894	T	.55	1.20	.93	.64	2.33	2.20	1.83	.65	.12	T	1.00	11.45
1895	.33	1.90	.02	.50	2.12	5.53	6.93	.62	.35	1.06	T	.55	20.21
1896	.44	0	.05	3.51	1.95	*1.50	3.35	†.60	†.80	†.60	†T	†.40	13.20
1897	†.01	2.33	.19	2.09	.61	3.19	3.49	5.80	.33	1.78	T	.50	20.32
1898	1.55	0	.50	.97	6.49	6.39	2.59	2.04	4.24	.43	1.55	2.00	28.75
1899	.35	1.18	1.30	1.00	.42	4.40	6.21	1.00	1.93	.75	1.26	.78	20.58
1900	.15	.88	1.22	5.20	2.05	2.79	2.18	.80	3.10	.52	T	.40	19.29
1901	.20	.55	2.20	3.90	1.20	1.30	1.48	2.03	4.57	.60	0	.31	18.34
1902	.25	.87	2.46	.70	6.26	2.43	.98	.88	1.00	2.62	.20	1.00	19.65
1903	.25	4.45	.70	5.10	1.49	2.83	.77	3.65	.35	.40	.40	.25	20.64
1904	.10	T	.11	.95	4.30	2.64	5.65	1.32	3.39	1.20	.09	1.30	21.05
1905	1.10	.71	1.30	5.70	1.47	4.57	.86	.57	1.05	.55	3.10	.05	21.03
1906	.30	.43	1.60	3.24	1.92	4.47	5.82	1.50	3.05	3.46	1.32	T	27.11
1907	.15	.25	.48	.91	2.44	2.55	6.35	1.62	2.59	1.45	.16	2.00	20.95
1908	.08	.67	.18	.53	1.29	4.95	1.75	2.18	1.04	1.07	2.72	.23	16.69
1909	.30	.35	2.15	.20	3.06	3.48	6.22	.81	1.20	.75	3.77	.70	22.99
1910	.50	.25	T	1.29	2.28	2.19	3.36	3.91	.27	T	.15	T	14.20
1911	T	3.53	.86	.40	2.91	1.46	3.51	1.89	.22	1.54	.95	1.66	18.93
1912	.28	3.04	.98	2.36	.67	4.16	1.57	3.91	1.04	.15	.29	.05	18.50
1913	.15	1.15	.50	1.05	1.42	3.28	1.14	2.00	5.21	.23	1.19	2.82	20.14
1914	.27	2.20	.03	1.76	4.34	2.54	1.93	1.01	1.10	1.45	T	.41	14.04
1915	.45	2.54	.95	2.98	4.36	2.28	2.29	7.68	2.61	1.75	.12	.13	28.14
1916	1.09	T	.60	2.50	3.33	3.86	.55	3.83	.87	1.05	T	.51	15.19
1917	.30	0	.60	3.52	3.60	2.53	2.23	3.26	1.58	.13	.30	.16	18.21
1918	.70	.75	2.48	.92	2.67	1.88	4.01	.66	2.14	4.44	.12	4.60	25.37
1919	.10	1.75	1.45	4.52	1.32	1.14	3.19	.54	4.23	1.23	1.28	.27	21.02
1920	.20	.23	.21	1.52	2.22	3.79	4.05	3.78	2.00	2.60	.68	.33	21.61
1921	.76	.83	.12	3.49	1.00	6.98	2.56	2.14	2.79	.06	T	.75	21.48
1922	.48	.50	1.67	4.85	2.32	.62	2.04	3.39	.53	0	.49	T	16.89
1923	0	T	.49	2.55	8.49	5.34	4.36	3.83	5.63	3.29	.34	.49	34.81
1924	T	1.44	2.20	2.28	1.07	1.06	.81	2.02	1.62	.55	0	1.18	14.23
1925	T	.75	.24	2.61	1.95	1.33	1.00	1.44	2.11	.58	1.72	.03	13.81
1926	.26	1.00	3.58	1.68	1.37	2.84	2.86	1.44	1.43	T	.83	.71	18.00
1927	T	1.43	1.73	1.81	.13	3.08	1.73	2.38	1.09	.16	.07	.20	12.81
1928	T	1.46	1.24	1.48	5.92	6.83	4.62	2.02	.28	2.89	1.25	.25	28.24
1929	.25	.74	.70	1.39	3.49	1.67	2.14	2.08	2.23	1.35	2.05	.21	18.30
1930	.50	.18	T	1.57	3.45	1.63	2.98	1.12	3.29	6.49	1.43	.40	23.04
1931	.05	.65	2.11	2.04	1.69	.83	3.45	4.23	.26	1.33	.89	.20	17.73
1932	1.10	.49	.72	2.21	.93	6.57	.58	2.80	.94	.68	.13	.10	16.25
1933	0	.53	.31	2.08	2.74	.94	1.72	5.27	1.56	1.52	1.00	1.17	18.84
1934	.10	1.89	.59	.38	.89	1.34	.17	.63	1.48	1.04	.57	T	9.08
1935	.47	.09	.48	T	2.95	1.37	.30	1.24	1.56	.13	.91	.06	9.56
1936	.34	.11	.20	.50	5.37	.46	2.24	.84	1.72	1.47	T	.67	14.12
1937	.11	.56	.81	.15	.96	3.19	.82	.38	.90	.77	.08	.16	8.87
1938	0	.38	1.09	1.87	3.09	1.16	1.98	1.28	3.98	.32	.28	.08	15.44
1939	.49	1.06	1.54	.31	.70	1.38	2.05	.71	.02	T	.63	1.56	10.45
1940	.53	.50	1.13	.75	4.53	3.00	1.38	5.10	1.92	.12	1.63	.91	21.50
Average	.31	.84	.93	1.89	2.49	2.90	2.66	2.18	1.78	1.15	.69	.63	18.45

* Estimated from surrounding stations.

† Taken from Lakin record, about 15 miles west.

TABLE 60. *Snowfall, by months and years, at Garden City, Finney County*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1893	†	†	†	†	†	.....	.....	.....	0	0	T	T	†
1894	T	5.7	1.0	0	0	.....	.....	.....	0	0	0	10.0	16.7
1895	1.1	0.1	0.1	3.0	0	.....	.....	.....	0	0	2.0	†	†
1896	T	0	0.5	0	0	.....	.....	.....	†	†	†	†	†
1897	5.0	13.0	1.0	0	0	.....	.....	.....	0	2.0	T	3.5	24.5
1898	8.0	0	2.0	0	0	.....	.....	.....	0	1.0	7.0	7.0	25.0
1899	2.0	10.3	4.5	2.0	0	.....	.....	.....	0	0	0	7.0	25.8
1900	1.0	8.8	6.1	10.0	0	.....	.....	.....	0	0	0	1.0	26.9
1901	2.5	4.0	6.5	5.0	0	.....	.....	.....	0	0	0	0.9	18.9
1902	1.5	5.2	2.0	0	0	.....	.....	.....	0	0	0	8.7	17.4
1903	2.0	34.0	2.0	5.0	0	.....	.....	.....	0	0	1.0	1.0	45.0
1904	1.0	T	T	0	0	.....	.....	.....	0	T	0.5	13.0	14.5
1905	11.2	8.5	1.0	0	0	.....	.....	.....	0	1.0	0	0.5	22.2
1906	3.1	0.2	13.2	T	0	.....	.....	.....	0	T	4.0	T	20.5
1907	1.5	1.6	T	3.0	0	.....	.....	.....	0	0	0.1	18.5	24.7
1908	1.5	5.0	0.5	0	0	.....	.....	.....	0	0	8.0	1.0	16.0
1909	2.0	2.5	7.0	0.5	0	.....	.....	.....	0	T	4.0	4.6	20.6
1910	4.0	1.1	0	0	0	.....	.....	.....	0	0.1	1.0	T	6.2
1911	T	10.0	T	0	0	.....	.....	.....	0	4.0	4.5	14.0	32.5
1912	5.4	16.0	6.8	T	0	.....	.....	.....	0	T	2.0	0.5	30.7
1913	2.0	13.5	0.5	0.2	0	.....	.....	.....	0	0.5	T	7.0	23.7
1914	2.8	4.1	0.2	0.5	0	.....	.....	.....	0	0	T	5.0	12.6
1915	5.4	5.0	5.0	0	0	.....	.....	.....	0	0	T	1.5	16.9
1916	8.8	0.5	2.5	5.0	0	.....	.....	.....	0	1.0	1.0	6.0	24.8
1917	3.5	0	4.7	2.0	2.0	.....	.....	.....	0	0.5	0	2.0	14.7
1918	8.0	3.5	T	0	0	.....	.....	.....	0	T	2.0	22.5	36.0
1919	0.5	11.0	2.5	10.0	0	.....	.....	.....	0	0	7.0	3.5	34.5
1920	T	1.0	2.0	7.0	0	.....	.....	.....	0	0	1.5	1.0	12.5
1921	3.0	10.0	1.2	T	0	.....	.....	.....	0	0	0	6.0	20.2
1922	T	7.0	8.5	T	0	.....	.....	.....	0	0	T	T	15.5
1923	0	T	3.0	0	0	.....	.....	.....	0	0	0.2	5.6	8.8
1924	0.6	13.0	25.5	0	0	.....	.....	.....	0	0	0	16.0	55.1
1925	T	3.0	0	0	0	.....	.....	.....	0	0	†	0.5	†
1926	0	6.0	0	0	0	.....	.....	.....	0	0	2.0	8.0	16.0
1927	0	4.0	3.0	0	0	.....	.....	.....	0	0	0.8	2.0	9.8
1928	T	1.5	6.0	T	0	.....	.....	.....	0	0	T	3.4	10.9
1929	3.0	9.0	0	0	0	.....	.....	.....	0	0	15.5	3.0	30.5
1930	5.0	0.2	0	0	0	.....	.....	.....	0	0	1.0	3.0	9.2
1931	0.5	T	13.0	T	2.0	.....	.....	.....	0	0	7.3	T	22.8
1932	11.0	1.0	3.7	0	0	.....	.....	.....	0	0	0	1.0	16.7
1933	0	1.5	T	0	0	.....	.....	.....	0	0	0	0	1.5
1934	1.0	14.0	7.0	0	0	.....	.....	.....	0	0	4.0	0	26.0
1935	T	0.2	1.0	0	0	.....	.....	.....	0	0	0.5	2.0	3.7
1936	5.0	1.0	0.4	T	0	.....	.....	.....	0	0	T	3.0	9.4
1937	T	8.0	5.5	0	0	.....	.....	.....	0	0	0.2	2.2	15.9
1938	0	4.3	0	2.0	0	.....	.....	.....	0	0	2.0	2.5	10.8
1939	0.5	15.0	4.5	1.0	0	.....	.....	.....	0	0	0.5	12.3	33.8
1940	6.0	4.6	4.5	T	0	.....	.....	.....	0	0	6.0	1.0	22.1
Average	2.5	5.7	3.4	1.2	0.1	.....	.....	.....	0	0.2	1.9	4.6	19.6

† Data missing.

TABLE 61. Amount of evaporation (inches) and average hourly wind movement (miles), by months, at Garden City, Finney County†

Year	Data	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1908	Evaporation				9.022	9.856	10.496	9.457	9.689	7.612			
	Wind movem't					11.6	12.6	8.5	8.5	8.0			
1909	Evaporation				6.570	9.097	8.755	9.801	9.878	7.462			
	Wind movem't					10.9	8.5	7.1	6.9	7.1	7.5		
1910	Evaporation				7.755	6.328	9.425	10.467	7.627	6.806			
	Wind movem't			8.1		9.4	9.5	6.6	6.8	7.4	7.8		
1911	Evaporation				7.100	9.723	11.851	10.252	10.236	8.859			
	Wind movem't					11.1	13.2	9.7	9.2	9.1	10.3		
1912	Evaporation				6.796	10.821	8.576	10.642	9.151	7.091			
	Wind movem't					12.1	11.6	8.5	7.9	6.4	9.3		6.8
1913	Evaporation				2.807	8.228	9.512	14.153	12.895	6.930			
	Wind movem't					12.3	10.3	10.4	10.9	8.1		8.2	11.3
1914	Evaporation				6.924	7.046	9.942	9.403	10.010	9.336			
	Wind movem't			10.4		11.1	10.3	10.3	5.9	7.4	8.8	8.7	5.8	6.8
1915	Evaporation				5.252	7.591	7.701	9.258	5.920	6.034			
	Wind movem't	7.8	8.9	9.1		8.9	9.5	8.3	7.2	4.3	6.7	5.2	6.8	5.3
1916	Evaporation				6.179	9.631	10.326	13.218	10.674	7.431			
	Wind movem't	6.5	5.4	7.8		9.7	11.2	9.8	8.2	7.5	7.4	8.2	6.7	6.1
1917	Evaporation				6.564	7.439	12.317	12.441	9.009	7.053			
	Wind movem't	5.8	7.4	9.1		11.3	9.5	9.7	7.3	6.3	7.2	7.7	6.2	6.2
1918	Evaporation				5.252	10.252	10.297	10.177	11.865	6.328			
	Wind movem't	6.7	7.7	8.8		11.3	11.6	7.3	7.5	7.2			
1919	Evaporation				5.256	6.525	8.620	11.915	11.083	8.094			
	Wind movem't			9.1		11.4	8.8	9.1	9.2	7.0	8.1	7.6	8.5	6.5
1920	Evaporation				6.834	7.408	10.622	11.156	7.865	7.314			
	Wind movem't	6.8	7.9	11.0		9.9	10.4	10.1	7.2	6.2	6.5	9.9	7.7	7.8
1921	Evaporation				7.004	9.462	8.695	9.442	9.125	9.623			
	Wind movem't	6.3	8.2	11.1		10.2	9.8	4.7	5.0	4.5	5.8	3.1	5.9	7.6
1922	Evaporation				5.202	7.502	10.755	11.896	11.983	10.135			
	Wind movem't	9.2	9.1	11.6		11.3	8.7	8.7	8.5	6.3	8.3	7.3	9.6	6.6
1923	Evaporation				6.810	6.736	8.027	10.466	9.090	6.775			
	Wind movem't	6.4	7.9	10.9		10.6	10.6	10.5	7.3	5.8	6.6	7.7	5.6	7.0
1924	Evaporation				5.725	7.142	10.458	10.993	10.843	8.164			
	Wind movem't	8.0	8.6	9.7		10.1	8.2	9.0	9.1	8.2	8.0	8.7	6.7	7.6
1925	Evaporation				7.369	8.244	12.412	12.316	10.900	7.513			
	Wind movem't	6.8	8.3	10.3		10.4	9.0	10.2	7.3	7.9	8.3	9.0	7.1	8.6
1926	Evaporation				5.828	8.254	10.252	12.168	11.165	8.245			
	Wind movem't	7.5	8.9	9.9		8.6	9.3	8.5	7.8	6.5	9.5	8.0	8.6	6.5
1927	Evaporation				6.137	11.232	10.304	12.160	7.856	8.909			
	Wind movem't	7.9	8.2	12.4		10.1	11.4	10.7	8.5	6.6	8.6	7.1	7.7	8.2
1928	Evaporation				7.426	7.911	7.272	9.992	10.053	8.316			
	Wind movem't	6.2	8.6	10.0		12.1	8.5	8.9	7.0	6.7	6.1	6.8	6.9	6.1
1929	Evaporation				6.866	6.340	10.128	12.054	10.191	8.312			
	Wind movem't	7.6	6.9	8.6		10.5	10.1	8.3	7.5	6.1	9.0	7.0	7.5	6.5
1930	Evaporation				7.055	8.710	11.284	13.913	11.683	8.917			
	Wind movem't	7.9	7.0	9.5		9.0	10.1	9.2	8.7	7.2	6.4	2.9	6.7	5.6
1931	Evaporation				4.932	7.548	12.527	12.417	10.345	10.946			
	Wind movem't	5.5	8.5	10.9		9.9	9.0	9.8	7.8	7.0	9.4	8.6	7.8	6.9

TABLE 61. (Concluded)

Year	Data	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1932	Evaporation				7.026	9.181	8.119	13.450	11.462	7.363			
	Wind movem't	7.1	7.6	9.0	11.4	9.0	7.7	9.8	9.8	7.9	7.9	8.1	6.8
1933	Evaporation				9.661	9.426	13.839	12.862	9.441	9.149			
	Wind movem't	7.3	9.1	12.4	10.6	10.3	10.1	7.9	7.3	8.5	8.2	7.3	6.4
1934	Evaporation				7.151	11.174	13.863	16.696	13.299	8.843			
	Wind movem't	7.7	8.0	9.0	8.6	10.6	11.2	10.2	9.6	11.4	8.6	8.2	7.0
1935	Evaporation				7.817	5.660	10.939	15.225	12.467	8.710			
	Wind movem't	7.7	9.0	11.7	13.8	11.8	12.5	10.6	9.9	10.0	9.7	7.8	7.3
1936	Evaporation				7.809	8.831	11.730	14.658	12.304	8.081			
	Wind movem't	7.4	9.1	10.5	11.2	12.1	9.6	9.0	6.8	8.6	7.3	7.8	7.7
1937	Evaporation				8.247	10.520	9.436	14.082	14.418	8.715			
	Wind movem't	9.3	9.4	11.2	11.3	11.4	9.7	8.9	10.3	8.7	8.0	8.0	6.3
1938	Evaporation				6.873	8.331	10.770	13.198	14.584	7.529			
	Wind movem't	8.1	7.8	10.8	13.9	10.8	10.9	8.4	10.1	6.7	8.5	8.4	7.2
1939	Evaporation				7.194	10.238	12.527	14.325	11.808	11.404			
	Wind movem't	8.6	9.6	8.6	11.5	9.7	11.1	9.5	8.4	10.1	8.5	7.3	6.1
1940	Evaporation				6.779	8.052	10.334	13.193	9.345	7.128			
	Wind movem't	6.4	9.2	9.4	11.3	8.8	9.0	9.2	7.3	7.9	7.4	7.5	6.2
Avg.	Evaporation				6.704	8.498	10.337	12.054	10.553	8.156			
	Wind movem't	7.3	8.3	10.0	10.8	10.2	9.5	8.2	7.4	8.1	7.7	7.4	7.0

† The evaporation apparatus is composed of a galvanized tank 24 inches deep and 72 inches in diameter, set in the ground to a depth of 20 inches. The tank is kept filled with water to a depth of approximately 20 inches. The apparatus for determining wind movement consists of a 4-cup anemometer, 27 inches above ground level.

KANSAS WEATHER AND CLIMATE

TABLE 62. Mean temperature, by months and years, at Richfield, Morton County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1889												47.7	
1890	34.9	38.9	46.4	55.0									
1891							77.2	77.9	75.6	59.4	40.4	34.8	
1892		35.1		54.6	62.1								
1893	37.2	33.8	43.7	53.9	62.8	77.6	81.4	75.2	69.7	55.6	41.8	39.0	56.0
1894	33.4	25.1	46.6	57.2	67.4	73.8	77.6	74.4	67.0	58.4	45.2	34.6	55.0
1895	30.0	27.1	43.4	57.2	65.6	71.4	75.2	75.4	71.8	52.9	40.6	33.5	53.7
1896	37.6	39.3	42.8	59.2	70.6	78.4	81.2	81.4	67.4	54.2	40.3	40.8	57.7
1897	30.4	35.0	43.4	54.6	66.2	76.4	80.8	75.4	73.0	58.2	41.7	30.4	55.4
1898	31.9	40.4	44.2	56.2	62.6	73.2	77.6	77.4	66.0	53.8	41.0	26.6	54.2
1899	30.8	23.5	42.0	55.8	65.8	74.9	76.4	80.0	69.0	57.0	46.1	32.6	54.5
1900	37.2	33.0		52.4	65.0	75.5	77.4	79.9	67.6	59.2	45.0	36.0	
1901	33.8	31.2	42.6	54.0	62.7	75.6	82.2	77.5	69.0	57.9	45.7	35.1	55.6
1902	32.2	36.2	44.4	55.8	65.9	71.5	75.8	78.6	65.3	56.6	44.2	31.0	54.8
1903	35.6	25.6	39.2	52.5	60.4	64.6	77.4	76.0	66.5	55.8	42.8	35.5	52.7
1904	30.6	38.8	47.2	52.1	63.8	69.6	75.0	74.8	69.2	56.9	45.2	35.8	54.9
1905	26.0	23.4	49.4	50.8	61.4	74.4	73.4	77.2	70.8	53.8	46.2		
1906													
1907													
1908													
1909													
1910													
1911								77.2	73.4	54.2	38.0	25.8	
1912	18.6	32.6	33.0	51.3	63.6	68.2	77.3	76.3	63.4	55.7	44.8	33.6	51.5
1913	32.3	25.2	40.2	54.8	67.0	71.8	80.8	80.0	64.0	54.0	46.9	30.0	53.9
1914	39.2	33.8	45.4	55.3	62.9	75.4	76.9	75.9	71.8	57.4	47.2	27.2	55.7
1915	30.7	38.5	33.2	56.0	62.8	67.5	72.8	69.4	67.4	58.4	45.4	35.4	52.6
1916	27.2	37.0	48.2		62.0 ^e	71.2	79.6	75.4 ^d	67.2	56.3	40.6 ^b	29.3	
1917	31.5	34.3		51.5	56.4	71.4	79.0	74.0	68.2	52.4	47.2	32.7	
1918	25.4	40.2	49.4 ^a	43.6	65.6	76.3	77.1 ^a	79.0	63.3	59.4	39.2	30.8	54.5
1919	21.8	28.2 ^a	44.2	51.9 ^a	61.2	68.6	77.0	78.8 ^d	72.6 ^a	54.0		32.1 ^a	
1920	34.7	36.6 ^b	43.0 ^b	47.6 ^b	62.0 ^f	71.7 ^b	77.8	71.8 ^a	68.2 ^b	57.5 ^b	40.6	34.8 ^a	53.9
1921	36.7	38.7	48.2 ^a	52.8	62.6 ^c	71.4	76.8	77.1 ^a	73.2	59.1 ⁱ	43.8	34.4 ^b	56.2
1922	29.4	36.5 ^b	40.0	52.0 ^a	62.0	74.6 ^a	77.8	79.6 ^a	72.8	57.1	42.6	35.5 ^b	55.0
1923	39.4 ^a	31.8	39.4 ^a	53.5	60.8	71.6	78.2 ^a	77.4	67.8	50.6	42.2 ^b	32.3	53.8
1924	29.9	38.2 ^a	32.6	53.0	56.4 ^a	74.5	76.6	79.4 ^b	66.3 ^a	59.0 ^a	45.5 ^d	24.2	53.0
1925	29.8	40.6 ^b	49.0	57.3 ^a	66.0	77.1	78.8	76.7	69.1	49.0 ^d	41.2 ^b	33.3 ^b	55.7
1926		42.6	41.2	47.8	63.2	72.6	78.7	77.0	71.0	59.0	42.4	31.6	
1927	36.5 ^b	38.8	42.6	56.0	67.1	71.0 ^b	76.8 ^a	72.0 ^d		58.0 ^j	46.2	29.8 ^a	
1928	36.6	36.6	45.8	50.8	62.2	67.2	78.4	75.2	68.6	56.8	42.9	35.0	54.7
1929	29.2	26.6	46.2 ^b	55.2	60.8	72.5	78.0	77.6	66.2	55.0	32.4	36.0	53.0
1930	19.5	46.0	41.8 ^a	59.9	61.6	74.8	80.0 ^b	77.4	69.5	55.1	44.2	33.5	55.3
1931	35.6 ^d	43.0 ^c	40.0 ^f		59.8 ^j	75.8	79.1	73.8	76.0	60.4 ^d	40.2 ^c		
1932	29.6 ^b	45.0 ^d			65.5	71.9	82.4 ^e	78.6 ^b	66.8	53.2	42.5	26.5	
1933	37.8 ^a	32.8 ^b	46.6		64.2	79.2	81.6	75.6	72.8	57.2 ^b	45.8 ^b	42.1 ^b	
1934	37.2	38.0 ^b	45.7 ^b	57.0	69.7	79.3	85.3 ^a	81.8 ^b	65.6 ^e	60.4	45.4 ^a	35.8	58.4
1935	39.0	39.3 ^a	49.8 ^a	52.0 ^b	56.6 ^h	74.4	84.1	81.2					
1936	31.1 ^b	27.4 ^b	47.5 ^a	54.2 ^d	66.2 ^d	77.0 ^f	81.9 ^h	80.7 ^d					
1937	24.4	37.0	41.0 ^b	55.0	67.0	74.4	82.8	83.8	72.6	55.8 ^f	43.1 ^k	32.6 ^g	56.0
1938	36.2	39.9	50.6	54.1	63.6 ^d	74.8 ^h	79.9	83.2 ^c	70.0	61.7	41.0	37.6	57.7
1939	38.0	31.2	45.5	55.8	67.0	75.8 ^m	81.8 ⁿ	78.6 ^b	73.8	59.1	43.4	37.9 ^b	57.3
1940	19.0 ^a	38.2	46.8	54.4	64.4 ^f	73.0	82.1 ^a	75.9	71.4	61.9	41.4 ^d	37.6 ^a	55.5
Average	31.9	35.0	43.8	54.0	63.4	73.4	78.7	77.3	69.3	56.7	43.0	33.7	54.9

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, c represents three days, etc.

TABLE 63. Precipitation, by months and years, at Richfield,‡ Morton County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1891	*1.00	*0.25	*1.50	*0.75	5.23	6.20	2.25	1.80	8.60	2.55	0.50	1.95	32.58
1892	.25	.50	2.30	.60	2.30	1.39	3.59	1.71	.12	.63	.46	.40	14.25
1893	T	.06	T	.15	.63	1.68	2.08	4.33	1.53	.54	T	.30	11.30
1894	.20	1.00	.40	1.25	3.20	3.35	4.95	1.05	3.84	.54	T	1.10	20.88
1895	.65	.55	.05	.55	1.31	5.02	12.31	1.34	0	.41	.56	.65	23.40
1896	.45	T	.10	1.61	.70	1.64	.90	.22	2.01	.75	.24	.68	9.30
1897	.80	1.55	.10	3.49	1.67	.58	1.45	4.41	.08	1.75	0	.45	16.33
1898	.80	.10	.40	1.28	3.61	3.46	2.82	2.68	1.28	.26	.84	2.60	20.13
1899	.90	.60	.70	.02	.50	.58	5.99	.80	2.46	2.45	1.56	.90	17.46
1900	.30	.80	.30	6.42	1.36	1.46	1.61	.01	2.51	1.38	0	.20	16.35
1901	.30	.60	.52	2.27	2.11	2.10	1.60	3.26	1.85	1.21	T	.10	15.92
1902	.50	.20	2.02	.60	4.28	2.18	3.87	.37	.25	2.17	.44	.10	16.98
1903	.11	4.10	.30	1.25	1.88	2.46	1.62	1.78	.20	.30	.20	.10	14.30
1904	T	T	T	.66	2.40	4.10	2.45	1.86	4.55	.96	T	.80	17.78
1905	.91	.50	1.25	5.15	2.55	.77	1.61	2.23	1.49	.45	*3.10	.....	.....
1906	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1907	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1908	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1909	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1910	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911	*T	*2.10	*.02	*.80	2.28	.60	9.53	2.05	.34	.87	.32	2.76	21.67
1912	0	3.73	.55	2.88	1.82	2.12	1.55	1.34	.81	.07	.47	T	15.34
1913	.50	1.37	.35	1.14	.69	1.75	1.54	.34	2.96	.89	1.68	2.37	15.58
1914	.15	.25	.13	1.54	4.79	1.14	2.11	1.51	.17	3.37	T	.37	15.53
1915	.90	1.85	.65	3.64	4.06	5.76	3.36	3.56	.87	1.01	.26	.13	26.05
1916	.81	T	T	2.08	.18	3.92	.85	3.37	.68	.48	.05	.49	12.91
1917	.22	.11	.16	2.02	2.33	.66	1.83	5.00	1.14	.25	.34	.10	14.16
1918	.15	.32	1.92	1.38	1.28	1.83	4.27	.19	2.85	2.58	.14	6.30	23.21
1919	T	.93	2.42	2.98	1.68	.58	2.56	.15	2.25	1.34	.86	.02	15.77
1920	.40	.19	.20	.72	2.85	2.38	1.33	4.70	6.34	1.60	.48	1.00	22.19
1921	.68	.85	.61	1.54	2.69	2.27	6.35	1.05	.46	.52	T	1.05	18.07
1922	.31	.79	.94	2.59	1.86	2.80	3.37	2.14	.54	.17	.67	.10	16.28
1923	T	.60	.80	.64	3.03	4.98	1.67	.67	1.55	4.57	.64	.87	19.92
1924	.10	.75	3.50	1.35	.79	.75	.67	.86	1.02	.79	0	1.40	11.98
1925	.24	.23	.25	.61	1.28	1.47	2.11	1.72	5.04	.45	1.48	.08	14.96
1926	.12	.45	2.78	1.68	1.14	1.35	1.82	2.11	.69	.10	.43	.53	13.20
1927	T	.10	1.43	1.56	.38	2.87	5.48	3.17	.....	.....	.10	.02	.....
1928	0	.59	1.25	1.18	5.50	4.87	1.55	5.05	.25	3.20	2.25	.95	26.64
1929	.35	.04	1.53	2.10	1.90	1.70	3.35	2.80	.90	T	2.18	T	16.85
1930	.30	T	*.05	1.62	1.35	1.78	1.25	3.20	1.85	8.90	.65	.70	21.65
1931	0	1.83	*1.25	*1.10	*1.90	.41	T	4.60	.63	.57	.15	.08	12.52
1932	1.95	.21	*2.00	*2.73	.15	3.01	.33	1.11	.73	.40	.21	.23	13.06
1933	0	.31	.78	*.90	2.20	.20	T	6.06	1.18	.64	1.45	1.40	15.12
1934	.03	2.60	.57	.03	.10	.74	1.05	.71	*1.12	.70	T	T	7.65
1935	.40	.05	.60	T	1.63	1.33	.05	.66	*1.05	.43	.71	*.18	7.09
1936	.32	T	.04	.23	2.68	.86	.83	.....	.....	.....	.....	.....	.....
1937	T	.10	.55	.28	1.55	.63	1.45	.52	1.77	.86	.30	.57	8.58
1938	T	.62	.61	1.67	3.64	2.14	2.55	.03	2.52	1.01	.05	.63	15.47
1939	1.06	.70	1.07	1.41	.97	1.25	1.28	T	.12	T	.03	1.26	9.15
1940	.40	.60	.68	1.62	2.39	1.05	1.02	2.33	.45	.45	2.61	.44	14.04
Average	.37	.74	.84	1.56	2.06	2.09	2.54	2.02	1.65	1.22	.60	.78	16.47

*Estimated from surrounding stations.

‡ Record from 1891 to 1905 for Viroqua, 2 miles south of Richfield. Record from May, 1911, to September, 1927, 3 miles north of Richfield.

TABLE 64. Snowfall, by months and years, at Richfield, Morton County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1889	†	†	†	†	†				0	6.0	0	0	†
1890	10.0	1.0	0	T	†				†	†	†	†	†
1891	†	†	†	†	0				0	0	1.0	4.0	†
1892	2.5	4.0	14.0	T	0				0	0	†	†	†
1893	T	T	0	0	0				0	0	T	4.0	4.0
1894	2.0	10.0	T	0	0				0	0	T	8.5	20.5
1895	6.5	2.5	0.5	3.0	0				0	0	3.0	6.0	21.5
1896	T	T	1.0	0	0				0	T	0	0	1.0
1897	8.0	15.5	1.0	0	0				0	T	0	3.0	27.5
1898	8.0	1.0	2.0	0.5	0				T	1.0	6.0	21.0	39.5
1899	9.0	6.0	5.0	T	0				0	0	0	9.0	29.0
1900	2.0	8.0	†	3.0	0				0	0	0	2.0	†
1901	3.0	6.0	3.0	5.0	0				0	0	0	1.0	18.0
1902	5.0	2.0	2.0	0	0				0	0	T	1.0	10.0
1903	1.0	41.0	3.0	4.0	0				0	0	1.0	1.0	51.0
1904	T	T	T	0	0				0	0	T	8.0	8.0
1905	9.0	5.0	T	T	0				0	T	0	†	†
1906†													
1907†													
1908†													
1909†													
1910†													
1911	†	†	†	0	†				0	6.0	6.5	15.0	†
1912	0	14.5	2.5	1.0	0				0	0.5	0.8	T	19.3
1913	3.0	9.0	3.0	T	0				0	1.5	0.5	4.5	21.5
1914	2.0	3.5	1.5	2.5	0				0	0	T	3.0	12.5
1915	6.0	16.0	5.0	0	T				0	0	3.0	1.2	31.2
1916	6.0	T	T	2.5	0				0	1.0	0.5	3.5	13.5
1917	4.0	2.0	2.5	1.5	2.0				0	1.5	T	1.5	15.0
1918	2.5	1.5	1.5	T	0				0	T	2.5	18.0	28.0
1919	T	4.0	1.0	11.0	0				0	T	3.0	0.5	19.5
1920	4.0	2.0	2.0	2.5	0				0	0	1.5	5.0	17.0
1921	1.5	6.5	4.0	T	0				0	0	T	6.0	18.0
1922	0.5	6.0	6.0	2.5	0				0	0	0.5	T	15.5
1923	0	2.5	5.5	0	0				0	T	4.0	6.0	18.0
1924	1.0	1.0	23.0	T	0				0	0	0	10.0	35.0
1925	3.0	1.0	1.0	0	0				0	2.5	3.0	T	10.5
1926	0.5	6.0	11.0	0	0				0	0	T	3.0	20.5
1927	T	1.0	6.0	0	0				†	0	0.8	0.5	†
1928	0	4.0	4.5	1.5	0				0	0	0.8	3.5	14.3
1929	1.5	1.5	0	0	0				0	0	13.2	0	16.2
1930	3.2	0	0.5	0	0				0	0	1.0	3.5	8.2
1931	0	2.5	†	†	T				0	0	1.5	T	†
1932	12.0	T	†	†	0				0	T	T	3.5	†
1933	0	T	T	†	0				0	0	3.0	0	†
1934	T	11.0	5.0	0	0				0	0	T	T	16.0
1935	T	T	T	0	0				0	T	T	0.2	0.2
1936	4.0	T	†	0	0				†	†	†	†	†
1937	T	2.0	5.0	†	0				0	0	2.0	4.0	13.0
1938	T	5.0	F	0	0				0	0	T	5.0	†
1939	†	8.5	2.0	T	0				0	0	0	13.0	23.5
1940	†	6.0	T	5.0	0				0	0	9.5	1.0	†
Average	2.8	5.0	3.1	1.1	T				T	0.4	1.6	4.2	18.2

† Data missing.

TABLE 65. Mean temperature, by months and years, at Tribune, Greeley County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1888	19.7	36.8	32.5	53.4	57.1	75.0	80.1	72.6	65.1	53.0	35.6	33.0	51.2
1889	20.2	19.8	43.0	53.5	61.7	69.4	77.6	78.3	64.0	53.6	35.0	42.0	51.5
1890	27.6	30.0	41.2	50.2	61.0	74.3	80.2	73.9	64.0	51.4	41.2	35.3	52.5
1891	24.8	28.4	32.6	51.6	59.6	67.6	71.2	71.6	63.0	52.4	35.9	32.6	49.3
1892	27.0	33.5	35.0	50.8	54.6	69.4	75.5	74.6	68.4	52.8	40.8	28.2	50.9
1893	33.6	30.2	38.3	49.9	58.7	73.6	77.4	74.7	67.2	51.9	40.0	35.4	55.6
1894	30.2	21.4	44.3	53.4	65.4	71.2	76.8	74.0	66.0	54.6	42.1	.....	.....
1895	24.8	21.3	39.0	57.9	63.0	67.2	.....	73.8	69.0	52.6	.....	.....	.....
1896	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1897	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1898	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1900	34.3	28.2	41.4	49.0	60.0	72.9	75.8	77.0	65.3	53.6	.....	.....	.....
1901	.....	26.2	36.9	47.4	59.4	.....	79.3	75.2	65.4	55.0	.....	.....	.....
1902	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1903	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1904	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1905	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1907	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1908	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1909	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1910	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1912	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.3	43.0	30.8	.....
1913	27.6	22.6	37.9	53.4	64.6	70.4	78.2	78.9	62.7	51.3	45.0	28.2	51.6
1914	35.3	30.2	41.0	51.2	59.6	73.1	73.0	.....	67.0	53.0	43.7	23.3	.....
1915	29.2	35.8	30.6	53.4	.....	66.0 ^h	69.9	.....	64.2	54.1	41.6	30.4	.....
1916	22.5	34.0	45.6	47.8	59.5	68.8	77.2	73.0	62.6	52.6 ^c	38.4 ^f	24.8 ^d	50.6
1917	26.5	32.0	35.0	46.8	53.0	67.8	76.2 ^e	72.4 ^c	65.6	46.5 ^b	44.2 ^a	28.3 ^b	49.6
1918	20.7	.....	45.7	44.4	61.7	73.2	.....	75.0 ^f	61.0	56.6	36.5 ^h	.....	.....
1919	22.8 ^a	25.3	39.8	49.0 ^a	58.6	.....	.....	73.8	68.5 ^a	47.6 ^a	33.0	.....	.....
1920	30.9	.....	.....	.....	58.8 ^b	69.8	75.5	70.1	65.5	56.7 ^d	37.6	30.6	.....
1921	33.6	36.4	48.4 ^d	50.2	62.4	69.4	76.4	75.4	68.2	56.6	40.4 ^d	28.2	53.8
1922	24.8	32.5	38.8	48.4	60.2	71.3 ^c	75.0	77.4 ^a	69.2 ^e	55.0	41.8	32.8	52.3
1923	35.0	28.6	36.9	50.7	57.4	69.8	75.8	72.3	64.4	43.0	41.6	28.0	50.7
1924	27.4	34.8	27.8	50.8	57.0	71.2	73.0	75.2	61.6	.....	41.4 ^b	.....	.....
1925	22.0 ^b	38.8	45.8	54.5	62.0	74.4	77.0	73.0	67.7 ^d	46.8	36.7	33.0	52.6
1926	31.5	39.2	39.8	46.9	62.2	70.8	76.6 ^c	76.4	67.2	56.8	39.8	25.2	52.7
1927	30.2	36.2	38.6	53.2	64.2	68.8	74.8	70.8	67.2	56.6 ^d	43.4	24.0	52.3
1928	34.0	32.0	42.3	48.2	60.4	63.5	74.0	73.0	65.3	53.2	39.4	30.4	51.3
1929	25.4	24.0	42.0	50.9	58.2 ^d	68.8	77.0	74.6	61.9	52.6	39.4	33.0	49.9
1930	15.7	42.2	37.8	54.0	57.2	70.0	76.1	74.8	64.5	49.2	37.2	31.6	50.9
1931	33.5	38.7	36.4 ^a	49.0	57.0	75.2	76.4	73.2	72.9	57.4	38.8	31.4	53.3
1932	26.0	39.3	34.2	52.6	63.0	67.8	78.2	75.8	64.2	50.4 ^a	40.2	22.0	51.2
1933	33.2	26.6	43.4	48.7 ^c	59.3	75.9	78.0	73.4	70.0	55.0	43.4	38.9	53.8
1934	35.0	34.4	42.2	53.2	67.2	75.0	82.6	78.5	64.0	58.0	44.2	33.6	55.7
1935	35.6	36.4	45.6	49.2	54.4	69.8	81.0	77.4	66.1	53.5	36.5	33.2	53.3
1936	27.1	22.5	42.9	51.0	63.2	73.6	79.7	78.2	66.8	51.0	40.6 ^a	34.6	52.6
1937	19.3	33.0	37.7	51.5	64.6	70.6	79.2	80.5	63.8	54.6	39.4	30.1	52.4
1938	33.6	36.2	47.0	51.4	60.2	70.4	76.6	78.8	67.3	58.8	37.4	33.6	54.3
1939	34.8	27.0	40.4	51.8	63.4	72.4 ^b	78.7	75.8 ^a	71.2	55.9	40.6	36.2	54.0
1940	15.6	35.0	42.6	49.6	60.9	71.5	79.6	72.8	67.8	58.2	37.6	35.0	52.2
Average	27.9	31.4	39.8	50.8	60.3	70.8	76.8	74.7	66.1	53.5	39.6	31.1	52.2

NOTE.—Reference marks, a, b, c, etc., appearing in the table indicate number of days missing; for example, c represents three days, etc.

TABLE 66. Precipitation, by months and years, at Tribune, Greeley County

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1888	0.35	1.69	*4.92	4.37	1.22	1.07	3.82	1.20	0.01	0.84	0.29	0.11	19.89
1889	1.11	.57	.63	1.64	.69	5.26	.98	2.54	.07	2.37	.25	.01	16.12
1890	.20	.20	T	6.28	.85	.59	.86	.60	1.36	.65	.40	T	11.99
1891	1.30	T	2.57	2.83	2.94	5.57	3.83	1.19	2.31	.16	T	1.31	24.01
1892	.15	.46	2.86	.77	4.31	1.55	.65	2.96	.03	.40	.04	T	14.18
1893	T	T	.07	.09	1.21	3.36	2.21	1.65	1.50	T	.10	.50	10.69
1894	T	1.50	.30	.99	1.88	2.61	1.17	1.55	1.55	.20	T	.20	11.95
1895	.60	.50	0	.49	3.32	3.93	7.52	.40	.28	.66	.88	.80	19.38
1896	.50	0	.50	3.75	.25	2.15	.90	2.30	*1.38	*1.10	*.32	*.40	13.55
1897													
1898													
1899	*.35	*.48	*1.01	*1.25	*2.25	*2.71	4.09	.95	.63	.03	2.05	.50	16.28
1900	T	.30	.50	4.95	.45	1.39	1.32	1.29	1.17	.03	T	T	11.40
1901	.20	.50	.20	1.80	1.35	*1.50	2.59	1.95	1.28	.34	*T	*.15	11.86
1902													
1903													
1904													
1905													
1906	*.25	*.14	*1.15	*4.20	*1.05	*3.00	*3.90	2.82	1.25	2.97	.75	*.20	21.68
1907													
1908													
1909													
1910													
1911													
1912	*.04	*1.00	*1.04	*.65	1.26	2.83	4.72	3.25	1.84	.50	.40	T	17.53
1913	.25	.79	.25	1.34	1.69	3.97	3.02	.25	2.70	.07	.35	2.08	16.76
1914	.25	.17	.15	1.65	5.80	5.26	.70	.82	T	1.50	T	.35	16.65
1915	.32	1.34	.42	2.65	8.20	5.18	5.89	8.38	.57	.41	T	.03	38.39
1916	.57	T	.20	2.44	1.88	1.95	1.43	3.84	.12	.81	.10	.80	14.14
1917	.45	.05	.13	1.45	3.29	1.63	2.84	2.30	3.59	.15	.01	.05	15.94
1918	.23	.79	2.80	.96	3.25	2.62	2.77	1.37	1.24	1.73	.18	1.72	19.76
1919	0	.36	1.89	2.79	1.69	1.30	2.67	.32	2.32	1.27	.68	.22	15.51
1920	.02	.07	.25	.89	2.40	1.86	2.36	1.48	2.43	1.29	.30	.78	14.13
1921	1.68	.60	.18	1.88	1.76	2.34	2.24	2.09	1.68	.40	.20	1.11	16.16
1922	T	.65	.51	3.68	2.62	1.59	3.25	2.05	T	.03	.96	T	15.34
1923	T	.25	.50	1.72	2.86	5.14	4.11	3.56	3.90	5.35	.45	1.16	29.00
1924	T	.68	5.03	.51	1.10	.54	2.85	2.07	1.14	.80	T	.76	15.48
1925	T	.27	.09	.71	2.13	1.02	3.02	2.82	1.73	.72	2.17	.10	14.78
1926	.06	.14	1.00	.59	1.48	1.09	.60	.29	1.96	.07	.56	.94	8.78
1927	.28	.39	1.62	1.38	.11	2.54	2.21	2.11	.69	.50	.14	.13	12.10
1928	T	.62	.98	.63	4.77	5.33	4.45	.85	.59	2.08	1.29	.09	21.68
1929	.07	.50	.18	.76	5.57	1.38	.73	2.97	2.14	.80	1.17	.30	16.57
1930	.20	.35	.18	1.92	2.91	1.73	1.89	.96	.43	3.38	1.34	.09	15.38
1931	T	.84	1.59	.59	1.91	.66	1.69	1.33	.12	.74	.66	.04	10.17
1932	.69	.13	.58	2.09	.36	11.48	1.83	1.13	1.12	.18	.01	.11	18.76
1933	0	.04	.81	2.09	2.80	.90	2.39	5.81	1.03	.01	.63	.94	17.45
1934	T	1.01	.19	.19	1.39	1.43	.83	.98	1.00	.60	.07	.04	7.76
1935	.02	.19	.51	T	2.61	2.20	.62	.48	1.54	T	.60	.06	8.83
1936	.20	.03	.26	.41	3.73	.75	.99	1.53	1.52	.46	.02	.24	10.14
1937	.11	.19	.88	.43	.81	3.24	.54	2.14	1.86	.91	.05	.69	11.85
1938	.19	.24	.97	1.63	5.16	3.62	2.80	.48	3.79	.51	.11	.15	19.65
1939	.54	2.03	1.30	.80	2.49	2.54	1.50	.22	.19	T	.15	1.21	12.67
1940	.77	.33	1.32	.58	2.10	.70	.66	7.54	.72	.32	.77	.25	16.06
Average	.28	.49	.97	1.67	2.38	2.66	2.37	2.02	1.28	.84	.44	.44	15.84

* Estimated from surrounding stations.

TABLE 67. *Snowfall, by months and years, at Tribune, Greeley County*

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1893	T	T	T	T	T	.....	.....	.....	0	0	1.0	5.0	6.0
1894	T	15.0	3.0	T	0	.....	.....	.....	0	0	T	2.0	20.0
1895	6.0	0	0	0	0	.....	.....	.....	0	0	3.0	8.0	17.0
1896	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1897	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1898	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1899	†	†	†	†	†	.....	.....	.....	0	0	0	5.0	†
1900	T	3.0	3.0	5.0	0	.....	.....	.....	0	0	T	T	11.0
1901	2.0	5.0	2.0	6.0	0	.....	.....	.....	0	0	†	†	†
1902	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1903	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1904	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1905	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1906	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1907	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1908	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1909	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1910	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1911	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1912	†	†	†	†	†	.....	.....	.....	†	†	†	†	†
1913	2.5	6.2	2.5	T	0	.....	.....	.....	0	0.2	0.5	3.8	15.7
1914	2.5	1.6	T	0	0	.....	.....	.....	0	0	T	3.5	7.6
1915	3.3	7.3	4.2	T	0.1	.....	.....	.....	0	0	T	0.3	15.2
1916	1.8	T	0.5	11.0	0	.....	.....	.....	0	1.0	1.0	7.0	22.3
1917	4.0	0.5	1.2	1.4	8.0	.....	.....	.....	0	0.2	T	0.5	15.8
1918	2.1	6.0	0	†	0	.....	.....	.....	0	T	1.5	17.0	†
1919	0	2.0	1.0	6.0	0	.....	.....	.....	0	0	2.5	2.2	13.7
1920	0.2	0.8	2.5	†	0	.....	.....	.....	0	0	3.0	7.0	†
1921	3.0	6.0	1.0	0	0	.....	.....	.....	0	0	2.0	11.0	23.0
1922	T	6.0	4.0	†	0	.....	.....	.....	0	0	0.2	T	†
1923	T	3.0	5.5	0	0	.....	.....	.....	0	0	2.0	10.5	21.0
1924	T	6.0	45.0	T	0	.....	.....	.....	0	0	T	7.5	58.5
1925	T	0	0.5	0	0	.....	.....	.....	0	T	8.0	1.5	10.0
1926	1.0	1.0	4.0	2.0	0	.....	.....	.....	0	T	1.5	7.0	16.5
1927	2.5	3.8	7.0	0.5	0	.....	.....	.....	0	0	1.5	2.5	17.8
1928	T	6.8	8.5	4.0	0	.....	.....	.....	0	T	6.5	1.0	26.8
1929	0.8	5.5	T	0	0	.....	.....	.....	0	0.5	15.5	3.5	25.8
1930	4.0	1.0	T	0	3.0	.....	.....	.....	0	0	6.2	1.2	15.4
1931	T	2.5	14.2	3.0	8.0	.....	.....	.....	0	0	8.0	0.5	36.2
1932	10.6	1.5	4.2	1.0	0	.....	.....	.....	0	0	0.2	2.8	20.3
1933	0	1.0	2.8	1.5	0	.....	.....	.....	0	0	2.0	0	7.3
1934	T	10.0	3.0	0	0	.....	.....	.....	0	0	T	0.5	13.5
1935	0.5	2.0	0.8	0	0	.....	.....	.....	2.0	T	1.5	1.0	7.8
1936	5.0	0.8	2.0	0.2	0	.....	.....	.....	0	1.5	0.2	3.8	13.5
1937	4.0	5.0	5.8	1.0	0	.....	.....	.....	0	0	0.5	10.6	26.9
1938	1.5	2.8	0.5	1.5	2.0	.....	.....	.....	0	0	2.1	2.0	12.4
1939	1.2	19.0	4.8	1.5	0	.....	.....	.....	0	0	0.8	12.0	39.3
1940	8.5	5.0	6.5	0.5	0	.....	.....	.....	0	0	7.2	2.0	29.7
Average	2.0	4.1	4.2	1.4	.6	.....	.....	.....	.1	.1	2.4	4.3	19.2

† Data missing.

KANSAS WEATHER AND CLIMATE

TABLE 68. Amount of evaporation (inches) and wind movement (miles), by months, at Tribune, Greeley County †

Year	Data	April	May	June	July	Aug.	Sept.	Oct.
1916	Evaporation						9.347	
	Wind movement						4,232	5,352
1917	Evaporation	6.880	7.689				8.494	
	Wind movement	6,290	5,595	4,515	3,726	3,153	3,333	
1918	Evaporation		12.666			13.025	7.434	
	Wind movement	6,015	6,508	4,053	3,958	3,840	3,830	
1919	Evaporation	†	9.735	10.960	14.835	12.453	9.124	4.448
	Wind movement	5,304	5,030	4,790	5,610	3,066	3,634	3,710
1920	Evaporation		7.858	11.095	12.264	9.231	7.101	7.292
	Wind movement	6,080	5,011	4,786	3,468	3,283	2,760	5,205
1921	Evaporation	8.087	11.445	9.589	11.958	10.672	8.685	7.410
	Wind movement	6,830	6,148	3,475	3,208	2,879	3,649	4,225
1922	Evaporation	†	9.488	14.049	12.714	14.003	8.009	8.001
	Wind movement	5,485	4,229	4,223	3,030	2,658	3,413	3,275
1923	Evaporation	7.249	7.610	10.729	9.107	9.262	7.471	†
	Wind movement	4,933	5,094	5,327	2,225	3,393	2,821	3,937
1924	Evaporation	7.676	8.725	11.781	11.938	10.797	8.780	6.929
	Wind movement	4,679	4,362	4,177	3,933	3,070	3,991	4,995
1925	Evaporation	8.601	10.089	13.947	13.229	11.055	8.816	3.675
	Wind movement	4,985	4,907	4,938	3,195	3,271	4,289	4,190
1926	Evaporation	5.931	8.833	11.538	14.740	14.356	9.937	†
	Wind movement	4,183	5,398	4,167	4,481	3,826	4,815	4,637
1927	Evaporation	7.195	13.396	11.970	12.386	8.087	10.187	†
	Wind movement	5,106	5,776	5,030	3,938	3,130	4,975	†
1928	Evaporation	7.830	8.284	8.049	10.686	11.687	9.399	5.680
	Wind movement	6,480	4,316	3,815	2,820	3,515	3,166	3,998
1929	Evaporation	7.585	*8.312	11.025	15.090	11.926	8.305	
	Wind movement	4,770	5,895	4,244	4,502	2,651	4,089	
1930	Evaporation	7.715	9.701	12.081	16.715	12.618	8.817	
	Wind movement	3,915	4,819	4,107	3,814	3,260	3,029	
1931	Evaporation	6.449	9.024	15.405	15.879	14.510	13.974	
	Wind movement	5,269	4,811	4,222	3,711	3,231	4,726	
1932	Evaporation	8.967	11.880	*10.372	14.936	12.939	9.194	
	Wind movement	5,866	5,774	3,858	3,594	3,629	2,972	
1933	Evaporation	8.178	10.166	16.194	15.718	*11.258	10.476	
	Wind movement	5,330	5,263	4,538	3,812	3,716	4,334	
1934	Evaporation	9.404	13.540	15.878	15.145	12.404	8.091	
	Wind movement	4,364	5,127	4,827	3,308	3,670	4,757	
1935	Evaporation	9.398	6.227	10.499	16.051	13.289	8.510	
	Wind movement	6,982	6,134	4,987	5,113	4,302	4,330	
1936	Evaporation	7.333	9.029	12.461	14.958	12.448	8.985	
	Wind movement	5,224	5,860	4,603	4,939	3,760	5,232	
1937	Evaporation	7.667	10.072	10.296	13.968	13.769	8.041	
	Wind movement	5,434	3,785	4,400	3,785	4,560	3,590	

TABLE 68. (Concluded)

Year	Data	April	May	June	July	Aug.	Sept.	Oct.
1938	Evaporation.....	5.544	*7.697	9.700	11.745	13.682	7.344	.....
	Wind movement.....	5.790	4.585	4.656	3,470	4,414	3,236	.....
1939	Evaporation.....	6.084	9.928	12.007	14.306	12.138	11.645	.....
	Wind movement.....	4.972	4.438	4,998	4,486	3,926	4,460	.....
1940	Evaporation.....	6.500	8.116	11.108	13.694	*9.248	6.475	.....
	Wind movement.....	5,187	4,085	4,022	4,003	3,481	3,064	.....
Avg.	Evaporation.....	7.514	9.563	11.852	13.730	11.950	8.906	6.205
	Wind movement.....	5,407	5,233	4,448	3,860	3,508	3,869	4,352

† The evaporation apparatus is composed of a galvanized tank 10 inches deep and 48 inches in diameter, mounted on a platform 4 inches above the ground. The tank is kept filled with water to a depth of approximately 8 inches. The apparatus for determining wind movement consists of a 4-cup anemometer, 20 inches above ground level.

* Interpolated.

† Not a complete month's record.

