U. S. DEPARTMENT OF AGRICULTURE.

WEATHER BUREAU.

REPORT

OF THE

CHIEF OF THE WEATHER BUREAU.

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LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
WEATHER BUREAU,
Washington, D. C., August 11, 1903.

SIR: I have the honor to submit a report of the operations of the Weather Bureau during the fiscal year that ended June 30, 1903.

Respectfully,

WILLIS L. MOORE,
Chief of Weather Bureau.

Hon. JAMES WILSON, *Secretary.*

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PART I.

ADMINISTRATIVE REPORT.

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REPORT OF THE CHIEF OF THE WEATHER BUREAU.—1902-1903.

WORK OF THE YEAR, WITH RECOMMENDATIONS.

FORECAST DIVISION.

PRACTICAL VALUE OF FORECASTS AND WARNINGS.

The North Atlantic and West Indian forecast and storm-warning service was continued in successful operation during the year. Forecasts for the first three days out of steamers bound for European ports were issued daily at 8 a. m. and 8 p. m., and American and European shipping interests were notified of the character and probable course of the more severe storms that passed eastward from the American coast.

No storms of hurricane strength occurred in the West Indies.

From October 31 to November 5, 1902, a storm that developed marked intensity over the Atlantic Ocean moved northeastward from the Caribbean Sea to the British Isles. Warnings were cabled well in advance of the storm to San Juan, P. R., to Havana, Cuba, and to coast Weather Bureau stations from New Orleans, La., to Boston, Mass., to the observatory at Horta, Fayal, Azores, and to Lloyd's, London.

One of the most important storms of the year appeared on October 6, 1902, in the Gulf of Campeche, moved thence to the middle Gulf coast of the United States by the 10th, reached a position off the south New England coast by the morning of the 12th, and advanced over the Atlantic Ocean to a point near the north coast of Scotland by the 16th. Ample and timely warnings were issued to United States Gulf and Atlantic ports regarding the character and course of this storm.

During the late fall and winter months North Atlantic shipping interests were frequently advised regarding the approach and progress of the exceptionally severe storms of those seasons.

The first general frost of the season extended from the Northwestern States over the Lake region and central valleys, and as far south as Arkansas and northern parts of Mississippi, Alabama, and Georgia, from September 11 to 14, 1902. Timely warnings permitted protective measures in the districts visited by the frost of this period.

The first important cold wave of the season swept southward and eastward from the British Northwest Territories over the interior of the country from November 26 to 28, 1902, carrying the line of freezing temperature almost to the coast line of the Gulf of Mexico. Timely warnings were given to all interests that were subject to damage or loss by frost and cold.

The following comment was made by the New Orleans Times-Democrat of November 28, 1902, on the warnings issued for the Gulf district, the only section east of the Pacific coast States in which agricultural products were endangered by frost:

> The warnings sent out Wednesday morning were timely for all parts of this extensive district. Freezing weather occurred over Arkansas, Oklahoma, and northwest Texas. Heavy frosts occurred over the interior of Texas, and frost occurred generally over southern Texas and all of Louisiana. Frost was in evidence in New Orleans, and on the outskirts was quite heavy. The warnings of these severe conditions were issued by the Weather Bureau well in advance, and all business interests were prepared for the frosts and freezing.

The following is an extract from the Galveston (Tex.) News of December 4, 1902, with regard to the cold-wave warnings of the 3d:

> Last winter the Weather Bureau saved many thousand dollars to the farmers and truck growers of south Texas by timely warnings of heavy freezes, and yesterday morning when the warnings were telegraphed and telephoned to points of interest no time was lost in getting the tender vegetation under cover. The Weather Bureau's notice was

practically two days in advance, because the coldest period is expected to-night and early Friday morning. When Sugarland was communicated with, the sugar mills were shut down at once and all hands took to the "tall cane fields," to use a common saying. It was reported that several hundred men were in the field cutting sugar cane and windrowing it an hour after the weather bulletin was received. The army of cutters was being rapidly reenforced, and it is expected that several hundred acres of cane will have been cut and stretched on the ground by to-night. A heavy freeze with the cane standing would play havoc and would mean the loss of perhaps thousands of dollars.

The following is an editorial from The Sugar Planters' Journal, New Orleans, La., of December 20, 1902:

An evidence of the esteem in which the forecasts issued by the United States Weather Bureau at New Orleans are held was shown by the sugar planters all over the State by their windrowing thousands of acres of cane on receiving warning of the late cold snap, when the temperature fell as low as the freezing point, and in some places even lower.

This faith in the prognostications of the "weather man" was largely brought about by the accurate forecast of the destructive freeze of last December, when the loss to the sugar industry of Louisiana figured, perhaps, upward of several millions of dollars. The exact loss by that terrible freeze will never be known. Had more planters windrowed promptly upon receiving warning last year from the Weather Bureau the loss would have been greatly curtailed. The accuracy of the forecasts as now issued to the sugar planter has had much to do with the growing belief in the efficacy and wisdom of windrowing cane when a cold snap is predicted as about to swoop down on us. Fortunately, these warnings are generally issued some twenty-four or thirty-six hours ahead of the freeze, thereby allowing of a considerable amount of cane being placed safe in the windrow before its advent. It is considered by many, though, as wisest not to run too great a risk of being caught with a large area of cane in the field, and we find numbers of planters disposed to windrow about the middle of December, freeze or no freeze, provided they have sufficient cane to put the end of the campaign to as late as the middle of January.

The Tampa (Fla.) Herald of December 27, 1902, remarked as follows regarding the warnings:

"Heavy and damaging frost to-night," was the brief warning sent out over this section of the State yesterday by the local weather observer, but the warning, despite its brevity, was effective and doubtless saved thousands of dollars to the planters, especially those who own large "pineries," as the cold wave that struck the State was sufficient to greatly injure the "pines."

Mr. W. W. Fisher, president of the United Telephone Company, Bellefontaine, Ohio, under date of December 26, 1902, addressed the following letter to Mr. C. L. Lane, Weather Bureau displayman at Bellefontaine:

Our telephone company desires to express in writing its appreciation of the cold-wave warning given by you to our superintendent on Wednesday last. We have 50 stations in our system, which extends throughout this and adjoining counties, and this news was immediately telephoned to each station with instructions to circulate the information there. In our system are a great many farmer subscribers, and this news was given to each farmer. We take pleasure in telling you that it was appreciated a great deal more than can be expressed here. We shall be pleased indeed to communicate to our patrons throughout our system any like information that comes to you in your position as voluntary observer of the United States Weather Bureau in our city, and we shall always be glad to render you any assistance at any time within our power.

A notable feature of the weather of February, 1903, was that while a rapid succession of severe storms continued over the United States, the Atlantic, and northern Europe, the barometric pressure continued abnormally high over southern, and more especially southwestern, Europe. From the 23d, when the center of the last American storm of the month reached the region north of Scotland, until the 28th, barometric pressures were low over southwestern Europe, and the center of a barometric depression of exceptional strength remained almost stationary north of the British Isles. The steep barometric gradient of this apparently stationary disturbance extended over the Atlantic almost to the American coast, and caused, during the last five or six days of the month, a continuation of violent gales from Newfoundland to the western European coasts.

The first important storm of February occupied Nevada on the morning of the 1st, and reached the Gulf of St. Lawrence on the 5th. The heavy rains of the 3d, 4th, and 5th, accompanied by thawing, resulted in floods in the Allegheny and Monongahela rivers and tributaries. All interests about the headwaters of the Ohio likely to be affected by high water were kept informed by day and night of the stage of the rivers, and advices and warnings with regard to anticipated stages were issued hourly by the Pittsburg office of the Weather Bureau. On the 4th that office advised the public to prepare for high water, and predicted a stage of 24 feet on the gage at

Pittsburg by the 5th. A stage of 24 feet was reached at noon on the 5th. On the morning of the 5th, when the western storm referred to was central over the Canadian maritime provinces, the following message was cabled to Lloyd's, London:

Severe storm will move eastward from Newfoundland to-day.

This storm reached a position north of the British Isles on the 10th, and by the morning of the 11th had passed over the northern portion of the Scandinavian Peninsula with central barometric pressure about 28.40 inches.

The second storm of the month appeared on the 6th over New Mexico, to which position it probably advanced from the extreme southern California coast. Moving rapidly eastward this disturbance reached the middle Gulf coast on the morning of the 7th, passed northeastward to Lake Erie by the morning of the 8th, and reached Nova Scotia by the morning of the 9th, with rapidly increasing strength. On the morning of the 7th the following message was telegraphed from Washington to Weather Bureau stations in northern Ohio, western and northern Pennsylvania, and New York:

Heavy snow indicated for to-night in northern Ohio, western Pennsylvania, western and northern New York.

Warning of heavy snow in northern Illinois and northern Indiana was sent from the Weather Bureau office at Chicago.

The snowfall of the 8th was particularly heavy in the central districts of New York, where railroad trains were delayed.

In connection with the cold wave of February 16 and 17, 1903, the Picayune, of New Orleans, on February 18, 1903, said:

The severest weather of the winter throughout the Southwest prevailed yesterday morning. Owing to the forecaster's timely notice and warning to planting interests, sugar, truck, and orange growers having been forewarned in ample time, there were taken the proper precautions for the freeze, and severe injury was averted. This forecast having been implicitly believed by the agriculturists of the district, who had occasion last year to rely on Doctor Cline's accurate prediction, saved them many hundreds of thousands of dollars. When it is considered that such low temperatures do not occur in February more than once in eight or ten years, the successful forecasting thereof in every instance of their occurrence speaks much for the skill and efficiency of the Weather Bureau forecaster.

The following letter, dated February 21, 1903, was received by the Weather Bureau observer at San Antonio, Tex., from the president of the San Jose Truck Farm Company:

The daily weather forecasts, and particularly the cold-wave warnings of the recent cold snap, have been of inestimable value to us. It was only through careful attention to the forecasts from the Weather Bureau and promptly acting on the warnings that we have managed to bring through, without loss of a plant, our crop of 35 acres of tomatoes.

Gales of unusual severity prevailed on the North Atlantic coast of the United States during February 16 and 17, while in New England snow fell to the depth of 15 to 20 inches.

The Boston Globe of February 18 commented as follows regarding this storm:

The biggest storm that Boston has seen for at least five years ceased yesterday, although its effects will be felt for several days yet. The storm was heralded by the Weather Bureau Sunday night. This gave sea captains more than eighteen hours' notice and doubtless saved many vessels and lives.

The other Boston papers also made favorable mention of the storm warnings and forecasts.

The unprecedented floods in the lower Mississippi Valley in the spring of 1903 and the disastrous floods of May and June in the lower Missouri and upper Mississippi valleys are discussed under the heading "Rivers and floods."

The quotations from the public press made in this report are but a few of the many favorable comments that reach this Office. They are produced as impartial testimony to the high average verification of the important warnings of the Bureau and as unofficial evidence that the expenditure of one and a quarter million of dollars brings an adequate return to the commerce and industries of the country.

WEATHER MAPS.

The Weather Bureau issues each morning, excepting Sundays and holidays, about 25,000 maps that present graphically and by text and tables the weather conditions throughout the United States and Canada at 8 a. m., seventy-fifth meridian time. About 50 per cent of the maps are prepared at 23 of the larger stations of the Bureau by what is known as the chalk-plate process; the others are prepared at 71 of the less important stations by the milliograph, or wax-stencil process. All of the maps issued at stations are about 11 by 16 inches in size. The chalk-plate process of map making has proved satisfactory. By this process the mechanical part of map making can be expeditiously performed, and an unlimited number of maps can be issued. The milliograph process, while fairly satisfactory as regards the character of the work that can be performed, admits only of a small edition of maps, and is therefore unsuited to the requirements of large stations.

Experimental work in preparing chalk-plate maps of a larger size than those now issued at the more important stations has been conducted with a view of meeting an increasing demand from all sections of the country for maps that contain more complete weather data than can be published on the small maps now issued. The result of this work has been a practical demonstration of the feasibility of making maps about 22 by 16 inches in size (corresponding in size and make-up to the map issued at the Central Office at Washington) that will contain reports from all Weather Bureau stations, and also present graphically by symbols, lines, and shadings the wind and weather, barometric pressure, temperature, and rainfall throughout the entire region of observation.

The demand upon the Weather Bureau for maps of this character comes from commercial, agricultural, marine, and other interests; from educational institutions, and the general public. It can be met by equipping 20 of the more important stations of the Bureau with outfits for issuing the large chalk-plate maps and transferring the present chalk-plate equipments to smaller stations, there to replace the milliograph process.

The approximate cost of equipping 20 stations for the issue of large chalk-plate maps and 30 stations with the small chalk-plate maps, including printing material and presses, stereotyping outfits, rent, power, and pay of printers, is $110,000, of which $40,000 is for assistants.

As the weather maps afford the only effective means possessed by the Weather Bureau for promptly placing before the public its daily observations and summaries, the improvement and extension of the maps along the lines indicated is urgently recommended. To carry out during the next fiscal year one-half of the plan outlined above it is recommended that $35,000 be added to the appropriation for "general expenses" outside of Washington, and $20,000 to the appropriation for salaries.

SCIENCE AND RESEARCH.

BAROMETRY.

The result of Prof. Frank H. Bigelow's discussion of the barometric observations that were made during the years from 1873 to 1900 have been incorporated in the Report of the Chief of the Weather Bureau, Volume II, 1900–1901, "The barometry of the United States, Canada, and the West Indies." The data contained therein have been made the standard for the Weather Bureau, and the portions pertaining to the several stations have been put in operation, so that the barometry system has been made as efficient as possible in conformity with the best scientific models.

The adopted station elevations will be used as points of reference for local and general surveys; the normals of pressure, temperature, and vapor tension will be valuable in all meteorological and climatological studies; the variations of the pressure with the months, and from year to year, will be used in studying the effects of solar radiation upon weather conditions generally, and especially in laying a basis for seasonal forecasts.

The reductions of pressure have been made by suitable tables from the stations to the sea level plane, and the synchronous isobars are used in constructing the daily weather maps. Besides this reduction to sea level, reductions of pressure to the 3,500-foot plane have been made, which is at the average height of the plateau stations; and also to the 10,000-foot plane, which is located in the upper part of the ordinary cyclones and anticyclones. Daily reports of the pressures on these planes have been received by mail from the outlying stations in the United States and Canada, and these mail reports are being used in forming charts on the higher levels, whereby the structure of storms can be suitably studied for the first time in the history of meteorology.

This preliminary study will be continued for one year before rendering a report on the value of these high-level charts in practical forecasting. At present the indications are that they will be more efficient than was anticipated, and they certainly open a new field of investigation of the utmost importance in furthering knowledge of the circulation of the atmosphere. Professor Bigelow believes that they have for the first time shown positively what is the true structure of storms, and that they point unmistakably to a theory which will supersede those heretofore published in meteorological literature. It should be noted that three independent researches have converged upon the same result and that they mutually confirm one another, namely:

(1) The average circulation as derived from the auxiliary cloud maps used in the forecast division.

(2) The theodolite and nephoscope observations made by the Weather Bureau in 1896–97.

(3) The isobars constructed by the barometric reductions just mentioned.

These show that the general circulation and the local circulation merge into one another and form the observed cyclones and anticyclones; that the source of energy for the general circulation is the sun's radiation in the Tropics, and for the local disturbance the counterflow and underflow of low-level currents of different temperatures between the tropical and the polar zones. This result excludes three well-known theories: (1) The local overheating of the surface strata; (2) the latent heat of the condensation of the aqueous vapor, and (3) the eddies attributed to difference of velocities of adjacent strata. Storms are actually more complicated than was supposed, and it will require some careful work to finish up the subject, but the prospect of obtaining a satisfactory outcome is now promising.

Besides this work on the mechanics of the local cyclones, the nephoscope observations made in the West Indies in the years 1899–1903 are being discussed by Professor Bigelow, who hopes to derive therefrom more definite results regarding the circulation of the air in the Tropics and in the formation of the trade winds.

The data are being collected for a report on temperatures and vapor tensions, with the view of ultimately constructing high-level isotherms and vapor lines in connection with the above-mentioned isobars.

This work has been the special field of Professor Bigelow. It is all highly important to the higher science of meteorology.

METEOROLOGICAL INVESTIGATIONS.

The Weather Bureau has also been carrying on for some years an investigation into the fundamental problems as to the true causes of the weather conditions in the United States, the ultimate purpose of which is to improve the forecasts issued for a day or two in advance, and if possible to discover some basis for a scientific forecast of the seasonal variations from year to year. Sufficient progress has been made in practical methods to justify a summary of the work already done, and especially to point out the steps which should be taken to secure to meteorology a positive advance as a science and as an art of commercial utility. The methods at present employed in making up the daily forecasts are substantially the same that were devised at the time the Government service was established in 1871. Every effort has been made to bring the system to perfection, and much labor has been devoted to the study of the sea-level

charts upon which it is based to secure the best results in forecasting that are possible with the kind of data, namely, the isobars, isotherms, wind velocities and directions, and precipitation areas, as published on the daily weather maps. Yet, it has been impracticable to avoid a certain class of errors in reading these charts, though a sufficiently high average of correct forecasting has been maintained to justify the expense of the service; but it is apparent that much labor in research is justifiable where there is a fair promise of an ultimate improvement in successful forecasting. The mistakes in judging the immediate development of the sea-level maps consist usually in an error as to (1) the direction of the storm track, (2) the rapidity of its onward march, (3) the intensity of its action, and (4) the location of the accompanying rainfall areas. Therefore any improvement of the system of forecasting must have an especial regard to these four points.

STUDY OF CYCLONES AND ITS VALUE FOR DAILY FORECASTS.

Before mentioning the results of recent researches it is proper to enumerate the most important theories regarding the circulation of the atmosphere generally and locally in order to contrast them with the new theory.

GENERAL CIRCULATION.—Professor Ferrel's theory was practically undisputed by meteorologists until the cloud observations made by the Weather Bureau in 1896–97, and published in the Report of the Chief of the Weather Bureau for 1898–99, indicated that it must be greatly modified to match the true circulation of the atmosphere. The European and Asiatic observations made at the same time, the results having been published by Hildebrandsson for the international committee in 1903, are in agreement on this point with those of the Weather Bureau. Ferrel reasoned as follows: The sun's radiation heats the air in the tropical zones, causes it to rise upward and then to flow poleward in the high strata, and return to the Tropics in the low strata near the surface. The rotation of the earth, whose atmosphere is thus heated, causes a rapid eastward drift in zones north of 30° latitude and a westward drift in the tropical zones.

Now, as a matter of fact, cloud observations showed for the United States that in the upper strata there is no such northward current as Ferrel assumed to exist. The flow from the Tropics to the poles is not in the higher levels, but in the lower levels up to 3 or 4 miles elevation, and not above that height. There are strong currents of warm air which flow from the Tropics into the temperate zones at low levels, and there they meet the cold currents flowing southward from the polar regions. These counterflowing currents, which at the same time underflow the eastward drift in the upper strata, possess the thermal energy necessary to generate cyclones and anticyclones, and the natural function of these gyrating masses of air of different temperatures is to bring back to an equilibrium the thermal state of the atmosphere, which is being continually disturbed by the sun's radiation falling upon the tropical zones.

LOCAL CIRCULATION.—There are three distinct theories which have been strongly advocated by students to explain the origin of cyclones and anticyclones: (1) The Ferrel vertical convection theory, (2) the German vertical convection theory, and (3) the dynamic eddy theory. It is not practicable to describe these in detail, but the principal ideas are as follows:

(1) Ferrel conceived his local cyclone as similar to his general cyclone, and illustrated it by heating at the center of the lower surface a mass of water contained in a cylindrical vessel, turning it at the same time bodily about its vertical axis. This makes the water flow in certain closed curves, since it is the same mass of water in motion. It is now known from recent observations that the air simply flows once through a cyclone, and that new masses of air are constantly involved, so that Ferrel's idea can not be true. For a central source of heat Ferrel accepted Espy's view, that the latent heat of condensation due to rainfall is the source of the vertical current. There are, however, many fully formed cyclones that are practically dry, so that the latent heat can not be more than a secondary source of energy in the production of storms, though it may intensify a given cyclone.

(2) The German vortex is much nearer to the facts of nature, because it is not limited to a fixed mass of air, but allows new air to stream through it. In this case there is a central part

with a vertical velocity surrounded by currents flowing only in horizontal directions, and suddenly lifted on reaching the central core. In this vortex the central vertical velocity increases in proportion to the height, and it would become enormous in the upper strata. Recently discovered facts do not sustain these ideas very well, and they must be much modified. The German vortex theory, as well as the Ferrel vortex, has relied upon the latent heat of condensation for the central rising current, but there are several intractable difficulties which stand in the way of accepting either of these theories. Indeed, so strong have these objections appeared to some students that they have abandoned the convection theories depending on thermal energy, and have taken up the purely mechanical or dynamic theory of eddies.

(3) The eddy theory considers the cyclones as simply whirlpools produced by currents flowing past each other at different velocities, especially in the temperate zones, much as eddies are formed in a rapid stream of water. It is only necessary to note that cyclones form frequently and numerously in the Southern States, that is, in the midst of the high-pressure belt, where there is no rapid motion east or west of any kind; that the adjacent strata in the temperate zones do not have sufficient differences of eastward velocity to stir up genuine eddies on a large scale; and that over Asia and the Pacific Ocean, where similar eastward velocities prevail, there are practically no cyclones as compared with the number in North America, the North Atlantic Ocean, and Europe.

Professor Bigelow has found the conditions of this complex problem generally satisfied by admitting the counterflow and underflow of currents of different temperatures at low elevations, such as have been deduced from our observations on the flow of the atmosphere, and from our new barometric reductions to the 3,500-foot plane and the 10,000-foot plane. It will be necessary to give more detailed attention to these results, as yet unpublished, except for one paper in the Monthly Weather Review in February, 1903. The importance of arriving at the correct structure of cyclones, or the configuration of the curves through which the air circulates in them, is so great that it has been discussed in three independent ways, which mutually sustain one another by coming to the same result.

(*a*) The first method consisted in taking the cloud maps used as auxiliaries in forecasting, selecting 40 or 50 maps in a series of years having the same region for the storm center, as the Lake region, and computing the resultant motions in all the minor areas of the cyclone. There was published in the cloud report a series of such resultant cyclones for the sea level, the cumulus-cloud level, 1 to 2 miles high, and for the cirrus-cloud level, 5 to 7 miles high.

(*b*) To carry out the second method, theodolite observations were made at Washington for one year, May, 1896, to May, 1897, and nephoscope observations were conducted simultaneously at 14 stations scattered quite regularly to the east of the Rocky Mountains upon the cloud motions in nine different cloud levels from the surface of the ground up to the cirrus level, and in each of these the actual velocity was measured or found by computations. From these data a structure was obtained for the cyclone in agreement with that of the first method.

(*c*) Finally, the barometric observations taken in the United States since 1873 have been reduced to a homogeneous system, and all the necessary corrections have been applied to make the series from January 1 of that year up to the present time strictly comparable. From these data, and with the help of the temperature gradients found from the observations made during the kite ascensions of 1898 in the Mississippi Valley, together with the available European balloon ascensions, it was possible to construct normal maps of the pressure, temperature, and vapor tension on the sea-level plane, the 3,500-foot plane, and the 10,000-foot plane, for the twelve months of the year.

Also, reduction tables were constructed to facilitate finding the pressure daily on these three planes at about 150 stations in the United States. The sea-level reductions have been used since January 1, 1902, in making the weather maps employed in forecast work and issued to the public at several centers. Since December 1, 1902, the reduced pressures on the 3,500-foot plane and the 10,000-foot plane have been sent to Washington on postal cards, whereby the maps on the higher planes are drawn for comparison with the sea-level charts. At the present writing

Professor Bigelow has examined these maps for six months, with the following general conclusions:

(1) The high-level isobars give precisely the same configurations for the structure of cyclones and anticyclones as were obtained from the cloud charts and the direct instrumental observations, so that the barometry report in the Report of the Chief of the Weather Bureau, 1900–1901, confirms the results of the cloud report.

(2) The great advantage pertaining to this isobar system is that the details are given on the upper levels in great abundance and variety, and they serve for studying these meteorological problems in many different aspects. It will be possible only by preparing a special report on the subject, which is now in process of construction, to give any idea of the new information contained in these high-level charts, and it is hoped to issue this report within the coming year.

(3) It may be stated in this place that the cyclones are formed by currents flowing into the temperate zones from either side in the low levels—that is, a mile or two above the ground—where, by the intermixing and the change of elevation which is induced by their difference of temperature, they cause the gyrations usually observed at the surface in the low and high pressure areas. If a warm current underflows a relatively cold current the lower air rises, cools its vapor contents, and precipitates the same over wide areas. Precipitation is due to the lifting of the air in part by dynamic vortexes where the isobars are closed curves and in part by underflowing warm, moist sheets of air, which are not vortexes. There are many examples of the fact that the warm and moist southerly currents in the 3,500-foot level underflow the cold currents drifting eastward in the 10,000-foot level and precipitate their contents of moisture over large areas. These upper-level maps, at least in the six months from November to April, inclusive, most efficiently supplement the rainfall forecast indicated by the usual sea-level maps, and in many instances they clearly show the rain area for the next thirty-six hours, while the sea-level weather map fails to give such information with the necessary distinctness. This conclusion is very promising, as indicating a probable improvement in the rain forecasts in the winter months. In the summer the system is different from that of the winter, and it is not possible at present to make any statement regarding the efficiency in the warm season.

(4) It happens that on the upper levels the direction of the storm track may often be shown by the trend of the isobars on the 10,000-foot plane. If these slope to the northeast the cyclone usually moves in that direction; if to the southeast, it still follows them. Thus, instead of conjecturing in which of two possible paths the storm center will advance, it is practicable to select the one it usually will follow by reference to the upper isobars. Furthermore, the density of the isobars on the 10,000-foot plane—that is, the closeness with which they are packed together—is a very strong indication of the relative velocity with which the cyclone will move. If they are close together it will advance rapidly; if they are wide apart or straggling, it will move slowly. The difference in velocity between the cyclones of January and May, for example, is a good illustration of this law, and it is likely that a suitable study of this subject will enable the forecaster to judge much more accurately of the storm's progress than has been possible from the sea-level charts alone.

(5) The penetrating power of cyclones and anticyclones into the higher levels is distinctly shown by the changing configuration of the isobars on the three successive planes. The number of closed isobars, within which a purely vortex motion with a vertical component can alone exist, diminishes from the surface upward, and they finally change into sinuous curves before they ultimately disappear in the swiftly moving eastward drift of the high levels. It has been shown that in the case of hurricanes the penetration reaches powerfully to the cirrus level, 6 miles from the surface, and with precisely the same typical configuration for the circulation. There are many other interesting features which are contained in this series of charts, but it will be proper to reserve them for further study before expressing conclusions regarding them. Enough has already been discovered to inspire a feeling of confidence that the high-level charts will efficiently supplement the sea-level charts, and in some cases supersede them for forecasting purposes. It is possible to telegraph the data needed for constructing them by adding one word to the forecast code, such as a word of the barometer-temperature type, and a single clerk can draw the two sets

of upper isobars while the usual sea-level charts are being made. It will require considerable study on the part of the forecast officials to thoroughly digest the new material and overcome a feeling of strangeness. Thus, in cold waves there is seen on the sea-level plane a very high pressure, but on the 10,000-foot plane a distinct low pressure over it. The new charts also will dispel many erroneous conceptions now held by the public regarding the true theory of storms.

THE PROBLEM OF SEASONAL FORECASTS FOR A YEAR.

It is a very difficult piece of science that is involved in the attempt to place the forecasts of the seasons for a year in advance upon a reliable basis, because it will be necessary to take account of several interrelated processes in nature, which depend upon the circulation of the atmosphere of the sun and of the earth. The science of meteorology is not to be confined to the atmosphere of the earth; because the changes in the action of the atmosphere of the sun precede the variations in the earth's air, which finally culminate in a certain type of season. Thus, wet and dry seasons, warm and cold summers and winters, and all the other climatic differences first depend upon the persistence of special high and low areas of pressure in one locality or another; these go back to the circulation of the great currents in the atmosphere, which seem to surge back and forth from one side of the earth to the other, or from the oceans to the continents; finally, these currents are probably due to the solar radiation, which itself changes with the output of energy from the interior of the sun. Thus, meteorology is really a very closely allied but difficult branch of solar physics, and it ought to be studied with the aid of a fully equipped observatory devoted especially to such researches. On the sun are counted up the number of hydrogen flames or prominences seen on the edge of the disk from day to day, and, from a discussion of the thirty years' record in hand, they are known to vary strongly from year to year. Similarly, the faculæ and spots have their fluctuations in synchronous cycles, and these have been studied for many years. Furthermore, the sun emits energy in the form of radiant light and invisible heat, and by means of suitable spectrum observations the variable amount of this light, and especially the invisible heat, can be registered from day to day and from year to year. The result of these records is to indicate that the energy of the sun varies greatly, and that terrestrial weather changes are in close synchronism therewith. There is yet another register of the energy emitted by the sun to be found in the variations of the earth's electrical and magnetic fields, which is perhaps the most sensitive of all, and certainly the most accessible to our measures. The newly discovered action of ions in the atmospheres of the sun and the earth, respectively, which are now believed to be the basis of the electrical and magnetic manifestations, is affording much information upon this obscure subject, and it is full of promise in practical investigations. Langley has announced that the invisible radiant heat energy, as measured in his bolographs, varies from season to season and from year to year. The passage of an eclipse shadow through the atmosphere changes the atmospheric magnetism and electricity in the same way that day and night modify them—by cutting out the sun's rays. In short, the entire field of cosmical processes forms a complex problem which especially concerns the meteorologist, and by him should be studied out for the benefit of mankind, whose life and happiness depend so largely upon the weather.

MOUNT WEATHER RESEARCH OBSERVATORY.

The Weather Bureau is so far convinced of the importance of finding out the laws of this cosmical physics, by which alone the problem can be conclusively solved, that it has been thought proper to found a research observatory at Mount Weather, on the crest of the Blue Ridge Mountains, about six miles from Bluemont, Va., and equip it suitably for these investigations. Professor Bigelow has recently been placed in charge of supervising the plans for its construction and development upon the best modern principles. It is evident that such an institution, having its beginning in the early years of the twentieth century, will have an increased usefulness as the years go by, if it is organized according to the demands of the best science. It will require fine instruments and able students if it is to command the respect of the scientific world. The subject of solar physics has already grown to such proportions that the British Association for the

Advancement of Science has set off a solar physics section from astronomy and mathematics; the solar physics observatory at South Kensington, under the able directorship of Sir Norman Lockyer, is putting forth valuable results; the solar observations by the Italians for the past thirty years have become invaluable as a basis for these studies; the observatory at Kalocsa, Hungary, and that at Zurich are known to all students for their important publications. Less directly, several of the great astronomical observatories are deriving some of their most valuable discoveries in astrophysics, which is simply another name for stellar meteorology, from a study of solar physics. Thus Potsdam, Paris, Lick, Yerkes, Harvard, and other institutions are working zealously along these lines and filling out the realm of human knowledge in a fashion undreamed of a generation ago. It may be asked why, with all this wealth of material being secured in other places, it should be important for the Weather Bureau to enter upon these studies as well. The answer is simple. These observatories, for one thing, specialize along certain lines, and it is evident that there should be at least one institution in the United States where these results are brought together and studied side by side, so that their combined result at a given time can be worked out harmoniously and correlated with the prevailing weather conditions. Furthermore, the publications of these several observatories are issued from the press as much as two to four years after the observations are actually made, so that it is obvious that these late reports can have little value in practical forecasting. It is not intended to enter upon the advanced research problems which rightly belong to specialists, but rather to adapt to the uses of the meteorologist and the forecaster such portions of the well-known types of observatories as seem to be practicable for the immediate uses of the Weather Bureau.

Specifically the plan in mind contemplates the development of an observatory as indicated in the following statement:

(1) An observatory building is in process of erection at Mount Weather, which is well adapted as a school of instruction and for making observations of the ordinary kind with the common meteorological instruments, barometers, thermometers, wind and rain gauges, nephoscopes, theodolites, and actinometers. The first floor is for administration, the second for living quarters, the third for laboratories, and the roof for observing.

(2) Plans are being prepared for a plant adapted to generate large quantities of hydrogen for balloon ascensions, including a shop for the construction of balloons and kites. The ascensions will be limited to about 4 miles in height, the immediate purpose being to measure the temperatures and thermal gradients, which will enable daily isothermal charts to be constructed on the two upper planes already described, so as to provide isotherms, as well as isobars, on the high levels. It is proposed to make a series of ascensions, as complete as possible, first at Mount Weather, and afterwards in different portions of the United States, in order to observe the temperature conditions in all classes of cyclones and anticyclones. Some high ascensions may be attempted, up to 10 or 12 miles from the ground, when experience and other conditions warrant; but, since storm movements are practically limited to the strata within 4 miles of the ground, the first group of ascensions will be to moderate elevations.

(3) It seems important to install a high-grade bolometer for measuring the invisible solar radiation, which is thought by some students to be largely responsible for the actual temperature of the upper atmosphere. Also, a first-class spectro-heliograph is required for keeping a record of the solar prominences, faculæ, and spots prevailing at the time of making weather forecasts. These two instruments are the essentials of an efficient solar physics observatory, and would require the services of an able student of physics to bring out the best results and discuss them efficiently in suitable reports.

(4) These records should evidently be supplemented by an observatory equipped with modern instruments for observations in atmospheric electricity and in magnetism, and it is noted that a number of valuable new instruments have been invented in recent years which can be used. The special subject of this research is the behavior of ions in the atmosphere as forerunners of weather conditions.

Generally, the idea is to bring together for study under one direction the most valuable and practicable observations having a direct bearing on the higher meteorology, which is now engaging

the attention of many able physicists and astronomers. In this field are found the best examples of physical and mathematical problems, because it is nature's great laboratory. The atmospheric conditions at Mount Weather are superb, the site being 1,800 feet above the sea level, on a ridge overlooking the wide Shenandoah Valley to the west and the plains of Virginia to the east. An equipment at that place, such as is contemplated, will induce a great scientific activity and generate an intellectual atmosphere highly favorable to the best scholarship. The assistants in charge of the various lines of work will form a strong corps of teachers, who will instruct a new generation of men in the great problems of meteorology, which are destined to occupy the attention of mankind in an increasing ratio with the lapse of time. If the equipment be made up of the very best instruments and able students secured to use them, and especially if patience be manifested in allowing the data to accumulate and be studied in the proper way, an improvement in forecasting for America should be assured. This institution is to be planned for continuous work in the future, and it is not supposed that its effect on forecasting will be immediately manifest, because of the difficulty and complexity of the problems involved. One thing is certain, that the founding of such a research institution is the true scientific way to provide for the future, in assurance that the natural difficulties will finally yield to human persistency and intelligence.

PYRHELIOMETRIC MEASUREMENTS.

Mr. H. H. Kimball was sent to Asheville, N. C., with an Angström pyrheliometer. Under arrangements made by Professor Abbe, he took observations at stated hours each day from November 10, 1902, until March 26, 1903, at Asheville and Black Mountain, N. C. The observations were carried out with faithfulness, and the report, including a complete tabulation of the observations and reductions, has been rendered by Mr. Kimball. The observations made in 1901–2, with a similar instrument, by Messrs. T. H. Davis and Robinson Pierce, jr., under the general direction of Prof. Carl Barus, at Providence, R. I., have also been submitted in a report by Mr. Davis. The two memoirs containing the work done at Providence and Asheville are recommended for publication in a separate bulletin, as they are too voluminous for the Monthly Weather Review. The solar radiation, as measured by this apparatus, is that which is actually received by every object at the earth's surface; the datum is directly applicable to problems in agriculture as well as to meteorology, and an effort will be made to explain its usefulness in an early number of the Monthly Weather Review. The actual amount of solar energy received at the outer limit of the atmosphere can also be obtained from this observed datum after it has been learned how to interpret it by the study of the bolometric work that is carried on professionally by Professor Langley.

POLARISCOPIC OBSERVATIONS.

In connection with the pyrheliometer, Mr. Kimball maintained a series of observations with the Pickering polarimeter, loaned by the observatory of Harvard College. The blue color of the sky and the polarization of the light depend alike on the fact that the atmosphere is a mechanical mixture of several gases and is loaded with vapor, haze, and dry dust. The polariscope gives a basis for calculating the relative quantity of these impurities. Professor Abbe is of the opinion that Mr. Kimball's work may establish a connection between the polarization and the atmospheric absorption. The observations were found to indicate a decided diminution in the heat received from the sun during the months of January, February, and March, 1903, a fact that he was able to announce even before the publication of a similar observation made at Lausanne, Switzerland, by H. Dufour.

TELEGRAPH DIVISION.

Relations with the principal telegraph companies transacting the steadily increasing telegraph business of this Bureau have, in the main, continued satisfactory. Complaints of delays and other faults in the transmission or delivery of telegrams have, as a rule, received prompt attention and corrective action. Special acknowledgment in this direction is due to the local managers

of the two principal telegraph companies in this city, whose unvarying zeal and courtesy have contributed much toward the prompt investigation of complaints, and the application of corrective measures where called for.

The total mileage of telegraph and telephone lines controlled by this Bureau was increased from 367 miles, at the date of last report, to 421 miles, by the construction and equipment of the following new sections:

(1) From Pacific City (Fort Canby), Wash., to North Head, Wash., 2 miles; completed August 1, 1902. This section connects the observation and storm-warning display station at North Head with the general telegraph system, and its value may be judged by the following extract from an editorial in the Portland (Oreg.) Oregonian of November 11, 1902, viz:

> With the exception of the light-house service along the Oregon and Washington coasts, no greater aid to shipping bound for the Columbia River has ever been extended than by the recent establishment of a reporting station at North Head. * * * The work of the Weather Bureau in this direction has been of great benefit to the agricultural and shipping interests of this district, but no branch of the service has shown its value more effectively than has the reporting station at the mouth of the Columbia River.

Vessel and weather reports are now telephoned direct from North Head to Portland, Oreg., for distribution.

(2) Nine miles of submarine cable from Key West, Fla., to the office of the newly established vessel reporting and storm warning display station on Sand Key Island, Florida. This connection was completed on February 26, 1903, and serves the important purpose of reporting to the maritime exchanges at New Orleans and other points the passing of vessels to or from Gulf ports, and the occurrence of any marine casualties in the vicinity; also for the display of storm warnings at critical seasons.

(3) A submarine cable from Point Reyes light, California, to Southeast Farallone Island, California, 23½ miles in length, with about 3½ miles of land line. This cable was successfully laid and put into operation on April 14, 1903, for observation and vessel-reporting purposes, connecting at Point Reyes with the old line to San Francisco; but only twelve days later it was fouled by the anchor of the steamer *South Portland* and cut in two by the captain's orders, who claims such action to have been necessary to save his vessel. This occurred off Drakes Bay, about 1 mile from the cable landing at Point Reyes. The cable has since been recovered and repaired.

(4) A two-wire land line from Bluemont, Va., to the observatory now under construction on Mount Weather, Virginia, a distance of about 6 miles. This line was completed on May 8, 1903.

(5) Eight miles of submarine cable and 2 miles of land line from Glenhaven, Mich., to the newly established storm-warning display station on South Manitou Island, Lake Michigan. This work was done under the personal direction of Mr. J. H. Robinson, superintendent of telegraph, who also supervised the erection of a steel storm-warning tower on the island. The cable was laid on May 9, 1903, and the station put into operation a few days later.

In connection with the South Manitou Island line it should be mentioned that the employees of the light-house and life-saving services and other residents are very desirous of having this Bureau extend its cable line from South Manitou to North Manitou Island. While on the ground, Mr. Robinson made inquiry as to the benefit such a line would be to lake navigation, and learned that it would be useful in reporting and conveying orders to vessels that seek the North Manitou Harbor, and that the island would also be a valuable point for the display of storm warnings. By utilizing the spare cable stored at Charlevoix the connection could be made and a steel tower erected on North Manitou for $2,000 or less. It is therefore recommended that the next Congress be asked for an appropriation of $2,000 for this purpose.

Telegraphic connection with Tatoosh Island, Washington, was reestablished during November, 1902, by means of a steel span wire, in lieu of the old submarine cable that failed in 1898; but the extraordinary difficulties encountered in the construction and maintenance of a land line to Cape Flattery, which for the past twenty years have rendered telegraphic communication with this important outpost exceedingly precarious, in spite of our best efforts, call for different methods of meeting the urgent demands for regular, uninterrupted weather and vessel reports from

Tatoosh Island. An all-cable line from Port Angeles to Tatoosh Island offers the only practical solution of the problem. This, together with a cable from Flavel, Oreg., to Fort Canby, Wash., which is necessary for the betterment of the North Head weather and vessel reporting service, calls for an appropriation of $90,000. It is recommended Congress be asked to allow $15,000 with which to lay the Flavel-Canby part next year.

An additional appropriation of $10,000 is recommended for the much needed reconstruction of the important Hatteras line, including an extension of the same to Roanoke Island.

Action to equip the Point Reyes-San Francisco line with hard-drawn copper wire, in lieu of the old iron wire now in use, will be taken during the present year.

An attempt was made during last August to recover and repair the old Signal Service cable from Narragansett, R. I., to Block Island, which had been transferred to this Bureau. The cable, however, was found to be practically worthless for further use, and the attempt had to be abandoned. The Weather Bureau cable to Block Island, laid in 1886, became defective in November of 1902. In making repairs it was discovered that this cable also was in a very bad condition and liable to fail entirely at any time. Congress, therefore, granted an appropriation last winter for a new 3-conductor cable, which will be laid during the present summer.

The great demand for additional Weather Bureau reports from many important classes of industry renders it advisable to request an addition to the present appropriation for "general expenses" of $50,000, to be used in the distribution of weather observations, warnings, and forecasts by telegraph.

The total cash receipts of the Weather Bureau lines that are authorized to carry commercial (paid) business amounted during the year to $5,288.38, of which amount $2,687.58 was for "this line" (U. S.) and $2,600.80 for "other line" tolls.

RIVER AND FLOOD SERVICE.

The work of the river and flood service, owing to the recent numerous and disastrous floods, has of necessity been a very prominent feature of the year. Several of the floods were the greatest of which there is authentic record, and were remarkable both for their wide extent and destructive character. In no instance was the coming of a dangerous flood unheralded. The warnings were uniform, prompt, and timely, and in the main remarkably accurate. The forecasts of the great floods of March, April, and June, 1903, afford noteworthy examples of the efficiency the river and flood service has attained, and are later made the subject of more extended mention. The following extract from an editorial in the New Orleans Times-Democrat of April 12, 1903, testifies to the value of the work:

> We have been placed this year under another obligation to the Weather Bureau for its high-water news and predictions. It has kept the people of the lower Mississippi well informed of what they may expect in the way of high water, and its predictions have been subsequently verified by the facts. * * *
>
> It has predicted within a fraction of a foot the height the river would reach at various points and been very close to the date of maximum high water. * * *
>
> The day that the high water would reach New Orleans was stated with remarkable accuracy, for it was between three and four weeks after this warning that the wave crest reached here.
>
> That the warning had a good effect, like that of an approaching freeze, none can doubt. It let the levee boards, planters, and public generally know what to expect in the way of high water and warned them to prepare accordingly; and they did prepare, raising the levees to the height sufficient to withstand the flood which the Weather Bureau warned us was coming. In this way, therefore, it contributed not a little to the energetic and generally successful campaign against the flood carried on this year.

The importance of the river service to the transportation interests of the Ohio River has been dwelt upon at various times. It is only necessary now to say that upon the efficiency of the one largely depends the prosperity of the other, and that the Weather Bureau has contributed much to the latter by maintaining in its river forecasts a high degree of accuracy, both during flood and the almost equally important low-water periods. These remarks apply with equal force to the remaining river districts, where very successful work has been somewhat overshadowed by the floods in the three great interior rivers.

The best recommendation that can be given work of this character is a demand for the broadening of its field of operations and the extension of its benefits to localities not yet favored. Such demands have been constant and persistent, yet lack of the necessary funds has rendered it impossible to meet more than a small percentage of them. In several instances the limitations placed upon the work by lack of funds have seriously handicapped its efficiency and thereby caused loss of lives and property that might otherwise have been saved. The recent flood in the Kansas River was an unfortunate, yet none the less instructive, case. Had the Weather Bureau been able to maintain an adequate river service over this district it is practically certain that more accurate forecasts of the coming flood could have been issued and many lives and much valuable property saved as a result thereof.

It has been found to be practically impossible in recent years to obtain even moderately accurate estimates of the property saved through flood warnings. Formerly the warnings, owing to their very general nature, did not command the attention that the later and more specific ones compel, and interests were easily centered upon any marked benefits. But in these days the many and diverse interests that are more or less concerned with river stages have come to look upon the river forecasts of the Weather Bureau, both daily and special, as a legitimate and necessary portion of their business—an always available, if not a tangible, asset. It is impossible to make a record in dollars and cents of the benefits derived. However, general estimates can be made.

The great floods of the year were those of the Red River in November and December, the Ohio and lower Mississippi in March and April, and the lower Missouri and upper Mississippi and their tributaries in May and June. The first overflowed a territory in southwestern Arkansas and northwestern Louisiana, approximating 200 square miles in extent, and the property loss amounted to over $500,000. This flood began about November 26 and continued throughout the following month. On November 23 the central office at Washington advised that "all necessary precautions should be taken for the removal of stock and property liable to be damaged by flood." These warnings were thereafter repeated daily, gradually becoming more specific as to time and height of the crest stage expected, until all danger had passed. The warnings were issued from seven to fourteen days in advance of the floods, and the crest stages in various localities were correctly forecast to within a small fraction of a foot. Mr. H. Hawkins, secretary of the Shreveport (La.) Board of Trade, wrote as follows:

> The flood warnings sent out by the Weather Bureau before and during the overflow were so accurate and timely that all had ample time to protect themselves. In consequence of said warnings there was no loss of live stock and practically no loss of movable property. We have no data from which to compute the actual value of property threatened from the overflow, but it runs into the hundreds of thousands. Certainly the Weather Bureau did wonderful work.

This is but one of the many commendatory letters and press notices relative to this flood that were received.

The flood of March and April in the lower Mississippi River was the greatest in the recorded history of that section, and its culmination was awaited with feelings of deepest apprehension and concern. Although the aggregate volume of water was less than in the great flood of 1897, yet the extension of existing levees and the building of new ones had still more restricted the natural channels, and the outcome of the new conditions was difficult to forecast. The test of actual experience was necessary. Despite these difficulties the warnings of the Weather Bureau were characterized by an almost absolute accuracy, and were issued from four days to four weeks in advance. With stages of water higher than ever before known, and with the prevailing uncertainty as to the effects of the new levees, the maximum difference between the forecast stages and those actually recorded was only *three-tenths of a foot*, that being at New Orleans, where four weeks' notice had been given of the coming flood crest. The forecasts, however, were conditioned upon the levees remaining intact, and had they not broken in a few places even this difference, slight though it was, would probably not have occurred. The following table shows, in a concise manner, the stages forecast and those actually reached:

Forecasts of lower Mississippi River flood and stages actually reached.

Stations.	Forecast stage.	Actual stage.
	Feet.	*Feet.*
Cairo	50.5 to 51	50.6
Memphis	40	40.1
Helena	51	51
Arkansas City	53	53
Greenville	49	49.1
Vicksburg	52	51.8
New Orleans	21	20.4 to 20.7

Owing to the timely issue and effective distribution of the flood warnings the actual losses, beyond the inconvenience and delay caused by the overflowing of plantation lands, were comparatively small. All portable property was removed to places of safety and every possible precaution taken to protect that which could not be moved.

The floods of late May and early June, 1903, in the upper Mississippi, the lower Missouri, and the Kansas rivers were by far the most destructive, and with the exception of that of 1844 the greatest ever experienced in these localities. The warnings for the upper Mississippi were equally as accurate as those for the previous flood in the lower river. Ample time was afforded to everyone to make all preparations that might be necessary, and if some delayed until too late, their failure to act more promptly certainly can not be attributed to lack of emphatic and accurate warnings. At St. Louis, on June 5, one week or more after the flood warnings were begun, a special warning was issued that in about four days a stage of water in the neighborhood of 38 feet might be expected, the gage reading at that time being 33.5 feet. On June 10 the water reached the height of *exactly* 38 feet and then began to recede. The floods in the Kansas River and in the Missouri in the vicinity of Kansas City could be forecast only in a general way, owing to the fact that no river service was maintained on the Kansas River, it having heretofore been found impossible to obtain sufficient funds for that purpose. The warnings issued stated that serious floods were probable, higher than had occurred for twenty years or more, but no definite forecasts could be made on account of lack of information of any description from points above the threatened districts. Had the Weather Bureau possessed an adequate river service within the State of Kansas during the recent flood, there is not the slightest doubt that, while some lives might have been lost, others that were lost would have been saved by the warnings that could have been issued, and property to the value of hundreds of thousands of dollars rescued from the general ruin. It is strongly urged that Congress provide the necessary funds for the river service so greatly needed in Kansas and many other localities.

The demands for the extension of the river and flood service are utterly beyond the ability of the Bureau to supply. The majority of these demands are necessary for the well-being of the agricultural and commercial interests of the country, and the cost thereof would be comparatively insignificant. A new service should be at once inaugurated on the Kansas and its tributaries, on the Delaware, and in other localities, and additional stations supplied to many of the already existing districts. The telegraph service should also be extended in order that the daily reports, so necessary in many localities for accurate forecasting, may be furnished the various river centers.

The work of the service should also be broadened so as to embrace other and very necessary coordinate branches. The volume of water in the rivers corresponding to given stages in feet from the lowest water level to the highest flood plane should be measured. Information of this character affords a truer index of the real conditions than do the ordinary expressions in feet, which are at best the measured height of the water above arbitrarily assumed points, and are used chiefly because they are the most convenient vehicle for the conveyance of information to the general public. During recent years no connected series of discharge observations has been made in the large rivers of the country. An opportunity for doing a great service was lost

through want of money during the spring floods of 1903, and it is hoped that another instance will not find us unprepared.

Another important field as yet imperfectly developed, but one of first importance to the student of river regimen, is that of the connection of rain and snow fall with the varying stages of the rivers. The relations between the two are subject to so many intricate and ever-changing conditions of climate and topography that regular daily observations at a large number of places are absolutely essential if the best results are to be obtained. The winter snows in the mountains are often the controlling factors in our early spring floods, and if they are to be properly reported numerous stations of observation must be provided. Of equal importance are reports of heavy rainfalls along the headwaters of the various streams. For this work a large number of special rainfall stations are necessary.

The work of the river and flood service during the past year speaks for itself. Its excellent work, while greatly handicapped by reason of enforced limitations, is but an indication of what can be done if proper facilities are provided. The value of property saved through flood warnings of this year alone would more than provide for the needs of this service for a century to come, and it can not be too strongly recommended that funds amply sufficient for the work be provided by Congress.

I am strongly of the opinion that the time has come when the river and flood service should be raised from its position as a part of a division and given the rank of a division, with such a complement of officials and clerks, and such an increase in the funds allotted to its purposes as will enable it to still further perfect and extend the river and flood work so as to meet the needs of agriculture and commerce. The new division, if created, should, as is now the case, be closely affiliated with the forecast division, and the official in charge, in so far as the issuing of flood warnings is concerned, remain under the general supervision of the professor in charge of the forecast division. I therefore have the honor to recommend that Congress be asked to appropriate for one additional professor, at $3,000; one clerk, at $1,800; one clerk, at $1,200; one clerk, at $1,000, and one copyist, at $840. But $17,000 is now spent for the pay of special river and rainfall observers and for the building of river gages, and there are no measurements made of the sectional discharge of rivers. In order to extend the river and flood service, as hereinbefore outlined, it is also recommended that Congress be asked to increase the amount allowed for "general expenses" of the Weather Bureau outside of Washington by $30,000. This additional amount will enable the Weather Bureau to do a splendid service for the interior commerce of the country.

The plan recommended would give to the chief forecaster of the Bureau $3,000, and the $2,500 professorship now held by him would be given to the chief of the new river and flood division, and one district forecaster at $2,000 would be dispensed with. The officials referred to are men of high scientific attainments; they have seen many years of arduous service and study; neither of them has been engaged in the work for less than twenty years, and they are in the front rank of their profession. They are the chief forecasters of the Weather Bureau, and upon the character of their work must rest, in great measure, the value of the weather service. Their responsibilities are tremendous. At times the balance between life and death hangs upon their judgment, to say nothing of the saving or loss of millions of property. The warnings of a single storm moving up the Atlantic seaboard save hundreds of lives and from $3,000,000 to $5,000,000 of property during each storm, and there are a number of these storms each year. Since so much depends upon the skill and judgment of these men, it would certainly seem a wise economy to pay them a fair salary for their work—one even larger than recommended.

The chief of the proposed river and flood division will be charged with the supervision and proper conduct of the river service of the entire country, which even in its present partially incomplete state maintains over 300 river and rainfall stations. Losses by a single flood, such as the Kansas River flood of 1903, where no service is maintained on account of lack of the necessary funds, amount to more than the entire expenses of the river and flood service would amount to for a generation; and, conversely, the value of property saved by flood warnings where adequate service is maintained, such as that on the Ohio and Mississippi rivers during the spring of 1903, amounts to as much or more. These instances of the value and usefulness of this service are by

no means isolated ones, but are repeated in greater or less degree several times annually. In the spring of 1897 the value of property saved during the Mississippi River flood as a result of the Weather Bureau warnings amounted, according to competent authority, to over $15,000,000, and during the present year even these enormous figures were exceeded.

No one can doubt the tremendous importance of this work or belittle its effect upon the economic progress and development of the country. The watershed of the Mississippi River alone comprises two-fifths of the total area of the United States proper; within its confines dwell more than 40 per cent of its population, and the great bulk of the staple crops are grown here. It is easy to perceive, therefore, that whatever affects the well-being of this vast area will be reflected, now for good and now for evil, throughout the entire domain. To properly conduct a service of this character demands ability, both scientific and executive, of a high order. It is a work that requires many years of education and study, a life work in reality, and it is not fair to expect that a capable man should continue in it with the extremely small salary of $2,000 a year, a compensation much smaller than that given to many other Government officials whose duties are much less arduous and whose responsibility for each day ends with the close thereof.

CLIMATE AND CROP DIVISION.

The climate and crop division has charge of the climate and crop service of the Weather Bureau, and of the distribution of its daily forecasts and special warnings. During the year ended June 30, 1903, its work was along established lines, no new feature having been added.

In the climate and crop work more than 3,300 voluntary observers and nearly 14,000 crop correspondents furnish meteorological observations and weather and crop reports that are used in the compilation of the monthly climatic reports and weekly climate and crop bulletins of the various sections, while about 300 paid stations of the corn, wheat, cotton, sugar, rice, and fruit services render daily telegraphic reports to designated centers from which daily bulletins are issued during the crop-growing season.

In the dissemination of forecasts through the various means employed an average daily issue of about 200,000 weather forecast bulletins is accomplished. In the preceding year it was through the rural free-delivery service of the Post-Office Department that the greatest increase in forecast distribution was effected, but on account of lack of funds it was not possible to further extend the distribution through this very effective means of reaching the farmers. A large and very prompt dissemination has, however, been accomplished, without cost to the Bureau, through the farmers' telephone exchanges.

For a number of years past an extensive distribution of weather forecasts has been accomplished through the cooperation of postmasters supplied with logotype and stamping outfits with which the brief weather messages are printed upon postal cards for mailing to outlying towns. While this system has served a most useful purpose, and will continue to prove valuable, urgent need has been felt for more rapid means of printing the forecasts.

Through the courtesy of the Director of the Census, a sufficient number of copies of volumes containing agricultural statistics of the Twelfth Census was procured to supply each section center with a set consisting of Part I, Vol. V, and Part II, Vol. VI. The information contained in these volumes has been used to great advantage at the central office in determining the relative importance of the several States in the production of the various crops, and will prove valuable to the section centers in the study of climate and crop problems.

NATIONAL CLIMATE AND CROP BULLETIN.

The National Climate and Crop Bulletin has been issued in the usual form, with charts showing the current temperature and precipitation, extremes of temperatures, and departures from normal of both temperature and precipitation. In this bulletin the current meteorological conditions are discussed in their relation to crop growth from the beginning to the end of the crop season. So expeditiously are the reports of crop conditions and meteorological observations collected and utilized that within twenty-eight hours after the close of the week ending 8 a. m. on

Monday, there is given to the public in this bulletin a graphic presentation of the temperature and rainfall conditions, together with a general summary of the weather and crop conditions for the United States, supplemented by a condensed summary for each and every State. In the preparation of the temperature and precipitation charts accompanying the National Climate and Crop Bulletin telegraphic data from more than 450 stations are used. The effect on the markets of the information contained in this bulletin is so decided that in order to place it before the public in an impartial manner it is withheld until 12 noon on the day of issue (Tuesday), when the complete report is equitably and gratuitously distributed to all desiring it. It is doubtful whether any class of information receives a wider dissemination through the daily and weekly newspapers and agricultural journals than the text matter of the National Climate and Crop Bulletin. The press associations and a large number of the more important newspapers of the country with representatives in this city are served with the bulletin as soon as the hour for making the information public arrives.

In order to more fully meet the need of the cotton interests, an abridged form of the National Climate and Crop Bulletin, entitled "Cotton Region Climate and Crop Bulletin," is issued at New Orleans. This publication contains summaries of the climate and crop conditions prevailing in the States of the cotton belt, duplicates of which are published simultaneously in the National Climate and Crop Bulletin.

SECTION PUBLICATIONS.

The monthly climatic reports and the weekly climate and crop bulletins have been issued in conformity with the standard models adopted in 1896. In their present form they so satisfactorily meet the needs for which they are intended that no change seems advisable. The demand for both the monthly climatic reports and the weekly climate and crop bulletins, as well as for the daily bulletins of the corn, wheat, cotton, sugar, rice, and fruit services, is constantly increasing. So numerous have been the calls for the monthly climatic reports of previous years that the editions of very many sections have been exhausted, notwithstanding the fact that the section directors have been instructed to prepare for increased demands. These publications answer so fully and in such detail many questions pertaining to climate that were it not for them a much larger force of clerks would be required at the central office to supply requests for climatic data. The annual summaries are in especial demand. All weekly climate and crop bulletins are issued on Tuesdays, and the monthlies as soon as practicable after the close of each month. Most of the latter are ready from the 15th to the 20th, and practically all are issued by the end of the month succeeding that to which the report pertains. By a complete interchange of the monthly reports each section receives all the reports issued. These are carefully filed and are available for reference at all times. In addition to the section centers, 20 of the more important stations of the Bureau also receive these monthly reports, and it is frequently found a means of convenience to refer applicants for information that these reports contain to the nearest Weather Bureau station having a complete file.

SNOW AND ICE BULLETINS AND THEIR USES.

In the winter time there is issued from the central office a snow and ice bulletin showing graphically the area covered with snow and the extent of its depth; also the thickness of ice in rivers and harbors. This bulletin has a wide circulation, and the information it contains has an important bearing upon the winter-wheat crop, besides supplying data of much value to the ice trade and to the manufacturers of goods the demand for which is largely governed by the prevalence of sleet or snow—rubber goods, horseshoes, etc., coming under this heading.

In the States of the semiarid region local snow bulletins are issued by each climate and crop section center from December to March. These bulletins show the amount of snow and the depths remaining at the close of each month, this information being of great importance as affording a reliable basis for calculating the water supply for irrigation during the succeeding season. In some States a small amount is expended in obtaining snow measurements at high altitudes of difficult access where it is impossible to secure voluntary service.

VOLUNTARY STATIONS.

While more than 200 voluntary stations were established during the year, the total number, 3,355, is not quite so large as at the close of the previous year. This is due to the closing of many stations using nonstandard instruments in localities where the need for stations was not sufficiently urgent to justify their equipment with standard instruments. As in the past few years, efforts have been mainly directed toward standardizing and improving the outfits of voluntary stations rather than increasing their number. The plan of inspecting voluntary stations inaugurated in the previous year has been followed vigorously, 481 stations having been inspected by section directors during the year. The importance of these inspections can not be too strongly emphasized. Nothing can contribute more to the successful work of a voluntary station than a personal interview between the observer and the section director. These inspections, therefore, have unquestionably contributed much to the elimination of defects that are liable to exist, however careful the effort may be to guard against them. While many voluntary observers thoroughly understand their duties and perform them in a most satisfactory manner, it is found that there are few stations at which there is no opportunity for needed suggestions or instructions. As the inspections made in the previous year were largely confined to stations that could be reached without cost to the Bureau for transportation, the average expense per station inspected during the year ended June 30, 1903, was somewhat greater than in the previous year.

CORN, WHEAT, COTTON, SUGAR, RICE, AND FRUIT SERVICES.

The number of these stations and the manner of reporting and publishing data therefrom continue unchanged. The value of this service is becoming more widely known each year, and numerous requests for the establishment of more stations are received from commercial organizations. Twenty-five additional stations can be advantageously placed in portions of the cotton belt not now well represented, and a like number of stations of the corn and wheat region service is also needed in the corn and wheat belt. Owing to the exceptionally mild weather conditions prevailing in the cotton belt during the autumn of 1902 the cotton interests felt the need of the reports from the cotton-region stations after the suspension of the service on October 31. Effort was made to meet this demand by a voluntary service, which was continued during November. Much difficulty was experienced during the spring of 1903 in securing the receipt at the district centers of the daily reports from substations in time to be included in the district averages telegraphed to other section centers, and efforts have been made to secure more satisfactory service. As a rule, however, many of the delayed reports are received in time to appear in the local bulletins although too late to be embodied in the district averages. The editions of the bulletins are larger than in previous years on account of the increasing demands. That the information contained in these bulletins may be given to the various interests in an impartial manner, they are issued simultaneously at 11 a. m., seventy-fifth-meridian time. A copy of each bulletin issued from corn, wheat, cotton, sugar, and rice centers is received at the central office, where they are carefully examined for errors or defects. The total number of corn and wheat bulletins issued daily during the season at 12 stations is 769, and the total number of cotton-region bulletins issued at 28 stations is 865.

The fruit and wheat service in California continues to supply the needs of the fruit and wheat interests of that State very satisfactorily. No bulletins other than those supplied to the press are issued, but through the circulation in the Pacific papers a wide dissemination of the data collected is secured.

DISTRIBUTION OF FORECASTS AND SPECIAL WARNINGS.

Inadequate appropriations have prevented any extensions in this important work, and of necessity efforts have been confined to maintaining the service already in operation, with its various ramifications, and adopting suggested improvements which might be effected without additional expense to this Bureau.

While a reduction of 131 is shown in the number of stations receiving forecasts by telegraph or telephone at Government expense, this indicates no impairment in the efficiency of this class, for the points discontinued were unimportant as centers, or the substations were transferred to some equally well-located center of distribution, and very few, if any, interests were deprived of the forecasts by this action.

No change has been made in the system of emergency warnings, and the number of authorized stations remains the same as at the date of the last report. This statement also applies to the railway train service, there having been no change, of record, in this work during the past year.

The dissemination of forecasts over the telegraph lines of a number of the great trunk railroads has been continued, while the service has been discontinued by a few of the smaller roads, owing to increased business over their wires, entailing a loss of about 200 points receiving the daily reports for posting in the railroad stations.

A marked increase (nearly 20,000) is shown in the number of places receiving forecasts by telephone without expense to the United States, and with the rapid extension of "farmers' telephone lines" (so called) opportunity is afforded for placing weather information directly in the homes of the more progressive agriculturists as well as in the telephone exchanges of rural centers of population, where it is posted for the benefit of the general public. The managers of these local telephone lines seem to be very much interested in this matter, and with very few exceptions have given their hearty support in making the distribution as successful as possible. It is not difficult to secure the cooperation of these officials, as a statement of the fact that forecasts can be had gratis adds to the inducements which they can offer to prospective subscribers. The great advantages of this plan of dissemination are apparent when we consider the very early hour at which the production reaches the subscriber and the slight amount of labor involved in furnishing him with the information.

The list of places supplied with daily forecasts through the regular mails has been increased by nearly 4,000, showing a healthy growth in this class, although no efforts have been made, owing to lack of funds, toward an extension. The post-offices receiving card forecasts by the logotype system are being charted on post-route maps in this division, and any irregularities that may appear are corrected, and any offices not receiving the forecasts, which can be reached from any distributing center in time to make the information of benefit, are added to the lists of the proper center. This branch of the work is confined, as a rule, to morning forecasts, which can be posted in the various offices before 6 o'clock p. m. of the day of issue. Some of the distributors display considerable ingenuity in their devices for saving time and labor in this work, and I wish to invite particular attention to the work done at Marshalltown, Iowa, where the cards and slips are printed in three colors, with the regular logotypes, on a rapid printing press invented by the distributor.

The decrease of 7,500 in the number of families receiving forecast slips through the rural free-delivery service is due mainly to a change in the hours of departure of carriers from terminal points which precluded their receiving the forecast telegrams in time for distribution, as it has been the policy of the Bureau to allow only the distribution of the morning forecasts, except in a limited number of cases where the circumstances justified a departure from this rule. Where carriers leave before 8 a. m. and the distributing station has no "all night" telegraph office, there is no possibility of the messages being delivered in time to allow the forecasts to be duplicated and given to the carriers before their departure. There appears but one remedy for this, and that is to utilize the night forecasts alone for rural free-delivery distribution, and have carriers supplied by mail train with their slips from a regular Weather Bureau station equipped with a rapid printing press like those now in use at the Boston and Columbus stations.

The agricultural sections are now the principal field of operations, and the rural free delivery is the means for reaching them; and, as stated in a previous report, it seems particularly unfortunate that, at this time, when the Bureau has opened up to it such a great opportunity for increasing its usefulness to the farming classes, it is debarred from taking the action indicated owing to insufficient appropriations. Numerous requests for forecasts are being

received from persons living on rural free-delivery routes which it is necessary to refuse for reasons above stated.

The following table shows the geographic extent of this work, as well as the changes, as compared with the distribution of the previous year:

Distribution of daily forecasts and special and emergency warnings.

State or Territory.	At Government expense.			Without expense to Government by—					
				Telephone.					
	Forecasts, daily.	Special warning.	Emergency warning.	Forecasts, daily.	Special warning.	Railway telegraph, daily.	Railway train service, daily.	Mail, daily.	Rural free-delivery service, daily.
Alabama	25	5	152	68	94	83	12	960	857
Arizona	3	1	0	2	0	0	0	0	0
Arkansas	26	7	118	4,025	2	12	0	523	250
California	120	15	0	32	177	356	0	2,405	3,228
Colorado	20	18	81	48	200	2	7	1,016	1,240
Connecticut	14	4	52	0	0	15	151	1,109	100
Delaware	9	0	25	0	0	32	0	68	720
District of Columbia	0	0	0	11	11	0	0	1,264	0
Florida	27	125	95	34	132	91	0	1,193	0
Georgia	38	42	268	26	76	222	41	1,520	970
Idaho	12	1	0	7	22	0	17	403	101
Illinois	111	28	524	1,867	264	131	459	2,992	7,532
Indiana	100	10	242	3,530	131	68	287	2,000	5,877
Indian Territory	10	0	5	20	20	0	0	152	0
Iowa	143	30	480	7,554	222	13	0	1,889	9,037
Kansas	72	6	217	315	169	30	15	964	3,841
Kentucky	34	37	102	131	20	21	0	3,122	75
Louisiana	25	45	71	9	22	8	0	940	25
Maine	24	5	46	6	20	0	77	1,635	1,120
Maryland	28	7	89	17	34	84	0	1,855	1,384
Massachusetts	25	21	71	12	50	1	331	2,923	10,125
Michigan	113	23	443	85	256	269	457	4,893	5,376
Minnesota	53	16	217	500	544	13	0	2,023	2,062
Mississippi	27	8	75	39	25	10	0	737	0
Missouri	86	11	280	3,640	182	36	0	4,232	6,310
Montana	16	3	24	6	16	0	0	504	0
Nebraska	63	11	241	406	49	0	0	936	1,415
Nevada	3	0	0	0	0	0	0	178	0
New Hampshire	17	1	39	0	0	0	31	1,281	1,205
New Jersey	29	22	127	6	22	189	0	1,406	255
New Mexico	4	2	0	0	0	9	0	15	0
New York	118	60	407	458	961	305	168	6,985	10,454
North Carolina	47	21	214	25	46	1	16	1,256	453
North Dakota	13	12	104	0	0	0	0	29	215
Ohio	125	93	407	2,249	1,787	37	17	8,289	14,292
Oklahoma	8	2	15	1	30	9	0	176	0
Oregon	18	2	0	0	32	0	104	646	695
Pennsylvania	52	22	345	799	358	727	0	4,290	485
Rhode Island	5	0	13	44	7	0	28	102	0
South Carolina	36	6	125	30	277	30	23	1,097	456
South Dakota	34	26	111	86	284	0	0	706	195
Tennessee	43	10	305	108	165	23	2	1,606	1,715
Texas	56	67	278	165	453	163	0	1,666	2,293
Utah	12	57	0	0	0	0	0	202	290
Vermont	11	1	50	0	0	8	13	542	100
Virginia	41	9	109	157	53	60	96	1,709	228
Washington	20	3	0	2	52	0	29	706	548
West Virginia	22	11	74	522	245	18	26	1,094	232
Wisconsin	71	16	447	503	92	0	16	1,820	1,852
Wyoming	6	4	8	6	0	11	0	105	40
July 1, 1903	2,015	926	7,096	28,251	7,602	3,087	2,423	78,164	97,648
July 1, 1902	2,146	921	7,096	8,297	12,872	3,280	2,423	74,327	105,161
Changes	−31	+5	0	+19,954	−5,270	−193	0	+3,837	−7,513

The chief of the climate and crop division has charge of some of the most important work of the Bureau, viz, the climate and crop service and the distribution of forecasts and special warnings. Fifty-two of the higher station officials are partially engaged in work under his

general supervision. Paid observers at 293 stations of the corn and wheat, cotton, sugar and rice, and fruit services are under his exclusive direction, and nearly 30,000 persons serving gratuitously in the capacity of crop correspondents, forecast distributers, and voluntary observers contribute to the work under his charge. Approximately, one-third of the Bureau's appropriation for telegraphic purposes is expended annually in the collecting and disseminating work under his division. He writes the National Climate and Crop Bulletin, a work requiring skill in the handling of meteorological statistics and in the construction of temperature and precipitation charts, as well as ability to understand and intelligently discuss the effects of weather on growing crops. The State sections of the climate and crop service are under his supervision. There are 42 sections, each publishing monthly climatic reports the year around, and weekly climate and crop bulletins during the period of planting, cultivating, and harvesting of the more important staples.

I take this occasion to express my acknowledgment of the very valuable and efficient service of Mr. James Berry, chief of this division. His work in the climate and crop service demands a high order of intelligence and the utmost integrity, qualities which he possesses in an eminent degree, and which, when taken in conjunction with the importance of the work and his long experience of twenty-five years in the service of the Bureau, give him the strongest title to promotion. He now receives $2,000, and I earnestly recommend his promotion to $2,750. I make this recommendation in the earnest desire to deal justly with a man who has been a worthy assistant and most valuable public officer.

LIBRARY.

The work of the library has gone on in general as outlined in the last report. During the year there have been added 987 volumes, bringing the catalogued strength of the library up to 24,138 books and 4,430 pamphlets, making a total of 28,568 titles. These titles are represented by a complete author card index, and partly, about two-fifths, by a subject card index. It was expected that this subject index would be completed during the year, but unavoidable contingencies prevented. A bibliography of current meteorological literature is now maintained and a selected part of it appears regularly in the Monthly Weather Review.

The steady flow of publications into the library from year to year has filled all available shelf room. Need of more room is urgent. The question has often been raised as to the limitation of the book accessions. As far as appears practicable, restriction has been enforced. No works not clearly connected with the interests the Bureau serves are purchased. By far the greater part of the accessions are the meteorological publications of other national weather services received in exchange for our own publications, and they are properly the objects for the custody and care of which we are most interested in providing.

EXAMINATIONS.

During the year 69 employees asked to be examined for eligibility for promotion, in accordance with a system of examinations adopted and in force for this purpose since 1899. Of these, 44 passed the examinations prescribed for eligibility for promotion to salary grade $1,000 per annum, 6 failed; 13 passed the examinations prescribed for promotion to salary grade $1,200 per annum, 2 failed; 8 passed the examination for promotion to salary grade $1,400 per annum, 1 failed. One employee passed the examinations for promotion to both $1,000 and $1,200 per annum, and 1 passed the examination for all three grades. The subjects examined upon were: For promotion to salary $1,000 per annum, grammar, arithmetic, elementary meteorology; for promotion to salary $1,200 per annum, algebra, trigonometry, physics; and for promotion to salary $1,400 per annum, astronomy, plant physiology, and advanced meteorology. The duty of preparing and marking the questions has been performed by the librarian in addition to the other duties devolving upon him.

These examinations serve a double purpose. With respect to the first, almost all of the employees entering the weather service are young men. Many are from colleges, others have had less educational advantages, but have managed to pass the required entrance examinations.

Experience has shown that even in the case of high-school and college men there is often a lack of thorough grounding in the elementary subjects of English, arithmetic, and algebra. Because of such experience it has been found well to require that these elementary subjects be reviewed, and for this reason they have been made part of the promotion examinations. The other purpose is that of showing that advancement is dependent upon the possession of a comprehensive knowledge of meteorology and cognate sciences. Experience again shows that the most useful officials of the service are those who keep themselves best informed, both as to the routine work of the Bureau and its relations to other interests.

INSTRUMENT DIVISION.

The duties of the instrument division may be embraced under the following heads: "Instruments," "Storm-warning towers," "Experimental work," and "Exposition work."

A station is rated as completely equipped when instruments are installed by which the meteorological elements of wind velocity, wind direction, temperature, pressure, rainfall, and duration of sunshine are recorded.

During the past year new stations were fully equipped at Asheville, N. C.; Syracuse, N. Y.; Wytheville, Va.; Duluth, Minn. (substation); Concord, N. H.; Southeast Farallon Island, Cal., and Sand Key, Fla. The equipment of the stations at Alpena, Mich.; Amarillo, Tex.; Block Island, R. I.; Lynchburg, Va.; Roseburg, Oreg; Wichita, Kans., and Williston, N. Dak., were brought up to a standard of completeness. There are now 138 stations completely equipped. Those remaining, numbering about 60, are either special agencies, display stations at which anemometer records only are desired, or are of such minor importance that the present equipment is sufficient. A very considerable number of automatic instruments are, nevertheless, maintained at the incompletely equipped stations, some of which lack only a single instrument.

The following shows the total number of the principal instruments in active service:

Triple registers	161
Barographs (includes 35 in lake marine service)	220
Thermographs	162
Telethermographs	8
Tipping bucket gages	141
Electric sunshine recorders	145
Photographic sunshine recorders	30

Nearly all the stations that are completely equipped have, in addition to the instruments mentioned above, certain duplicates, constituting an "Exhibit equipment."

The automatic instruments are operated almost wholly by electricity, and heretofore the current has been obtained from an improved form of primary battery consisting of zinc and oxide of copper elements in a solution of caustic soda. While they have proved vastly superior to the old "bluestone" batteries, yet their maintenance involved expense and trouble for recharging. Steps have been taken to introduce small storage batteries, which have now been brought to a high state of efficiency. Unfortunately, these storage cells can only be used at stations having a direct-current system of electric lighting. The original installation costs but a trifle more than one set of the ordinary primary batteries, and no further expense is necessary, since the batteries are charged from the lighting current. The use of the storage cells not only provides a more satisfactory source of electric energy, but also effects a saving of from $10 to $15 a year for each station. About 50 stations are now supplied with suitable current, and action is being taken to equip these with storage cells in the near future.

NEW SEISMOGRAPH.

It has long been the policy to maintain a special equipment of instruments at the central office in Washington. An instrument of unique interest is the seismograph. For a number of years practically the only instrument of the kind maintained in operation in North America was the one in the Weather Bureau. Several others existed, but because of the infrequent occurrence of earthquakes they were not kept in condition to make records. During the past year a new

seismograph of modern design and of greatly improved type was procured and installed. A distinct earthquake was recorded March 15, 1903, and another of much longer duration on June 2, 1903. A detailed account of these shocks and a description of the seismograph will be published in the Monthly Weather Review. Any considerable earthquake that occurs on any point of the globe is now pretty certain to be more or less fully recorded at Washington. Where seismographs of the degree of sensitiveness of the one now in use have been maintained for periods of a year or more, a peculiar type of record has been traced from time to time which as yet is not fully understood. Omori, of Japan, classifies the phenomena as "pulsatory oscillations," and the opinion prevails generally that the origin of these waves is not seismic but meteorologic, and that it is probably connected with unusual conditions of atmospheric pressure. The records made in such cases show that the crust of the earth is in a state of continuous oscillation of appreciable amplitude. This motion goes on hour after hour, sometimes for a day or more at a time, but the data accumulated thus far are too meager to afford a satisfactory explanation of the phenomena. Colonel Bingham, in reporting upon the behavior of the long pendulum installed in the Washington Monument, states that "on many days of perfect calm the plumb line vibrates excessively, whereas on days when a high wind is blowing the plumb line will be at rest." There can be no doubt that the days on which the pendulum vibrates are days of pulsatory oscillations of the earth's crust at Washington. In the future such vibrations will be recorded on the seismograph.

STORM-WARNING TOWERS AND LANTERNS.

The duties of the instrument division in connection with the storm-warning towers are confined to the details of their purchase, installation, and maintenance. The selection of the stations and the management of the funds for the work are supervised by the forecast division. During the two preceding years the available funds have not been adequate for the entire work. Only a few stations were equipped last year, most of the funds being expended for high-power electric and oil-burning lanterns, which were necessary to complete the equipment of a large number of stations at which towers had been erected. The improved equipment of storm-warning towers and lights is now completed at about 130 stations, and action is being taken to equip 25 additional stations during the fiscal year 1903–4. When Congress was requested to appropriate for storm-warning towers the estimate of cost was based on about 125 stations. By the close of the year 1903 nearly 25 per cent more stations will have been fully equipped than were originally contemplated.

AERIAL RESEARCH.

A careful study of the mechanical, instrumental, and engineering problems involved in aerial research was entered upon by Professors Abbe and Marvin, and it was pushed as rapidly as their other duties would permit. The problem has been carefully studied in order that no blunder might be made that would develop after the work of the taking of observations had begun. A series of experiments was begun with small rubber balloons, for the purpose of testing the elasticity and other qualities of thin rubber. Investigations were made into the sluggishness of such forms of thermographs as might be used in ascensions. This is a work that had been neglected. A thermograph rising or falling rapidly through the air is exposed to a constantly changing temperature, and owing to its sluggishness the indicated temperature is more or less seriously in error. If the coefficient of sluggishness under the different conditions of usage can be ascertained, the proper corrections can be applied to the records. The instruments can then be caused to ascend or descend rapidly through the air (1,000 feet per minute or more) and correct records obtained. This means quick and high ascensions and a more certain recovery of the apparatus. The following summary indicates what has been done:

Toluene thermometers, according to the hydrogen scale of International Bureau adjusted to —70 C., procured for comparison of instruments.

Special vacuum low temperature chamber designed and constructed.

Specimen rubber balloons of European manufacture procured.

Numerous tests were made of the tension and density of the membranes of small rubber balloons, together with the corresponding pressure and volume of the confined gas.

Special type of platinum resistance thermometers and direct reading indicator, for use in the vacuum low-temperature apparatus, devised and constructed.

Several types of European baro-thermographs procured for test and inspection.

The construction of netting, parachutes, etc., and disposition thereof, carefully studied.

Investigations made relative to the electrolytic generation of hydrogen, the best type of engine for the work, and the problem of easily and quickly testing the composition of the gases.

The theory of the sluggishness of the thermographs was formulated, and apparatus and methods of measuring sluggishness developed and applied.

The study of the diffusion of hydrogen through thin sheets of rubber was begun.

The policy recently inaugurated of building up a great center of meteorological research at Mount Weather is undoubtedly one of the most important steps that has been taken at any time in the history of the Bureau to place the scientific side of the service upon a firm basis, and it is certain to bring valuable results. The importance of a careful study of all details in any way connected with instruments or apparatus is recognized, as the future suitability of installations depends upon their broad adaptability to many and diverse uses.

EXPOSITIONS.

The instrument division has been charged with the immediate care of the exhibits made at Buffalo, Charleston, Providence, and the one to be made at St. Louis. The instrumental section of the Buffalo exhibit was transferred to Charleston, and later to Providence.

DIVISION OF METEOROLOGICAL RECORDS.

The routine work of examining meteorological forms from regular and cooperative stations, and entering the data in the record books; preparing and tabulating data for the Monthly Weather Review, for the Annual Summary of the Weather Review, and for the Annual Report of the Chief of Bureau; preparing error letters to employees of the Bureau and cooperative observers; receiving and checking the receipt of regular and voluntary forms; preparing data for certification under seal of the Department for use as evidence in cases at law before the various courts of the country, and for many other purposes, has continued throughout the year. There are 3,173 reports from voluntary observers examined each month.

A set of division tables, adapted from tables submitted by Mr. H. W. Smith, Mr. Arthur Thompson, and Mr. Hermann Volker, were published. This was a task requiring great accuracy in verification of figures and much time in preparation. The tables will be a great aid to speed and correctness in preparing forms at stations, and are satisfactory.

There is now being prepared, under the supervision of this division, a new series of climatic charts.

Temperature normals—mean daily values—for all stations for the twenty-five-year period, 1879–1903, inclusive, are now being prepared. The initial portion of this work necessitated the entering of each day's mean at all stations for the years 1896–1903, inclusive. At stations having less than a twenty-five-year record, an arbitrary correction will be used, which will be arrived at by taking the means of identical years at contiguous stations, finding the difference from the twenty-five-year mean, then applying the mean correction of all the stations under consideration to the mean of the short period, thus making it comparable with stations having a full twenty-five-year record. The daily values of the short-record period will be fixed by taking the curve for some adjacent station whose temperature conditions are believed to be about the same as at the station under discussion.

In working up these daily values much time has been saved and great accuracy obtained by the use of an adding machine.

New precipitation normals, also, are being prepared for all stations, and determined from the beginning of record to the year 1903, inclusive.

An unusual amount of data was prepared for the committee on the Charles River Dam, of Boston; the waterworks department of New York City; for several Bureaus and Divisions of the Department, and the U. S. Geological Survey; for business people, invalids, health and pleasure

seekers, etc.; and many calls for data from civil and hydraulic engineers, etc., have been filled by furnishing publications of the central office, climate and crop centers, and individual stations.

An increase of 2 clerks at $1,000, 2 at $840, and 1 at $720 per annum is recommended to do the additional work imposed on this division by the increasing demands for data and to verify the records received from the new stations established during the past several years.

MONTHLY WEATHER REVIEW AND WORK OF THE EDITOR.

Professor Abbe has devoted his time to editing the Monthly Weather Review and making the preliminary arrangements for the inauguration of a systematic research into the meteorological conditions of the upper air by means of kites and special small hydrogen gas balloons. The aerial investigations, however, have recently been assigned to Professor Bigelow.

The Monthly Weather Review has continued to be published as promptly as possible, the number for April, 1903, appearing on June 20, 1903, being five days after the prescribed date. New type, improved presswork, and a better quality of paper have added much to the attractiveness of the publication. Many articles published in the Review have been in such demand by students and scientists that separate prints have been made of many of them.

A memoir by Dr. J. W. Sandström, of Stockholm, on the construction of isobaric charts at high levels in the atmosphere and their significance in the dynamics of the atmosphere has been translated and prepared for publication as an independent bulletin, as it is rather too large to go into the Monthly Weather Review.

The following articles that seem worthy of mention appeared in the Review during the past year:

W. A. Bentley: "Studies among the snow crystals during the winter of 1901-2." This article was published in the last number of Vol. XXX, or the summary for 1902; it contained an analysis of the types and frequency of types of snow crystals, notes on their internal structure, and on the relation of the types to the location and distance of the storm center. With this was published a collection of 255 photomicrographs of snow crystals engraved by the half-tone process and printed with great care, so as to bring out as far as practicable many of the details of internal structure that were to be seen on the original photographs. This beautiful memoir has received much praise, and many special requests for it have been received.

R. A. Harris: "Note on the oscillation period of Lake Erie" (June, 1902), and "The semidiurnal tides in the northern part of the Indian Ocean" (April, 1903). These papers explain certain oceanic tidal phenomena by the oscillation of the whole mass of water as a unit in lakes or certain parts of the ocean. Similar oscillations occur in the atmosphere when it is resting quietly, as may easily be observed by means of layers of smoke or fog.

Prof. F. H. Bigelow: "A contribution to cosmical meteorology" (July, 1902); "Studies on the meteorological effects of the solar and terrestrial physical processes" (December, 1902); "Synchronous changes in the solar and terrestrial atmospheres" (January, 1903); "The structure of cyclones and anticyclones on the 3,500-foot and 10,000-foot planes for the United States" (January, 1903); and "The mechanism of counter currents of different temperatures in cyclones and anticyclones" (February, 1903). These papers represent an immense amount of study and labor, and have undoubtedly given precision to our ideas as to the conditions prevailing in the general atmosphere and in the midst of the highs and lows. Extra charts have been published in the Review, so as to more fully elucidate Professor Bigelow's conclusions and accustom the forecasters of the Weather Bureau to the careful study of the isobars and isotherms at high levels.

A. L. Rotch: "The International Aëronautical Congress at Berlin" (July, 1902). This is a full report on the congress of May, 1902, made by Mr. Rotch, as representing the United States Weather Bureau. This congress afforded our first opportunity to learn of the success of the Berlin meteorological office in using small rubber balloons for carrying meteorographs to the greatest possible heights. It also showed that European meteorologists were unanimous and enthusiastic in their cooperation in the work of the general investigation of the conditions prevailing in the upper atmosphere. Hypotheses on this subject can no longer be acceptable, in view of the actual knowledge gained and the unexpected facts revealed by the work done with kites and balloons.

L. Teisserenc de Bort: "The Franco-Scandinavian station for aerial soundings" (April, 1903). Our distinguished colleague here gives the first detailed account of the station established at Viborg, Denmark, by the cooperation of France, Denmark, Norway, and Sweden. Balloon and kite ascensions were made as often as possible during one year, and the results were promptly printed, although it is not known that they have as yet been distributed or published.

S. R. Cook: "The permanency of planetary atmospheres according to the kinetic theory of gases" (August, 1902). This is virtually an inquiry into the origin and history of the evolution of the earth's atmosphere. Mr. Cook's investigations confirm some of the calculations previously made by others, and he concludes that, in general, helium forms a constituent, though a very small part, of the earth's atmosphere; helium will be retained by the

earth's attraction at much higher temperatures than now prevail. All the planets can retain atmospheres similar to the earth's, and the superior planets can retain gases much lighter than hydrogen. The vapor of water will remain on the planet Mars at ordinary temperatures. If the moon had a mean temperature as low as that of freezing water, it would lose any nitrogen and oxygen that it might have in its atmosphere.

L. N. Jesunofsky: "Some peculiarities in frost formations". (October, 1902). The author gives details as to numerous irregularities in the formation of frost in the neighborhood of Charleston, S. C. These are evidently due to local peculiarities in the soil and plant covering, as also to the presence of small regions of moist air following slight haze or fog, but in many respects they have not yet been satisfactorily explained.

B. C. Webber: "November gales from the Great Lakes to the Maritime Provinces" (November, 1902) and "March winds" (March, 1903). These two articles by the acting director of the meteorological service of Canada called attention to interesting peculiarities in our winds. They have also given occasion to the following paper by Mr. Stockman.

William B. Stockman: "March and winter winds" (May, 1903). In this article the author shows that the windstorms of the winter months occur with temperatures above normal, and that storms are more frequent in March than in the winter months, except in the east Gulf and Atlantic coast States, the lower lake region, and the upper Ohio Valley.

T. H. Davis: "Annual wind resultants" (November, 1902) and "Typical October winds on our Atlantic coast" (April, 1903). Mr. Davis has spent his spare time for many years in computing the resultants of the wind direction, both for hourly records and for tridaily records at our observing stations. He shows that at many stations the oscillations of the wind resultants go through a system of systematic changes from year to year, and that at neighboring stations these changes are analogous, but at distant stations they may be in opposite directions at the same time. For stations such as Key West and Bermuda, where the strictly local influences are uniform, the changes in the wind appear to depend upon changes in the so-called general circulation of the atmosphere. Mr. Davis is not able to find any special connection with changes in the sun spots or the moon or other cosmical phenomena. He maintains that the dignity of meteorology as a science can only be maintained by adhering closely to observed natural phenomena and avoiding popular discussions of suppositious events.

A. H. Thiessen: "An explanation of wireless telegraphy" (December, 1902). This article is very popularly written and abundantly illustrated; it has been widely praised as a very clear, simple, popular, and scientifically correct exposition of a subject in which all are interested and which may eventually become of great importance in the daily work of the Weather Bureau.

S. J. Allen: "Radio-activity of freshly fallen snow" (December, 1902). The author has extended the work of C. T. R. Wilson, on freshly fallen rain, and has shown that snow as well as rain brings down a radio-active substance from the upper atmosphere. It follows, from the researches of Elster and Geitel and J. J. Thomson, that this radio-active substance must consist of molecules charged with negative electricity, or the so-called negative ions. As moisture condenses most easily on the negative ions, it should follow that in the upper atmosphere there is left behind an excess of positive ions, or positive electricity, thereby explaining the existence of the so-called atmospheric electricity.

H. Ebert: "Atmospheric electricity considered from the standpoint of the theory of electrons" (May, 1903). This is the best popular exposition that has as yet been published on the present state of knowledge of atmospheric electricity. It enables us to understand the many difficulties that have hitherto stood in the way of utilizing observations of atmospheric electricity for storms and other predictions. It also furnishes ground for hope that the new methods of observation perfected by Elster and Geitel and Ebert will make it possible to obtain from many stations electrical data that shall be comparable among themselves and be useful in the work of forecasting. As Ebert says, "We have acquired a point of view that promises to contribute very much to the solution of problems that are centuries old."

H. H. Kimball: "Abnormal variations in insolation" (May, 1903). As one of the results of Mr. Kimball's work at Asheville, N. C., he was able to point out that during January, February, and March, 1903, there was received at his locality decidedly less solar heat than was to be expected. A similar observation was made by Monsieur Dufour at Lausanne, Switzerland, and some irregularities of the same kind at Montpellier, France, in the years 1884–1886 were pointed out by Mr. C. G. Abbot in the Monthly Weather Review for April, 1902. It is at present impossible to state with certainty whether these sudden diminutions in insolation are due to changes on the sun's surface or to increased absorption in special parts of the earth's atmosphere. The latter idea is the most plausible, and it remains to be ascertained whether the absorption was produced by dust and moisture in the atmosphere, and if so, where these came from.

W. N. Shaw: "Meteorological observations obtained by the use of kites" (May, 1903). The importance of the atmospheric data attainable by the use of kites is appreciated more highly every year. Considerable work of this kind was accomplished under the auspices of the Royal Meteorological Society during July and August, 1902, by forty kite ascensions from the deck of a tug steaming off the west coast of Scotland. Mr. Shaw furnishes an abstract of the results, showing especially the temperature gradient for each 500 meters of vertical height above the surface of the ocean; the average gradient is almost identical with the so-called adiabatic rate for saturated air and also with the temperature gradient used in reducing temperatures to sea level, viz, 1° F. per 300 feet, as originally adopted by Espy and still used in England. The author adopts the explanation that for these lower altitudes the air flowing from the ocean eastward and forced to rise above the Scottish mountains must be mechanically raised, and becomes,

therefore, practically subject to the adiabatic gradient, which is not reached in the free atmosphere, except when the air is rapidly rising or falling. The most remarkable result of the highest balloon explorations has been to show that at great elevations the air is also frequently found to show the adiabatic gradient of temperature, and must, therefore, be recognized as probably in a state of rapid rise or fall.

Prof. J. R. Plumandon: "Cannon and hail" (summary, 1902). As the reports of the various international conferences on the efficiency of cannonading against hailstorms have been frequently misquoted, Professor Plumandon, as secretary of the congress, has prepared this summary of results, and concludes with this admonition to American readers: "Before undertaking the protection of your crops by cannonading wait until that method of protection has furnished good results in the countries where it is now being tried."

Louis Besson: "The vertical component of the movement of clouds" (January, 1903). The general use of the nephoscope in determining the heights and movements of clouds is so important that this contribution to the literature of the subject is very welcome. The so-called vanishing-point nephoscope, described by Professor Abbe in his "Treatise on meteorological apparatus and methods," can be used with especial convenience to carry out the investigation described by Mr. Besson; it did, indeed, as there stated, as early as 1872, lead to the visible demonstration of the fact that in the neighborhood of the center of low pressure the clouds on opposite sides of the horizon have slightly different movements, both horizontally and vertically, so that the presence and location of the central low is easily determined.

J. R. Benton: "Elasticity at low temperatures" (January, 1903). The results of this memoir bear directly upon the construction of meteorographs for use in the low temperatures that are continually occurring in meteorology. The author shows that steel springs may be relied upon at temperatures where other materials fail, and that the law of change of elasticity is quite regular, though not as great as the change that takes place in india rubber or in fusible metals.

Prof. A. G. McAdie: "High wind records on the Pacific coast" (February, 1903) and "High winds at Point Reyes light" (May, 1903). In these articles, with the accompanying note by Professor Marvin, we have apparently reliable records of northwest gales whose extreme velocity measured 120 miles per hour during gusts of a minute's duration and whose movement for a whole hour was 78 miles. For eight consecutive days the velocity varied between 46 and 70 miles per hour. The fact that such a record can be maintained without interruption is a high tribute to the excellence of the anemometer, the recording apparatus, and the faithful attention given to these by the observer, Mr. W. W. Thomas.

Charles A. Mixer: "The water equivalent of snow on the ground" and "River floods and melting snow" (April, 1903). These papers give exact data in reference to an important subject on which we have hitherto had indefinite ideas. The snow lying on the ground at the end of winter is in many locations the sum total of the winter snowfall, only slightly diminished by an occasional thaw and compacted into a dense mass. The sudden melting of this snow in the warm weather and sunshine of spring, and especially by the influence of the warm spring rains, forms the most important constituent of dangerous spring floods in our northern rivers. Mr. Mixer very properly urges that every rainfall and river station should keep a record of the water equivalent of the snow lying on the ground just as it does of each fresh snowfall. In some cases quoted by him 38 inches of snow on the ground gave 10.5, 20 inches gave 9.8, and 19 inches gave 6.1 inches of water.

E. Buckingham: "On the radiation formulas and on the principles of thermometry" (April, 1903). This is an exposition of the proper method of applying various empirical formulæ for the observed quantity of radiation from any surface to the determination of the actual temperature of the radiating surface. Mr. Buckingham's exposition is applicable, not only to the determination of the temperature of the surfaces from which radiant heat is received, but also to the investigation of the theory of the errors of Angström's pyrheliometer and of similar apparatus.

D. T. MacDougal: "The influence of light and darkness upon the growth and development of plants" (April, 1903). This is a summary by Dr. R. H. Pond of the results attained by Professor MacDougal in many years of most careful experimentation. The subject is one that is fundamental in the study of the relation between climatology and plant life, and it prepares the way for the proper study of many problems in the economy of plant life and for the intelligent application to the needs of the farmer of the observed Weather Bureau data relative to sunshine, cloudiness, temperature, and rainfall.

Henry L. Abbott: "Climatology of the Isthmus of Panama" (March and April, 1903). In these articles General Abbott, by combining all accessible information, has been able to give a rational explanation of the observed oscillations of rainfall, temperature, and wind in this tropical region. He has also been able to deduce reliable values of the monthly and annual mean barometric pressures reduced to sea level.

H. W. Richardson: "Composite and other arrangements of weather types" (February, 1903). In this paper the author explains the method he has used for several years in collecting together weather maps of the same type and assorting them for study. He classifies them as composite and associate types. He notes that there is an apparent tendency of the centers of high and low areas to move (in twenty-four hours) from the center of an area of positive or negative twenty-four-hour pressure change to the edge of the same area.

W. M. Fulton: "The automatic river gage at Chattanooga, Tenn." (May, 1903). This apparatus, as invented by Mr. Fulton, consists of two parts, one at the river which measures the stage of water, and the other at the Weather Bureau station which records the stage of water. The two parts are connected by a telegraph line. Analogous apparatus has been constructed from time to time by others for recording both river and other natural phenomena, but as a rule the difficulty of maintaining the line intact and the uncertainty of electrical apparatus in

general has led to the abandonment of the method. In the present case Mr. Fulton has overcome several instrumental difficulties, and as the apparatus has worked satisfactorily for several months copies of it have been desired for other stations.

Weather Bureau men as instructors: Among the numerous "Notes by the editor," attention is especially called to those dealing with the work done by employees of the Bureau along educational lines. Rather elaborate courses of instruction are given at Columbian University, Washington, D. C.; the University of Cincinnati, Cincinnati, Ohio; the Medical College of Virginia, Richmond, Va.; Buchtel College, Akron, Ohio; Johns Hopkins University, Baltimore, Md.; the medical department of the University of Missouri, Columbia, Mo.; the Kentucky State College, Lexington, Ky.; Norwich University, Northfield, Vt.; the Ohio State University, Columbus, Ohio; Yale University, New Haven, Conn.; Cornell University, Ithaca, N. Y.; Mercer University, Macon, Ga.; the University of Tennessee, Knoxville, Tenn.

In all these cases the course of instruction averages about two hours per week during at least four months, or one hour weekly for the whole college year. In general, the educational work is so arranged as not to interfere with official station duties and is done without additional compensation, except that in some cases a small honorarium is offered. Further details are given in the Monthly Weather Review for April, 1903.

ACCOUNTS DIVISION.

In regard to Mr. Almerico Zappone, assistant chief of the Division of Accounts and Disbursements of the Department, who is assigned to charge of the accounts of the Weather Bureau, I desire to make a special recommendation. During a long experience in the Weather Bureau service (twenty-three years) this official has been distinguished by his exemplary conduct and a most faithful and intelligent performance of the exacting duties devolving upon him. In three Bureaus, whose appropriations are comparable with the appropriation made for this service, the salaries paid to the disbursing officials are greater than Mr. Zappone's by $500, although with one exception the money handled by him at this office is in excess of that handled in the others. His work is also subject to the supervision of the disbursing officer of the Department, and I have every reason to believe that that officer will join me in the earnest recommendation I now make that Mr. Zappone's salary be advanced from $2,000 to $2,500 per annum.

BUILDINGS ERECTED, REPAIRED, AND IMPROVED.

During the past two fiscal years, through the appropriations by Congress, it has been possible to erect buildings for use as meteorological observatories for the Weather Bureau at the following-named places:

Atlantic City, N. J.:	
Cost of lot (Government reservation); cost of building	$6,000.00
Hatteras, N. C.:	
Cost of lot, $125; cost of building, $4,875	5,000.00
Fort Canby (North Head), Wash.:	
Cost of lot (Government reservation); cost of building	3,992.63
Port Crescent, Wash.:	
Cost of lot (Government reservation); cost of building	1,000.00
Tatoosh Island, Wash.:	
Cost of lot (Government reservation); cost of building	4,950.00
Point Reyes, Cal.:	
Cost of lot (Government reservation); cost of building	2,989.90
Amarillo, Tex.:	
Cost of lot, $1,255; cost of building, $6,503	7,758.00
Modena, Utah:	
Cost of lot (Government reservation); cost of building	4,346.00
Key West, Fla.:	
Cost of lot, $2,020; cost of building, $7,994.75	10,014.75
Sand Key Island, Fla.:	
Cost of lot (Government reservation); cost of building	5,593.00
Southeast Farallone, Cal.:	
Cost of lot (Government reservation); cost of building	5,211.22
Mount Weather, Va.:	
Cost of lot, $1,413.90; cost of building, $15,663.13	17,077.03
Total	73,932.53

In addition, it has been possible to repair and improve the following buildings at the total cost set opposite each, viz:

Bismarck, N. Dak	$7,064.14
Jupiter, Fla	3,358.00
Kittyhawk, N. C	125.00
Cape Henry, Va	5,104.25
Total	15,651.39

BUILDINGS IN COURSE OF ERECTION.

Buildings are now in course of erection at the following places:

Yellowstone Park, Wyo.:	
Cost of lot (Government reservation); cost of building	$11,500
Duluth, Minn.:	
Cost of lot, $2,100; cost of building, $7,900	10,000
Devils Lake, N. Dak.:	
Cost of lot, $2,300; cost of building, $8,000	10,300
Havre, Mont.:	
Cost of lot, $1,850; cost of building, $5,700	7,550
Mount Weather, Va.:	
Cost of lot, $650; cost of building, $10,000	10,650
Block Island, R. I.:	
Cost of lot, $1,100; cost of building, $7,700	8,800
Narragansett Pier, R. I.:	
Cost of lot, $4,100; cost of building, $8,000	12,100
Total	70,900

AREA OF LAND OWNED BY THE WEATHER BUREAU.

The area of land purchased by the Weather Bureau during recent years, or transferred to that Bureau by the various branches of the Government, is as follows:

		Area.
Atlantic City, N. J	square feet	5,000
Cape Henry, Va	acre	½
Hatteras, N. C	do	½
Jupiter, Fla	do	½
Kittyhawk, N. C	do	¼
North Head, Washington	do	½
Point Reyes light, California	do	½
Port Crescent, Wash	do	1
Sault Ste. Marie, Mich	square feet	2,000
Tatoosh Island, Washington	acre	½
Yuma, Ariz	do	1
Amarillo, Tex	do	⅔
Key West, Fla	do	⅔
Bismarck, N. Dak	acres	3
Sand Key, Fla	square feet	2,500
Southeast Farallone, California	acre	½
Mount Weather, Virginia	acres	77¼
Modena, Utah	acre	1
Yellowstone Park, Wyo	do	1
Duluth, Minn	do	½
Devils Lake, N. Dak	do	⅔
Havre, Mont	do	⅛
Block Island, R. I	acres	1¼
Narragansett Pier, R. I	do	1½
Total area (about)		94

The wisdom of the Weather Bureau in erecting and owning its own buildings becomes more apparent each day. It not only saves to the Government the amount heretofore paid for rent of office quarters, which in many cases are unsuited to our needs, especially as regards the archi-

tecture of the roofs for the exposure of meteorological instruments, but places the Weather Bureau on a footing of equality with other branches of the Government service, such as the Light-House Board and Life-Saving Service. Aside from this, they provide living accommodations for our employees, who are so often required to remain on duty both day and night, add dignity to the service, and compel more respect from the general public for our forecasts.

PROPOSED BUILDINGS.

It is planned to erect buildings at all places where the service is now represented and is paying rent for office quarters, if the population of the place is less than 25,000, and it is hoped that Congress will continue to appropriate a small amount for the purpose annually. It is found that when the population of a place is under 25,000 it is a difficult matter to get suitable accommodations, with good roof facilities, and as a result the accuracy of observations is often affected.

When these buildings are thus dotted over the country and equipped with modern self-registering apparatus it can truly be said that the weather service of the United States is the finest in the world.

The following list shows the places under 25,000 population where the Government is now paying rent for Weather Bureau accommodations, and where buildings should be erected:

Places where buildings should be erected.

Place.	Population.	Rent paid.	Place.	Population.	Rent paid.
Abilene, Tex	3,411	$381.80	Moorhead, Minn	3,730	$265.25
Alpena, Mich	11,802	211.36	Mount Tamalpais, Cal		420.00
Asheville, N. C	14,684	300.00	Nantucket, Mass	3,006	263.00
Baker City, Oreg	6,683	450.00	North Platte, Nebr	3,640	339.50
Birmingham, Ala	24,000	720.00	Oklahoma, Okla	10,037	510.00
Boise, Idaho	5,957	480.00	Palestine, Tex	8,297	314.00
Cape May, N. J	2,257	420.00	Phoenix, Ariz	5,544	480.00
Cheyenne, Wyo	14,087	620.00	Pierre, S. Dak	2,306	240.00
Columbia, S. C	21,108	360.00	Pocatello, Idaho	4,046	360.00
Concord, N. H	19,632	300.00	Raleigh, N. C	13,643	240.00
Concordia, Kans	3,401	292.00	Rapid City, S. Dak	1,342	378.00
Corpus Christi, Tex	4,703	259.00	Red Bluff, Cal	2,750	396.25
Dodge, Kans	1,942	355.65	Roseburg, Oreg	1,690	339.00
East Clallam, Wash	32	72.00	San Diego, Cal	17,700	384.00
Elkins, W. Va	2,016	288.00	San Luis Obispo, Cal	3,021	300.00
Escanaba, Mich	9,549	540.00	Santa Fe, N. Mex	5,603	420.00
Eureka, Cal	7,327	368.80	Tampa, Fla	15,839	328.75
Fresno, Cal	12,470	378.00	Taylor, Tex	4,211	575.00
Flagstaff, Ariz	1,271	600.00	Twin, Wash		100.00
Grand Junction, Colo	3,503	480.00	Valentine, Nebr	811	420.00
Green Bay, Wis	18,684	297.00	Wallawalla, Wash	10,049	310.80
Helena, Mont	10,770	588.00	Wichita, Kans	24,671	340.00
Houghton, Mich	3,359	375.00	Williston, N. Dak	763	450.00
Huron, S. Dak	2,793	500.00	Winnemucca, Nev	1,000	268.00
Independence, Cal	407	360.00	Wytheville, Va	3,003	400.00
Kalispell, Mont	2,526	270.00	Yankton, S. Dak	4,125	300.00
Lander, Wyo	737	351.00			
Lewiston, Idaho	2,425	420.00	Total amount of rentals		21,089.16
Lynchburg, Va	18,891	250.00	Total cost of buildings and sites		570,000.00
Marquette, Mich	10,058	360.00			
Miles City, Mont	1,938	300.00			

During the past several years Congress has authorized the construction of five or six observatories each year. It is recommended that the appropriation for this purpose be the same as last year, $50,000.

PRINTING AND PUBLICATIONS.

Printing of weather maps, forecast cards, meteorological forms, and bulletins was continued as usual.

The printing of postal cards decreased from 31,000,000 to 20,000,000, but the number of paper slips used in the distribution of forecasts by free rural carriers increased from 15,500,000 to 25,000,000.

Over 55,000,000 pieces of printed matter were sent out, of which 20,000,000 were prepared in the office of the Bureau; the remainder were printed at the Government Printing Office. In this number are included 8,500,000 station maps, one-half of which were printed at the Bureau.

The Monthly Weather Review has been given a complete new typographical dress, and a fine quality of paper has been adopted, so that its mechanical appearance has been greatly improved.

A duplicate dynamo has been installed and the efficiency of the engines has been increased by about 8 horsepower as a result of belting them direct to the generators.

DIVISION OF SUPPLIES.

The operations of this division embrace the drawing of requisitions for supplies for the use of the Bureau; the receipt and inspection of the same; the drawing of transportation requests for transportation of supplies to and from stations; the examination of all accounts for purchase and transportation; the keeping of the record of all supplies received by purchase and otherwise, either in this city or at stations; the examination of property returns rendered annually, showing the accountability of observers for public property in their custody; the disposition of useless and condemned property, and the rendition annually of returns of all property used in the Bureau and for issue to stations. These duties have been well performed.

In accordance with plans made several years ago, and which have been generally put into effect, nearly all stations are now equipped with first-class standard furniture and equipment, thus putting the stations in a far better working condition than ever before.

SUPPLIES AND EQUIPMENT FOR CENTRAL OFFICE.

In caring for the buildings and grounds occupied by the Weather Bureau in the city of Washington the additional sum of $3,000 will be required during the next fiscal year. In 1894 the amount appropriated for this purpose was $9,700 (including hire of laborers, $2,800); in 1903 the amount was $10,000, and for the present fiscal year it is $6,000 (the salaries of the laborers previously on that roll, amounting to about $4,000, having been transferred to the statutory roll of the office), from which it will be seen that the actual sum available for repairs and improvements to the buildings and grounds during the present fiscal year is less than it was eleven years ago, while the cost of materials has advanced and the buildings have deteriorated. The increased cost of fuel alone for the present year is about $500, and the total amount required for fuel and gas is $3,500, leaving only $2,500 for repairs to the buildings and grounds, which is insufficient for the purpose. The main building is in need of extensive repairs to preserve it; the storehouses and annex buildings erected a few years ago now require repairs; the engine room needs new boilers for burning hard coal, thereby complying with the District law in regard to smoke; and the grounds are also in need of improvements to preserve them, especially the old concrete roadways, which should be replaced. These matters have been deferred for several years, but now require attention.

In supplying the necessary furniture, stationery, and other supplies for the equipment of the central office the additional sum of $3,000 will be required during the next fiscal year. In 1894 the amount appropriated by Congress for this purpose was $13,700, since which time it has been reduced until now the amount is only $8,000, a decrease of $5,700 over the amount required eleven years ago, notwithstanding that during this period the service has expanded very much and the cost of supplies has increased from 20 to 30 per cent. Many of the rooms in the main building are in need of suitable office equipment, such as carpets, file cases, and other furniture, but it has been impossible to supply the same out of the small amount appropriated, which is barely sufficient to purchase the stationery required for ordinary office use.

PERSONNEL.

CLASSIFIED SERVICE.

APPOINTMENTS.—During the last fiscal year 95 appointments were made to the classified service, of which number 82 were of persons certified by the Civil Service Commission for positions with salaries ranging from $360 to $1,000 per annum; 5 were by transfer from other

Departments, at salaries from $630 to $1,250 per annum, and 8 by reinstatement, at salaries from $360 to $1,250 per annum.

PROMOTIONS.—During the same period 83 promotions were ordered, all by advancement to the next higher grade.

In making these promotions the Secretary of Agriculture has not only recognized efficiency, but length of service as well. The 5 men promoted to the $2,000 grade had served from eighteen to thirty-one years; the 4 promoted to $1,800, from eight to twenty-seven years; the 1 promoted to $1,600, twenty-five years; the 4 to $1,500, eight to twenty-two years; the 1 to $1,400, five years; the 5 to $1,300, eight to eighteen years; the 13 to $1,200, two to twenty-three years; the 12 to $1,000, two to eight years; the 5 to $900, two to nine years; the 1 to $840, nine months; the 4 to $720, five to eight years; the 2 to $600, seven to eight years; the 24 to $480, one to eight years, and the 2 to $450, two to three years. It will be noted that no employee was promoted until he had served at least nine months in the lower grades; that no employee reached the $1,600 grade until he had given eight years of service, while no promotion to $2,000 was made until after a service of eighteen years.

REDUCTIONS.—During the year 19 reductions were ordered. Fourteen were due to the exigencies of the service (mostly changes of station assignments requested by the employee or necessitated by the public needs) and were without personal prejudice. Two were for laxness in the care and preparation of records, want of system in organizing and directing work, and generally unsatisfactory condition of station; 1 for neglect of duty and intemperance, and 2 for physical disability.

RESIGNATIONS.—There were 56 resignations, all but 2 voluntary. Nine were tendered by lower-grade employees who were examined and certified by the Civil Service Commission for higher positions in the Bureau. Of the 2 resignations requested, 1 was for intemperance and neglect of duty, and 1 for excessive absence with and without pay.

REMOVALS.—Seven discharges were made, all for cause, as follows: Intoxication, neglect of duty, and absence without leave, 1; unsatisfactory service, 4; absence without leave, 1; disobedience of orders, 1.

DEATHS.—Two deaths were recorded.

UNCLASSIFIED SERVICE.

But 4 appointments to the unclassified service were made during the year, and these were at salaries ranging from $300 to $600 per annum, and but 1 promotion was made, from $600 to $660, after a service of four years. There were 8 resignations, all voluntary, and no reductions.

The removals in the unclassified service numbered 8. One was without prejudice to the employee, his services being no longer needed (and his place remaining unfilled). Four were replaced by classified employees. Two were discharged for unsatisfactory services, and 1 for disobedience of instructions and absence without leave.

EMPLOYEES OF THE BUREAU.

The following shows the number and classes of employees of the Bureau, both those stationed at Washington, D. C., and those stationed outside of the city:

Numerical strength of the Weather Bureau, July 1, 1903.

At Washington, D. C.:		
Classified	162	
Unclassified	18	
		180
Outside of Washington, D. C.:		
Classified	479	
Unclassified	16	
		495
Total commissioned employees		675

Additional employees outside of Washington, D. C.:		
River observers	213	
Storm-warning display men	147	
Cotton-region observers	140	
Corn and wheat region observers	132	
Rainfall observers	64	
Fruit and wheat region observers	20	
Sugar and rice region observers	9	
Total noncommissioned employees		725
Total paid employees		1,400
Voluntary observers		3,470
Voluntary crop correspondents		13,836
Total numerical strength		18,706

SALARIES.

In the classified grades the highest salary per annum is $3,000, the lowest $360, and the average $1,036.34. In the unclassified grades the highest salary per annum is $720, the lowest $240, and the average $457.94. The compensation of employees at substations (storm-warning display men, river observers, etc.), ranges from 20 cents to 67 cents per day, and their hours of duty from twenty minutes to one hour per day. Public-spirited citizens, cooperating with the Bureau in the capacity of voluntary observers and crop correspondents, serve without compensation other than the receipt of such publications of the Department as may be of interest and value to them.

THE EFFECT OF THE CIVIL-SERVICE LAW AND REGULATIONS.

It is a pleasure to report that both the letter and the spirit of the civil-service law and regulations have been fully complied with in the Weather Bureau, strict adherence to which has not only facilitated the transaction of business, but has produced a marked and steady improvement in the discipline and efficiency of this branch of the public service. It is rare to-day that any Weather Bureau employee seeks advancement by irregular methods, and this is due to the fact that it is well known to all connected with the Bureau that advancement may be secured solely through merit and efficiency.

Close attention has been given all rules of the Civil Service Commission, as promulgated from time to time, and I am able to report that there is no case in the Bureau of an unclassified employee performing duties that should be done by a classified employee. By reference to the foregoing tabular statement it will be noted that of 675 commissioned employees but 34 are unclassified. It is a significant fact that under the operations of a merit system that covers every employee in the Weather Bureau, the working force in its central office has actually decreased, while the volume of business has increased at least 20 per cent. In 1895 there were employed in the Weather Bureau at Washington 198 employees; on July 1, 1903, the number was 180, or a decrease of 18 in the working force.

NEW STATIONS.

There are eight places at which full Weather Bureau meteorological stations should be established. At these places observations would be useful in the making of daily forecasts for the country at large, and there are important local interests that would be served; these places are important as distributing centers for daily weather maps and forecasts. I therefore recommend that $20,000 be added to the appropriation for "General expenses" and $20,000 to "Salaries," outside of Washington, which will be needed if these stations be established.

RECAPITULATION OF INCREASES RECOMMENDED.

The increases in appropriations recommended in the foregoing report are as follows:

For improved daily weather maps:	
Material and supplies	$35,000
Salaries	20,000
For extension of river and flood service:	
Material, supplies, and pay of observers	30,000
Salaries at central office	5,840
For climate and crop service: Salaries	750
For care of meteorological records: Salaries	4,400
For cables:	
South Manitou to North Manitou, Mich	2,000
Port Angeles to Tatoosh Island, Washington, and from Flavel, Oreg., to Fort Canby, Wash.	90,000
Improvement of line between Cape Hatteras and Cape Henry, and its extension to Roanoke Island, North Carolina	10,000
For telegraphing observations and forecasts	50,000
For supplies and equipment for central office	3,000
For repairs to buildings and grounds at central office	3,000
For eight new stations:	
Supplies	20,000
Salaries	20,000
Total increase	293,990

PART II.

LIST OF OBSERVING STATIONS AND CHANGES THEREIN DURING 1902.

HOURLY AVERAGES OF ATMOSPHERIC PRESSURE, TEMPERATURE, AND WIND FROM THE RECORDS OF AUTOMATIC INSTRUMENTS AT TWENTY-EIGHT STATIONS.

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LIST OF OBSERVING STATIONS.

The following table contains the geographic coordinates of the several stations whose summaries are published in Part III, the adopted height of the barometer cistern above mean sea level, and of other instruments above ground, the difference between local mean and standard time, and the date on which observations began. The standard time used by the Weather Bureau in all of its synchronous work is that of the seventy-fifth meridian (Eastern time), which standard is always understood, unless otherwise expressed.

The elevations of the barometers are those adopted January 1, 1900, except at stations established since that date. They are the results of precise levels, and are known as the "station elevation."

Any change in the elevation of the remaining instruments is shown by the figures immediately below, and the date of such change is given on the margin of the table.

The significance of the bold-face letter or letters following the name of station is as follows:

P=continuous records of pressure (on December 31, 1902);
T=continuous records of temperature (on December 31, 1902);
W=continuous records of wind (direction and velocity) (on December 31, 1902);
V=continuous records of wind (velocity only) (on December 31, 1902);
R=continuous records of rainfall (on December 31, 1902);
S=continuous records of sunshine (on December 31, 1902).

Stations having no letter make an observation of temperature, precipitation, direction of the wind, and the state of the weather daily at 8 p. m.

Summary of stations in operation during the year.

Taking two observations daily (all elements)	147
Taking one observation daily (all elements)	26
Taking one observation daily (temperature, rainfall, wind, and weather)	9
Taking one observation daily (temperature and rainfall only, *cotton region*)	153
Taking one observation daily (temperature and rainfall only, *corn and wheat region*)	130
Taking one observation daily (temperature and rainfall only, *fruit and wheat region*)	20
Taking one observation daily (river and rainfall only)	150
Taking one observation daily (rainfall only)	59
Total paid stations	694
Voluntary stations, about	2,565
Grand total	3,259

TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS.

Stations.	Latitude.	Longitude.	Local meridian time, faster or slower than 75th meridian.	Elevation Dec. 31, 1902. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Date of changes in elevation.
	° ′	° ′	*h.* *m.*	*Feet.*	*Feet.*	*Feet.*	*Feet.*		
Abilene, **PTW**	32 23	99 40	1 39 S.	1,738	45	36	54	Sept. 14, 1885	
Albany, **PTWRS**	42 39	73 45	05 F.	97	102	100	115	Dec. 22, 1873	
Alpena, **PTWRS**	45 05	83 30	34 S.	609	63	54	80	Sept. 10, 1872	
Amarillo, **PTWR**	35 13	101 50	1 47 S.	3,676	54	46	61	Jan. 1, 1892	
Asheville, **PTWRS**	35 36	82 32	30 S.	2,255	73	62	100	Aug. 22, 1902	
Astoria, **PV**	46 11	124 00	3 16 S.	20	57	36	64	Nov. 1, 1883	
Atlanta, **PTWRS**	33 45	84 23	38 S.	1,174	190	182	216	Sept. 25, 1878	
Atlantic City, **PTWRS**	39 22	74 25	02 F.	52	68	58	76	Dec. 10, 1873	
					39	32	48	.....	Jan. 22, 1902

TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS—Continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation Dec. 31, 1902.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.		
	° ′	° ′	h. m.	Feet.	Feet.	Feet.	Feet.		
Augusta, P T W R S	33 28	81 54	28 S.	180	89	54	103 97	Nov. 2, 1870	Apr. 3, 1902
Baker City, T V	44 50	117 50	2 51 S.	3,471	53	40	58 59	July 9, 1889	July 5, 1902
Baltimore, P T W R S	39 18	76 37	06 S.	123	68 69	73	82 117	Jan. 1, 1871	Oct. 1, 1902
Binghamton, P T W R S	42 08	75 55	04 S.	875	79	71	90	Oct. 1, 1896	
Bismarck, P T W R S	46 47	100 38	1 43 S.	1,674	16	2	29	Sept. 15, 1874	
Block Island, P T W R S	41 10	71 36	14 F.	26	11	3	70 60	Sept. 1, 1880	July 18, 1902
Boise, P T W R S	43 37	116 08	2 45 S.	2,739	61	51	68	July 1, 1877	
Boston, P T W R S	42 21	71 04	16 F.	125	115	154	181	Nov. 1, 1870	
Buffalo, P T W R S	42 53	78 53	16 S.	767	178	168	206	.....do.....	
Cairo, P T W R S	37 00	89 10	57 S.	356	87	80	93	June 1, 1871	
Cape Henry, P T W R S	36 56	76 00	04 S.	18	5 11	3 43	58	Dec. 15, 1873	June 1, 1902
Cape May, T V	38 56	74 51	01 F.	17	47	39	51	July 16, 1897	
Carson City, P T W R S	39 10	119 46	2 59 S.	4,720	82	77	92	Dec. 1, 1887	
Charleston, P T W R S	32 47	79 56	20 S.	48	14	76	92	Jan. 5, 1871	
Charlotte, P T W R S	35 13	80 51	23 S.	773	68	60	76	Oct. 6, 1878	
Chattanooga, P T W S	35 04	85 14	41 S.	762	106	98	112	Sept. 12, 1875	
Cheyenne, P T W R S	41 08	104 48	1 59 S.	6,088	56	49	64	Nov. 1, 1870	
Chicago, P T W R S	41 53	87 37	50 S.	823	241	238	274	.....do.....	
Cincinnati, P T W R S	39 06	84 30	38 S.	628	152	145	157 160	.....do.....	Aug. 29, 1902
Cleveland, P T W R S	41 30	81 42	27 S.	762	190	163	201	Nov. 1, 1870	
Columbia, Mo., P T W R S	38 57	92 14	1 09 S.	784	4 11	3	84	Aug. 21, 1889	Jan. 1, 1902
Columbia, S. C., P T W R S	34 00	81 03	24 S.	351	114	107	122	June 5, 1887	
Columbus, P T W R S	39 58	83 00	32 S.	824	87 173	81 171	100 190	July 1, 1878	June 1, 1902
Concord, P T W R S	43 12	71 32	14 F.	298	70	62	79	Nov. 1, 1902	
Concordia, V	39 35	97 41	1 31 S.	1,398	42	34	47	May 1, 1885	
Corpus Christi, P T W R S	27 49	97 25	1 30 S.	20	48	38	53	Feb. 1, 1887	
Davenport, P T W R S	41 30	90 38	1 03 S.	606	71	64	79	May 24, 1871	
Denver, P T W R S	39 45	105 00	2 00 S.	5,291	79	74	151	Nov. 19, 1871	
Des Moines, P T W R S	41 35	93 37	1 14 S.	861	84	75	88 99	July 29, 1877	Feb. 26, 1902
Detroit, P T W R S	42 20	83 03	32 S.	730	153	147	193	Nov. 1, 1870	
Dodge, P T W R S	37 45	100 00	1 40 S.	2,509	44	36	52 54	Sept. 15, 1874	Oct. 7, 1902
Dubuque, P T W R S	42 30	90 44	1 03 S.	698	101 100	92 95	109 117	July 2, 1873	Jan. 6, 1902
Duluth, P T W R S	46 47	92 06	1 08 S.	702	95	90	116	Nov. 1, 1870	
Eastport, P T W R S	44 54	66 59	32 F.	76	69	62	74 82	Apr. 1, 1873	Oct. 29, 1902
Elkins, P T W R S	38 53	79 49	19 S.	1,940	41	34	50	Jan. 1, 1899	
El Paso, P T W	31 47	106 30	2 06 S.	3,762	10	2	110	Apr. 1, 1878	
Erie, P T W R S	42 07	80 05	20 S.	713	92	82	102	May 25, 1873	
Escanaba, P T W R S	45 48	87 05	48 S.	612	43	37	57	May 24, 1871	
Eureka, P T W S	40 48	124 11	3 17 S.	62	62	53 54	80	Jan. 1, 1887	July 7, 1902
Evansville, P T W R	37 58	87 33	50 S.	431	72	66	82	Dec. 1, 1897	
Flagstaff, T W	35 12	111 37	2 26 S.	6,907	12	3	25	Sept. 9, 1898	
Fort Smith, P T W R S	35 22	94 24	1 18 S.	457	79	72	94	Apr. 13, 1879	
Fort Worth, P T W R S	32 43	97 15	1 29 S.	670	106	3	114	Sept. 1, 1898	
Fresno, P T W R S	36 43	119 49	2 59 S.	330	67	54	70	Aug. 18, 1887	
Galveston, P T W R S	29 18	94 50	1 19 S.	54	106	98	112	Apr. 19, 1871	
Grand Haven, P T W R S	43 05	86 13	45 S.	632	54	48 49	92	May 24, 1871	May 19, 1902
Grand Junction, P T W R S	39 09	108 33	2 14 S.	4,608	43	36 41	51 57	Jan. 1, 1899 Sept. 1, 1886	
Green Bay, P T W R S	44 31	88 00	52 S.	617	49	 43	86	....	Feb. 1, 1902 Apr. 19, 1902
Hannibal, P T V R	39 41	91 20	1 05 S.	534	75	68	110	Apr. 16, 1892	
Harrisburg, P T W R S	40 16	76 52	07 S.	374	94	87	104	July 1, 1888	

TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS—Continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation Dec. 31, 1902. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Date of changes in elevation.
	° ′	° ′	h. m.	Feet.	Feet.	Feet.	Feet.		
Hatteras, P W R S	35 15	75 40	03 S.	11	17	3	42	Dec. 1, 1880	
					12	34	47	.....	Jan. 1, 1902
Havre, P T W	48 34	109 40	2 19 S.	2,505	46	38	53	May 16, 1892	
Helena, P T W S	46 34	112 04	2 28 S.	4,110	88	80	94	Apr. 1, 1880	
Houghton, P T W S	47 03	88 34	54 S.	668	66	57	74	Aug. 26, 1900	
Huron, P T W R S	44 21	98 14	1 33 S.	1,306	56	52	67	July 1, 1881	
Independence, P T W S	36 48	118 12	2 53 S.	3,910	51	43	58	Dec. 1, 1894	
Indianapolis, P T W R S	39 46	86 10	45 S.	822	154	146	164	Feb. 10, 1871	
Ithaca, P T W R S	42 27	76 29	6 S.	-----	-----	-----	-----	-----	
Jacksonville, P T W R S	30 20	81 39	27 S.	43	69	59	84	Sept. 11, 1871	
					101	88	129	.....	Aug. 1, 1902
Jupiter, P W R S	26 57	80 07	20 S.	28	10	3	30	Jan. 1, 1888	
Kalispell, P T W R S	48 10	114 25	2 38 S.	2,965	45	37	51	May 3, 1899	
Kansas City, P T W R S	39 05	94 37	1 18 S.	963	78	81	95	Apr. 21, 1873	
Keokuk, P V	40 22	91 26	1 06 S.	614	63	56	78	July 16, 1871	
Key West, P T W R S	24 34	81 49	27 S.	22	43	34	50	Nov. 1, 1870	
Kittyhawk, V	36 00	75 42	03 S.	8	12	2	30	Jan. 15, 1875	
Knoxville, P T W R S	35 56	83 58	36 S.	1,004	10	3	88	Jan. 20, 1871	
La Crosse, P T W R S	43 49	91 15	1 05 S.	714	70	61	78	Oct. 15, 1872	
					71	63	87	.....	Mar. 1, 1902
Lander, P T W S	42 50	108 45	2 15 S.	5,372	26	17	36	Aug. 1, 1891	
Lansing, P T W R S	42 44	84 32	38 S.	881	72	3	79	Feb. 1, 1895	
Lewiston, P T W R S	46 25	117 02	2 48 S.	757	52	45	61	Oct. 1, 1900	
Lexington, P T W R S	38 02	84 33	38 S.	989	75	68	102	Oct. 1, 1872	
Lincoln, P T W R S	40 49	96 45	1 27 S.	1,189	75	4	84	Aug. 8, 1894	
Little Rock, P T W R S	34 45	92 06	1 08 S.	357	93	85	100	Apr. 21, 1873	
Los Angeles, P T W R S	34 03	118 15	2 53 S.	338	74	66	82	July 1, 1877	
					116	108	123	.....	Oct. 14, 1902
Louisville, P T W R S	38 15	85 45	43 S.	525	114	107	136	Sept. 11, 1871	
Lynchburg, P T W R S	37 25	79 09	17 S.	681	83	76	88	May 24, 1871	
						77	-----	.....	Apr. 24, 1902
Macon, P T W R S	32 50	83 38	35 S.	370	93	86	99	Apr. 8, 1899	
Marquette, P T W	46 34	87 24	50 S.	734	79	69	116	May 11, 1871	
Memphis, P T W R S	35 09	90 03	1 00 S.	397	140	134	154	Feb. 28, 1871	
Meridian, P T W R S	32 21	88 40	55 S.	375	84	3	93	Sept. 1, 1889	
Miles City, P V	46 25	105 49	2 03 S.	2,371	42	33	50	Oct. 1, 1891	
Milwaukee, P T W R S	43 02	87 54	52 S.	681	124	116	142	Nov. 1, 1870	
Minneapolis, P T W S	44 59	93 18	1 13 S.	-----	99	95	208	Nov. 6, 1890	
Mobile, P T V	30 41	88 02	52 S.	57	88	78	96	Nov. 7, 1870	
Modena, V	37 48	113 54	2 36 S.	5,479	10	2	38	Jan. 1, 1901	
Montgomery, P T W R S	32 23	86 18	45 S.	223	100	70	112	Nov. 9, 1870	
Moorhead, P T W	46 52	96 44	1 27 S.	935	54	44	60	Jan. 31, 1881	
Mount Tamalpais, P T W S	37 56	122 35	3 10 S.	2,375	11	5	18	Sept. 2, 1898	
Nantucket, P T W R S	41 17	70 06	20 F.	12	43	38	85	Oct. 18, 1886	
Narragansett Pier	41 19	71 17	15 F.	-----	10	1	38	Apr. 1, 1882	
Nashville, P T W R S	36 10	86 47	47 S.	546	122	115	131	Nov. 1, 1870	
							134	.....	May 12, 1902
Neah Bay	48 22	124 32	3 18 S.	50	7	2	50	July 12, 1898	
New Haven, P T W R S	41 18	72 56	08 F.	106	117	110	140	Dec. 10, 1872	
New Orleans, P T W R S	29 58	90 04	1 00 S.	51	88	78	121	Nov. 1, 1870	
New York, P T W R S	40 43	74 00	04 F.	314	108	304	350	.....do	
						305	-----	.....	Aug 7, 1902
Norfolk, P T W R S	36 51	76 17	05 S.	91	102	96	111	Jan. 1, 1871	
Northfield, P T W R S	44 10	72 41	09 F.	876	15	2	65	Mar. 1, 1887	
					16	3	60	.....	July 28, 1902
North Head, P T W R S	46 16	124 04	3 16 S.	211	11	3	56	Aug. 1, 1902	
North Platte, P T V	41 08	100 45	1 43 S.	2,821	43	35	52	Sept. 18, 1874	
Oklahoma City, P T W R S	35 26	97 33	1 30 S.	1,214	54	46	62	Nov. 1, 1890	
					79	71	86	.....	July 1, 1902
Omaha, P T W R S	41 16	95 56	1 24 S.	1,105	115	107	121	Nov. 1, 1870	
Oswego, P T W S	43 29	76 35	06 S.	335	76	68	91	....do	
Palestine, P W R S	31 45	95 40	1 23 S.	510	73	68	79	Dec. 3, 1881	
Parkersburg, P T W R S	39 16	81 36	26 S.	638	77	69	84	July 1, 1888	
Pensacola, P T W R S	30 25	87 13	49 S.	56	79	74	96	Oct. 27, 1879	
Philadelphia, P T W R S	39 57	75 09	01 S.	117	168	166	184	Jan. 1, 1871	
Phoenix, P T W S	33 28	112 00	2 28 S.	1,108	50	40	56	Aug. 6, 1895	
Pierre, P V	44 22	100 21	1 41 S.	1,572	43	37	50	July 1, 1891	

TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS—Continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation Dec. 31, 1902. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Date of changes in elevation.
	° ′	° ′	h. m.	Feet.	Feet.	Feet.	Feet.		
Pittsburg, P T W R S	40 32	80 02	20 S.	842	116	101	123	Nov. 1, 1870	
Pocatello, P T W R S	42 52	112 29	2 30 S.	4,482	46	37	54	July 1, 1899	
					12	1	16	Mar. 1, 1889	
Point Reyes Light, V	38 11	122 51	3 11 S.	490	4	2	30	.....	Jan. 17, 1902
					7	.....	.....	.....	June 6, 1902
					.....	.....	50	.....	Sept. 19, 1902
Port Crescent, V	48 08	123 41	3 15 S.	259	13	2	20	Oct. 1, 1898	
Port Huron, P T W S	43 00	82 26	30 S.	638	70	63	120	July 25, 1874	
Portland, Me., P T W R S	43 39	70 15	19 F.	103	81	75	117	Jan. 15, 1871	
Portland, Oreg., P T W R S	45 32	122 43	3 11 S.	154	203	145	213	Nov. 1, 1870	
					68	63	96	.....	June 8, 1902
Pueblo, P T W R S	38 18	104 36	1 58 S.	4,685	80	71	86	July 1, 1888	
Raleigh, P T W R S	35 45	78 37	14 S.	376	93	85	101	Apr. 1, 1884	
Rapid City, P T V	44 04	103 12	1 53 S.	3,234	46	35	50	Jan. 24, 1881	
Redbluff, P T V	40 10	122 15	3 09 S.	332	50	40	56	July 1, 1877	
Richmond, P T W R S	37 32	77 27	10 S.	144	82	76	90	Oct. 5, 1897	
Rochester, P T W R S	43 08	77 42	11 S.	523	81	78	102	Nov. 1, 1870	
Roseburg, P T W R S	43 13	123 20	3 13 S.	518	56	48	67	July 15, 1877	
Sacramento, P T W R S	38 35	121 30	3 06 S.	69	106	100	117	July 1, 1877	
St. Louis, P T W R S	38 38	90 12	1 01 S.	567	111	100	210	Nov. 1, 1870	
St. Paul, P T W R S	44 58	93 03	1 12 S.	837	114	93	124	.....do	
					102	.....	122	Oct. 17, 1902	
Salt Lake City, P T W R S	40 46	111 54	2 28 S.	4,366	105	97	110	Mar. 19, 1874	
San Antonio, P T W R S	29 27	98 28	1 34 S.	701	80	72	91	Jan. 2, 1876	
San Diego, P T W R S	32 43	117 10	2 49 S.	87	94	86	102	Nov. 1, 1871	
Sandusky, P T W R S	41 25	82 40	31 S.	629	62	55	70	Aug. 2, 1877	
San Francisco, P T W R S	37 48	122 26	3 10 S.	155	161	154	167	Feb. 2, 1871	
San Luis Obispo, P V	35 18	120 39	3 03 S.	201	10	3	46	June 1, 1885	
					46	39	48	June 30, 1902	
Santa Fe, P T W S	35 41	105 57	2 04 S.	7,013	47	39	50	Nov. 20, 1871	
Sault Ste. Marie, P T W R S	46 30	84 21	37 S.	614	40	35	61	Aug. 5, 1877	
Savannah, P T W R S	32 05	81 05	24 S.	65	79	74	89	Jan. 1, 1871	
Scranton, P T W S	41 24	75 42	03 S.	805	111	102	119	Aug. 17, 1900	
Seattle, P T W R S	47 38	122 20	3 09 S.	123	114	107	121	May 1, 1893	
							151	Jan. 1, 1902	
Shreveport, P T W R S	32 30	93 40	1 15 S.	249	77	76	84	Sept. 3, 1871	
						77	.....	May 1, 1902	
Sioux City, P T V	42 29	96 24	1 26 S.	1,135	96	86	164	Dec. 1, 1887	
Spokane, P T W R S	47 40	117 25	2 50 S.	1,929	99	90	107	Feb. 1, 1881	
					101	94	110	July 1, 1902	
Springfield, Ill., P T W R S	39 48	89 39	59 S.	644	82	76	93	July 1, 1879	
Springfield, Mo., P T W R S	37 12	93 18	1 13 S.	1,324	98	3	104	June 3, 1882	
Syracuse, P T W R S	43 02	76 10	05 S.	597	97	65	113	Aug. 22, 1902	
Tacoma, P T W S	47 16	122 23	3 10 S.	213	113	104	120	May 1, 1897	
Tampa, P T W R S	27 57	82 27	30 S.	34	60	51	67	Mar. 13, 1890	
Tatoosh Island, P T W R S	48 23	124 44	3 19 S.	86	7	4	57	Nov. 22, 1902	
Taylor, P T W S	30 35	97 20	1 29 S.	583	55	48	63	Nov. 13, 1901	
Toledo, P T W R S	41 40	83 34	34 S.	628	123	112	127	Nov. 1, 1870	
					120	.....	.....	Dec. 20, 1902	
Topeka, P T W R S	39 03	95 41	1 23 S.	.....	81	73	89	June 1, 1887	
Twin	48 12	123 56	3 16 S.	.....	5	4	.....	Mar. 3, 1899	
Valentine, P T W R S	42 50	100 32	1 42 S.	2,598	39	30	40	Sept. 1, 1885	
					47	36	54	July 1, 1902	
Vicksburg, P T W R S	32 22	90 53	1 04 S.	247	62	53	74	Sept. 10, 1871	
Walla Walla, P V	46 02	118 20	2 53 S.	1,000	65	56	73	Dec. 1, 1885	
Washington City, P T W R S	38 54	77 03	08 S.	112	59	42	76	Nov. 1, 1870	
Wichita, P T W R S	37 41	97 20	1 29 S.	1,358	78	71	85	July 1, 1888	
Williston, P T W S	48 09	103 35	1 54 S.	1,875	15	2	31	Nov. 24, 1893	
					14	4	44	Sept. 9, 1902	
Wilmington, P T W R S	34 14	77 57	12 S.	78	82	76	90	Jan. 1, 1871	
Winnemucca, P V	40 58	117 43	2 51 S.	4,344	59	52	70	July 1, 1877	
Wytheville, P T W R S	36 56	81 05	24 S.	2,293	40	32	47	Nov. 10, 1902	
Yankton, P T W R S	42 54	97 28	1 30 S.	1,233	52	45	58	Apr. 1, 1873	
					42	32	49	Feb. 1, 1902	
Yuma, V	32 45	114 36	2 38 S.	141	16	2	50	Oct. 4, 1875	

WEST INDIAN STATIONS.

TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS—Continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation Dec. 31, 1902.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.		
St. Kitts.	° ′	° ′	*h. m.*	*Feet.*	*Feet.*	*Feet.*	*Feet.*		
Basseterre, **PTWRS**	17 18	62 43	49 F.	29	41	39	54	Aug. 25, 1898	
Barbados.									
Bridgetown, **PTWRS**	13 04	59 37	1 2 F.	30	57	49	65	Aug. 15, 1898	
Colombia.									
Colon, **V**	9 23	79 53	20 S.	24	46	37	53	Aug. 1, 1902	
Cuba.									
Cienfuegos, **PTWRS**	22 11	80 33	22 S.	52	62	53	67	Apr. 28, 1899	
Havana, **PTWRS**	23 09	82 21	29 S.	57	87	79	105	Feb. 1, 1899	
Puerto Principe, **PTWRS**	21 23	77 56	12 S.	352	55	46	62	June 24, 1899	
Santiago de Cuba, **PTWRS**	19 55	75 50	03 S.	82	46	39	52	Aug. 11, 1898	
Jamaica.									
Kingston, **PTWRS**	17 58	76 48	07 S.	286	38	38	52	Aug. 16, 1898	
Trinidad.									
Port of Spain, **PV**	10 35	61 30	54 F.	40	65	48	66	Aug. 7, 1898	
Dominica.									
Roseau, **PV**	15 17	61 23	54 F.	25	37 36	32 30	47 45	Oct. 20, 1898	Aug. 1, 1902
Porto Rico.									
San Juan, **PTWRS**	18 29	66 07	36 F.	82	48	40	90	Nov. 1, 1898	
Santo Domingo.									
Santo Domingo, **PTWRS**	18 28	69 53	20 F.	57	37	30	44	.....do	
Curaçao.									
Willemstad, **PTWRS**	12 06	68 56	24 F.	75	39	32	46	Aug. 9, 1898	
Turks Island.									
Grand Turk, **PV**	21 21	71 07	16 F.	11	6	2	20	July 1, 1900	
Bermuda.									
Hamilton, **P**	32 16	64 46	41 F.	14	.....	.....	35	Dec. 17, 1900	

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1902.

ESTABLISHED.

Stations.	Latitude.	Longitude.	Date of establishment.
	° ′	° ′	
Asheville, N. C	35 36	82 32	Aug. 22
Colon, Colombia	9 23	79 53	Aug. 1
Concord, N. H	43 12	71 32	Nov. 1
North Head, Wash	46 16	124 04	Aug. 1
Syracuse	43 02	76 10	Aug. 22
Tatoosh Island, Wash	48 23	124 44	Nov. 22
Wytheville, Va	36 56	81 05	Nov. 10
COTTON.			
Blanco, Tex			Apr. 16
Brownwood, Tex			Do.
Clanton, Ala	32 51	86 37	May 1
De Queen, Ark			May 20
Greensboro, Ga			Apr. 16
Greenville, Tex			Do.
Greenwood, Miss			May 1
Jennings, La			Sept. 1
Kosciusko, Miss			May 1
Lake Village, Ark			May 20
Melville, La			Apr. 16
Monticello, Ga	33 17	83 49	May 1
Nacogdoches, Tex			Apr. 16
Ozark, Ala			May 1
Sherman, Tex			Apr. 16
Tallapoosa, Ga			May 1
Waxahachie, Tex			Apr. 16
Wharton, Tex			Do.
CORN AND WHEAT.			
Wauseon, Ohio			Apr. 1
Williamstown, Ky	38 37	84 31	May 16
FRUIT AND WHEAT.			
Chico, Cal	39 43	121 48	June 1
Cloverdale, Cal	38 45	123 00	Do.
Colusa, Cal	37 13	122 01	Do.
King City, Cal	36 12	121 06	Do.
Livermore, Cal	37 40	121 45	Do.
Merced, Cal	37 19	120 30	Do.
Newcastle, Cal			Do.
Newman, Cal	37 19	121 01	Do.
Portersville, Cal	36 04	119 02	Do.
Santa Rosa, Cal	38 30	122 43	Do.
Stockton, Cal	37 58	121 15	Do.
Willows, Cal	39 31	122 12	Do.
SPECIAL RIVER.			
Bangor, Me	44 50	68 45	Nov. 1
Beattyville, Ky	37 42	83 46	May 1
Bellows Falls, Vt	43 08	72 28	Nov. 1
Bluff City, Tenn	36 28	82 16	Mar. 10
SPECIAL RIVER—continued.			
Buford, N. Dak			July 1
Catlettsburg, Tenn	35 54	83 35	July 15
Clearfield, Pa			May 1
Concord, N. H	43 12	71 32	Nov. 1
Fort Benton, Mont			July 1
Franklin Junction, N. H	43 26	71 40	Nov. 1
Gaylordsville, Conn	41 49	73 30	Do.
Glendive, Mont			July 1
Hartford, Conn	41 45	72 40	Nov. 1
Holyoke, Mass	42 12	72 36	Do.
Huntingdon, Pa	40 28	78 03	May 1
Lamoure, N. Dak			July 1
Leadvale, Tenn	36 05	83 16	Mar. 10
Manchester, N. H	42 30	71 28	Nov. 1
Marshall, N. C	35 47	82 10	Mar. 10
Mattawamkeag, Me	45 31	68 22	Nov. 1
Milstead, Ala			May 1
Montague, Me	45 16	68 41	Nov. 1
Rogersville, Tenn	36 24	83 02	Mar. 10
Sinking Spring, Tenn	35 57	83 43	Do.
Solon, Me	44 57	69 52	Nov. 1
Sutton, W. Va	38 40	80 43	Apr. 1
Townsend, Mont			July 1
Wells River, Vt	44 08	72 04	Nov. 1
White River Junction, Vt	43 38	72 20	Do.
Williamsport, Pa	41 16	77 04	May 1
Winslow, Me	44 32	69 39	Nov. 1
SPECIAL RAINFALL.			
Butler, Ga	32 32	84 14	Mar. 1
Covington, Ga	33 37	83 50	Feb. 15
Dahlonega, Ga	34 31	83 59	Mar. 1
East Liverpool, Ohio			July 1
Elizabethton, Tenn	36 20	82 12	Mar. 10
Gainesville, Ga	34 16	83 47	Mar. 1
Graham, N. C	36 04	79 26	July 1
Halls Hill, Tenn	35 52	86 15	Dec. 1
Jackman, Me	45 39	70 17	Nov. 1
Kineo, Me	45 42	69 47	Do.
Mendota, Va	36 43	82 19	Mar. 10
Milledgeville, Ga	33 05	83 08	Feb. 15
Millinocket, Me	45 41	68 44	Nov. 1
Newnan, Ga	33 22	84 47	Mar. 1
Newport, Tenn	35 57	83 13	Mar. 10
North Stratford, N. H	44 15	71 36	Nov. 1
Pittsfield, Mass	42 28	73 15	Do.
Plymouth, N. H	43 15	71 44	Do.
Reidsville, N. C	36 23	79 43	July 1
Rockymount, Va	36 59	79 55	Do.
Sharon, Pa	41 15	80 32	Do.
Tallassee, Ala	32 30	85 54	May 1
West Stewartstown, N. H	44 59	71 31	Nov. 1
Youngstown, Pa	40 18	79 26	July 1

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1902—Continued.

DISCONTINUED.

Stations.	Latitude.	Longitude.	Date of discontinuance.
CORN AND WHEAT.	° ′	° ′	
Centerville, Iowa			Oct. 1
Henderson, Ky			Do.
Chemung, Ill			Do.
SPECIAL RIVER.			
Sinking Spring, Tenn	35 57	83 43	June 30
Tallassee, Ala	32 30	85 54	Apr. 30
SPECIAL RAINFALL.			
Asheville, N. C	35 36	82 28	Mar. 9
Bluff City, Tenn	36 28	82 16	Do.
Oakridge, N. C	36 11	80 07	June 30
Rogersville, Tenn	36 24	83 02	Mar. 9
Salem, Va	37 17	80 05	June 30

EXPLANATION OF THE TABLES.

Pressure.—The barograph in use at the Washington station is described on page 43, Report of the Chief of the Weather Bureau, 1891–92. Richard barographs are in use at the remaining stations.

The readings of the mercurial barometer at 8 a. m. and 8 p. m. are adopted as the standard of reference, and corrections for intermediate hours, interpolated from the known differences at 8 a. m. and 8 p. m., are applied to the curve throughout the twenty-four hours. The averages given in the tables are therefore those of the standard mercurial barometer at 8 a. m. and 8 p. m., seventy-fifth meridian time, respectively, corrected for temperature, instrumental error, and reduced to standard gravity, and the corrected barograph readings for the remaining hours.

The corrections applied to individual hourly readings vary in magnitude. The average is about 0.02 of an inch, while in extreme cases it may be 0.06 or 0.08 of an inch, depending somewhat upon the skill of the observer in keeping the instrument in adjustment.

The hourly values are read off to the nearest hundredth of an inch, but the averages in the tables are given to thousandths of an inch.

The probable uncertainty in the figures here given, due to errors in reading from the barograph sheets, and any systematic error of the barograph, not wholly eliminated by the comparison at 8 a. m. and 8 p. m., is probably not more than 0.02 of an inch.

Temperature.—The mean hourly temperatures given in the tables have been deduced from thermographs described and figured in the Report of the Chief of the Weather Bureau, 1891–92, page 29. These instruments are placed in the standard shelter with other thermometers, and are checked daily for time errors, and for agreement with the standard dry-bulb thermometer of the whirled psychrometer at 8 a. m. and 8 p. m. and with the readings of the maximum and minimum thermometers.

In transcribing the hourly values the readings of the dry-bulb thermometer at 8 a. m. and 8 p. m. are adopted as the standard of reference, and these readings are given in the appropriate columns of the tables. Corrections for intermediate hours, interpolated from the known differences at 8 a. m., 8 p. m., and the time of occurrence of the daily maximum and minimum temperatures, respectively, are applied to the curve throughout the twenty-four hours, thus making it conform as closely as practicable to the readings of standard thermometers. The averages given in the tables are therefore those of the standard dry-bulb thermometer at 8 a. m. and 8 p. m., and the corrected thermograph readings for intermediate hours.

The means of the daily maximum and minimum temperatures have been derived from readings of standard self-registering maximum and minimum thermometers.

In general, the magnitude of the corrections applied is about 1° F., although a number of instruments accord with the standard dry-bulb thermometer within less than a degree.

Wind.—The arithmetical means of the hourly movement of the wind ending with the respective hours, as registered automatically by the Robinson anemometer, in conjunction with an electrical recording mechanism described and illustrated in the Report of the Chief of the Weather Bureau, 1891–92, page 19, follow the temperature tables in this report. No corrections have been applied to reduce the registered velocities to true velocities.

In studying the diurnal variation of wind movement the following facts should be kept in mind. In graduating the dials of the various sizes of Robinson anemometers it has been assumed by the makers that the centers of the cups move only one-third as fast as the wind, although numerous experiments have demonstrated that cups and arms of various proportions require different formulæ and tables of reduction even in perfectly steady motion. Professor Marvin has shown that for ordinary gusty winds, when the anemometer cups rapidly vary their rate of rotation, the movement of inertia of the revolving parts is a most important factor. The instruments having the least inertia record most truly, and those having large inertia exceed these in proportion as the gusts are stronger; consequently the anemometer records are liable to be too large in the gusty winds of the daytime as compared with the more steady winds of nighttime. No correction for this inertia error has been determined, nor can be, unless we have simultaneous records with two anemometers having different moments of inertia; therefore the apparent diurnal variation of wind velocity includes a slight inertia error, which is probably periodic in character between the winds of daytime and nighttime.

While the gustiness of the ordinary wind—that is, its sudden and momentary fluctuations of velocity—must be regarded as highly variable, yet in practical anemometry it is not possible to do more than make an average allowance for its effect upon an anemometer.

For the ordinary gusty winds of the free atmosphere Professor Marvin adopts the following equation, expressing the relation between the motion of the cups and the velocity of the wind at any moment:

$$\text{Log. } V = 0.509 + 0.9012 \text{ log. } v;$$

where V is velocity of wind in miles per hour and v is the linear velocity (also in miles per hour) of the cup centers. This equation applies strictly to anemometers that have 4-inch hemispherical brass cups on arms 6.72 inches long, whose revolving parts weigh about 590 grams (22 ounces) and have a moment of inertia of about 50,000 C. G. S. units.

The following table gives the corrected velocities corresponding to observed velocities up to 90 miles per hour. The tabular values corresponding to indicated velocities greater than 60 miles per hour are uncertain, as direct experiments were not made at the higher velocity:

WIND VELOCITIES, AS INDICATED BY WEATHER BUREAU ANEMOMETER, CONVERTED TO TRUE VELOCITIES (IN MILES PER HOUR).

Indicated velocity.	0	1	2	3	4	5	6	7	8	9
0						5.1	6.0	6.9	7.8	8.7
10	9.6	10.4	11.3	12.1	12.9	13.8	14.6	15.4	16.2	17.0
20	17.8	18.6	19.4	20.2	21.0	21.8	22.6	23.4	24.2	24.9
30	25.7	26.5	27.3	28.0	28.8	29.6	30.3	31.1	31.8	32.6
40	33.3	34.1	34.8	35.6	36.3	37.1	37.8	38.5	39.3	40.0
50	40.8	41.5	42.2	43.0	43.7	44.4	45.1	45.9	46.6	47.3
60	48.0	48.7	49.4	50.2	50.9	51.6	52.3	53.0	53.8	54.5
70	55.2	55.9	56.6	57.3	58.0	58.7	59.4	60.1	60.8	61.5
80	62.2	62.9	63.6	64.3	65.0	65.8	66.4	67.1	67.8	68.5
90	69.2									

The maximum wind velocity, in miles per hour, for a five-minute period, is given in the column headed "**Max. vel.**"

The figures under the several headings, "N.," "NE.," etc., indicate the number of hours that the wind blew from the direction given at the top of the column.

References—H=Adopted height of barometer above sea level; H_1=Actual height of barometer above sea level; h_t=Height of thermometer above ground; h_a=Height of anemometer cups above ground.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BISMARCK, N. DAK.

[λ=46° 47′ N.; φ=100° 38′ W.; local time, 1h 43m slow; H=1,674 ft.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	28.346	.346	.346	.348	.349	.347	.344	.344	.342	.344	.347	.345	.332
Feb	28.223	.222	.221	.222	.221	.221	.223	.223	.226	.229	.226	.226	.221
Mar	28.085	.087	.088	.086	.081	.082	.083	.086	.091	.093	.093	.096	.095
Apr	28.219	.222	.219	.218	.221	.222	.229	.234	.232	.230	.228	.221	.206
May	28.147	.151	.152	.150	.152	.157	.164	.168	.168	.160	.155	.150	.140
June	28.169	.168	.169	.169	.173	.175	.184	.186	.190	.190	.182	.179	.170
July	28.151	.152	.153	.153	.156	.162	.169	.175	.178	.179	.175	.172	.167
Aug	28.201	.203	.201	.201	.201	.207	.214	.215	.217	.220	.221	.219	.213
Sept	28.176	.177	.179	.180	.182	.185	.191	.195	.199	.198	.193	.187	.174
Oct	28.238	.239	.244	.239	.239	.241	.242	.244	.245	.247	.244	.238	.229
Nov	28.169	.169	.168	.169	.169	.170	.169	.169	.172	.173	.172	.171	.161
Dec	28.303	.300	.297	.305	.307	.305	.305	.303	.302	.301	.302	.307	.297
Year	28.202	.203	.203	.203	.204	.206	.210	.212	.214	.214	.212	.209	.200

BOSTON, MASS.

[λ=42° 21′ N.; φ=71° 4′ W.; local time, 16m fast; H=125 ft.]

Jan	29.897	.901	.902	.898	.895	.900	.912	.922	.930	.932	.918	.896	.885
Feb	29.654	.660	.659	.659	.664	.667	.677	.685	.687	.681	.671	.652	.630
Mar	29.805	.798	.793	.796	.801	.807	.817	.825	.827	.823	.814	.801	.785
Apr	29.762	.758	.757	.756	.763	.770	.775	.779	.778	.776	.767	.756	.748
May	29.841	.838	.834	.833	.842	.853	.859	.858	.855	.851	.845	.835	.826
June	29.752	.747	.744	.742	.748	.760	.764	.758	.751	.742	.731	.722	.712
July	29.849	.845	.845	.852	.862	.872	.876	.876	.875	.874	.869	.862	.853
Aug	29.807	.803	.801	.802	.809	.816	.823	.822	.818	.815	.806	.798	.790
Sept	29.946	.941	.938	.938	.947	.954	.959	.962	.966	.961	.956	.947	.935
Oct	29.902	.896	.894	.894	.900	.903	.911	.919	.918	.915	.906	.889	.875
Nov	29.945	.947	.947	.948	.951	.954	.960	.964	.965	.961	.942	.925	.908
Dec	29.908	.913	.912	.907	.914	.920	.928	.934	.942	.949	.932	.910	.893
Year	29.839	.837	.836	.835	.841	.848	.855	.859	.859	.857	.846	.833	.820

BUFFALO, N. Y.

[λ=42° 53′ N.; φ=78° 73′ W.; local time, 18m slow; H=767 ft.]

Jan	29.204	.205	.207	.201	.197	.200	.207	.214	.227	.230	.224	.207	.191
Feb	29.071	.068	.062	.059	.058	.058	.061	.064	.070	.068	.063	.055	.040
Mar	29.127	.126	.121	.119	.123	.127	.134	.139	.141	.144	.141	.137	.127
Apr	29.056	.054	.056	.057	.058	.066	.077	.081	.082	.088	.081	.075	.070
May	29.176	.176	.179	.183	.191	.204	.212	.219	.224	.224	.221	.213	.202
June	29.075	.072	.068	.069	.077	.085	.090	.094	.095	.095	.096	.089	.083
July	29.161	.159	.159	.161	.168	.176	.184	.189	.188	.191	.192	.189	.184
Aug	29.150	.145	.145	.146	.153	.162	.175	.178	.180	.180	.178	.174	.168
Sept	29.181	.178	.179	.184	.190	.198	.205	.210	.211	.208	.204	.197	.189
Oct	29.181	.181	.180	.183	.189	.193	.202	.214	.218	.214	.209	.200	.188
Nov	29.193	.191	.189	.188	.190	.196	.208	.214	.220	.224	.220	.206	.195
Dec	29.195	.196	.192	.186	.183	.191	.196	.201	.212	.222	.215	.200	.188
Year	29.148	.146	.145	.145	.148	.155	.163	.168	.172	.174	.170	.162	.152

CHICAGO, ILL.

[λ=41° 53′ N.; φ=87° 37′ W.; local time, 50m slow; H=823 ft.]

Jan	29.238	.236	.240	.238	.235	.232	.238	.249	.258	.268	.272	.263	.240
Feb	29.127	.122	.119	.115	.111	.111	.114	.118	.124	.126	.128	.123	.111
Mar	29.066	.066	.063	.056	.058	.063	.069	.080	.084	.086	.092	.092	.090
Apr	29.073	.070	.066	.064	.061	.067	.075	.085	.092	.097	.101	.095	.086
May	29.141	.136	.131	.127	.132	.138	.145	.155	.158	.158	.159	.158	.150
June	29.057	.050	.041	.039	.043	.050	.055	.064	.063	.062	.062	.062	.060
July	29.121	.119	.116	.114	.116	.121	.128	.139	.150	.149	.147	.148	.141
Aug	29.133	.126	.127	.127	.125	.129	.135	.142	.144	.149	.150	.149	.145
Sept	29.111	.109	.106	.103	.100	.102	.107	.121	.117	.120	.121	.119	.114
Oct	29.139	.141	.139	.139	.143	.148	.155	.168	.173	.177	.177	.174	.164
Nov	29.139	.138	.140	.138	.139	.142	.143	.151	.151	.150	.149	.139	.122
Dec	29.168	.165	.170	.173	.171	.173	.178	.190	.193	.201	.205	.193	.177
Year	29.126	.123	.122	.119	.120	.123	.128	.138	.142	.145	.147	.143	.133

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BISMARCK, N. DAK.

[Correction applied to reduce to standard gravity, —.02 inch.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.316	.302	.301	.305	.312	.315	.324	.331	.336	.339	.341	.333	.468	.198	Jan.
.212	.200	.193	.190	.194	.198	.200	.202	.202	.202	.204	.213	.313	.108	Feb.
.093	.085	.083	.085	.090	.095	.098	.105	.111	.111	.113	.092	.215	.023	Mar.
.198	.189	.180	.173	.175	.174	.174	.183	.191	.199	.202	.206	.304	.105	Apr.
.130	.122	.115	.105	.105	.103	.104	.117	.128	.136	.141	.138	.233	.040	May.
.164	.160	.156	.150	.148	.145	.148	.154	.160	.166	.169	.168	.258	.070	June.
.161	.151	.142	.134	.127	.121	.117	.127	.134	.144	.148	.152	.225	.059	July.
.205	.193	.183	.171	.167	.165	.167	.177	.192	.201	.204	.198	.285	.107	Aug.
.162	.149	.136	.129	.126	.131	.133	.144	.155	.164	.168	.167	.279	.044	Sept.
.218	.203	.199	.197	.198	.202	.207	.212	.218	.225	.228	.227	.314	.147	Oct.
.150	.140	.135	.138	.145	.151	.156	.159	.162	.161	.160	.161	.292	.014	Nov.
.284	.274	.273	.279	.286	.291	.292	.297	.305	.303	.304	.297	.425	.159	Dec.
.191	.181	.175	.171	.173	.174	.177	.184	.191	.196	.198	.196	.301	.086	Year.

BOSTON, MASS.

[Correction applied to reduce to standard gravity, —.01 inch.]

.883	.890	.897	.907	.916	.921	.925	.929	.930	.925	.919	.910	.065	.746	Jan.
.619	.615	.615	.619	.623	.626	.628	.634	.634	.633	.629	.647	.818	.471	Feb.
.768	.757	.756	.764	.774	.781	.786	.793	.795	.795	.796	.794	.946	.641	Mar.
.737	.731	.732	.737	.745	.758	.770	.781	.783	.788	.788	.762	.866	.679	Apr.
.819	.811	.806	.805	.812	.823	.834	.848	.853	.857	.856	.837	.937	.744	May.
.705	.703	.699	.697	.706	.714	.723	.738	.739	.736	.735	.732	.850	.627	June.
.845	.838	.833	.831	.835	.843	.852	.861	.863	.864	.859	.856	.938	.770	July.
.785	.780	.778	.778	.783	.791	.801	.808	.810	.811	.809	.802	.872	.736	Aug.
.926	.922	.922	.926	.929	.937	.941	.944	.942	.939	.940	.942	.030	.860	Sept.
.870	.875	.880	.892	.904	.914	.922	.930	.932	.929	.926	.904	.049	.765	Oct.
.902	.902	.904	.909	.915	.923	.928	.935	.933	.933	.933	.935	.066	.813	Nov.
.889	.890	.892	.903	.908	.918	.923	.923	.926	.925	.920	.916	.068	.745	Dec.
.812	.810	.810	.814	.821	.829	.836	.844	.845	.845	.842	.836	.959	.716	Year.

BUFFALO, N. Y.

[Correction applied to reduce to standard gravity, —.01 inch.]

.188	.193	.195	.201	.205	.214	.212	.212	.211	.205	.197	.206	.351	.060	Jan.
.030	.033	.036	.043	.051	.055	.057	.059	.054	.054	.051	.055	.166	.946	Feb.
.117	.117	.116	.124	.127	.131	.136	.141	.138	.138	.136	.130	.124	.008	Mar.
.068	.060	.059	.063	.067	.070	.077	.084	.084	.084	.083	.071	.169	.959	Apr.
.194	.184	.176	.168	.166	.167	.170	.181	.179	.179	.179	.190	.276	.084	May.
.076	.073	.068	.065	.060	.061	.061	.068	.071	.072	.066	.076	.175	.956	June.
.176	.165	.158	.153	.154	.156	.160	.169	.173	.171	.171	.171	.232	.100	July.
.161	.153	.145	.138	.139	.141	.146	.151	.153	.150	.150	.157	.216	.088	Aug.
.179	.167	.165	.166	.167	.170	.173	.178	.177	.175	.169	.184	.263	.080	Sept.
.180	.179	.181	.184	.190	.196	.203	.205	.210	.209	.210	.196	.313	.066	Oct.
.188	.186	.189	.195	.200	.202	.199	.196	.189	.190	.186	.198	.308	.023	Nov.
.182	.184	.196	.205	.215	.221	.223	.222	.220	.217	.207	.203	.339	.061	Dec.
.145	.141	.140	.142	.145	.149	.151	.156	.155	.154	.150	.153	.255	.104	Year.

CHICAGO, ILL.

[Correction applied to reduce to standard gravity, —.01 inch.]

.224	.219	.221	.230	.234	.238	.241	.244	.240	.238	.235	.241	.365	.114	Jan.
.096	.086	.085	.087	.089	.095	.096	.095	.098	.094	.092	.107	.205	.008	Feb.
.083	.075	.073	.072	.076	.080	.086	.093	.098	.101	.101	.079	.183	.976	Mar.
.083	.076	.068	.065	.067	.067	.069	.078	.083	.089	.085	.078	.188	.964	Apr.
.144	.135	.124	.122	.118	.114	.113	.122	.132	.136	.137	.137	.214	.057	May.
.056	.048	.047	.046	.045	.044	.044	.048	.056	.059	.060	.053	.136	.964	June.
.135	.126	.114	.106	.100	.099	.100	.099	.114	.116	.118	.122	.175	.067	July.
.140	.133	.125	.115	.115	.113	.115	.122	.127	.128	.131	.131	.187	.070	Aug.
.105	.097	.092	.091	.092	.094	.102	.107	.111	.114	.112	.107	.179	.029	Sept.
.152	.143	.139	.136	.134	.140	.144	.147	.151	.151	.151	.151	.246	.046	Oct.
.111	.101	.101	.104	.107	.114	.120	.125	.127	.132	.133	.130	.224	.034	Nov.
.166	.157	.155	.161	.166	.170	.171	.173	.174	.178	.178	.175	.299	.042	Dec.
.125	.116	.112	.111	.112	.114	.117	.121	.126	.128	.128	.126	.217	.031	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

CINCINNATI, OHIO.

[λ=39° 6′ N.; φ=84° 30′ W.; local time, 38m slow; H=628 ft.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.468	.465	.473	.472	.470	.471	.484	.492	.507	.514	.517	.500	.464
Feb	29.334	.324	.322	.323	.326	.330	.339	.347	.358	.363	.366	.364	.341
Mar	29.314	.316	.313	.311	.316	.322	.334	.340	.351	.355	.357	.349	.335
Apr	29.313	.306	.299	.300	.301	.306	.324	.331	.338	.340	.339	.332	.319
May	29.364	.359	.363	.365	.372	.381	.394	.401	.403	.401	.394	.387	.377
June	29.274	.271	.267	.266	.275	.285	.295	.303	.308	.304	.302	.303	.289
July	29.369	.367	.365	.368	.376	.385	.396	.404	.409	.408	.409	.403	.392
Aug	29.319	.317	.315	.316	.320	.330	.348	.357	.354	.357	.351	.344	.330
Sept	29.346	.344	.338	.340	.351	.359	.371	.374	.379	.380	.373	.361	.346
Oct	29.394	.395	.393	.395	.404	.412	.421	.427	.438	.440	.435	.424	.405
Nov	29.397	.394	.394	.397	.395	.404	.415	.419	.427	.428	.423	.406	.384
Dec	29.417	.418	.424	.425	.424	.428	.436	.443	.453	.461	.467	.455	.432
Year	29.359	.356	.356	.356	.361	.368	.380	.386	.394	.396	.394	.386	.368

CLEVELAND, OHIO.

[λ=41° 38′ N.; φ=81° 42′ W.; local time, 27m slow; H=762 ft.]

Jan	29.257	.257	.268	.265	.264	.263	.269	.275	.285	.288	.285	.268	.246
Feb	29.135	.132	.126	.120	.121	.123	.124	.126	.131	.131	.129	.124	.108
Mar	29.143	.144	.139	.139	.145	.151	.155	.157	.160	.160	.157	.154	.147
Apr	29.106	.100	.095	.095	.097	.108	.121	.124	.127	.127	.125	.120	.115
May	29.206	.203	.207	.216	.222	.233	.242	.247	.248	.247	.245	.239	.230
June	29.112	.108	.106	.110	.117	.122	.124	.132	.137	.132	.132	.128	.122
July	29.187	.188	.187	.190	.199	.208	.215	.220	.221	.221	.222	.220	.213
Aug	29.179	.176	.175	.177	.180	.193	.202	.205	.206	.206	.207	.203	.198
Sept	29.190	.189	.186	.187	.190	.197	.206	.211	.215	.212	.209	.202	.194
Oct	29.209	.212	.209	.211	.214	.220	.231	.240	.244	.244	.240	.231	.220
Nov	29.211	.211	.215	.215	.220	.225	.231	.240	.249	.248	.242	.229	.213
Dec	29.220	.218	.224	.221	.218	.220	.227	.231	.247	.255	.254	.239	.222
Year	29.180	.178	.178	.179	.182	.189	.196	.201	.206	.206	.204	.196	.186

DETROIT, MICH.

[λ=42° 20′ N.; φ=83° 3′ W.; local time, 32m slow; H=730 ft.]

Jan	29.289	.290	.298	.296	.292	.290	.293	.294	.304	.310	.312	.297	.276
Feb	29.170	.163	.160	.154	.154	.155	.155	.159	.163	.165	.164	.157	.141
Mar	29.160	.159	.157	.157	.158	.160	.169	.179	.180	.180	.179	.177	.170
Apr	29.127	.123	.116	.116	.120	.128	.140	.144	.148	.150	.147	.141	.135
May	29.235	.234	.233	.232	.244	.253	.264	.271	.271	.268	.265	.256	.249
June	29.132	.128	.126	.126	.132	.141	.147	.152	.151	.145	.145	.138	.133
July	29.197	.196	.195	.194	.203	.212	.220	.218	.225	.227	.230	.226	.219
Aug	29.211	.209	.208	.209	.212	.224	.229	.235	.236	.239	.237	.231	.223
Sept	29.205	.208	.206	.205	.207	.214	.224	.225	.229	.230	.228	.219	.209
Oct	29.226	.228	.228	.227	.235	.239	.246	.254	.260	.261	.257	.252	.240
Nov	29.224	.225	.231	.231	.236	.239	.246	.255	.260	.262	.261	.249	.232
Dec	29.238	.237	.242	.239	.234	.237	.248	.255	.258	.265	.271	.259	.245
Year	29.201	.200	.200	.199	.202	.208	.215	.220	.224	.225	.225	.217	.206

DODGE, KANS.

[λ=37° 45′ N.; φ=100° W.; local time, 1h 40m slow; H=2,509 ft.]

Jan	27.517	.511	.506	.511	.512	.509	.506	.504	.505	.515	.530	.527	.510
Feb	27.365	.357	.351	.350	.347	.347	.351	.349	.352	.360	.361	.358	.355
Mar	27.275	.277	.278	.278	.277	.281	.294	.299	.303	.309	.313	.312	.302
Apr	27.343	.343	.341	.340	.341	.347	.361	.368	.378	.377	.374	.370	.355
May	27.294	.295	.288	.285	.283	.286	.295	.307	.315	.317	.319	.317	.310
June	27.287	.281	.273	.270	.272	.283	.291	.302	.317	.320	.321	.319	.314
July	27.381	.380	.382	.376	.375	.380	.387	.395	.407	.409	.405	.400	.393
Aug	27.364	.362	.362	.366	.368	.373	.384	.389	.399	.404	.402	.393	.378
Sept	27.389	.389	.388	.387	.383	.382	.388	.395	.405	.411	.413	.408	.402
Oct	27.412	.412	.413	.409	.410	.412	.418	.420	.432	.440	.439	.429	.415
Nov	27.387	.385	.381	.379	.373	.371	.375	.374	.385	.394	.399	.397	.385
Dec	27.460	.454	.449	.452	.447	.440	.439	.437	.437	.442	.451	.459	.447
Year	27.373	.370	.368	.367	.366	.368	.374	.378	.386	.392	.394	.391	.380

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

CINCINNATI, OHIO.

[Correction applied to reduce to standard gravity, —.02 inch.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.450	.441	.444	.448	.452	.459	.464	.466	.469	.465	.460	.471	.590	.345	Jan.
.325	.314	.311	.312	.315	.325	.323	.320	.319	.315	.310	.330	.431	.202	Feb.
.324	.315	.309	.309	.314	.321	.326	.336	.338	.340	.339	.328	.439	.213	Mar.
.310	.295	.290	.294	.296	.301	.307	.322	.325	.328	.328	.314	.405	.226	Apr.
.366	.352	.341	.334	.331	.335	.340	.354	.363	.367	.370	.367	.433	.300	May.
.278	.264	.257	.248	.241	.243	.250	.256	.264	.265	.267	.274	.354	.175	June.
.379	.365	.352	.342	.339	.344	.347	.357	.364	.367	.369	.374	.422	.318	July.
.321	.306	.293	.286	.284	.289	.296	.309	.317	.319	.321	.321	.375	.265	Aug.
.334	.316	.310	.309	.310	.316	.322	.335	.339	.341	.340	.343	.417	.263	Sept.
.395	.389	.385	.386	.389	.399	.402	.411	.415	.416	.413	.408	.486	.328	Oct.
.370	.364	.363	.369	.375	.381	.384	.392	.392	.391	.393	.394	.479	.313	Nov.
.418	.413	.412	.416	.419	.428	.432	.429	.426	.427	.426	.430	.555	.296	Dec.
.356	.344	.339	.338	.339	.345	.349	.357	.361	.362	.361	.363	.449	.270	Year.

CLEVELAND, OHIO.

[Correction applied to reduce to standard gravity, —.01 inch.]

.238	.237	.243	.250	.255	.264	.268	.265	.258	.253	.250	.261	.396	.126	Jan.
.098	.097	.100	.102	.108	.115	.118	.116	.115	.112	.111	.118	.223	.009	Feb.
.142	.135	.135	.138	.145	.147	.155	.160	.160	.160	.160	.149	.258	.025	Mar.
.111	.104	.104	.105	.107	.110	.118	.129	.128	.126	.126	.114	.212	.007	Apr.
.223	.211	.201	.195	.194	.191	.191	.204	.206	.208	.212	.217	.293	.125	May.
.112	.109	.101	.090	.091	.095	.098	.105	.111	.110	.101	.113	.202	.000	June.
.203	.192	.183	.179	.178	.180	.181	.188	.188	.192	.191	.198	.249	.133	July.
.189	.180	.173	.168	.163	.162	.163	.171	.172	.176	.178	.183	.236	.122	Aug.
.185	.172	.165	.161	.160	.162	.166	.172	.174	.175	.177	.186	.259	.109	Sept.
.213	.214	.211	.213	.218	.222	.227	.234	.235	.234	.234	.224	.327	.120	Oct.
.200	.196	.199	.203	.207	.208	.209	.208	.208	.205	.202	.216	.310	.102	Nov.
.214	.217	.223	.230	.235	.237	.241	.236	.235	.235	.232	.231	.354	.096	Dec.
.177	.172	.170	.170	.172	.174	.178	.182	.182	.182	.181	.184	.277	.081	Year.

DETROIT, MICH.

[Correction applied to reduce to standard gravity, —.01 inch.]

.264	.266	.274	.283	.287	.294	.294	.292	.291	.290	.284	.290	.421	.159	Jan.
.132	.127	.128	.132	.138	.148	.146	.145	.145	.143	.142	.149	.253	.047	Feb.
.161	.156	.153	.157	.162	.171	.172	.180	.179	.180	.181	.168	.281	.042	Mar.
.128	.121	.115	.118	.122	.127	.132	.143	.147	.151	.149	.133	.235	.029	Apr.
.239	.222	.215	.209	.205	.205	.211	.221	.229	.231	.235	.237	.317	.142	May.
.126	.117	.111	.102	.101	.111	.117	.123	.124	.121	.127	.128	.219	.023	June.
.212	.203	.194	.188	.187	.187	.189	.195	.198	.202	.201	.205	.260	.139	July.
.214	.201	.192	.189	.184	.185	.192	.203	.208	.209	.210	.212	.275	.146	Aug.
.197	.187	.179	.177	.180	.183	.190	.196	.199	.199	.198	.204	.283	.129	Sept.
.230	.225	.222	.223	.227	.235	.243	.249	.252	.252	.250	.240	.349	.127	Oct.
.219	.214	.212	.214	.219	.219	.221	.220	.217	.216	.215	.231	.328	.110	Nov.
.235	.236	.240	.246	.257	.261	.261	.254	.255	.255	.251	.249	.378	.106	Dec.
.196	.190	.186	.186	.189	.194	.197	.202	.204	.204	.204	.204	.300	.100	Year.

DODGE, KANS.

[Correction applied to reduce to standard gravity, —.02 inch.]

.484	.458	.447	.449	.456	.462	.480	.490	.501	.505	.508	.496	.613	.374	Jan.
.334	.312	.299	.302	.307	.313	.329	.343	.348	.352	.356	.342	.470	.221	Feb.
.287	.263	.250	.240	.236	.242	.255	.265	.279	.290	.297	.279	.425	.137	Mar.
.337	.321	.304	.291	.286	.285	.292	.300	.312	.322	.323	.334	.446	.213	Apr.
.299	.286	.272	.255	.242	.242	.250	.260	.274	.287	.287	.286	.358	.202	May.
.303	.292	.280	.270	.257	.253	.256	.263	.271	.285	.287	.286	.375	.178	June.
.382	.366	.353	.339	.326	.325	.337	.347	.360	.377	.385	.374	.436	.301	July.
.361	.342	.320	.308	.300	.296	.303	.318	.338	.350	.357	.356	.426	.264	Aug.
.388	.372	.356	.347	.344	.345	.350	.359	.371	.381	.387	.381	.492	.264	Sept.
.395	.376	.367	.363	.363	.368	.385	.397	.404	.414	.415	.404	.489	.321	Oct.
.368	.348	.341	.335	.339	.344	.355	.366	.376	.380	.385	.372	.493	.269	Nov.
.425	.406	.401	.404	.411	.420	.428	.438	.444	.452	.461	.438	.577	.327	Dec.
.364	.345	.332	.325	.322	.325	.335	.346	.356	.366	.371	.362	.467	.256	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

EASTPORT, ME.

[λ=40° 54′ N.; φ=66° 59′ W.; local time, 32m fast. H=76 ft.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.883	.886	.886	.884	.885	.888	.898	.911	.924	.929	.913	.898	.889
Feb	29.641	.639	.639	.640	.644	.647	.655	.665	.679	.685	.683	.676	.660
Mar	29.848	.842	.835	.835	.836	.843	.849	.857	.867	.870	.864	.858	.849
Apr	29.790	.788	.787	.788	.794	.801	.808	.812	.816	.819	.818	.814	.805
May	29.860	.860	.857	.859	.865	.870	.874	.874	.872	.868	.861	.853	.846
June	29.747	.747	.749	.754	.761	.769	.776	.777	.773	.769	.762	.753	.741
July	29.865	.862	.862	.864	.871	.880	.887	.892	.894	.892	.887	.881	.875
Aug	29.813	.811	.807	.808	.814	.822	.829	.834	.834	.834	.830	.826	.821
Sept	30.017	.016	.015	.016	.020	.031	.041	.047	.049	.047	.036	.028	.018
Oct	29.912	.911	.911	.915	.920	.927	.936	.941	.940	.938	.929	.918	.907
Nov	29.969	.972	.974	.976	.977	.984	.990	.994	.992	.989	.974	.959	.946
Dec	29.906	.910	.915	.914	.916	.920	.927	.940	.951	.954	.936	.920	.905
Year	29.854	.854	.853	.854	.859	.865	.872	.879	.883	.883	.874	.865	.855

GALVESTON, TEX.

[λ=20° 18′ N.; φ=94° 50′ W.; local time, 1h 19m slow. H=54 ft.]

Jan	30.410	.099	.094	.093	.093	.093	.096	.102	.118	.132	.144	.142	.113
Feb	29.943	.938	.935	.927	.924	.931	.937	.939	.954	.968	.969	.975	.961
Mar	29.881	.879	.876	.864	.863	.873	.885	.898	.907	.919	.926	.927	.922
Apr	29.913	.906	.898	.886	.886	.893	.906	.921	.930	.940	.948	.947	.941
May	29.861	.860	.856	.852	.852	.856	.864	.875	.882	.890	.896	.898	.893
June	29.824	.818	.814	.811	.813	.818	.828	.837	.844	.850	.851	.855	.853
July	29.942	.937	.930	.927	.927	.933	.943	.956	.967	.969	.970	.972	.970
Aug	29.888	.886	.883	.881	.883	.889	.900	.915	.920	.925	.931	.933	.926
Sept	29.862	.858	.857	.851	.851	.856	.866	.878	.886	.895	.900	.898	.885
Oct	29.945	.941	.940	.935	.933	.938	.948	.960	.971	.983	.987	.989	.976
Nov	29.943	.938	.934	.929	.929	.931	.937	.945	.955	.964	.971	.970	.956
Dec	30.043	.041	.037	.034	.032	.029	.039	.049	.061	.072	.084	.083	.064
Year	29.930	.925	.921	.916	.916	.920	.929	.940	.950	.959	.965	.966	.955

HAVRE, MONT.

[λ=48° 34′ N.; φ=109° 40′ W.; local time, 2h 19m slow. H=2.505 ft.]

Jan	27.432	.430	.422	.422	.423	.420	.423	.419	.422	.429	.442	.453	.458
Feb	27.291	.292	.291	.292	.291	.290	.290	.288	.285	.292	.292	.295	.296
Mar	27.226	.230	.234	.234	.230	.233	.236	.240	.241	.244	.249	.251	.247
Apr	27.289	.290	.291	.288	.289	.290	.292	.297	.297	.297	.291	.285	.277
May	27.198	.200	.199	.198	.199	.200	.205	.213	.216	.217	.215	.210	.203
June	27.289	.287	.287	.285	.287	.292	.301	.305	.308	.307	.305	.299	.292
July	27.295	.295	.292	.288	.286	.291	.298	.306	.311	.311	.305	.300	.294
Aug	27.325	.328	.330	.334	.338	.345	.355	.362	.367	.366	.365	.361	.351
Sept	27.317	.319	.319	.317	.317	.320	.325	.332	.336	.339	.339	.336	.325
Oct	27.349	.348	.349	.351	.349	.350	.354	.357	.360	.365	.369	.369	.363
Nov	27.247	.251	.247	.245	.242	.239	.236	.233	.235	.241	.242	.247	.245
Dec	27.341	.338	.332	.334	.337	.337	.333	.334	.336	.343	.355	.365	.370
Year	27.300	.301	.299	.299	.299	.301	.304	.307	.310	.313	.314	.314	.310

KANSAS CITY, MO.

[λ=39° 5′ N.; φ=94° 37′ W.; local time, 1h 18m slow. H=963 ft.]

Jan	29.165	.163	.167	.175	.176	.175	.177	.187	.196	.207	.214	.211	.189
Feb	29.053	.050	.048	.041	.034	.032	.032	.034	.043	.050	.054	.054	.040
Mar	28.913	.914	.915	.910	.908	.914	.925	.938	.947	.953	.960	.959	.953
Apr	28.988	.987	.990	.986	.987	.985	.993	.003	.009	.014	.016	.012	.998
May	28.937	.936	.928	.930	.933	.934	.947	.958	.964	.965	.964	.964	.954
June	28.905	.901	.903	.900	.892	.899	.914	.924	.926	.920	.916	.919	.916
July	28.986	.984	.977	.975	.975	.984	.995	.005	.014	.016	.014	.010	.005
Aug	28.957	.953	.947	.946	.947	.959	.972	.978	.985	.990	.997	.992	.985
Sept	28.979	.979	.977	.976	.978	.982	.989	.997	.005	.011	.017	.013	.001
Oct	29.012	.015	.015	.010	.010	.017	.023	.026	.038	.046	.046	.041	.026
Nov	28.988	.986	.988	.990	.991	.993	.998	.004	.020	.029	.036	.035	.018
Dec	29.093	.089	.087	.090	.085	.084	.086	.088	.095	.104	.115	.111	.088
Year	28.998	.996	.995	.994	.993	.996	.004	.012	.020	.025	.029	.027	.014

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

EASTPORT, ME.

[Correction applied to reduce to standard gravity, 0.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.887	.894	.895	.901	.908	.916	.922	.925	.923	.919	.915	.903	.061	.722	Jan.
.648	.646	.646	.645	.645	.645	.642	.642	.637	.633	.629	.650	.805	.474	Feb.
.843	.835	.835	.839	.841	.844	.847	.845	.840	.834	.832	.845	.976	.690	Mar.
.796	.788	.788	.791	.796	.806	.813	.818	.818	.820	.820	.804	.894	.710	Apr.
.839	.835	.834	.836	.842	.851	.862	.870	.872	.874	.872	.859	.964	.754	May.
.734	.725	.720	.718	.717	.721	.724	.730	.732	.734	.731	.744	.845	.625	June.
.869	.864	.859	.856	.856	.859	.863	.868	.870	.872	.873	.872	.942	.798	July.
.815	.807	.803	.802	.803	.808	.813	.817	.818	.818	.816	.817	.875	.756	Aug.
.010	.001	.997	.997	.998	.004	.008	.011	.011	.013	.012	.018	.106	.922	Sept.
.900	.894	.893	.897	.904	.911	.917	.924	.924	.925	.927	.917	.070	.764	Oct.
.940	.942	.943	.947	.952	.956	.958	.960	.958	.957	.956	.965	.107	.811	Nov.
.902	.901	.898	.904	.906	.910	.914	.916	.916	.913	.912	.917	.083	.727	Dec.
.849	.844	.843	.844	.847	.853	.857	.860	.860	.859	.858	.859	.977	.729	Year.

GALVESTON, TEX.

[Correction applied to reduce to standard gravity, −.04 inch.]

.086	.068	.059	.059	.060	.065	.069	.085	.095	.100	.102	.095	.184	.020	Jan.
.934	.908	.889	.886	.886	.892	.900	.910	.925	.927	.928	.929	.029	.832	Feb.
.903	.887	.874	.863	.857	.864	.870	.878	.893	.905	.908	.888	.995	.785	Mar.
.929	.910	.894	.878	.873	.872	.877	.884	.894	.905	.904	.906	.967	.838	Apr.
.882	.871	.855	.845	.836	.834	.837	.839	.854	.858	.863	.863	.914	.807	May.
.844	.835	.823	.813	.802	.800	.804	.806	.813	.824	.828	.825	.870	.780	June.
.960	.947	.934	.925	.914	.912	.917	.922	.929	.938	.942	.941	.983	.902	July.
.915	.903	.885	.871	.861	.857	.858	.865	.875	.882	.886	.892	.936	.852	Aug.
.868	.852	.837	.829	.827	.828	.832	.841	.854	.862	.864	.860	.911	.812	Sept.
.957	.937	.926	.919	.918	.924	.932	.940	.950	.956	.957	.948	.004	.899	Oct.
.937	.919	.907	.903	.905	.908	.919	.927	.935	.939	.941	.935	.002	.876	Nov.
.039	.021	.008	.007	.008	.015	.025	.035	.041	.042	.044	.040	.133	.953	Dec.
.938	.922	.908	.900	.896	.898	.903	.911	.922	.928	.931	.927	.994	.863	Year.

HAVRE, MONT.

[Correction applied to reduce to standard gravity, +.01 inch.]

.450	.432	.425	.426	.431	.435	.435	.439	.440	.439	.441	.433	.560	.305	Jan.
.289	.278	.271	.265	.266	.268	.269	.274	.275	.276	.279	.283	.396	.173	Feb.
.239	.229	.216	.211	.209	.208	.209	.217	.223	.230	.233	.230	.335	.119	Mar.
.268	.255	.245	.235	.234	.237	.238	.243	.255	.267	.268	.271	.368	.174	Apr.
.196	.188	.183	.173	.171	.165	.164	.169	.177	.191	.193	.193	.281	.099	May.
.284	.276	.268	.264	.259	.256	.258	.268	.274	.284	.290	.284	.364	.203	June.
.287	.280	.275	.269	.267	.263	.264	.269	.278	.290	.296	.288	.364	.216	July.
.340	.328	.318	.306	.298	.297	.294	.299	.309	.322	.325	.332	.413	.233	Aug.
.315	.306	.299	.290	.289	.292	.294	.303	.313	.319	.319	.316	.438	.183	Sept.
.351	.336	.327	.323	.322	.323	.328	.334	.338	.343	.345	.346	.416	.272	Oct.
.239	.229	.225	.225	.225	.227	.229	.231	.231	.231	.232	.236	.369	.094	Nov.
.363	.351	.348	.344	.345	.347	.346	.346	.346	.344	.345	.345	.481	.205	Dec.
.302	.291	.283	.278	.276	.276	.277	.283	.288	.295	.297	.296	.399	.190	Year.

KANSAS CITY, MO.

[Correction applied to reduce to standard gravity, −.02 inch.]

.157	.138	.132	.132	.135	.141	.146	.149	.151	.155	.156	.166	.284	.028	Jan.
.022	.002	.996	.998	.001	.007	.016	.021	.024	.027	.029	.030	.142	.932	Feb.
.942	.925	.915	.911	.908	.920	.923	.933	.939	.942	.945	.930	.054	.795	Mar.
.982	.966	.953	.942	.936	.940	.948	.960	.971	.977	.975	.980	.084	.875	Apr.
.943	.930	.915	.904	.901	.898	.899	.909	.923	.932	.935	.933	.003	.862	May.
.910	.901	.894	.886	.883	.879	.884	.887	.899	.911	.911	.903	.983	.828	June.
.998	.985	.973	.963	.953	.945	.951	.952	.967	.977	.985	.983	.039	.923	July.
.972	.961	.949	.940	.937	.927	.927	.934	.945	.955	.955	.959	.033	.885	Aug.
.989	.971	.960	.950	.945	.946	.950	.961	.971	.977	.981	.979	.059	.887	Sept.
.005	.986	.975	.970	.972	.979	.986	.994	.004	.012	.015	.009	.088	.922	Oct.
.999	.984	.976	.972	.975	.981	.984	.985	.986	.986	.987	.996	.080	.898	Nov.
.067	.054	.052	.055	.061	.070	.079	.083	.086	.087	.093	.083	.211	.954	Dec.
.999	.984	.974	.969	.967	.969	.974	.981	.989	.995	.997	.996	.088	.899	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KEY WEST, FLA.

[λ=24° 34′ N.; φ=81° 49′ W.; local time, 27m slow. H=22 ft.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	30.104	.099	.094	.092	.090	.093	.106	.123	.137	.146	.142	.125	.097
Feb	29.983	.975	.967	.964	.965	.971	.984	.994	.004	.011	.015	.002	.981
Mar	30.009	.998	.988	.984	.988	.995	.008	.025	.031	.035	.036	.029	.015
Apr	29.985	.978	.969	.965	.967	.981	.995	.008	.016	.021	.023	.012	.998
May	29.958	.951	.945	.945	.948	.955	.971	.985	.989	.990	.989	.984	.972
June	29.904	.894	.884	.883	.886	.892	.906	.920	.926	.928	.931	.928	.919
July	30.023	.016	.009	.005	.008	.014	.027	.039	.046	.049	.049	.046	.036
Aug	29.968	.959	.950	.945	.945	.952	.963	.975	.983	.987	.989	.986	.979
Sept	29.952	.944	.936	.933	.935	.945	.957	.971	.977	.978	.975	.966	.950
Oct	29.931	.925	.917	.914	.918	.926	.937	.949	.962	.966	.962	.948	.926
Nov	29.965	.959	.952	.951	.952	.961	.972	.989	.994	.997	.994	.981	.957
Dec	30.055	.048	.042	.039	.037	.043	.055	.068	.083	.090	.085	.069	.047
Year	29.986	.979	.971	.968	.970	.977	.990	.004	.012	.016	.016	.006	.990

MARQUETTE, MICH.

[λ=46° 34′ N.; φ=87° 24′ W.; local time, 50m slow. H=734 ft.]

Jan	29.254	.251	.257	.260	.256	.250	.249	.252	.255	.263	.264	.254	.238
Feb	29.152	.146	.143	.141	.139	.140	.139	.135	.133	.130	.133	.130	.121
Mar	29.138	.142	.140	.137	.143	.150	.158	.163	.164	.166	.173	.175	.175
Apr	29.124	.119	.115	.116	.121	.128	.137	.140	.137	.141	.145	.146	.143
May	29.239	.232	.233	.234	.238	.240	.247	.246	.241	.238	.233	.230	.227
June	29.103	.102	.100	.101	.106	.107	.108	.114	.115	.113	.115	.115	.113
July	29.136	.129	.126	.125	.124	.132	.137	.141	.144	.143	.143	.144	.139
Aug	29.200	.199	.199	.197	.198	.203	.210	.212	.215	.214	.215	.210	.208
Sept	29.147	.144	.140	.136	.138	.145	.150	.154	.153	.152	.151	.143	.137
Oct	29.197	.195	.188	.190	.189	.192	.195	.196	.203	.205	.203	.205	.196
Nov	29.159	.164	.171	.168	.169	.171	.173	.180	.180	.179	.178	.165	.147
Dec	29.236	.235	.239	.240	.235	.235	.241	.242	.245	.250	.252	.241	.226
Year	29.174	.172	.171	.170	.171	.174	.179	.181	.182	.183	.184	.180	.172

MEMPHIS, TENN.

[λ=35° 9′ N.; φ=90° 3′ W.; local time, 1h slow. H=397 ft.]

Jan	29.775	.773	.779	.783	.781	.779	.787	.795	.807	.822	.832	.823	.787
Feb	29.622	.616	.614	.613	.614	.616	.619	.629	.647	.649	.651	.654	.632
Mar	29.569	.569	.570	.568	.573	.575	.582	.593	.603	.611	.618	.612	.596
Apr	29.598	.595	.592	.591	.594	.608	.622	.639	.651	.657	.660	.654	.641
May	29.577	.575	.575	.576	.582	.590	.607	.621	.631	.633	.633	.625	.614
June	29.519	.518	.514	.516	.522	.535	.546	.556	.563	.566	.567	.566	.557
July	29.615	.614	.611	.611	.616	.628	.641	.655	.664	.669	.671	.669	.662
Aug	29.550	.545	.540	.538	.542	.551	.563	.573	.586	.592	.595	.593	.582
Sept	29.580	.578	.572	.571	.575	.583	.596	.607	.619	.625	.624	.618	.607
Oct	29.648	.648	.652	.654	.660	.670	.682	.688	.706	.711	.710	.702	.681
Nov	29.647	.640	.640	.639	.639	.644	.650	.660	.675	.684	.690	.683	.658
Dec	29.714	.710	.711	.716	.716	.717	.722	.734	.741	.751	.761	.756	.731
Year	29.618	.615	.614	.615	.618	.625	.635	.646	.658	.664	.668	.663	.646

NEW ORLEANS, LA.

[λ=29° 58′ N.; φ=90° 4′ W.; local time, 1h slow. H=51 ft.]

Jan	30.119	.117	.118	.119	.118	.119	.125	.130	.146	.163	.171	.160	.136
Feb	29.950	.950	.944	.933	.937	.945	.953	.958	.976	.982	.984	.977	.951
Mar	29.927	.924	.921	.915	.918	.727	.941	.951	.965	.975	.979	.977	.968
Apr	29.968	.963	.956	.953	.957	.964	.979	.993	.001	.010	.013	.002	.992
May	29.926	.921	.922	.925	.931	.937	.953	.964	.969	.967	.968	.964	.956
June	29.886	.882	.878	.879	.882	.892	.904	.913	.919	.920	.919	.916	.908
July	29.994	.989	.985	.984	.989	.000	.013	.022	.028	.027	.026	.021	.012
Aug	29.918	.915	.914	.913	.919	.925	.940	.949	.958	.957	.959	.956	.949
Sept	29.906	.901	.900	.897	.897	.905	.913	.923	.935	.938	.938	.931	.919
Oct	29.974	.972	.968	.966	.969	.977	.988	.999	.015	.023	.022	.015	.996
Nov	29.992	.989	.985	.981	.982	.984	.994	.007	.020	.029	.031	.024	.003
Dec	30.067	.065	.064	.062	.064	.063	.074	.087	.098	.109	.116	.109	.092
Year	29.969	.966	.963	.961	.964	.970	.981	.991	.002	.008	.010	.004	.990

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KEY WEST, FLA.

[Correction applied to reduce to standard gravity, —.05 inch.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.076	.068	.066	.067	.074	.083	.099	.107	.113	.112	.106	.101	.162	.046	Jan.
.961	.947	.940	.938	.941	.949	.962	.972	.979	.982	.976	.974	.035	.919	Feb.
.002	.987	.979	.977	.978	.987	.002	.011	.021	.023	.022	.005	.056	.954	Mar.
.985	.965	.955	.950	.950	.960	.973	.984	.992	.995	.995	.984	.033	.936	Apr.
.962	.944	.937	.927	.925	.930	.947	.953	.958	.962	.961	.958	.997	.918	May.
.908	.898	.890	.881	.881	.889	.901	.906	.911	.915	.913	.904	.942	.866	June.
.026	.014	.003	.995	.996	.003	.014	.019	.025	.028	.027	.022	.056	.987	July.
.967	.948	.938	.937	.935	.941	.956	.964	.969	.974	.974	.962	.997	.928	Aug.
.934	.918	.907	.906	.910	.920	.941	.950	.956	.957	.955	.946	.984	.901	Sept.
.911	.898	.893	.895	.901	.911	.930	.940	.946	.945	.942	.929	.977	.883	Oct.
.940	.930	.927	.933	.941	.952	.971	.975	.978	.977	.972	.963	.008	.917	Nov.
.029	.021	.018	.019	.028	.039	.049	.058	.064	.064	.058	.050	.101	.003	Dec.
.975	.962	.954	.952	.955	.964	.979	.987	.993	.994	.992	.983	.029	.938	Year.

MARQUETTE, MICH.

[Correction applied to reduce to standard gravity, 0.]

.227	.224	.235	.240	.245	.250	.250	.252	.252	.248	.242	.249	.392	.103	Jan.
.108	.105	.106	.109	.120	.123	.118	.115	.114	.110	.109	.126	.227	.030	Feb.
.169	.164	.161	.163	.166	.171	.172	.175	.173	.173	.174	.162	.259	.050	Mar.
.145	.142	.132	.131	.133	.136	.137	.144	.143	.143	.141	.135	.254	.002	Apr.
.223	.219	.214	.215	.214	.215	.215	.222	.229	.234	.232	.230	.330	.121	May.
.107	.105	.105	.104	.099	.097	.099	.102	.108	.107	.108	.106	.200	.004	June.
.136	.134	.129	.124	.124	.124	.130	.130	.131	.136	.140	.133	.204	.062	July.
.207	.200	.194	.193	.191	.190	.195	.201	.201	.198	.195	.202	.272	.110	Aug.
.129	.128	.127	.130	.134	.138	.145	.148	.149	.149	.151	.142	.237	.045	Sept.
.192	.192	.194	.198	.205	.210	.213	.213	.214	.209	.204	.200	.340	.055	Oct.
.135	.127	.128	.126	.133	.135	.137	.142	.144	.144	.152	.154	.277	.014	Nov.
.214	.208	.214	.219	.223	.223	.231	.234	.232	.233	.236	.233	.359	.094	Dec.
.166	.162	.162	.163	.166	.168	.170	.173	.174	.174	.174	.173	.279	.058	Year.

MEMPHIS, TENN.

[Correction applied to reduce to standard gravity, —.03 inch.]

.757	.743	.741	.745	.746	.747	.755	.764	.768	.769	.766	.776	.889	.668	Jan.
.604	.593	.584	.585	.587	.594	.594	.602	.609	.609	.604	.614	.716	.512	Feb.
.581	.560	.553	.550	.551	.556	.563	.575	.584	.589	.592	.579	.685	.460	Mar.
.628	.609	.589	.578	.572	.571	.570	.579	.590	.592	.591	.607	.680	.519	Apr.
.601	.586	.570	.556	.551	.548	.552	.558	.568	.574	.578	.587	.644	.528	May.
.543	.528	.516	.505	.497	.492	.492	.509	.518	.520	.516	.528	.591	.461	June.
.650	.635	.618	.605	.594	.593	.595	.598	.607	.612	.614	.627	.674	.579	July.
.572	.557	.540	.530	.525	.526	.529	.538	.548	.550	.553	.555	.604	.504	Aug.
.589	.571	.561	.554	.552	.554	.557	.568	.577	.581	.579	.583	.646	.513	Sept.
.656	.641	.631	.627	.629	.637	.640	.650	.658	.664	.661	.663	.731	.598	Oct.
.638	.627	.623	.625	.626	.634	.641	.644	.648	.650	.646	.648	.727	.572	Nov.
.709	.693	.689	.691	.698	.705	.709	.714	.718	.723	.724	.719	.829	.598	Dec.
.627	.612	.601	.596	.594	.596	.600	.608	.616	.619	.619	.624	.701	.543	Year.

NEW ORLEANS, LA.

[Correction applied to reduce to standard gravity, —.04 inch.]

.112	.091	.087	.085	.085	.088	.094	.104	.111	.115	.112	.118	.191	.046	Jan.
.931	.908	.896	.894	.896	.905	.909	.926	.931	.936	.936	.938	.032	.836	Feb.
.950	.931	.918	.909	.908	.909	.915	.928	.940	.947	.949	.937	.023	.851	Mar.
.980	.964	.951	.943	.936	.935	.940	.948	.960	.963	.966	.968	.025	.914	Apr.
.945	.930	.917	.908	.900	.901	.904	.912	.921	.931	.929	.933	.980	.885	May.
.895	.881	.870	.862	.856	.858	.861	.867	.878	.885	.887	.887	.926	.848	June.
.999	.989	.976	.969	.966	.965	.968	.977	.987	.996	.997	.995	.034	.955	July.
.935	.920	.905	.896	.890	.889	.894	.899	.909	.918	.919	.923	.964	.878	Aug.
.903	.888	.877	.876	.876	.878	.883	.889	.900	.906	.905	.904	.948	.869	Sept.
.978	.966	.959	.955	.958	.963	.973	.980	.987	.993	.989	.983	.035	.933	Oct.
.987	.971	.963	.960	.960	.967	.978	.984	.988	.989	.989	.990	.051	.936	Nov.
.068	.051	.047	.049	.048	.052	.062	.066	.072	.076	.074	.072	.146	.999	Dec.
.974	.958	.947	.942	.940	.942	.948	.957	.965	.971	.971	.971	.030	.912	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

NEW YORK, N. Y.

[λ=40° 43′ N.; φ=74° W.; local time, 4m fast. H=314 ft.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.717	.719	.721	.719	.721	.727	.738	.749	.760	.763	.752	.730	.714
Feb	29.511	.509	.504	.503	.505	.510	.511	.516	.515	.511	.501	.488	.466
Mar	29.622	.621	.618	.620	.627	.636	.640	.645	.647	.643	.632	.618	.598
Apr	29.573	.569	.569	.570	.576	.588	.595	.598	.598	.599	.592	.584	.570
May	29.671	.670	.668	.672	.681	.691	.695	.700	.699	.698	.694	.686	.676
June	29.581	.578	.573	.575	.583	.591	.598	.601	.594	.590	.580	.572	.559
July	29.667	.663	.663	.665	.671	.677	.683	.688	.685	.683	.681	.675	.665
Aug	29.629	.625	.619	.620	.625	.636	.643	.647	.647	.645	.638	.629	.620
Sept	29.727	.722	.717	.716	.720	.726	.733	.736	.740	.741	.734	.726	.712
Oct	29.718	.715	.711	.710	.715	.719	.726	.737	.741	.740	.732	.720	.707
Nov	29.751	.749	.746	.747	.751	.754	.760	.769	.773	.772	.759	.743	.727
Dec	29.725	.727	.728	.725	.725	.730	.738	.744	.754	.759	.748	.729	.711
Year	29.658	.656	.653	.654	.658	.665	.672	.678	.679	.679	.670	.658	.644

PHILADELPHIA, PA.

[λ=39° 57′ N.; φ=75° 9′ W.; local time, 1m slow. H=117 ft.]

Jan	29.963	.970	.971	.970	.970	.977	.988	.003	.011	.017	.005	.982	.967
Feb	29.772	.769	.767	.765	.766	.765	.769	.774	.776	.775	.768	.753	.733
Mar	29.864	.861	.858	.863	.866	.873	.884	.893	.890	.883	.874	.860	.844
Apr	29.808	.805	.805	.808	.814	.830	.839	.843	.843	.840	.830	.818	.808
May	29.904	.900	.901	.905	.910	.921	.929	.935	.935	.936	.929	.918	.906
June	29.813	.806	.801	.806	.812	.823	.831	.836	.833	.826	.818	.808	.794
July	29.891	.888	.887	.887	.894	.900	.904	.914	.911	.908	.908	.904	.896
Aug	29.853	.847	.843	.844	.850	.862	.867	.874	.875	.872	.867	.860	.850
Sept	29.940	.935	.932	.933	.940	.947	.955	.959	.961	.957	.950	.941	.928
Oct	29.937	.934	.932	.936	.941	.950	.960	.977	.978	.978	.974	.964	.952
Nov	29.980	.978	.979	.978	.982	.988	.997	.008	.009	.007	.998	.979	.963
Dec	29.966	.972	.972	.967	.966	.971	.982	.993	.999	.011	.001	.986	.972
Year	29.891	.889	.887	.888	.893	.901	.909	.917	.918	.918	.910	.898	.884

PITTSBURG, PA.

[λ=40° 32′ N.; φ=80° 2′ W.; local time, 20m slow. H=842 ft.]

Jan	29.170	.168	.173	.178	.178	.179	.189	.197	.204	.212	.216	.196	.173
Feb	29.041	.035	.034	.025	.025	.024	.029	.033	.035	.038	.035	.023	.012
Mar	29.075	.077	.073	.072	.071	.076	.084	.090	.092	.090	.086	.079	.068
Apr	29.038	.032	.031	.030	.031	.039	.049	.050	.047	.042	.037	.025	.014
May	29.119	.119	.119	.125	.128	.140	.153	.165	.164	.158	.150	.141	.130
June	29.042	.042	.041	.042	.049	.060	.064	.067	.062	.055	.047	.040	.030
July	29.128	.126	.126	.131	.142	.151	.158	.165	.160	.157	.155	.149	.139
Aug	29.101	.097	.094	.098	.107	.117	.125	.129	.128	.125	.119	.108	.098
Sept	29.133	.132	.134	.138	.148	.158	.166	.167	.164	.160	.153	.142	.129
Oct	29.152	.152	.147	.153	.159	.161	.169	.180	.184	.181	.175	.166	.147
Nov	29.174	.173	.176	.175	.177	.179	.187	.191	.194	.193	.187	.168	.152
Dec	29.159	.160	.167	.164	.165	.168	.175	.179	.189	.194	.193	.178	.161
Year	29.111	.109	.110	.111	.115	.121	.129	.134	.135	.134	.129	.118	.104

PORTLAND, OREG.

[λ=45° 32′ N.; φ=122° 43′ W.; local time, 3h 11m slow. H=154 ft.]

Jan	30.024	.024	.024	.019	.021	.024	.021	.013	.006	.010	.017	.025	.033
Feb	29.692	.690	.691	.688	.688	.686	.679	.679	.684	.682	.687	.695	.702
Mar	29.844	.847	.845	.848	.847	.845	.841	.842	.844	.847	.854	.860	.863
Apr	29.851	.853	.855	.854	.851	.849	.850	.853	.862	.870	.876	.876	.878
May	29.829	.832	.834	.835	.835	.833	.832	.833	.838	.843	.848	.847	.845
June	29.840	.849	.856	.858	.862	.864	.867	.871	.876	.879	.882	.882	.878
July	29.872	.877	.881	.883	.884	.886	.890	.894	.898	.904	.908	.909	.905
Aug	29.863	.868	.877	.880	.883	.887	.892	.898	.909	.915	.919	.920	.916
Sept	29.862	.866	.869	.874	.877	.879	.881	.884	.890	.898	.907	.916	.916
Oct	29.836	.840	.841	.842	.844	.842	.842	.843	.847	.851	.860	.868	.871
Nov	29.826	.829	.831	.831	.827	.828	.823	.820	.815	.817	.819	.824	.828
Dec	29.868	.872	.871	.867	.865	.864	.861	.854	.852	.852	.854	.863	.871
Year	29.851	.854	.856	.857	.857	.857	.857	.857	.860	.864	.869	.874	.876

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

NEW YORK, N. Y.

[Correction applied to reduce to standard gravity, —.01 inch.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.708	.711	.716	.723	.731	.740	.743	.745	.745	.736	.727	.732	.871	.571	Jan.
.455	.450	.457	.466	.475	.483	.485	.489	.489	.489	.488	.491	.641	.343	Feb.
.581	.573	.572	.578	.586	.597	.606	.613	.615	.618	.620	.614	.749	.470	Mar.
.558	.550	.548	.549	.552	.561	.574	.586	.590	.597	.600	.577	.675	.488	Apr.
.666	.656	.649	.646	.648	.655	.665	.680	.684	.686	.688	.676	.766	.595	May.
.549	.541	.537	.536	.539	.548	.553	.564	.569	.572	.567	.569	.673	.464	June.
.660	.652	.647	.645	.649	.653	.664	.675	.676	.681	.680	.669	.748	.591	July.
.610	.601	.593	.592	.595	.605	.616	.626	.629	.628	.631	.623	.685	.563	Aug.
.701	.697	.696	.697	.699	.709	.716	.723	.723	.720	.719	.719	.793	.644	Sept.
.704	.704	.705	.714	.725	.734	.738	.746	.749	.747	.745	.725	.851	.601	Oct.
.718	.716	.716	.721	.729	.737	.741	.747	.745	.746	.741	.744	.849	.647	Nov.
.707	.710	.715	.723	.734	.740	.746	.747	.749	.749	.741	.734	.876	.581	Dec.
.635	.630	.629	.632	.638	.647	.654	.662	.664	.664	.662	.656	.765	.546	Year.

PHILADELPHIA, PA.

[Correction applied to reduce to standard gravity, —.01 inch.]

.959	.962	.969	.970	.677	.981	.987	.984	.982	.975	.967	.980	.118	.816	Jan.
.722	.721	.724	.731	.737	.746	.749	.750	.751	.751	.749	.754	.902	.611	Feb.
.824	.821	.820	.826	.835	.842	.850	.856	.859	.861	.863	.857	.984	.714	Mar.
.792	.785	.781	.784	.787	.796	.810	.820	.825	.828	.834	.814	.912	.723	Apr.
.895	.888	.882	.880	.880	.884	.897	.908	.915	.919	.920	.908	.995	.831	May.
.778	.770	.765	.760	.759	.765	.771	.784	.792	.763	.790	.797	.903	.691	June.
.886	.876	.866	.865	.868	.875	.886	.895	.899	.903	.901	.892	.968	.820	July.
.835	.827	.822	.819	.823	.829	.841	.850	.855	.857	.856	.849	.908	.793	Aug.
.915	.908	.904	.907	.909	.918	.926	.928	.932	.930	.929	.933	.003	.862	Sept.
.940	.938	.937	.939	.947	.953	.959	.966	.967	.967	.967	.954	.078	.829	Oct.
.949	.946	.947	.950	.957	.960	.966	.969	.970	.971	.969	.975	.069	.885	Nov.
.963	.964	.969	.975	.983	.993	.993	.995	.995	.993	.985	.982	.121	.829	Dec.
.872	.867	.866	.867	.872	.878	.886	.892	.895	.896	.894	.891	.997	.784	Year.

PITTSBURG, PA.

[Correction applied to reduce to standard gravity, —.01 inch.]

.157	.148	.149	.154	.160	.168	.175	.178	.178	.172	.166	.177	.318	.043	Jan.
.994	.989	.987	.992	.997	.005	.012	.014	.018	.020	.019	.018	.130	.908	Feb.
.054	.046	.042	.046	.050	.057	.065	.073	.082	.083	.083	.071	.177	.948	Mar.
.002	.999	.998	.004	.010	.018	.031	.046	.056	.057	.058	.031	.134	.933	Apr.
.118	.106	.095	.089	.090	.093	.101	.111	.118	.121	.122	.124	.197	.041	May.
.021	.010	.006	.003	.004	.008	.017	.028	.032	.032	.032	.035	.129	.925	June.
.129	.117	.108	.103	.103	.109	.113	.126	.130	.135	.134	.133	.191	.070	July.
.088	.078	.065	.059	.059	.064	.074	.087	.093	.096	.101	.096	.157	.040	Aug.
.114	.102	.094	.092	.092	.099	.106	.115	.119	.117	.119	.129	.201	.045	Sept.
.134	.126	.129	.135	.144	.155	.165	.174	.176	.178	.177	.159	.252	.065	Oct.
.138	.135	.136	.143	.151	.157	.160	.166	.167	.163	.164	.167	.253	.078	Nov.
.149	.153	.160	.167	.173	.178	.180	.181	.179	.177	.170	.172	.293	.036	Dec.
.092	.084	.081	.082	.086	.093	.100	.108	.112	.113	.112	.109	.203	.011	Year.

PORTLAND, OREG.

[Correction applied to reduce to standard gravity, 0.]

.036	.021	.007	.995	.996	.999	.001	.002	.006	.013	.019	.015	.112	.881	Jan.
.701	.694	.685	.675	.670	.672	.672	.675	.679	.683	.684	.685	.806	.550	Feb.
.864	.860	.851	.838	.832	.829	.824	.823	.827	.831	.834	.843	.961	.719	Mar.
.877	.866	.858	.849	.842	.837	.835	.835	.837	.845	.856	.855	.959	.733	Apr.
.839	.831	.825	.817	.813	.805	.799	.797	.800	.806	.816	.826	.877	.761	May.
.872	.868	.860	.850	.843	.832	.823	.820	.821	.826	.837	.855	.904	.782	June.
.900	.892	.885	.876	.867	.857	.848	.846	.848	.857	.868	.881	.936	.809	July.
.909	.897	.885	.870	.857	.844	.834	.829	.831	.843	.854	.878	.930	.811	Aug.
.910	.899	.888	.873	.857	.843	.838	.836	.840	.851	.860	.876	.952	.776	Sept.
.865	.855	.840	.829	.822	.819	.814	.817	.824	.827	.834	.840	.917	.750	Oct.
.825	.817	.803	.795	.786	.785	.783	.785	.790	.792	.800	.812	.927	.678	Nov.
.870	.862	.848	.844	.845	.849	.857	.862	.868	.867	.867	.861	.966	.754	Dec.
.872	.864	.853	.842	.836	.831	.827	.827	.831	.837	.844	.852	.937	.750	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

ST. LOUIS, MO.

[λ=38° 38′ N.; φ=90° 12′ W.; local time, 1h 1m slow. H=567 ft.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.563	.563	.566	.567	.566	.566	.572	.582	.596	.607	.614	.607	.576
Feb	29.446	.442	.443	.439	.441	.445	.447	.454	.460	.462	.461	.456	.441
Mar	29.335	.338	.340	.337	.338	.346	.355	.370	.378	.380	.385	.381	.373
Apr	29.385	.388	.388	.390	.394	.405	.419	.431	.434	.434	.433	.422	.406
May	29.366	.362	.362	.368	.373	.385	.394	.403	.407	.406	.401	.396	.385
June	29.316	.316	.315	.318	.326	.335	.343	.349	.349	.345	.337	.331	.319
July	29.405	.402	.402	.404	.408	.416	.429	.438	.445	.446	.448	.443	.430
Aug	29.369	.367	.363	.363	.371	.379	.394	.401	.404	.407	.410	.405	.393
Sept	29.384	.381	.379	.377	.379	.385	.400	.407	.413	.417	.417	.412	.398
Oct	29.426	.430	.431	.431	.436	.443	.455	.469	.475	.480	.476	.470	.451
Nov	29.425	.423	.420	.420	.417	.416	.421	.429	.436	.446	.451	.444	.427
Dec	29.494	.491	.493	.499	.496	.495	.501	.514	.519	.527	.537	.525	.504
Year	29.410	.409	.408	.409	.412	.418	.428	.437	.443	.446	.448	.441	.425

ST. PAUL, MINN.

[λ=44° 58′ N.; φ=93° 3′ W.; local time, 1h 12m slow. H=837 ft.]

Jan	29.214	.215	.220	.232	.238	.237	.235	.233	.240	.244	.255	.260	.239
Feb	29.119	.119	.121	.125	.124	.120	.121	.121	.122	.125	.124	.123	.113
Mar	28.985	.986	.993	.992	.989	.994	.001	.006	.007	.013	.014	.014	.006
Apr	29.030	.038	.039	.042	.044	.051	.057	.064	.068	.064	.053	.057	.045
May	29.054	.048	.045	.046	.047	.056	.067	.073	.073	.073	.068	.069	.064
June	29.005	.006	.007	.012	.012	.016	.026	.030	.035	.035	.031	.027	.021
July	29.041	.040	.039	.035	.035	.043	.047	.052	.060	.058	.057	.054	.048
Aug	29.087	.084	.083	.085	.087	.093	.104	.111	.113	.115	.116	.115	.108
Sept	29.040	.041	.041	.039	.042	.045	.051	.057	.060	.063	.060	.054	.047
Oct	29.077	.081	.087	.093	.097	.102	.108	.108	.122	.125	.125	.121	.107
Nov	29.059	.058	.057	.061	.059	.057	.058	.059	.060	.064	.065	.063	.049
Dec	29.173	.173	.175	.178	.178	.178	.177	.179	.180	.187	.194	.197	.183
Year	29.074	.074	.076	.078	.079	.083	.088	.091	.095	.097	.097	.096	.086

SALT LAKE CITY, UTAH.

[λ=40° 46′ N.; φ=111° 54′ W.; local time, 2h 28m slow. H=4.366 ft.]

Jan	25.713	.711	.706	.705	.708	.712	.706	.705	.704	.711	.725	.737	.742
Feb	25.587	.586	.587	.588	.586	.583	.584	.585	.590	.596	.605	.611	.615
Mar	25.535	.533	.530	.526	.520	.515	.520	.525	.532	.539	.548	.555	.556
Apr	25.526	.527	.526	.524	.524	.527	.531	.538	.552	.559	.563	.566	.566
May	25.493	.495	.494	.493	.495	.495	.499	.507	.519	.524	.526	.524	.519
June	25.486	.491	.498	.501	.509	.514	.525	.539	.550	.557	.562	.558	.551
July	25.567	.570	.570	.570	.573	.576	.586	.595	.605	.616	.622	.621	.616
Aug	25.588	.591	.594	.597	.598	.602	.609	.620	.635	.643	.648	.651	.647
Sept	25.619	.620	.623	.625	.623	.623	.627	.633	.647	.656	.664	.667	.659
Oct	25.634	.635	.637	.640	.643	.642	.648	.653	.663	.673	.681	.680	.677
Nov	25.594	.595	.592	.592	.593	.592	.596	.598	.607	.619	.631	.636	.637
Dec	25.679	.680	.674	.673	.679	.678	.674	.677	.685	.689	.700	.709	.711
Year	25.585	.586	.586	.586	.588	.588	.592	.598	.607	.615	.623	.626	.625

SAN DIEGO, CAL.

[λ=32° 43′ N.; φ=117° 10′ W.; local time, 2h 49m slow. H=87 ft.]

Jan	29.963	.962	.955	.953	.954	.952	.944	.939	.940	.948	.961	.975	.983
Feb	29.989	.989	.988	.985	.978	.970	.965	.967	.970	.982	.993	.003	.008
Mar	29.935	.932	.926	.924	.917	.908	.900	.905	.913	.922	.934	.942	.949
Apr	29.916	.915	.910	.906	.899	.896	.893	.895	.906	.919	.928	.931	.935
May	29.858	.855	.850	.843	.836	.833	.830	.833	.842	.852	.858	.861	.862
June	29.765	.763	.758	.752	.747	.743	.744	.751	.757	.766	.773	.771	.775
July	29.805	.803	.798	.792	.785	.782	.785	.790	.799	.810	.822	.824	.829
Aug	29.838	.837	.832	.826	.821	.816	.813	.818	.829	.837	.845	.849	.856
Sept	29.799	.797	.794	.794	.788	.783	.780	.783	.792	.803	.811	.815	.819
Oct	29.860	.860	.856	.854	.849	.843	.843	.846	.852	.863	.876	.886	.887
Nov	29.882	.883	.881	.876	.872	.868	.862	.859	.867	.883	.887	.896	.903
Dec	29.968	.972	.971	.966	.961	.958	.952	.948	.953	.963	.974	.983	.994
Year	29.882	.881	.877	.873	.867	.863	.859	.861	.868	.879	.888	.895	.900

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

ST. LOUIS, MO.

[Correction applied to reduce to standard gravity, −.02 inch.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.555	.546	.547	.551	.550	.555	.557	.562	.562	.561	.557	.569	.693	.440	Jan.
.416	.402	.395	.392	.394	.400	.404	.406	.407	.411	.413	.428	.529	.322	Feb.
.354	339	.333	.331	.334	.343	.350	.358	.360	.365	.366	.354	.461	.224	Mar.
.394	378	.364	.357	.350	.347	.353	.362	.371	.374	.380	.390	.485	.282	Apr.
.373	361	.346	.336	.331	.333	.338	.348	.358	.361	.364	.369	.435	.300	May.
.309	294	.284	.274	.267	.269	.273	.277.	.295	.305	.312	.311	.382	.229	June.
.416	402	.391	.381	.375	.373	.374	.377	.390	.397	.402	.408	.460	.360	July.
.380	.362	.350	.343	.334	.335	.341	.352	.359	.364	.365	.371	.432	.310	Aug.
.384	.369	.361	.356	.355	.357	.363	.373	.383	.387	.387	.384	.458	.301	Sept.
.431	.418	.412	.407	.406	.411	.416	.422	.429	.434	.436	.437	.522	.353	Oct.
.415	.402	.401	.404	.408	.418	.422	.426	.430	.428	.426	.423	.504	.345	Nov.
475	.466	.466	.469	.472	.478	.483	.489	.491	.493	.496	.495	.618	.354	Dec.
409	.395	.387	.383	.381	.385	.390	.396	.403	.407	.409	.412	.498	.318	Year.

ST. PAUL, MINN.

[Correction applied to reduce to standard gravity, 0.]

.217	.198	.195	.201	.203	.205	.207	.209	.207	.208	.203	.221	.352	.069	Jan.
.095	.079	.072	.070	.069	.073	.076	.078	.079	.080	.080	.101	.191	.006	Feb.
.998	.990	.984	.983	.985	.993	.002	.007	.016	.020	.023	.000	.110	.881	Mar.
.031	.019	.010	.999	.997	.998	.001	.008	.020	.027	.031	.033	.156	.901	Apr.
.058	.053	.043	.036	.031	.025	.024	.025	.036	.047	.049	.050	.137	.955	May.
.013	.004	.995	.985	.979	.975	.971	.981	.988	.997	.002	.006	.082	.914	June.
.041	.032	.026	.018	.011	.007	.011	.014	.030	.044	.044	.037	.107	.964	July.
.103	.088	.079	.072	.063	.060	.058	.061	.069	.076	.077	.088	.158	.002	Aug.
.037	.029	.022	.018	.019	.022	.018	.031	.037	.042	.043	.040	.133	.945	Sept.
.090	.074	.070	.068	.068	.073	.076	.072	.074	.076	.077	.090	.206	.964	Oct.
.037	.029	.026	.029	.034	.039	.046	.047	.052	.056	.054	.051	.165	.939	Nov.
.166	.154	.153	.156	.163	.167	.168	.172	.172	.169	.173	.174	.312	.030	Dec.
.074	.062	.056	.053	.052	.053	.055	.059	.065	.070	.071	.074	.176	.964	Year.

SALT LAKE CITY, UTAH.

[Correction applied to reduce to standard gravity, −.02 inch.]

.727	.709	.689	.681	.684	.686	.686	.689	.693	.695	.698	.705	.796	.620	Jan.
.611	.594	.585	.580	.576	.575	.579	.581	.582	.585	.588	.589	.676	.497	Feb.
.553	.544	.534	.527	.523	.526	.529	.532	.536	.544	.542	.534	.647	.426	Mar.
.560	.546	.547	.537	.531	.525	.523	.518	.521	.530	.531	.537	.615	.437	Apr.
.509	.497	.489	.478	.472	.466	.462	.461	.464	.474	.480	.493	.559	.417	May.
.545	.532	.521	.506	.497	.485	.478	.475	.475	.481	.491	.514	.580	.426	June.
.610	.597	.586	.576	.568	.558	.552	.550	.552	.563	.569	.582	.642	.516	July.
.638	.624	.612	.595	.581	.574	.567	.562	.567	.585	.589	.605	.659	.542	Aug.
.649	.638	.622	.608	.601	.596	.592	.591	.598	.607	.611	.625	.711	.527	Sept.
.668	.651	.632	.625	.622	.616	.620	.622	.629	.632	.637	.644	.706	.579	Oct.
.626	.607	.593	.586	.585	.584	.590	.593	.594	.594	.593	.601	.681	.501	Nov.
.697	.677	.660	.655	.657	.661	.662	.666	.669	.667	.670	.677	.755	.597	Dec.
.616	.601	.589	.580	.575	.571	.570	.570	.573	.580	.583	.592	.669	.507	Year.

SAN DIEGO, CAL.

[Correction applied to reduce to standard gravity, −.03 inch.]

.974	.948	.929	.918	.919	.923	.927	.935	.942	.950	.959	.948	.009	.896	Jan.
.001	.986	.966	.954	.951	.950	.955	.961	.969	.976	.981	.977	.036	.923	Feb.
.949	.942	.931	.917	.915	.910	.909	.913	.919	.925	.934	.924	.982	.875	Mar.
.933	.924	.918	.908	.898	.893	.891	.892	.899	.909	.918	.910	.956	.865	Apr.
.861	.855	.851	.845	.838	.835	.830	.832	.836	.844	.852	.845	.889	.805	May.
.776	.772	.767	.762	.754	.745	.737	.737	.741	.748	.755	.757	.791	.722	June.
.826	.820	.813	.808	.801	.790	.784	.782	.786	.791	.801	.801	.838	.766	July.
.853	.846	.840	.826	.819	.810	.805	.807	.814	.824	.834	.829	.866	.790	Aug.
.812	.800	.791	.778	.772	.766	.765	.769	.773	.786	.793	.790	.834	.750	Sept.
.881	.866	.854	.844	.837	.833	.835	.838	.847	.854	.862	.855	.899	.815	Oct.
.895	.876	.857	.845	.845	.842	.846	.854	.862	.868	.880	.870	.925	.821	Nov.
.991	.969	.952	.934	.932	.930	.932	.939	.949	.954	.960	.959	.014	.902	Dec.
.896	.884	.872	.862	.857	.852	.851	.855	.861	.869	.877	.872	.920	.828	Year.

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SAN FRANCISCO, CAL.

[λ=37° 48′ N.; φ=122° 26′ W.; local time, 3h 10m slow. H=155 ft.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	30.003	.003	.000	.999	.005	.007	.003	.001	.005	.009	.024	.037	.048
Feb	29.911	.914	.913	.909	.910	.903	.900	.901	.904	.906	.915	.920	.927
Mar	29.909	.913	.912	.914	.911	.901	.902	.905	.916	.925	.940	.948	.956
Apr	29.910	.911	.913	.911	.905	.905	.904	.904	.912	.922	.932	.936	.942
May	29.863	.864	.861	.855	.849	.848	.846	.846	.854	.864	.871	.873	.877
June	29.755	.758	.757	.753	.750	.748	.748	.751	.758	.767	.774	.776	.776
July	29.795	.794	.792	.789	.782	.780	.784	.793	.802	.814	.826	.828	.831
Aug	29.813	.814	.813	.809	.806	.804	.805	.810	.820	.832	.839	.843	.845
Sept	29.777	.780	.783	.781	.782	.780	.781	.786	.795	.806	.813	.821	.821
Oct	29.846	.848	.850	.852	.849	.845	.846	.849	.854	.862	.874	.878	.878
Nov	29.919	.922	.921	.917	.917	.914	.910	.910	.913	.924	.931	.941	.945
Dec	29.983	.985	.982	.976	.981	.978	.974	.971	.977	.987	.996	.008	.016
Year	29.874	.876	.875	.872	.871	.868	.867	.869	.876	.885	.895	.901	.905

SANTA FE, N. MEX.

[λ=35° 41′ N.; φ=105° 57′ W.; local time, 2h 4m slow. H=7,013 ft.]

Jan	23.248	.241	.232	.235	.237	.233	.231	.231	.237	.249	.263	.266	.256
Feb	23.174	.171	.165	.164	.159	.160	.161	.166	.170	.177	.184	.186	.181
Mar	23.118	.117	.118	.113	.105	.105	.111	.116	.124	.134	.138	.139	.131
Apr	23.206	.209	.208	.204	.205	.206	.213	.223	.234	.236	.237	.236	.228
May	23.220	.221	.215	.213	.213	.215	.219	.228	.234	.238	.240	.240	.232
June	23.254	.256	.256	.255	.258	.264	.273	.282	.290	.295	.292	.289	.280
July	23.354	.356	.356	.355	.354	.357	.365	.373	.381	.386	.383	.379	.370
Aug	23.383	.383	.378	.376	.373	.374	.382	.387	.395	.399	.401	.403	.393
Sept	23.337	.337	.340	.339	.339	.340	.345	.350	.360	.367	.370	.370	.360
Oct	23.329	.327	.327	.327	.325	.326	.331	.335	.343	.351	.358	.358	.350
Nov	23.216	.214	.208	.205	.200	.200	.201	.206	.214	.222	.228	.233	.228
Dec	23.238	.235	.228	.229	.228	.222	.218	.224	.230	.235	.244	.253	.245
Year	23.256	.256	.253	.251	.250	.250	.254	.260	.268	.274	.278	.279	.271

SAVANNAH, GA.

[λ=32° 5′ N.; φ=81° 5′ W.; local time, 24m slow. H=65 ft.]

Jan	30.104	.099	.098	.095	.091	.094	.105	.116	.127	.136	.129	.107	.071
Feb	29.898	.895	.890	.885	.884	.888	.899	.908	.920	.924	.917	.906	.879
Mar	29.977	.975	.969	.969	.980	.993	.005	.014	.023	.025	.024	.016	.003
Apr	29.952	.947	.947	.950	.960	.972	.990	.997	.999	.999	.992	.978	.960
May	29.969	.964	.962	.963	.970	.981	.995	.007	.012	.014	.009	.000	.986
June	29.904	.896	.891	.895	.903	.916	.929	.936	.937	.936	.932	.925	.911
July	29.986	.980	.977	.977	.984	.994	.011	.020	.023	.025	.020	.012	.996
Aug	29.915	.909	.905	.904	.909	.920	.930	.938	.944	.949	.948	.940	.928
Sept	29.945	.940	.934	.937	.945	.954	.966	.976	.984	.984	.978	.968	.951
Oct	29.970	.965	.960	.960	.968	.978	.991	.004	.014	.016	.012	.000	.983
Nov	30.023	.019	.016	.016	.019	.026	.036	.044	.053	.056	.048	.027	.008
Dec	30.060	.060	.060	.060	.061	.066	.076	.083	.093	.101	.094	.077	.052
Year	29.975	.971	.967	.968	.973	.982	.994	.004	.011	.014	.009	.996	.977

WASHINGTON, D. C.

[λ=38° 54′ N.; φ=77° 3′ W.; local time, 8m slow. H=112 ft.]

Jan	29.993	.996	.001	.001	.002	.002	.013	.028	.041	.049	.041	.015	.996
Feb	29.820	.816	.809	.805	.808	.808	.813	.822	.827	.825	.819	.802	.783
Mar	29.894	.893	.886	.884	.892	.899	.906	.912	.914	.915	.901	.892	.876
Apr	29.832	.830	.832	.833	.838	.850	.860	.865	.864	.864	.853	.839	.828
May	29.916	.912	.911	.914	.920	.934	.944	.952	.952	.951	.947	.937	.922
June	29.822	.817	.818	.821	.830	.841	.848	.854	.852	.848	.837	.824	.809
July	29.897	.893	.890	.890	.902	.908	.917	.923	.923	.923	.920	.913	.903
Aug	29.855	.851	.852	.851	.857	.864	.873	.881	.883	.885	.883	.874	.865
Sept	29.940	.934	.932	.932	.935	.940	.946	.952	.956	.957	.952	.944	.931
Oct	29.944	.947	.947	.951	.961	.973	.986	.998	.008	.006	.997	.980	.965
Nov	29.985	.983	.983	.983	.985	.991	.003	.011	.020	.022	.014	.996	.977
Dec	29.989	.990	.984	.982	.984	.991	.002	.015	.032	.042	.037	.019	.004
Year	29.907	.905	.904	.904	.910	.917	.926	.934	.939	.941	.933	.920	.905

AVERAGE PRESSURE, IN INCHES AND THOUSANDTHS, FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SAN FRANCISCO, CAL.

[Correction applied to reduce to standard gravity, —.02 inch.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.038	.010	.991	.980	.977	.977	.975	.980	.987	.995	.001	.002	.073	.931	Jan.
.926	.917	.903	.888	.882	.883	.881	.884	.888	.891	.900	.903	.983	.817	Feb.
.952	.942	.926	.906	.894	.883	.876	.878	.880	.886	.896	.911	.999	.801	Mar.
.941	.934	.927	.921	.909	.899	.897	.895	.895	.903	.914	.914	.980	.837	Apr.
.872	.867	.861	.850	.842	.837	.834	.835	.839	.846	.856	.855	.899	.811	May.
.773	.765	.758	.752	.743	.733	.724	.722	.725	.732	.740	.752	.790	.701	June.
.829	.824	.815	.806	.797	.787	.777	.779	.784	.791	.800	.800	.842	.754	July.
.841	.830	.824	.810	.798	.789	.782	.781	.784	.793	.805	.812	.851	.765	Aug.
.811	.797	.785	.770	.756	.746	.739	.741	.746	.759	.768	.780	.827	.728	Sept.
.873	.857	.845	.831	.824	.818	.817	.824	.834	.842	.851	.848	.903	.787	Oct.
.935	.915	.900	.889	.883	.882	.883	.891	.897	.905	.916	.912	.968	.856	Nov.
.005	.982	.966	.956	.952	.949	.950	.955	.960	.967	.970	.976	.033	.921	Dec.
.900	.887	.875	.863	.855	.849	.845	.847	.852	.859	.868	.872	.929	.809	Year.

SANTA FE, N. MEX.

[Correction applied to reduce to standard gravity, —.03 inch.]

.233	.205	.195	.196	.201	.205	.214	.225	.231	.237	.240	.231	.309	.155	Jan.
.165	.140	.128	.123	.125	.131	.140	.154	.161	.166	.169	.159	.235	.091	Feb.
.120	.101	.089	.080	.077	.079	.088	.102	.115	.128	.130	.112	.211	.012	Mar.
.216	.199	.186	.168	.159	.154	.155	.167	.182	.195	.199	.201	.261	.130	Apr.
.220	.207	.197	.188	.181	.184	.181	.191	.201	.214	.222	.213	.268	.152	May.
.270	.255	.242	.229	.217	.207	.211	.218	.224	.244	.253	.255	.305	.196	June.
.359	.345	.335	.322	.312	.301	.302	.312	.326	.348	.355	.349	.400	.290	July.
.384	.366	.356	.342	.331	.324	.325	.337	.353	.369	.375	.370	.417	.315	Aug.
.348	.329	.316	.299	.291	.287	.289	.301	.315	.325	.329	.333	.393	.262	Sept.
.336	.316	.305	.300	.294	.298	.304	.315	.324	.332	.335	.327	.383	.276	Oct.
.210	.190	.181	.175	.178	.184	.191	.201	.206	.213	.213	.205	.277	.144	Nov.
.227	.204	.199	.200	.202	.203	.208	.216	.220	.224	.229	.223	.304	.151	Dec.
.257	.238	.227	.218	.214	.213	.217	.228	.238	.250	.254	.248	.314	.181	Year.

SAVANNAH, GA.

[Correction applied to reduce to standard gravity, —.03 inch.]

.055	.049	.050	.055	.063	.081	.092	.100	.106	.108	.103	.093	.193	.997	Jan.
.857	.846	.846	.850	.860	.868	.876	.883	.888	.889	.888	.885	.996	.781	Feb.
.985	.976	.965	.961	.963	.968	.974	.984	.991	.991	.992	.989	.063	.904	Mar.
.945	.926	.919	.918	.920	.928	.933	.951	.957	.956	.958	.956	.016	.895	Apr.
.975	.960	.952	.949	.950	.959	.964	.973	.979	.981	.979	.977	.031	.921	May.
.898	.885	.874	.864	.868	.874	.877	.890	.900	.904	.901	.902	.952	.843	June.
.982	.967	.955	.951	.958	.965	.966	.982	.988	.990	.988	.987	.032	.937	July.
.916	.901	.894	.889	.889	.897	.901	.916	.926	.929	.926	.918	.970	.866	Aug.
.936	.922	.916	.917	.920	.925	.933	.944	.946	.945	.940	.946	.991	.900	Sept.
.970	.962	.959	.960	.965	.973	.980	.991	.995	.995	.992	.982	.050	.918	Oct.
.995	.991	.990	.990	.994	.002	.009	.014	.017	.016	.013	.018	.084	.958	Nov.
.036	.031	.033	.038	.043	.053	.065	.071	.073	.077	.074	.064	.147	.990	Dec.
.962	.951	.946	.945	.949	.958	.964	.975	.980	.982	.980	.976	.044	.909	Year.

WASHINGTON, D. C.

[Correction applied to reduce to standard gravity, —.02 inch.]

.985	.986	.991	.996	.000	.008	.010	.016	.014	.008	.999	.008	.154	.846	Jan.
.770	.767	.771	.780	.787	.796	.800	.803	.803	.799	.799	.801	.936	.667	Feb.
.859	.850	.848	.854	.861	.870	.879	.886	.891	.894	.894	.885	.001	.753	Mar.
.816	.800	.794	.796	.796	.803	.819	.833	.838	.843	.850	.832	.928	.733	Apr.
.908	.894	.885	.882	.885	.891	.903	.917	.925	.927	.932	.919	.004	.835	May.
.797	.786	.775	.766	.768	.774	.782	.791	.800	.802	.805	.811	.915	.703	June.
.889	.879	.872	.869	.871	.874	.885	.890	.899	.903	.904	.897	.965	.827	July.
.852	.838	.833	.830	.830	.835	.842	.850	.857	.858	.859	.857	.910	.804	Aug.
.913	.905	.900	.900	.901	.904	.911	.921	.925	.924	.924	.928	.993	.864	Sept.
.950	.940	.935	.934	.940	.945	.955	.963	.966	.968	.970	.964	.081	.840	Oct.
.963	.954	.953	.954	.957	.963	.967	.972	.973	.973	.973	.981	.072	.895	Nov.
.990	.985	.991	.997	.006	.010	.014	.014	.012	.011	.007	.004	.139	.853	Dec.
.891	.882	.879	.880	.884	.889	.897	.905	.909	.909	.910	.907	.008	.802	Year.

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AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BISMARCK, N. DAK.

[λ=46° 47′ N.; φ=100° 38′ W.]

1902.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.
Jan	12.9	12.0	11.4	10.1	9.5	8.6	8.4	7.9	7.4	7.6	9.7	12.8	15.3
Feb	10.0	9.7	9.2	8.7	8.3	7.9	7.8	7.4	6.5	7.1	9.3	11.8	14.1
Mar	24.6	24.3	23.9	23.6	23.0	22.5	22.5	22.4	22.2	23.2	24.5	26.6	28.3
Apr	36.9	36.2	35.4	34.6	33.6	33.0	35.6	32.3	34.4	38.2	41.9	45.1	47.6
May	52.6	51.5	50.4	49.1	48.3	47.3	46.9	49.1	50.8	54.0	56.6	59.7	62.3
June	53.8	52.7	51.7	51.2	50.2	49.3	49.7	52.2	54.7	57.4	59.5	62.3	63.1
July	62.7	61.3	60.5	59.8	58.4	57.9	57.7	60.5	63.1	66.5	70.0	73.2	75.6
Aug	60.5	59.1	58.0	57.5	56.8	56.1	55.3	57.3	59.7	63.4	66.8	69.7	71.8
Sept	49.2	47.9	47.1	46.2	44.8	43.7	42.7	42.3	45.2	50.3	54.8	59.2	62.4
Oct	39.6	38.5	37.1	36.1	35.8	35.0	34.9	34.7	35.4	38.3	42.6	47.5	51.4
Nov	26.8	26.2	25.7	24.9	24.4	24.2	23.5	23.4	22.7	23.6	25.5	29.1	31.7
Dec	7.5	7.5	6.9	6.7	6.2	6.2	5.8	5.8	5.2	5.6	6.9	10.0	13.0
Year	36.4	35.6	34.8	34.0	33.3	32.6	32.6	32.9	33.9	36.3	39.0	42.2	44.7

BOSTON, MASS.

[λ=42° 21′ N.; φ=71° 4′ W.]

Jan	25.5	25.0	24.5	24.3	23.8	23.5	23.4	23.9	25.0	26.5	28.1	27.5	30.4
Feb	26.2	25.8	25.5	25.1	24.8	24.5	25.0	25.6	27.0	28.2	30.1	31.3	32.6
Mar	40.4	40.2	39.9	39.8	39.5	39.2	39.9	40.9	42.1	43.1	44.6	46.1	46.5
Apr	44.6	43.8	43.2	42.8	42.6	43.0	44.7	46.5	48.6	49.5	50.6	50.9	51.6
May	52.7	52.2	51.6	51.1	50.7	51.6	53.7	55.9	57.5	59.1	60.4	61.3	61.8
June	58.6	58.0	57.5	56.8	57.0	58.0	60.5	62.9	65.2	67.0	68.8	69.6	70.2
July	64.3	63.9	63.2	63.0	62.9	63.5	65.5	67.1	68.6	69.7	70.8	71.8	72.8
Aug	63.3	62.7	62.1	61.5	61.1	61.4	63.5	66.1	68.7	70.0	71.2	71.1	71.6
Sept	59.5	59.1	58.7	58.5	58.4	58.4	59.9	61.5	63.2	64.5	65.9	66.9	67.3
Oct	51.5	51.2	50.9	50.5	50.5	50.5	50.8	52.0	53.7	55.2	57.4	58.9	59.5
Nov	43.9	43.0	42.6	42.0	41.8	41.6	42.5	43.1	45.2	47.1	49.0	50.5	51.8
Dec	27.3	27.1	26.8	26.5	25.8	25.5	25.5	25.8	26.8	27.8	29.2	30.7	31.6
Year	46.5	46.0	45.5	45.2	44.9	45.1	46.2	47.6	49.3	50.6	52.2	53.2	54.0

BUFFALO, N. Y.

[λ=42° 53′ N.; φ=78° 53′ W.]

Jan	23.5	23.2	23.2	23.1	23.2	23.0	22.8	23.0	23.3	23.7	24.8	25.6	26.8
Feb	20.9	20.3	20.2	20.0	19.8	19.4	18.9	19.1	20.0	21.4	23.2	24.3	25.5
Mar	37.6	37.4	36.9	36.6	36.3	36.0	35.7	36.7	37.4	38.1	39.3	39.8	41.0
Apr	41.7	41.2	41.4	41.1	41.5	41.5	42.4	43.3	44.4	45.5	46.6	47.1	47.3
May	50.9	50.3	49.8	49.4	48.9	49.0	50.3	52.1	53.3	54.2	55.7	57.3	58.4
June	60.1	60.1	58.8	58.1	57.6	57.7	59.1	60.2	60.6	61.4	62.0	62.6	63.4
July	67.3	66.9	66.5	66.3	66.0	65.7	66.6	67.7	69.2	69.6	70.9	71.5	72.5
Aug	64.0	63.6	63.2	62.6	61.8	61.9	63.2	64.7	66.9	68.4	69.8	70.6	71.4
Sept	61.5	61.0	60.4	59.7	59.4	59.0	59.1	60.8	62.2	64.1	65.5	66.5	67.9
Oct	50.9	50.1	49.6	49.3	49.2	48.9	48.8	49.3	50.1	51.4	52.8	53.8	54.8
Nov	47.5	46.9	46.8	46.5	46.1	45.9	45.9	46.2	46.6	47.4	48.6	49.2	49.5
Dec	27.0	27.1	27.4	27.1	27.1	27.0	27.0	27.3	27.3	27.5	28.3	28.7	29.6
Year	46.1	45.7	45.4	45.0	44.7	44.6	45.0	45.9	46.8	47.7	49.0	49.8	50.7

CHICAGO, ILL.

[λ=41° 58′ N.; φ=87° 37′ W.]

Jan	24.3	23.9	23.5	23.4	23.0	22.7	22.5	23.0	22.5	23.0	24.5	26.3	27.0
Feb	19.4	19.2	18.8	18.5	18.2	17.8	17.2	17.9	17.6	18.6	20.0	21.4	22.5
Mar	37.4	37.3	36.7	36.0	35.5	35.2	35.0	35.5	36.0	36.8	37.7	38.6	39.0
Apr	44.1	43.5	42.9	42.3	41.8	41.4	41.2	42.4	44.3	45.5	46.5	47.6	48.1
May	55.8	55.8	55.3	55.2	54.8	54.1	53.9	55.8	56.5	58.1	59.2	60.3	60.9
June	61.7	61.3	61.2	60.4	59.9	59.7	60.0	61.6	63.2	64.8	65.8	67.0	67.8
July	70.3	69.8	68.9	68.5	68.3	68.0	68.1	69.7	70.8	72.0	72.9	74.0	74.5
Aug	67.0	66.6	66.3	66.0	65.3	65.0	64.7	65.9	67.2	68.0	68.7	69.6	70.5
Sept	59.4	58.8	58.3	57.5	57.0	56.7	56.4	57.2	58.5	60.1	61.9	63.2	64.0
Oct	53.4	52.7	52.2	51.5	51.2	50.7	50.1	50.6	51.3	52.5	53.9	55.4	56.6
Nov	45.6	45.2	44.8	44.8	44.4	44.2	44.2	44.7	45.1	46.0	47.2	48.5	49.1
Dec	25.6	25.4	25.0	24.7	24.6	24.4	24.6	24.9	25.3	24.8	25.7	26.6	27.5
Year	47.0	46.6	46.2	45.7	45.3	45.0	44.8	45.8	46.5	47.5	48.7	49.9	50.6

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BISMARCK, N. DAK.

[h_t=16 ft.; local time, 1h 48m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
17.9	20.1	21.6	22.1	21.2	18.5	17.1	15.3	14.2	13.5	12.7	13.7	24.2	4.1	Jan.
16.1	17.4	18.6	19.0	18.6	17.0	15.8	14.1	12.9	12.1	11.4	12.1	20.3	3.0	Feb.
29.5	30.8	31.7	31.8	31.2	30.2	28.6	27.4	26.2	25.7	25.4	26.3	34.1	18.7	Mar.
49.2	50.6	51.9	52.2	52.1	51.2	49.4	45.8	43.3	40.7	38.8	41.9	54.3	29.9	Apr.
63.7	65.0	65.9	66.7	66.7	65.7	64.2	61.7	58.4	56.2	54.3	57.0	69.0	45.9	May.
64.3	65.6	65.8	66.2	66.0	65.3	64.2	62.2	59.4	56.9	55.4	58.3	68.1	48.2	June.
77.0	78.5	79.5	79.7	79.5	78.8	77.8	74.1	69.7	66.8	64.4	68.9	81.3	56.3	July.
73.8	75.4	76.3	76.7	76.8	75.6	74.0	70.3	66.4	63.8	61.7	66.0	78.5	54.1	Aug.
64.8	66.5	68.1	68.8	68.0	66.2	62.7	58.2	55.2	52.9	51.0	54.9	70.3	41.0	Sept.
54.2	55.8	56.7	56.5	56.0	53.4	49.7	46.6	44.2	42.3	40.7	44.3	58.3	31.8	Oct.
34.0	35.6	36.7	36.9	34.9	32.3	31.0	30.0	28.9	28.2	27.3	28.6	39.1	20.3	Nov.
14.5	16.0	16.7	16.8	14.9	12.6	11.2	9.5	8.4	7.8	7.4	9.6	20.2	−0.3	Dec.
46.6	48.1	49.1	49.4	48.8	47.2	45.5	42.9	40.6	38.9	37.5	40.1	51.5	29.4	Year.

BOSTON, MASS.

[h_t=115 ft.; local time, 16m fast.]

31.2	31.7	31.0	30.5	29.5	28.8	28.4	27.9	27.2	26.7	26.3	27.2	33.8	19.5	Jan.
33.2	33.8	33.4	32.9	32.0	30.8	29.9	29.3	28.6	27.9	27.5	28.8	35.1	22.6	Feb.
47.7	48.3	47.3	46.6	45.5	44.1	43.2	42.3	41.7	40.9	40.4	42.9	50.3	36.4	Mar.
52.5	53.1	52.6	52.5	51.9	50.9	49.8	48.8	47.8	46.8	46.0	48.1	55.9	40.9	Apr.
63.3	63.4	63.5	63.5	62.9	60.8	58.7	57.0	55.7	54.6	53.5	57.4	66.7	48.6	May.
70.1	70.0	69.6	69.4	68.1	66.6	64.7	63.3	62.5	61.3	60.2	64.0	73.8	54.8	June.
73.1	73.0	72.9	72.4	71.7	69.6	68.3	67.3	66.4	65.7	65.1	68.0	75.0	60.7	July.
71.6	72.5	72.4	71.7	71.0	69.8	68.4	67.1	66.0	65.1	64.2	67.2	75.1	60.1	Aug.
67.6	67.5	66.7	65.9	65.1	63.7	62.8	62.0	61.3	60.6	59.8	62.7	69.0	56.2	Sept.
59.8	59.3	58.5	57.4	56.0	54.6	54.1	53.2	52.6	51.8	51.4	54.2	61.5	45.7	Oct.
52.2	52.2	51.6	50.3	48.8	47.7	47.1	46.1	45.3	44.6	44.2	46.4	54.5	37.9	Nov.
32.5	32.4	32.2	31.8	31.0	30.3	29.6	28.7	28.3	28.0	27.4	28.7	36.6	20.5	Dec.
54.6	54.8	54.3	53.7	52.8	51.5	50.4	49.4	48.6	47.8	47.2	49.6	57.3	42.0	Year.

BUFFALO, N. Y.

[h_t=178 ft.; local time, 16m slow.]

27.0	27.2	27.2	27.0	26.2	25.7	26.0	25.4	25.0	24.6	24.2	24.8	30.6	19.0	Jan.
25.9	26.1	26.1	25.2	24.3	23.6	23.3	22.8	22.4	21.9	21.5	22.3	28.1	16.3	Feb.
41.3	41.0	41.3	41.1	40.9	40.0	39.4	38.5	38.0	37.7	37.0	38.5	46.0	32.3	Mar.
47.2	47.2	47.0	46.2	45.3	44.7	44.8	44.4	43.7	42.6	42.4	44.2	51.9	38.1	Apr.
58.8	59.4	60.0	60.0	59.4	57.3	56.5	55.0	54.3	53.2	52.7	54.4	62.5	47.0	May.
64.0	64.3	64.5	64.4	64.2	63.6	63.0	61.9	61.5	60.6	60.3	61.4	67.6	55.2	June.
72.7	73.7	74.1	73.5	73.2	72.3	71.0	69.9	69.2	68.7	68.3	69.7	75.3	64.2	July.
72.2	72.4	72.3	72.3	71.4	69.7	68.8	67.2	66.4	65.3	64.5	67.3	74.1	59.9	Aug.
68.5	68.9	68.9	68.2	67.4	66.0	65.1	63.9	63.1	62.2	61.5	63.8	71.6	56.8	Sept.
55.5	55.8	55.6	55.0	54.1	53.2	52.7	51.9	51.5	51.1	50.5	51.9	58.9	44.6	Oct.
49.8	49.9	49.7	49.1	48.6	48.3	47.9	47.5	47.4	47.3	47.2	47.7	53.6	42.1	Nov.
29.8	29.8	29.3	28.7	28.3	28.2	28.3	27.5	27.2	26.9	26.6	27.9	33.3	21.8	Dec.
51.1	51.3	51.3	50.9	50.3	49.4	48.9	48.0	47.5	46.8	46.4	47.8	54.5	41.4	Year.

CHICAGO, ILL.

[h_t=241 ft.; local time, 50m slow.]

27.6	28.3	28.5	28.2	27.7	27.2	27.1	26.1	25.7	25.2	24.7	25.2	31.1	19.4	Jan.
23.2	24.0	24.3	24.3	24.0	23.2	22.4	21.8	21.3	20.6	20.1	20.7	26.3	15.2	Feb.
39.8	40.1	40.1	40.3	39.9	39.5	39.0	38.5	38.1	37.8	37.9	37.8	44.4	32.7	Mar.
48.5	49.4	49.9	50.3	49.5	49.1	48.7	47.8	47.3	46.4	45.4	46.0	54.2	38.7	Apr.
61.8	61.6	61.7	62.0	61.7	60.7	60.3	59.8	59.1	58.5	57.5	58.3	67.1	50.8	May.
67.4	66.9	66.4	65.7	65.0	64.1	64.2	62.9	62.7	62.3	61.9	63.5	71.8	56.7	June.
74.9	75.8	76.2	76.3	76.1	74.4	74.4	73.5	72.2	71.6	71.2	72.2	79.6	65.3	July.
70.4	70.9	71.2	71.2	70.8	70.5	69.5	69.0	68.7	68.1	67.6	68.3	73.3	63.5	Aug.
64.5	65.2	65.4	65.1	64.4	63.2	62.1	61.5	61.1	60.2	59.6	60.9	67.6	54.1	Sept.
57.8	58.9	59.2	59.5	59.2	58.2	57.3	55.9	55.4	54.6	54.2	54.7	61.8	48.7	Oct.
49.9	50.7	51.0	50.5	49.6	48.4	47.9	47.0	46.5	45.8	45.2	46.9	53.1	40.8	Nov.
28.0	28.4	28.5	28.1	27.8	27.5	27.4	26.9	26.3	26.2	25.8	26.2	31.8	21.2	Dec.
51.2	51.7	51.9	51.8	51.3	50.5	50.0	49.2	48.7	48.1	47.6	48.4	55.2	42.3	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

CINCINNATI, OHIO.

[λ=39° 6′ N.; φ=84° 30′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.1	28.1	27.6	27.1	26.6	26.5	26.5	27.2	27.1	28.3	30.4	32.3	33.8
Feb	24.0	23.4	22.6	22.1	21.6	21.1	20.5	20.4	20.8	21.8	23.4	25.3	27.0
Mar	42.5	41.7	41.0	40.2	39.9	39.5	39.4	40.5	41.4	43.2	44.9	46.5	48.4
Apr	49.8	49.0	48.3	47.2	46.3	45.8	45.6	46.4	48.3	50.0	52.6	54.6	56.7
May	63.1	62.4	61.0	60.2	59.2	58.9	59.3	61.7	64.7	67.2	69.9	71.8	73.5
June	68.5	67.1	65.9	65.0	64.6	63.9	64.3	66.1	69.3	71.0	73.3	74.7	76.2
July	72.4	71.8	70.7	70.0	69.1	68.6	69.5	72.0	75.5	78.0	80.4	82.0	82.9
Aug	70.5	69.7	68.7	67.9	67.2	66.3	65.5	67.1	70.2	72.9	75.7	77.8	79.7
Sept	63.6	62.5	61.3	60.4	59.5	58.9	58.4	59.5	62.8	66.1	68.7	70.6	72.0
Oct	55.1	54.2	53.5	52.6	51.8	51.4	50.9	51.6	54.4	57.0	60.2	62.4	64.2
Nov	49.9	49.6	49.0	48.6	48.6	48.2	47.8	47.8	48.4	50.3	52.7	54.8	56.6
Dec	31.7	31.2	30.6	30.3	30.2	30.4	30.5	30.9	30.9	31.6	32.3	33.2	34.9
Year	51.7	50.9	50.0	49.3	48.7	48.3	48.2	49.3	51.2	53.1	55.4	57.2	58.8

CLEVELAND, OHIO.

[λ=41° 30′ N.; φ=81° 42′ W.]

Jan	25.3	24.7	24.2	23.9	23.7	23.6	23.6	23.5	23.9	24.4	25.6	26.5	27.2
Feb	19.6	19.3	19.1	19.0	18.4	17.9	17.8	18.1	18.5	19.4	21.1	22.7	23.9
Mar	38.2	37.7	36.7	36.5	36.1	35.5	34.8	35.4	36.6	37.8	39.0	39.8	40.8
Apr	43.5	43.3	43.3	43.2	43.0	42.5	42.4	43.3	45.0	45.3	46.1	46.5	47.3
May	55.0	54.4	53.9	53.1	52.3	52.3	52.8	54.6	56.9	58.2	58.8	59.0	59.1
June	61.4	60.2	60.0	59.5	59.4	59.3	60.1	61.3	62.3	63.4	64.7	65.7	67.0
July	68.9	67.7	67.6	67.4	67.4	67.0	67.5	69.2	71.9	73.6	74.8	75.3	75.6
Aug	65.1	64.0	63.1	62.5	62.2	61.5	61.9	64.1	66.4	67.7	69.1	69.8	70.6
Sept	59.4	58.5	57.6	57.5	57.2	56.6	56.7	58.2	60.7	63.0	65.3	66.8	67.7
Oct	51.6	50.9	50.3	49.7	49.4	48.8	48.7	49.6	51.4	53.5	55.5	56.7	57.1
Nov	47.7	47.5	46.9	46.4	46.1	45.6	45.3	45.4	46.0	46.9	48.7	49.8	51.0
Dec	27.7	27.7	27.7	27.6	27.6	27.6	27.8	28.1	28.7	29.4	30.4	31.1	31.7
Year	47.0	46.3	45.9	45.5	45.2	44.8	45.0	45.9	47.4	48.6	49.9	50.8	51.6

DETROIT, MICH.

[λ=42° 20′ N.; φ=83° 3′ W.]

Jan	23.1	22.7	22.3	21.9	21.8	21.6	21.9	22.1	22.5	23.4	24.9	26.1	27.3
Feb	19.9	19.5	19.4	19.0	18.9	18.7	18.5	18.7	19.8	21.4	23.8	25.4	26.9
Mar	35.8	35.4	35.0	34.8	34.3	34.2	34.4	35.2	36.8	38.4	40.2	42.1	43.6
Apr	43.7	43.2	42.6	42.5	41.9	41.1	40.8	42.1	43.8	46.5	48.3	49.5	50.4
May	53.1	52.4	51.6	51.2	50.8	50.4	51.7	53.5	56.5	58.8	60.5	61.7	63.0
June	59.4	59.0	58.3	57.6	56.9	56.9	57.9	59.3	61.4	63.1	65.3	67.1	68.9
July	68.3	67.7	66.9	66.4	66.0	66.0	67.2	69.8	72.5	74.5	76.2	77.4	78.7
Aug	64.1	63.1	62.2	61.5	61.0	60.6	61.3	63.9	67.0	69.3	71.1	72.5	73.4
Sept	58.6	57.9	57.3	56.7	56.6	56.2	56.4	57.6	59.8	62.0	64.0	65.8	67.4
Oct	49.3	49.1	48.5	48.0	47.6	47.4	47.2	47.6	49.5	51.5	54.0	55.8	57.1
Nov	45.5	45.9	44.7	44.4	44.2	43.8	43.5	43.7	44.4	45.8	47.1	48.5	49.5
Dec	26.4	26.4	26.2	26.0	26.0	25.7	25.7	25.7	26.2	26.9	27.7	28.5	29.0
Year	45.6	45.2	44.6	44.2	43.8	43.6	43.9	44.9	46.7	48.5	50.3	51.7	52.9

DODGE, KANS.

[λ=37° 45′ N.; φ=100° 0′ W.]

Jan	26.4	25.1	23.9	23.1	22.7	22.2	21.7	20.9	20.6	22.5	28.4	33.3	36.7
Feb	26.5	25.6	25.1	24.7	23.9	23.8	23.0	22.1	22.1	25.0	28.7	32.2	35.9
Mar	40.3	39.2	38.1	37.4	36.5	36.0	34.8	33.9	35.8	39.7	44.5	47.5	50.6
Apr	49.1	48.1	47.1	46.3	45.3	44.2	43.6	44.3	47.7	51.8	56.3	59.5	62.5
May	65.5	61.0	60.0	59.6	58.9	58.6	58.2	59.5	62.4	65.3	67.9	70.7	72.4
June	65.9	65.0	63.5	63.4	62.7	61.9	61.5	62.9	65.3	68.4	71.4	73.8	76.1
July	70.4	69.1	68.2	67.4	66.7	66.1	65.7	67.8	71.6	75.5	79.2	81.6	83.5
Aug	73.2	72.3	71.0	69.4	68.6	67.9	67.1	68.1	71.8	76.0	80.3	83.6	86.8
Sept	59.2	58.4	58.0	56.9	56.4	55.5	54.3	54.2	57.6	61.8	66.0	68.8	71.5
Oct	53.3	52.5	51.5	50.3	49.6	48.7	47.9	46.9	48.2	53.3	59.0	63.2	67.5
Nov	39.6	38.8	38.5	38.0	37.5	37.0	36.2	36.1	36.2	38.7	42.5	46.0	48.9
Dec	23.6	23.1	22.6	21.6	21.3	20.6	19.8	20.4	20.1	21.0	23.7	28.3	31.8
Year	49.1	48.2	47.3	46.5	45.8	45.2	44.5	44.8	46.6	49.9	54.0	57.4	60.4

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

CINCINNATI, OHIO.

[h_t=152 ft.; local time, 38m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
35.2	36.4	37.1	37.2	36.3	34.9	33.5	32.7	31.7	31.0	30.0	31.1	39.0	24.0	Jan.
28.2	29.6	30.2	30.3	29.9	28.8	27.6	27.2	26.2	25.4	24.9	25.1	32.1	18.1	Feb.
49.7	50.6	51.1	50.9	50.5	49.2	48.0	46.5	45.4	44.1	43.4	44.9	53.2	36.4	Mar.
58.1	59.4	60.1	60.3	59.6	58.2	57.1	55.5	54.1	52.9	51.7	52.8	62.1	43.4	Apr.
75.0	76.2	76.2	75.5	75.0	73.8	71.9	69.3	67.7	65.9	64.5	67.7	78.0	57.2	May.
77.1	78.3	79.2	79.3	79.2	77.5	75.7	73.5	72.0	70.5	69.3	71.7	80.7	62.8	June.
84.4	84.5	85.6	85.6	84.8	83.1	81.2	78.9	76.9	75.3	74.1	77.4	87.0	67.7	July.
81.1	82.2	82.4	82.9	81.9	80.5	78.6	76.5	74.9	73.3	72.2	74.4	83.7	64.9	Aug.
72.9	73.6	73.9	74.0	73.1	71.6	70.0	67.9	66.5	65.1	64.0	66.5	75.9	57.4	Sept.
65.5	66.2	66.7	66.0	64.9	63.1	60.9	59.2	57.9	56.6	55.8	58.4	68.0	49.3	Oct.
58.1	58.7	58.8	58.1	56.5	54.9	54.0	52.6	51.8	50.7	49.8	52.4	59.6	45.2	Nov.
35.9	36.3	36.7	36.6	36.3	35.2	34.8	33.8	33.0	32.4	31.9	33.0	39.9	26.0	Dec.
60.1	61.0	61.5	61.4	60.7	59.2	57.8	56.1	54.8	53.6	52.6	54.6	63.3	46.0	Year.

CLEVELAND, OHIO.

[h_t=190 ft.; local time, 27m slow.]

28.1	28.5	28.8	28.3	28.2	27.8	27.3	26.6	26.3	25.8	25.4	25.9	31.6	20.8	Jan.
24.7	25.0	25.1	24.8	24.6	23.9	23.5	22.5	22.1	21.5	20.8	21.4	27.0	15.1	Feb.
41.7	42.2	42.7	43.0	43.2	42.6	41.5	40.8	39.9	39.0	38.4	39.2	46.3	32.9	Mar.
47.3	47.8	48.2	48.6	48.7	48.6	47.6	47.2	46.1	45.4	44.7	45.6	53.1	38.8	Apr.
59.2	60.4	61.0	60.8	61.3	61.5	60.7	60.4	59.0	58.0	56.6	57.5	66.2	49.1	May.
67.8	68.3	68.6	68.9	69.2	68.1	66.8	65.6	64.1	62.5	62.2	64.0	72.0	56.9	June.
76.1	76.5	77.5	77.0	77.5	76.7	75.4	74.5	72.5	71.2	70.5	72.5	79.7	64.7	July.
71.3	71.6	72.2	73.0	73.0	72.2	70.7	69.6	68.3	67.3	66.2	67.6	74.7	60.4	Aug.
68.3	69.0	69.2	69.1	68.6	67.0	65.5	64.0	62.3	61.1	60.3	62.9	71.4	54.4	Sept.
57.7	58.0	58.4	57.9	57.0	55.8	54.7	53.7	52.7	52.4	51.6	53.5	60.7	46.0	Oct.
51.7	52.2	52.2	52.0	51.1	50.0	49.3	48.9	48.5	48.0	47.5	48.5	55.3	42.4	Nov.
31.7	32.0	31.8	31.1	30.5	29.7	29.1	28.3	27.9	27.6	27.5	29.2	34.7	22.9	Dec.
52.1	52.6	53.0	52.9	52.7	52.0	51.0	50.2	49.1	48.3	47.6	49.0	56.1	42.0	Year.

DETROIT, MICH.

[h_t=153 ft.; local time, 32m slow.]

27.8	28.3	28.3	27.9	27.2	26.4	26.2	25.6	25.1	24.3	23.9	24.7	30.1	19.2	Jan.
27.1	27.3	27.7	27.2	25.9	25.0	24.4	23.4	22.7	21.7	21.2	22.6	29.1	16.0	Feb.
44.7	45.5	45.6	45.2	43.5	41.5	40.2	38.7	37.8	36.9	36.1	39.0	47.0	31.6	Mar.
51.5	52.2	52.7	52.5	51.5	50.4	48.8	47.1	46.0	44.9	44.4	46.6	55.4	39.0	Apr.
64.4	65.7	65.7	65.6	65.5	63.6	61.7	58.9	57.4	56.0	54.8	58.1	68.2	48.7	May.
69.8	70.8	70.8	70.8	69.6	67.2	65.2	63.4	62.4	61.3	60.4	63.5	72.8	55.0	June.
78.7	78.7	79.2	78.2	78.0	76.2	74.8	73.0	71.7	70.5	69.5	72.7	81.4	64.3	July.
74.4	74.4	74.8	75.1	74.3	73.0	70.7	68.3	66.9	65.8	65.0	68.1	76.5	59.4	Aug.
68.1	68.7	68.6	68.1	66.6	64.6	63.2	61.6	60.3	59.5	58.6	61.8	70.4	54.0	Sept.
58.1	58.5	58.2	57.4	55.9	54.0	52.8	51.8	51.0	50.2	49.6	52.1	60.2	44.5	Oct.
50.3	50.2	50.7	49.4	48.6	47.6	47.1	46.1	45.9	45.3	45.2	46.6	53.0	40.8	Nov.
29.7	30.1	29.9	29.0	28.3	27.5	27.7	27.1	26.9	26.7	26.4	27.3	32.3	21.6	Dec.
53.7	54.2	54.4	53.9	52.9	51.4	50.2	48.8	47.8	46.9	46.3	48.6	56.4	41.2	Year.

DODGE, KANS.

[h_t= 44 ft.; local time, 1h 40m slow.]

39.5	41.5	43.1	42.4	40.7	36.6	33.0	30.8	29.0	27.9	26.6	29.9	44.3	17.4	Jan.
38.4	40.8	41.8	42.0	40.9	37.9	34.9	32.2	30.4	28.9	27.8	30.6	44.0	19.9	Feb.
52.7	54.3	55.5	56.1	55.5	53.7	50.2	46.7	45.1	43.2	41.8	44.5	58.0	32.7	Mar.
64.8	66.9	67.8	68.4	68.1	66.9	64.1	59.0	55.8	53.2	51.6	55.5	70.2	41.4	Apr.
74.1	76.1	76.5	76.7	76.3	74.4	72.3	68.3	65.3	64.5	63.0	66.8	78.4	56.5	May.
78.0	79.5	80.1	80.3	79.4	78.1	76.6	72.5	69.9	68.3	67.0	70.5	82.4	59.8	June.
85.1	86.9	87.3	87.3	85.7	83.5	81.7	77.9	74.3	72.8	71.5	76.1	88.8	65.0	July.
89.2	90.8	90.8	90.3	89.5	88.1	85.6	80.8	77.9	75.9	74.5	78.7	93.5	65.8	Aug.
73.0	74.6	75.5	75.8	74.1	72.1	68.6	65.0	62.6	61.1	59.6	64.2	78.1	50.9	Sept.
70.1	71.9	72.7	72.9	71.6	67.3	62.3	59.5	57.5	55.4	54.2	58.6	74.2	45.2	Oct.
51.0	52.6	53.5	53.4	52.0	48.2	45.2	43.0	41.9	41.1	39.8	43.2	55.2	32.2	Nov.
34.5	35.5	36.2	36.0	34.3	31.3	28.7	27.3	26.5	25.5	24.7	26.6	37.7	17.6	Dec.
62.5	64.3	65.1	65.1	64.0	61.5	58.6	55.2	53.0	51.5	50.2	53.8	67.1	42.0	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

EASTPORT, ME.

[λ=44° 54′ N.; φ=66° 59′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	21.1	20.5	19.9	19.3	18.9	18.7	18.8	19.1	19.5	20.4	21.3	22.1	23.1
Feb	23.0	22.8	22.4	22.2	21.9	21.6	21.5	21.9	22.5	23.1	24.2	25.3	26.6
Mar	35.2	34.9	34.5	34.1	33.8	33.5	33.8	34.5	35.5	36.5	37.6	38.6	39.4
Apr	38.1	37.7	37.2	37.0	36.9	37.0	38.0	39.1	40.9	42.3	43.4	44.7	45.3
May	43.2	42.6	42.2	41.8	41.5	42.5	43.7	44.8	46.6	48.4	50.4	51.1	52.1
June	49.3	49.0	48.5	48.0	48.4	49.4	51.1	52.5	54.3	55.9	56.5	57.5	58.5
July	55.1	55.0	54.9	54.3	54.2	55.6	57.4	59.4	61.5	62.8	64.4	65.1	65.9
Aug	55.9	55.5	55.0	54.8	54.5	55.4	56.8	58.5	61.1	62.9	64.1	64.5	64.8
Sept	53.5	53.2	52.9	52.6	52.4	52.8	53.9	55.4	57.1	58.2	59.7	61.3	61.6
Oct	45.9	45.5	45.4	45.0	44.8	44.8	45.3	46.3	47.7	48.5	49.6	50.5	50.7
Nov	38.1	38.0	37.9	37.9	37.8	37.8	37.5	37.9	38.9	40.0	41.6	42.5	42.9
Dec	22.3	21.6	20.9	20.2	19.9	19.6	19.3	19.1	19.6	20.6	21.8	22.9	23.9
Year	40.1	39.7	39.3	38.9	38.8	39.1	39.8	40.7	42.1	43.3	44.6	45.5	46.2

GALVESTON, TEX.

[λ=29° 18′ N.; φ=94° 50′ W.]

Jan	51.0	50.6	50.5	50.2	49.9	49.5	49.2	49.2	48.9	49.6	50.6	52.2	53.0
Feb	50.8	50.6	50.1	49.8	49.6	49.2	48.9	48.8	48.6	49.4	50.4	51.3	52.5
Mar	61.3	60.9	60.6	60.1	59.9	59.8	59.6	59.3	59.5	60.4	61.4	62.8	63.9
Apr	67.7	67.7	67.3	67.2	66.7	66.6	66.5	66.7	67.3	68.2	69.2	70.1	70.9
May	75.9	75.7	75.7	75.3	75.2	75.1	75.1	75.4	76.0	76.6	77.5	78.2	78.5
June	81.3	81.0	80.8	80.3	80.2	80.0	80.0	80.0	80.7	82.1	82.8	83.7	84.2
July	81.4	81.3	81.2	80.9	80.5	80.5	80.3	80.7	81.2	82.1	82.6	83.6	84.4
Aug	82.4	82.1	81.8	81.5	81.4	81.1	80.7	80.5	80.9	82.4	83.5	84.9	85.8
Sept	78.8	78.7	78.6	78.3	78.0	77.5	77.1	76.2	76.1	76.5	77.5	79.1	80.3
Oct	72.8	72.7	72.2	71.7	71.5	70.9	70.4	69.6	69.3	70.1	71.5	72.9	73.9
Nov	67.6	67.2	67.1	66.9	66.6	66.4	66.2	66.0	65.9	66.3	67.3	68.0	68.9
Dec	56.2	56.0	55.4	54.8	54.5	53.8	53.5	53.8	53.6	54.5	55.7	57.0	58.1
Year	68.9	68.7	68.4	68.1	67.8	67.5	67.3	67.2	67.3	68.2	69.2	70.3	71.2

HAVRE, MONT.

[λ=48° 34′ N.; φ=109° 40′ W.]

Jan	20.2	19.8	20.0	19.8	20.3	20.2	19.3	18.8	18.1	17.5	18.1	19.5	22.8
Feb	15.2	14.7	14.0	13.9	13.8	13.6	13.6	13.3	12.9	12.1	13.8	15.8	18.8
Mar	28.9	28.2	27.6	27.3	26.8	26.2	25.6	25.5	25.6	26.9	29.3	31.5	34.0
Apr	39.8	38.4	36.3	35.6	35.1	33.9	32.6	31.9	34.7	38.2	42.6	46.4	49.9
May	52.2	51.1	49.8	49.2	47.8	46.8	45.8	47.1	49.5	51.6	54.8	57.7	60.6
June	53.1	52.0	50.7	49.9	48.8	48.2	47.4	48.7	52.2	54.4	57.2	59.3	61.9
July	60.9	58.9	57.6	57.0	55.6	55.0	54.2	55.4	59.2	62.1	66.3	69.5	72.1
Aug	62.3	60.2	55.2	57.0	55.4	54.0	53.0	53.1	56.9	60.7	65.9	69.9	73.0
Sept	51.0	49.5	48.2	47.5	46.0	45.6	44.4	43.6	44.2	47.1	51.8	55.2	59.0
Oct	42.9	41.4	39.9	38.9	38.2	37.2	36.4	36.0	35.0	36.5	41.5	45.6	50.6
Nov	26.6	26.5	26.2	26.0	25.9	25.6	24.0	23.3	22.7	23.0	24.8	27.1	29.2
Dec	9.0	8.6	8.9	8.1	8.0	8.4	8.7	9.3	9.2	8.8	8.8	10.2	12.4
Year	38.5	37.4	36.2	35.8	35.1	34.6	33.8	33.8	35.0	36.6	39.6	42.3	45.4

KANSAS CITY, MO.

[λ=39° 5′ N.; φ=94° 37′ W.]

Jan	29.5	28.6	27.5	26.8	26.1	25.3	24.6	24.5	24.2	24.2	26.5	28.7	30.9
Feb	22.5	21.7	21.1	20.4	20.0	19.7	19.1	18.8	18.3	19.7	21.5	23.5	25.7
Mar	43.0	41.8	41.3	40.5	40.0	39.4	38.6	37.9	38.7	40.6	42.4	44.7	46.6
Apr	50.6	49.3	48.4	47.7	46.9	46.2	45.9	46.3	48.7	51.8	54.4	56.8	58.6
May	65.9	65.2	64.5	63.9	63.4	62.8	62.5	63.2	65.5	67.2	69.3	71.2	73.2
June	67.6	66.8	66.0	65.5	65.0	64.6	64.1	65.1	66.9	68.8	70.9	72.0	73.1
July	74.1	73.0	72.4	71.6	71.1	70.4	69.9	71.3	73.6	75.7	77.9	79.9	81.7
Aug	72.9	72.0	71.1	70.7	70.3	69.5	69.2	69.4	70.8	72.9	75.4	77.4	79.1
Sept	60.3	59.7	58.7	58.0	57.5	57.2	56.6	56.5	59.2	61.6	64.6	66.3	68.4
Oct	58.0	57.1	56.0	55.2	54.5	53.7	52.9	52.5	54.0	56.5	60.0	62.5	65.7
Nov	47.4	47.1	46.5	46.1	45.3	44.9	44.4	44.3	44.5	45.3	47.0	48.4	50.0
Dec	28.0	27.5	27.1	26.8	26.1	26.1	25.9	25.9	25.5	25.9	27.0	28.5	30.2
Year	51.6	50.8	50.0	49.4	48.8	48.3	47.8	48.0	49.2	50.8	53.1	55.0	56.9

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

EASTPORT, ME.

[h_t=69 ft.; local time, 32m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
23.9	24.5	24.5	24.2	23.7	23.2	23.1	22.5	22.1	21.5	21.2	21.6	29.5	14.2	Jan.
27.2	27.6	27.4	26.9	26.5	26.3	26.0	25.3	24.9	24.4	24.0	24.4	29.5	18.6	Feb.
39.6	39.5	39.2	38.4	37.7	37.1	36.7	36.2	35.9	35.6	35.4	36.4	41.5	31.3	Mar.
45.8	45.9	45.5	44.4	43.2	41.4	40.9	40.1	39.7	39.0	38.7	40.9	47.9	35.4	Apr.
52.8	51.7	51.2	51.1	49.9	48.2	47.2	46.1	45.4	44.5	43.6	46.8	55.7	39.9	May.
59.1	59.2	58.6	57.3	56.0	54.2	52.7	51.5	51.5	51.0	50.1	53.3	62.4	46.6	June.
65.8	65.5	65.6	64.8	63.8	62.2	60.2	58.7	58.5	57.2	56.4	60.2	69.2	52.3	July.
65.5	64.6	64.4	63.2	62.1	60.3	59.3	58.1	57.7	56.9	56.4	59.7	67.8	53.3	Aug.
61.1	60.6	60.4	58.6	57.1	55.9	55.7	54.7	54.2	53.8	53.6	56.3	63.6	50.1	Sept.
51.0	51.2	50.5	49.2	48.5	47.8	47.6	46.8	46.5	46.2	45.8	47.5	53.8	40.1	Oct.
43.2	42.9	41.9	41.0	40.2	39.5	39.3	38.9	38.6	38.4	38.3	39.6	45.5	33.5	Nov.
24.5	24.9	25.0	24.7	24.5	24.2	24.3	23.5	23.4	22.8	22.5	22.3	30.3	14.5	Dec.
46.6	46.5	46.2	45.3	44.4	43.4	42.8	41.9	41.5	40.9	40.5	42.4	49.7	35.8	Year.

GALVESTON, TEX.

[h_t=106 ft.; local time, 1h 19m slow.]

53.3	53.8	54.1	54.2	54.1	52.9	52.6	51.9	51.5	51.2	51.0	51.5	56.6	46.8	Jan.
53.5	53.9	54.4	54.6	54.4	53.7	52.9	52.5	52.2	52.0	51.9	51.5	57.2	46.5	Feb.
64.4	64.7	65.2	65.0	64.9	64.2	63.2	62.7	62.3	61.8	61.3	62.1	66.6	57.9	Mar.
71.4	71.7	71.7	71.4	71.1	70.6	69.5	69.0	69.0	68.8	68.4	68.9	72.7	65.9	Apr.
79.1	79.0	79.1	79.3	79.0	78.6	77.8	77.0	76.5	76.5	76.2	77.0	80.1	74.2	May.
84.1	84.5	85.1	84.7	84.3	83.4	82.9	82.5	81.9	81.8	81.6	82.2	85.5	78.8	June.
84.8	85.2	84.8	84.5	84.0	83.4	82.8	82.3	81.9	81.7	81.5	82.4	86.2	78.4	July.
86.3	86.3	86.3	86.0	85.8	85.4	84.3	83.5	83.0	82.6	82.5	83.4	86.9	80.3	Aug.
80.9	81.6	81.6	81.6	81.3	81.0	80.1	79.8	79.5	79.4	79.0	79.1	83.3	74.8	Sept.
74.5	74.9	75.4	75.4	75.4	74.9	74.1	73.7	73.6	73.6	73.2	72.8	76.5	68.2	Oct.
69.2	69.0	69.2	69.3	69.2	68.6	67.7	67.6	67.6	67.3	67.2	67.6	71.9	64.2	Nov.
58.5	58.7	59.2	59.1	58.8	58.2	57.5	56.9	56.7	56.6	56.3	56.4	62.3	51.1	Dec.
71.7	71.9	72.2	72.1	71.9	71.2	70.4	70.0	69.6	69.4	69.2	69.6	73.8	65.6	Year.

HAVRE, MONT.

[h_t=46 ft.; local time, 2h 19m slow.]

25.5	26.9	28.0	28.5	28.5	26.3	23.7	22.3	21.7	20.9	19.8	21.9	32.5	12.0	Jan.
20.7	22.4	23.5	24.1	24.2	23.3	21.5	19.1	17.9	17.1	16.5	17.3	26.1	8.4	Feb.
36.0	37.7	39.4	40.5	40.6	40.2	38.8	35.8	33.7	32.1	30.7	32.0	43.1	22.1	Mar.
51.8	53.3	54.6	55.4	55.5	54.3	53.1	50.0	47.2	44.5	42.9	44.1	57.4	30.5	Apr.
62.3	63.4	64.7	65.2	64.9	64.9	64.4	62.1	59.4	55.7	53.9	56.0	67.7	44.8	May.
63.2	64.8	65.1	65.3	65.6	65.4	64.8	62.5	60.2	56.9	55.0	57.2	68.1	46.4	June.
74.2	75.7	76.9	77.3	77.1	76.8	75.9	74.1	71.4	66.5	63.7	66.4	79.2	52.8	July.
75.2	77.1	78.3	79.1	79.0	78.0	80.4	73.4	69.4	66.1	64.0	66.5	80.6	51.5	Aug.
61.4	64.4	65.4	66.5	66.5	65.7	64.5	61.0	57.6	54.6	52.5	54.7	70.7	40.3	Sept.
54.5	57.7	59.5	60.4	60.1	58.2	54.6	50.1	47.9	45.9	44.4	46.4	61.7	33.5	Oct.
30.4	31.4	31.9	31.9	31.1	28.9	28.3	27.6	26.9	26.6	26.2	27.2	35.2	18.0	Nov.
13.3	14.0	14.0	14.2	13.5	11.5	11.0	9.9	9.2	8.8	8.8	10.3	18.3	1.0	Dec.
47.4	49.1	50.1	50.7	50.6	49.5	48.4	45.7	43.5	41.3	39.9	41.7	53.4	30.1	Year.

KANSAS CITY, MO.

[h_t=78 ft.; local time, 1h 18m slow.]

32.7	34.4	35.4	36.1	35.8	34.6	33.4	32.1	31.3	30.7	29.9	29.8	39.1	22.4	Jan.
27.2	28.6	29.2	29.3	28.7	28.0	27.0	25.5	24.8	24.1	23.5	23.7	30.8	16.1	Feb.
48.7	50.0	51.3	51.6	51.3	50.1	49.1	47.2	46.1	44.9	43.9	44.6	53.5	36.1	Mar.
60.4	61.6	62.2	62.4	61.6	60.5	58.8	56.2	54.6	53.5	52.4	54.0	64.3	43.7	Apr.
74.8	76.3	76.9	77.4	76.0	75.1	73.7	70.6	69.5	68.2	67.4	69.3	78.4	60.4	May.
74.4	75.3	75.9	76.4	76.1	75.3	74.1	72.0	70.1	68.9	68.0	70.1	78.3	62.6	June.
82.5	83.4	84.2	84.4	83.5	82.5	81.5	78.6	77.4	76.4	75.5	77.2	86.2	69.0	July.
80.3	81.8	82.7	82.5	82.6	81.1	79.8	77.1	76.1	74.8	73.8	75.6	85.1	67.3	Aug.
69.9	70.8	71.0	70.9	70.3	68.5	66.6	64.2	62.9	61.7	60.9	63.4	73.0	54.7	Sept.
67.4	68.7	69.5	68.9	68.1	65.6	63.8	62.0	61.1	60.2	59.5	60.6	70.5	51.6	Oct.
51.3	52.7	53.7	53.5	52.7	51.1	50.3	49.1	48.5	47.8	47.5	48.3	56.7	41.4	Nov.
31.4	32.3	32.9	32.7	32.4	31.5	30.9	30.2	29.5	29.0	28.6	28.8	35.6	22.5	Dec.
58.4	59.7	60.4	60.5	59.9	58.7	57.4	55.4	54.3	53.4	52.6	53.8	62.6	45.6	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KEY WEST, FLA.

[λ = 24° 34′ N.; φ = 81° 49′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	63.6	63.8	63.4	63.5	63.3	63.1	63.1	63.4	64.5	65.4	66.2	66.9	67.1
Feb	65.2	65.1	64.6	64.6	64.8	64.6	65.0	65.5	66.4	67.4	68.0	68.1	68.7
Mar	70.5	70.4	70.0	70.0	69.8	69.7	70.5	71.4	73.1	73.7	74.5	74.3	74.5
Apr	72.7	72.5	72.4	72.2	72.1	72.1	73.5	73.8	75.3	76.1	76.8	77.2	77.9
May	77.8	77.7	77.4	77.3	77.3	77.3	79.0	79.5	81.2	81.5	82.4	82.7	83.1
June	79.2	79.0	78.8	78.8	78.7	78.9	80.0	80.6	81.3	82.3	82.6	82.5	82.7
July	81.0	80.8	80.7	80.6	80.3	80.5	82.6	83.1	84.7	85.3	86.0	85.9	85.8
Aug	81.5	81.4	81.4	81.1	80.6	80.7	83.0	84.0	84.7	85.7	85.7	86.0	86.0
Sept	80.9	81.0	80.7	80.6	80.6	80.4	81.5	82.5	84.8	85.5	86.2	86.6	85.8
Oct	79.3	79.1	79.2	78.8	78.7	78.4	79.7	80.6	81.9	82.2	83.4	83.9	84.0
Nov	74.5	74.3	74.3	74.3	74.2	74.1	74.6	74.9	76.3	77.1	77.7	78.1	78.6
Dec	69.3	69.0	69.1	68.6	68.8	68.6	68.4	69.0	70.4	71.4	71.9	72.2	72.4
Year	74.6	74.5	74.3	74.2	74.1	74.0	75.1	75.7	77.0	77.8	78.4	78.7	78.9

MARQUETTE, MICH.

[λ = 46° 34′ N.; φ = 87° 24′ W.]

Jan	19.2	18.9	18.7	18.5	18.5	18.4	18.4	18.3	18.5	19.1	20.3	21.4	22.2
Feb	21.0	20.8	20.3	20.1	19.4	19.0	18.8	18.3	19.0	20.1	21.9	23.1	24.1
Mar	31.8	31.7	31.5	31.5	31.2	31.0	30.7	31.1	31.8	32.5	33.4	33.8	34.8
Apr	37.2	36.7	36.3	36.2	35.8	35.3	35.2	37.0	37.2	38.0	38.5	39.2	39.9
May	46.6	46.3	45.8	45.7	45.5	45.0	46.0	48.3	49.9	51.0	51.2	61.5	51.6
June	51.8	50.8	49.9	49.6	49.5	49.7	50.7	53.0	53.6	55.1	55.3	55.8	55.8
July	62.0	61.8	61.4	61.4	61.1	61.0	61.1	64.5	66.1	68.3	69.9	70.9	71.3
Aug	59.2	58.9	58.6	58.3	57.9	57.4	58.0	60.8	62.6	63.8	65.1	65.7	66.2
Sept	52.2	52.0	51.5	51.4	51.2	50.8	50.6	52.5	53.7	55.7	57.7	58.3	59.3
Oct	44.2	44.2	43.9	43.7	43.5	43.8	43.5	44.1	45.9	46.9	48.5	48.6	49.7
Nov	37.1	36.8	36.5	36.1	35.9	35.7	35.4	35.3	35.1	35.8	36.8	38.1	38.8
Dec	22.2	22.0	21.7	21.7	21.7	21.8	21.9	22.1	21.8	22.2	23.0	24.2	24.8
Year	40.4	40.1	39.7	39.5	39.3	39.1	39.2	40.4	41.3	42.4	43.5	45.0	44.9

MEMPHIS, TENN.

[λ = 35° 9′ N.; φ = 90° 3′ W.]

Jan	38.7	37.9	37.3	36.2	35.6	35.3	34.7	34.6	34.6	35.4	37.2	39.2	40.9
Feb	33.6	32.8	32.4	31.9	31.6	31.0	30.4	30.2	30.3	31.4	32.6	34.4	35.9
Mar	52.0	51.2	50.3	49.3	48.5	47.9	47.5	47.7	48.5	50.4	51.6	53.8	55.7
Apr	59.1	58.1	57.6	56.7	55.9	54.7	54.1	55.1	56.6	59.0	60.9	62.8	64.5
May	71.9	71.0	70.2	69.1	68.1	67.4	67.6	69.5	71.5	73.6	75.2	77.0	78.7
June	75.4	74.9	73.5	72.7	71.8	70.9	71.2	73.4	75.5	77.2	79.3	80.6	81.7
July	78.0	77.0	76.0	75.1	74.3	73.6	74.1	75.9	78.1	80.6	82.4	84.2	85.2
Aug	76.6	75.6	74.8	74.1	73.5	72.9	72.7	73.9	76.2	78.1	80.2	82.4	83.9
Sept	67.8	67.1	66.1	65.1	64.1	63.6	63.3	63.9	65.9	68.0	70.5	72.6	74.0
Oct	60.9	60.2	59.5	58.7	57.6	56.8	56.3	56.3	59.0	61.8	64.4	66.8	68.9
Nov	55.9	55.1	54.5	54.0	53.7	53.4	53.0	52.8	54.0	55.8	57.9	59.8	61.4
Dec	40.5	40.1	40.1	39.9	39.3	39.0	38.7	38.8	38.6	39.1	40.8	42.5	43.9
Year	59.2	58.4	57.7	56.9	56.2	55.5	55.3	56.0	57.4	59.2	61.1	63.0	64.6

NEW ORLEANS, LA.

[λ = 29° 58′ N.; φ = 90° 4′ W.]

Jan	50.5	50.1	49.2	48.7	48.1	47.8	47.7	47.7	47.6	49.2	52.0	54.2	55.9
Feb	48.4	47.2	46.7	46.2	46.0	45.5	45.1	45.2	45.9	47.6	49.6	51.1	52.6
Mar	60.0	59.8	60.1	60.0	59.4	58.6	58.3	58.3	59.7	62.0	64.5	66.4	67.9
Apr	64.0	63.4	63.1	62.9	62.5	62.3	62.1	63.0	66.3	68.5	70.9	72.5	73.7
May	73.1	72.5	72.2	71.9	71.7	71.4	71.8	73.9	77.6	79.7	81.5	82.9	84.3
June	77.6	76.9	76.4	75.9	75.5	75.4	76.4	78.7	81.4	83.5	85.2	86.6	87.0
July	77.7	77.3	77.1	76.8	76.5	76.5	77.3	79.3	82.2	84.2	85.5	87.4	87.5
Aug	79.0	78.5	78.0	77.7	77.6	77.4	77.4	79.4	82.3	84.8	86.8	88.1	88.3
Sept	74.4	74.2	73.8	73.7	73.5	73.1	73.0	73.9	76.2	79.4	81.2	82.3	82.4
Oct	66.8	65.9	65.2	64.6	64.2	63.6	63.3	64.1	66.5	69.3	71.5	73.0	73.7
Nov	63.2	62.7	62.5	62.2	61.5	60.9	60.6	60.7	61.9	64.9	67.9	69.8	70.6
Dec	51.7	51.3	51.2	50.9	50.5	50.3	49.8	49.8	50.1	51.9	54.1	55.8	57.1
Year	65.5	65.0	64.6	64.3	63.9	63.6	63.6	64.5	66.5	68.8	70.9	72.5	73.4

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KEY WEST, FLA.

[h_t = 43 ft.; local time, 27m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
67.5	67.5	67.1	66.2	65.2	64.7	64.6	64.4	64.3	64.1	61.4	64.9	69.2	61.3	Jan.
68.2	68.2	67.9	67.0	66.1	65.8	66.0	65.7	65.5	65.4	65.2	66.2	70.2	62.1	Feb.
74.6	74.8	74.3	73.7	72.6	71.6	71.5	71.0	70.9	70.6	70.6	72.0	76.9	68.2	Mar.
77.6	77.5	77.3	76.5	75.8	74.5	74.2	73.7	73.4	73.2	73.0	74.6	79.0	70.8	Apr.
83.2	82.4	82.3	81.3	80.5	79.0	78.8	78.5	78.3	78.2	78.1	79.8	84.0	76.1	May.
83.2	83.1	82.6	81.9	81.5	80.6	80.3	79.8	79.7	79.6	79.4	80.7	84.7	77.0	June.
86.0	85.8	85.4	85.1	84.4	83.1	82.7	82.3	81.6	81.4	81.3	83.2	87.4	78.9	July.
86.5	86.0	85.7	85.2	84.6	83.5	83.6	82.7	82.5	82.1	81.8	83.6	88.3	78.6	Aug.
85.4	85.2	84.9	84.6	83.6	82.6	82.5	82.0	81.9	81.7	81.5	83.0	87.5	78.3	Sept.
83.9	83.1	83.1	81.6	81.0	80.2	80.4	79.8	79.7	79.3	79.1	80.9	85.4	76.2	Oct.
78.3	77.7	77.1	76.3	75.6	75.3	75.4	75.2	75.0	74.8	74.7	75.8	79.7	72.5	Nov.
72.3	71.9	71.7	70.8	70.2	70.2	70.3	70.0	69.8	69.4	69.4	70.2	73.9	66.9	Dec.
78.9	78.6	78.3	77.5	76.8	75.9	75.9	75.4	75.2	75.0	74.8	76.2	80.5	72.2	Year.

MARQUETTE, MICH.

[h_t = 79 ft.; local time, 50m slow.]

22.6	22.9	23.1	22.7	22.2	21.7	21.4	20.5	20.2	19.8	19.5	20.3	25.5	14.2	Jan.
25.0	25.1	25.1	24.9	24.2	23.5	23.1	22.5	22.4	22.0	21.7	21.9	26.5	16.6	Feb.
34.8	35.0	35.3	35.4	35.2	34.6	33.8	33.1	32.8	32.5	32.2	33.0	38.7	27.9	Mar.
40.2	39.6	39.6	39.5	39.4	39.3	39.0	38.1	37.7	37.3	37.0	37.9	43.8	32.5	Apr.
51.7	52.4	52.5	50.9	50.4	50.0	49.5	48.8	48.4	48.4	48.0	49.0	58.0	42.0	May.
56.4	56.1	55.1	55.9	55.7	55.5	55.4	54.5	53.6	52.6	52.1	53.5	62.1	46.2	June.
71.0	70.5	70.9	70.2	69.8	67.8	67.6	66.3	65.5	64.7	63.7	66.2	75.0	58.1	July.
66.7	66.5	66.6	66.3	65.4	64.3	63.1	61.5	60.5	59.9	59.4	62.2	70.3	54.8	Aug.
59.6	59.4	59.0	58.4	58.0	56.4	54.8	53.8	53.1	52.6	52.2	54.8	61.9	47.7	Sept.
49.8	50.4	49.9	49.3	48.2	47.1	45.5	45.2	45.1	44.9	44.9	46.3	53.1	40.3	Oct.
39.5	39.7	40.2	40.0	39.1	38.7	38.3	37.4	37.3	36.7	36.4	37.4	42.6	33.0	Nov.
25.2	25.7	25.6	25.1	24.3	23.9	24.0	23.4	23.3	23.1	22.8	23.2	28.0	18.5	Dec.
45.2	45.3	45.2	44.9	44.3	43.6	43.0	42.1	41.7	41.2	40.8	42.1	48.8	36.0	Year.

MEMPHIS, TENN.

[h_t = 140 ft.; local time, 1h slow.]

42.8	43.9	44.2	44.3	43.6	42.4	42.0	41.1	40.5	39.9	38.9	39.2	47.4	32.3	Jan.
37.1	38.1	39.0	39.2	39.0	37.8	37.2	36.7	36.1	35.4	34.7	34.5	41.0	28.8	Feb.
57.5	58.4	59.0	59.6	59.1	58.0	57.1	55.9	54.7	53.7	53.0	53.3	61.8	45.7	Mar.
65.8	67.2	68.3	68.9	68.5	67.5	66.3	64.7	63.5	62.5	61.5	61.6	70.2	52.8	Apr.
80.3	80.9	81.1	81.5	81.1	79.6	78.3	76.1	74.6	73.9	72.6	74.6	83.3	66.2	May.
82.9	84.5	85.1	85.2	84.8	83.7	82.4	80.5	78.8	77.4	76.6	78.3	86.8	69.8	June.
86.2	86.9	87.9	88.0	87.1	85.9	85.1	82.8	81.3	80.0	79.0	81.0	89.0	73.2	July.
85.2	85.8	86.3	86.5	85.7	84.6	83.1	81.2	80.0	78.8	78.1	79.6	87.6	72.2	Aug.
75.4	76.2	77.0	76.7	76.0	74.6	73.3	71.6	70.6	69.1	68.2	70.0	78.5	61.8	Sept.
69.9	71.1	71.9	71.5	70.5	68.3	67.5	65.6	64.3	62.9	61.8	63.9	72.6	55.5	Oct.
62.5	63.2	63.4	62.9	61.8	60.6	60.0	58.6	57.6	56.8	56.0	57.7	65.0	50.9	Nov.
44.8	45.7	46.0	45.6	44.8	44.2	43.9	42.8	42.0	41.4	40.9	41.8	48.5	35.8	Dec.
65.9	66.8	67.4	67.5	66.8	65.6	64.7	63.1	62.0	61.0	60.1	61.3	69.3	53.8	Year.

NEW ORLEANS, LA.

[h_t = 88 ft.; local time, 1h slow.]

56.8	57.6	57.6	57.5	56.8	55.6	55.1	53.6	52.8	52.0	51.6	52.3	61.5	45.4	Jan.
54.1	55.1	55.8	55.8	54.9	53.8	52.8	51.1	50.3	49.4	49.0	50.0	57.5	42.9	Feb.
68.8	69.2	69.1	68.5	67.3	65.6	64.6	63.2	62.1	61.1	60.5	63.1	70.8	56.1	Mar.
74.3	75.2	75.5	75.3	74.0	72.0	70.5	68.2	67.0	65.9	65.1	68.3	77.0	61.1	Apr.
85.1	84.7	84.3	83.5	82.5	80.6	79.1	77.2	76.3	75.3	74.1	77.8	86.5	70.5	May.
88.4	89.5	88.8	88.4	87.0	85.6	83.5	81.5	79.9	78.8	78.1	81.9	91.0	74.8	June.
87.8	85.8	85.4	85.4	84.3	83.4	82.5	80.6	79.8	79.0	78.3	81.6	90.8	75.2	July.
87.5	88.4	88.6	88.5	87.3	85.6	83.7	82.3	81.3	80.3	79.6	82.8	92.4	76.3	Aug.
82.3	82.2	82.9	82.6	81.6	79.9	78.8	77.2	76.3	75.6	74.9	77.7	85.9	71.6	Sept.
74.8	75.2	75.3	75.0	73.8	71.5	70.5	69.2	68.5	67.7	67.1	69.2	76.8	62.4	Oct.
71.2	71.8	71.2	70.6	69.0	67.3	66.6	65.1	64.2	63.8	63.3	65.6	73.2	59.1	Nov.
58.0	58.6	58.9	58.2	56.8	55.7	55.3	54.1	53.4	52.4	52.0	53.7	61.2	46.8	Dec.
74.1	74.4	74.4	74.1	72.9	71.4	70.2	68.6	67.7	66.8	66.1	68.7	77.0	61.8	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

NEW YORK, N. Y.

[$\lambda = 40°$ 43′ N.; $\varphi = 74°$ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	28.4	28.1	27.5	27.1	26.7	26.5	26.4	26.5	26.6	27.8	29.0	29.9	30.8
Feb	27.0	26.8	26.0	25.9	25.6	25.5	25.7	25.8	26.6	27.7	29.0	29.8	30.3
Mar	41.4	41.0	40.5	40.2	39.8	40.0	39.9	40.8	42.0	43.7	45.2	46.5	47.5
Apr	46.9	46.2	45.9	45.4	44.9	44.8	45.2	46.5	48.2	50.3	52.3	53.2	54.5
May	56.3	55.5	54.9	54.3	53.7	53.9	55.0	56.7	58.5	61.3	62.6	64.2	64.6
June	64.0	63.2	62.5	62.0	61.7	61.7	62.7	64.2	65.8	68.7	71.1	72.2	73.2
July	69.4	68.8	68.4	68.1	67.7	68.0	68.8	70.1	71.7	74.2	76.1	77.5	77.9
Aug	68.0	67.4	66.5	65.9	65.4	65.2	66.0	67.3	69.0	71.8	74.0	75.3	76.3
Sept	63.9	63.3	62.7	62.4	61.9	61.7	62.3	63.6	64.7	66.9	68.0	69.0	69.8
Oct	55.1	54.5	53.8	53.4	53.2	52.8	52.8	53.3	54.9	56.7	58.5	60.0	61.2
Nov	48.2	47.6	47.2	47.0	46.7	46.2	46.4	47.1	47.7	49.2	50.7	52.1	53.2
Dec	31.2	30.8	30.5	30.6	30.4	30.3	29.9	29.9	30.1	31.5	32.6	33.9	34.8
Year	50.0	49.4	48.9	48.5	48.1	48.0	48.4	49.3	50.5	52.5	54.1	55.3	56.2

PHILADELPHIA, PA.

[$\lambda = 39°$ 57′ N.; $\varphi = 75°$ 9′ W.]

Jan	29.0	28.5	28.3	28.4	28.1	27.7	27.6	27.9	28.7	30.2	32.0	33.3	34.5
Feb	27.1	26.8	26.2	26.0	26.0	25.9	25.7	26.4	26.9	28.6	30.0	31.8	32.5
Mar	42.5	41.9	41.5	41.2	40.7	40.4	40.7	42.0	43.8	46.0	48.2	50.0	51.5
Apr	47.6	47.0	46.4	45.8	45.3	45.2	46.8	48.8	50.8	52.7	55.0	57.0	58.5
May	57.4	56.5	55.8	55.2	54.4	54.7	56.4	58.5	60.8	62.7	64.6	67.2	68.9
June	64.9	64.2	63.3	62.7	62.3	62.8	64.4	66.8	69.1	71.4	73.5	75.5	76.4
July	70.5	69.9	69.3	68.7	68.5	68.7	70.1	72.2	73.8	75.7	77.3	79.0	80.5
Aug	68.2	67.5	66.8	66.3	65.8	65.5	66.5	68.5	70.4	72.9	75.0	76.9	78.5
Sept	63.5	63.0	62.5	62.1	61.7	61.2	61.8	64.0	65.6	67.9	69.5	71.3	72.4
Oct	54.6	54.1	53.7	53.3	52.5	52.1	51.9	53.5	54.8	57.5	59.5	61.2	62.7
Nov	47.9	47.4	46.9	46.5	46.2	46.0	46.1	47.2	47.6	49.8	51.7	54.0	55.5
Dec	32.2	31.9	31.7	31.6	31.6	31.5	31.6	32.0	32.1	33.0	34.5	35.8	36.7
Year	50.4	49.9	49.4	49.0	48.6	48.5	49.1	50.6	52.0	54.0	55.9	57.8	59.0

PITTSBURG, PA.

[$\lambda = 40°$ 32′ N.; $\varphi = 80°$ 2′ W.]

Jan	29.1	28.9	28.6	28.1	27.6	27.4	26.7	26.6	26.8	27.7	29.0	30.4	31.6
Feb	24.5	24.0	23.5	23.1	22.9	22.4	22.4	22.3	22.7	23.7	25.3	27.0	28.4
Mar	41.6	40.8	40.3	39.8	39.4	39.0	38.4	38.6	39.4	41.6	43.1	45.3	46.8
Apr	47.2	46.5	45.8	45.6	45.5	45.2	45.2	46.5	48.1	50.8	52.9	54.3	55.6
May	60.2	59.1	57.9	56.9	56.0	55.4	55.9	58.4	61.0	64.5	67.0	68.8	70.7
June	64.9	64.1	63.4	62.7	62.2	61.5	61.9	64.9	67.3	69.6	71.3	72.7	73.6
July	70.7	69.9	68.9	68.4	67.8	67.6	69.1	71.3	74.6	77.2	79.0	80.8	81.7
Aug	66.4	65.5	64.6	63.7	62.8	62.4	62.9	64.8	68.8	72.1	74.5	76.5	78.2
Sept	62.8	61.7	60.9	60.3	59.4	59.2	59.2	60.3	63.4	65.9	69.3	70.8	72.2
Oct	54.7	53.8	53.0	52.3	51.7	51.5	51.2	52.1	53.9	56.7	59.6	61.4	63.1
Nov	48.8	48.1	47.2	47.0	46.8	46.9	47.2	47.8	48.4	50.0	52.3	54.2	55.8
Dec	30.7	30.5	30.4	30.2	30.3	30.0	30.2	30.5	31.0	32.0	33.2	34.0	34.9
Year	50.1	49.4	48.7	48.2	47.7	47.4	47.5	48.7	50.4	52.6	54.7	56.4	57.7

PORTLAND, OREG.

[$\lambda = 45°$ 32′ N.; $\varphi = 122°$ 43′ W.]

Jan	37.8	37.4	37.1	37.1	37.0	36.8	36.1	36.0	35.6	35.2	35.3	35.6	37.0
Feb	43.2	43.1	43.1	42.8	42.4	42.0	41.9	41.8	41.5	41.7	41.6	42.3	43.1
Mar	44.2	43.5	42.8	42.3	41.6	41.1	41.1	40.9	40.5	40.4	40.5	41.9	43.5
Apr	47.9	47.3	46.6	46.0	45.3	44.5	44.0	43.5	42.6	42.5	43.5	45.6	47.8
May	54.9	53.5	52.6	51.8	51.4	50.8	50.2	49.8	49.5	50.3	51.5	53.0	54.8
June	59.6	58.4	57.3	55.7	54.8	53.7	53.3	52.6	53.7	55.8	58.3	60.0	62.0
July	63.0	61.6	60.2	58.9	57.8	57.1	56.3	55.7	57.0	59.2	61.4	63.3	65.6
Aug	65.7	64.1	62.4	60.7	59.4	58.3	57.1	56.2	55.5	57.5	60.5	63.4	66.2
Sept	60.6	59.5	58.2	57.1	56.0	55.1	54.1	53.6	52.1	52.8	54.7	57.6	60.0
Oct	54.5	53.7	52.9	52.1	51.4	50.7	50.2	50.1	49.3	49.0	50.1	51.6	53.9
Nov	44.7	44.4	44.5	44.2	43.9	43.7	43.6	43.6	43.3	43.0	43.0	43.7	44.8
Dec	39.5	39.3	39.2	39.2	39.3	39.3	39.0	39.1	38.3	38.2	38.3	38.8	39.8
Year	51.3	50.5	49.7	49.0	48.4	47.8	47.2	46.9	46.6	47.1	48.2	49.7	51.5

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

NEW YORK, N. Y.

[h_t=108 ft.; local time, 4m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
32.1	32.6	32.8	32.4	31.4	31.0	30.5	29.7	29.3	29.1	28.7	29.2	35.5	22.9	Jan.
31.4	32.1	32.5	32.5	31.5	30.7	30.1	29.6	29.1	28.4	27.9	28.6	33.6	23.4	Feb.
48.0	48.3	48.7	47.8	46.4	45.0	44.3	43.4	42.7	42.1	41.7	43.6	50.8	37.1	Mar.
55.8	56.3	56.2	55.6	54.0	52.5	51.9	50.9	50.1	49.1	48.5	50.2	57.6	43.6	Apr.
65.5	65.8	65.9	65.4	64.4	62.7	61.4	60.0	59.4	58.1	57.5	59.9	68.2	52.1	May.
74.2	74.6	74.6	73.7	72.2	70.2	69.2	67.7	67.0	66.0	65.0	67.8	76.9	59.6	June.
78.3	78.6	79.0	78.1	76.8	74.7	73.4	72.3	71.7	70.9	70.5	73.0	80.9	66.3	July.
77.1	77.5	77.8	76.8	75.2	73.2	72.6	71.4	70.4	69.5	69.0	71.2	78.7	64.2	Aug.
70.3	70.4	70.3	69.7	68.8	67.2	66.7	65.7	65.4	65.0	64.4	66.0	72.0	59.8	Sept.
62.1	62.1	61.7	60.8	59.5	58.3	57.7	57.0	56.4	55.8	55.2	57.0	63.3	50.5	Oct.
54.6	54.7	54.5	53.6	52.7	51.6	51.3	50.2	49.7	48.8	48.3	50.0	56.3	43.8	Nov.
35.5	35.9	35.6	35.2	34.4	33.9	33.5	32.5	32.1	31.7	31.3	32.4	38.2	26.1	Dec.
57.1	57.4	57.5	56.8	55.6	54.2	53.6	52.5	51.9	51.2	50.7	52.4	59.3	45.8	Year.

PHILADELPHIA, PA.

[h_t=168 ft.; local time, 1m slow.]

35.4	35.6	35.1	34.0	32.8	31.8	31.7	30.9	30.5	29.8	29.5	30.9	38.5	24.0	Jan.
33.8	34.3	34.4	33.8	32.4	31.5	30.8	29.8	29.2	28.7	28.2	29.4	35.6	23.8	Feb.
52.5	53.0	52.7	51.3	49.7	48.3	46.8	45.1	44.1	43.5	42.8	45.8	54.7	37.8	Mar.
59.3	59.6	59.5	58.7	57.4	55.3	53.9	52.3	51.3	50.3	49.3	52.2	60.9	44.3	Apr.
70.1	70.9	70.6	69.9	68.8	66.4	64.1	62.0	60.4	59.1	58.0	62.2	72.3	52.8	May.
77.2	78.3	78.4	77.3	76.0	73.4	71.4	69.3	68.0	66.6	65.7	70.0	79.9	60.8	June.
81.9	82.5	82.4	81.2	80.5	78.7	76.4	74.7	73.1	72.2	71.5	75.0	84.0	67.2	July.
79.7	79.4	79.5	78.5	77.3	75.4	73.8	72.2	70.7	69.8	68.9	72.2	81.4	64.5	Aug.
72.6	73.2	73.1	72.1	70.3	68.5	67.2	66.2	65.4	64.5	63.8	66.8	74.7	59.5	Sept.
63.9	64.5	64.6	63.3	61.3	59.5	58.0	57.1	56.2	55.5	54.9	57.5	65.8	50.3	Oct.
56.9	57.3	56.4	55.3	53.8	52.5	51.6	50.5	49.7	49.0	48.0	50.6	58.1	43.7	Nov.
37.4	37.8	37.5	36.6	35.2	34.4	33.8	33.6	33.1	32.8	32.6	33.8	40.0	27.4	Dec.
60.1	60.5	60.4	59.3	58.0	56.3	55.0	53.6	52.6	51.8	51.1	53.9	62.2	46.3	Year.

PITTSBURG, PA.

[h_t=116 ft.; local time, 20m slow.]

32.5	33.3	33.8	33.7	33.1	32.2	31.5	31.0	30.6	30.0	29.6	30.0	36.8	24.0	Jan.
30.1	31.1	31.9	31.8	31.1	29.9	28.7	28.0	27.1	26.7	25.7	26.4	33.5	19.9	Feb.
47.6	49.4	49.8	49.9	49.5	48.1	46.6	45.5	44.4	43.1	42.2	43.8	53.0	35.4	Mar.
56.1	55.8	55.5	55.8	55.2	53.7	52.4	50.9	49.9	49.1	48.1	50.5	58.6	42.4	Apr.
71.9	72.3	72.6	72.8	71.5	70.1	68.3	66.5	64.7	63.3	61.5	64.5	75.2	53.8	May.
74.2	74.4	74.9	75.1	74.5	73.2	71.5	70.0	68.7	67.4	65.9	68.7	77.4	59.5	June.
81.2	81.3	82.0	82.1	81.3	79.5	78.0	75.7	74.3	73.0	71.8	75.3	84.1	66.6	July.
78.6	78.6	79.2	78.6	77.6	75.8	73.9	71.7	70.1	69.0	67.7	71.0	80.4	61.5	Aug.
72.5	73.1	73.4	73.1	71.7	69.9	68.8	66.8	65.5	64.4	63.2	66.2	75.2	57.2	Sept.
63.8	64.4	64.1	63.4	62.0	60.3	58.9	57.5	56.3	55.5	54.7	57.3	65.7	49.4	Oct.
56.8	57.6	57.3	56.5	55.2	53.6	52.8	51.6	50.6	49.6	48.8	51.3	59.2	43.2	Nov.
35.3	35.6	35.4	34.9	34.0	33.3	32.8	32.2	32.0	31.3	31.1	32.3	38.5	25.9	Dec.
58.4	58.9	59.2	59.0	58.1	56.6	55.4	54.0	52.8	51.9	50.9	53.1	61.5	44.9	Year.

PORTLAND, OREG.

[h_t=68 ft.; local time, 3h 11m slow.]

38.2	39.5	40.7	41.6	41.7	41.0	40.3	39.4	38.9	38.4	38.0	38.0	43.7	33.2	Jan.
44.5	45.8	47.1	47.9	47.9	47.1	47.0	46.6	46.0	45.1	44.0	44.1	49.9	39.4	Feb.
44.9	46.0	47.1	47.5	48.1	48.4	48.5	47.9	46.9	45.9	45.1	44.2	50.5	39.5	Mar.
50.3	52.1	53.4	54.3	54.7	54.7	54.1	53.3	51.6	49.9	48.6	48.5	56.7	41.4	Apr.
56.6	58.4	59.7	60.1	61.5	61.8	61.5	60.8	59.4	58.0	56.6	55.4	63.5	49.0	May.
63.7	65.3	67.0	68.4	68.8	69.3	69.1	68.2	66.4	63.8	61.5	61.1	71.0	51.7	June.
67.8	69.6	71.3	72.4	73.5	73.9	74.1	73.1	70.3	67.5	65.2	64.8	75.2	55.1	July.
69.0	72.1	74.5	76.6	77.5	78.3	78.2	76.4	73.0	70.0	67.6	66.7	78.8	54.8	Aug.
62.6	65.7	67.7	70.1	71.4	71.7	70.4	67.8	64.9	63.1	61.8	61.2	72.8	51.2	Sept.
56.7	59.1	61.2	62.6	63.4	63.5	62.6	60.0	58.1	56.7	55.4	55.4	64.7	48.4	Oct.
46.5	47.8	48.5	49.3	49.4	49.1	48.1	46.7	46.3	45.9	45.4	45.6	50.9	41.3	Nov.
40.7	41.3	42.0	42.4	42.4	42.3	41.6	41.1	40.6	40.3	39.8	40.1	44.5	36.2	Dec.
53.5	55.2	56.7	57.8	58.4	58.4	58.0	56.8	55.2	53.7	52.4	52.1	60.2	45.1	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

ST. LOUIS, MO.

[λ=38° 38′ N.; φ=90° 12′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	31.0	30.5	29.8	29.5	28.8	28.6	28.5	28.4	28.5	29.4	31.6	32.8	34.4
Feb	25.0	24.1	23.2	22.5	21.9	21.6	21.2	21.2	21.4	22.7	24.7	26.5	28.4
Mar	45.0	44.5	43.6	43.2	42.4	41.8	41.8	41.9	43.1	44.7	46.9	48.6	49.8
Apr	52.2	51.1	50.1	49.3	48.4	47.7	47.2	48.5	50.7	53.2	55.4	57.4	59.3
May	68.6	67.9	66.6	65.1	64.9	64.2	64.9	66.1	69.0	70.9	73.8	75.3	76.9
June	70.7	69.9	68.9	68.4	67.8	67.0	67.8	69.6	71.1	73.5	75.5	77.3	79.4
July	76.3	75.4	74.6	73.8	73.2	72.6	73.5	75.0	78.5	80.7	83.4	84.5	85.7
Aug	73.5	72.6	71.7	71.3	70.1	69.4	69.3	71.1	72.5	74.4	76.3	78.4	79.9
Sept	63.4	62.6	61.8	61.5	60.7	59.7	59.7	60.0	63.0	65.6	68.2	70.0	71.3
Oct	58.5	57.6	56.9	56.2	55.6	54.9	54.5	54.6	56.4	59.6	62.6	65.5	67.5
Nov	51.2	50.8	50.6	50.3	50.0	49.8	49.8	49.8	50.3	51.6	53.7	54.8	56.8
Dec	33.0	32.4	31.8	31.4	31.1	30.8	30.4	30.5	30.5	30.9	31.9	33.3	34.6
Year	54.0	53.3	52.5	51.9	51.2	50.7	50.7	51.4	52.9	54.8	57.0	58.7	60.3

ST. PAUL, MINN.

[λ=44° 58′ N.; φ=93° 3′ W.]

Jan	18.1	17.5	16.8	16.0	15.2	14.5	13.9	13.4	12.9	12.8	14.2	16.3	19.1
Feb	15.8	14.8	14.2	13.7	13.2	12.6	12.2	12.1	11.7	12.1	14.3	16.6	19.8
Mar	34.4	33.7	33.0	32.6	31.8	31.2	30.5	30.0	30.2	31.7	34.1	36.4	38.9
Apr	41.3	40.3	39.2	38.3	37.5	36.8	36.4	36.7	38.5	41.6	45.2	47.1	49.4
May	57.9	56.9	55.8	55.2	54.3	53.5	53.2	54.3	55.6	57.9	60.2	62.0	63.6
June	61.3	60.2	59.3	58.7	57.8	56.9	56.9	58.4	60.6	62.5	64.3	65.7	67.6
July	67.5	66.9	65.5	64.9	64.2	63.5	63.4	64.6	67.2	70.1	72.8	75.1	76.4
Aug	64.0	62.8	61.7	60.9	60.0	59.1	58.6	59.5	61.4	64.4	67.2	68.9	70.9
Sept	54.3	53.6	52.9	52.0	51.2	50.6	49.9	49.8	51.2	53.5	56.3	58.4	60.6
Oct	47.3	46.5	45.5	44.6	44.2	43.5	42.7	42.1	42.7	45.4	48.7	51.4	53.5
Nov	36.7	36.5	36.0	35.4	34.9	34.7	34.2	34.0	33.9	34.6	35.7	36.7	38.0
Dec	15.0	14.6	14.2	14.1	13.6	13.2	12.5	12.3	12.4	12.5	13.7	15.3	16.9
Year	42.8	42.0	41.2	40.5	39.8	39.2	38.7	38.9	39.9	41.6	43.9	45.8	47.9

SALT LAKE CITY, UTAH.

[λ=40° 46′ N.; φ=111° 54′ W.]

Jan	26.5	26.2	25.7	25.3	25.1	24.8	24.2	24.6	24.3	24.1	24.6	26.0	27.4
Feb	36.1	35.7	35.0	35.0	35.3	34.7	34.5	35.2	34.7	34.4	35.3	37.0	39.3
Mar	36.5	35.8	35.2	34.8	34.6	34.5	33.8	34.4	33.7	34.1	35.5	37.8	39.0
Apr	47.7	47.3	46.3	45.7	44.3	43.8	43.2	44.0	44.3	46.5	49.1	52.0	53.7
May	55.9	54.9	53.9	52.6	52.1	51.5	50.9	52.0	53.1	56.1	59.2	62.1	63.9
June	66.9	65.5	64.0	62.2	61.3	60.2	59.6	60.3	62.0	65.8	68.3	71.8	74.3
July	69.4	67.5	66.2	65.6	64.9	64.3	63.8	64.3	65.4	68.3	72.4	75.5	78.5
Aug	71.5	70.8	69.1	67.8	67.7	66.3	65.7	65.3	66.5	69.3	74.0	77.2	79.9
Sept	60.8	59.6	57.8	57.5	56.7	55.8	55.8	55.3	54.4	57.0	61.1	65.9	69.2
Oct	52.2	51.3	50.4	49.9	49.5	48.9	47.9	48.6	46.9	48.4	52.4	56.4	59.3
Nov	39.7	39.0	38.4	38.3	38.4	37.7	37.4	37.7	36.6	36.5	37.8	40.2	42.3
Dec	32.5	32.1	31.5	31.1	30.5	30.5	30.2	30.7	29.6	29.5	29.4	31.8	34.0
Year	49.6	48.8	47.8	47.2	46.7	46.1	45.6	46.0	46.0	47.5	49.9	52.8	55.1

SAN DIEGO, CAL.

[λ=32° 43′ N.; φ=117° 10′ W.]

Jan	53.5	53.0	52.5	52.2	51.6	51.1	51.2	50.7	50.6	50.5	51.2	54.4	57.8
Feb	52.3	51.9	51.4	51.1	50.9	50.4	50.0	49.9	49.6	49.9	50.9	53.0	55.6
Mar	53.7	53.3	52.3	52.0	51.5	50.9	50.5	50.2	49.5	49.9	52.7	54.8	57.2
Apr	56.1	55.6	54.8	54.2	54.0	53.8	53.5	52.9	52.8	53.9	56.2	57.8	59.8
May	59.4	58.8	58.1	57.8	57.6	57.3	57.1	56.5	56.5	57.8	59.5	60.6	61.8
June	60.8	60.7	60.2	60.1	59.8	59.7	59.4	58.8	58.7	59.3	60.2	61.7	63.5
July	63.3	63.1	63.0	62.7	62.5	62.5	62.3	61.9	61.4	61.7	62.7	63.9	66.0
Aug	65.3	64.9	64.5	64.3	64.2	64.0	63.9	63.9	63.4	63.6	64.3	66.0	67.7
Sept	64.5	64.3	63.7	63.4	63.1	62.9	62.7	62.7	62.4	62.6	63.5	65.0	67.2
Oct	61.5	60.8	60.3	60.0	59.8	59.5	59.0	58.4	57.9	58.1	60.0	62.0	64.6
Nov	56.3	55.7	55.0	54.5	54.0	53.5	52.7	52.3	51.8	52.0	54.0	57.7	61.3
Dec	53.1	52.4	52.1	51.4	50.9	50.3	50.2	49.9	49.5	49.4	50.1	53.7	57.4
Year	58.3	57.9	57.3	57.0	56.7	56.3	56.0	55.7	55.3	55.7	57.1	59.2	61.7

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

ST. LOUIS, MO.

[h_t=111 ft.; local time, 1h 1m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
35.7	36.5	36.9	36.5	35.6	34.7	34.5	33.2	32.5	31.9	31.5	32.1	39.1	25.8	Jan.
30.0	31.1	31.8	31.8	31.3	30.6	29.7	28.9	27.9	27.2	26.4	26.3	33.2	19.7	Feb.
51.1	51.6	51.7	51.9	51.5	50.4	49.5	48.2	47.5	46.5	45.6	46.8	53.9	39.7	Mar.
60.7	62.1	62.9	63.0	61.8	60.7	59.2	58.1	56.7	55.6	54.6	55.2	64.2	46.5	Apr.
77.1	77.5	78.4	78.5	77.9	76.3	74.9	73.0	72.1	71.0	70.1	71.7	80.9	62.6	May.
80.1	81.0	81.4	81.5	80.8	79.1	76.9	75.4	74.0	72.7	71.6	74.2	82.9	65.6	June.
86.2	87.3	86.7	86.5	85.9	84.2	83.1	81.2	80.3	79.0	77.9	80.2	88.7	71.9	July.
80.9	82.0	83.2	83.2	82.9	81.5	79.6	78.1	76.7	75.3	74.4	76.2	84.5	68.2	Aug.
72.3	73.3	73.7	73.3	71.6	69.8	68.7	66.8	65.5	64.1	63.6	66.2	74.8	58.0	Sept.
69.4	70.2	70.4	69.7	68.2	66.4	64.7	63.1	61.8	60.5	59.2	61.8	71.3	53.1	Oct.
58.0	58.6	58.1	57.4	55.9	54.6	53.7	52.7	52.0	51.5	51.0	53.0	59.8	46.8	Nov.
35.9	37.0	37.4	37.3	36.7	36.1	35.4	34.7	34.2	33.8	33.5	33.5	39.9	28.0	Dec.
61.4	62.4	62.7	62.6	61.7	60.4	59.2	57.8	56.8	55.8	55.0	56.4	64.4	48.8	Year.

ST. PAUL, MINN.

[h_t=102 ft.; local time, 1h 12m slow.]

20.9	22.8	23.6	24.0	23.5	22.4	21.7	20.6	19.5	18.7	18.1	18.2	26.4	10.6	Jan.
21.4	23.4	24.2	24.6	24.2	23.3	22.3	20.7	19.5	18.3	17.3	17.6	25.5	10.1	Feb.
40.2	41.3	41.7	42.2	42.2	41.5	40.3	38.8	37.5	36.4	35.5	36.1	44.5	28.0	Mar.
50.6	52.0	52.9	53.4	53.3	52.3	50.5	48.4	46.6	44.8	43.4	44.8	55.4	34.2	Apr.
64.5	65.4	66.0	66.3	65.9	65.4	64.5	62.8	61.7	60.2	59.4	60.1	68.1	52.0	May.
68.9	70.0	70.6	71.1	70.8	70.2	69.4	67.6	66.0	64.5	62.6	64.2	72.2	56.0	June.
77.5	77.8	78.0	78.4	78.0	76.9	76.1	74.0	72.6	70.2	68.9	71.3	80.3	62.5	July.
71.9	73.0	73.7	74.0	73.5	72.4	71.4	69.1	67.5	66.1	64.9	66.5	74.8	58.4	Aug.
61.9	63.5	64.2	64.2	64.0	62.7	60.7	58.8	57.4	56.0	54.8	56.8	65.8	48.7	Sept.
54.8	56.1	56.4	56.4	55.7	54.2	52.8	51.4	50.4	49.4	48.8	49.4	58.6	41.5	Oct.
38.8	39.5	40.1	40.0	39.4	38.6	38.0	37.3	36.8	36.4	36.1	36.8	42.1	32.5	Nov.
18.1	19.2	19.7	19.8	19.6	19.1	18.7	18.1	17.6	16.6	15.8	15.9	23.0	8.8	Dec.
49.1	50.3	50.9	51.2	50.8	49.9	48.9	47.3	46.1	44.8	43.8	44.8	53.1	36.9	Year.

SALT LAKE CITY, UTAH.

[h_t=105 ft.: local time, 2h 28m slow.]

28.5	29.8	30.4	31.0	31.0	30.3	29.0	28.3	27.6	27.2	26.8	27.0	32.9	22.1	Jan.
41.2	42.4	42.8	43.4	43.8	43.6	42.3	40.4	38.9	37.7	37.2	38.2	46.5	31.4	Feb.
40.6	41.6	42.6	43.5	43.3	42.3	41.6	40.0	38.7	37.7	37.1	37.9	45.5	30.7	Mar.
55.0	54.9	55.6	55.6	55.7	55.6	55.1	53.7	51.3	50.2	48.7	50.0	59.9	40.6	Apr.
65.2	66.2	66.9	66.6	67.0	66.6	66.3	65.0	61.4	59.4	57.7	59.4	69.7	48.7	May.
76.2	77.6	78.8	79.3	79.6	80.2	79.9	77.8	73.1	70.7	68.3	70.2	82.1	56.6	June.
80.2	82.0	82.3	82.8	82.5	82.6	82.3	80.6	76.5	73.4	71.8	73.5	85.1	59.9	July.
81.4	82.7	83.5	84.2	84.0	83.9	83.6	81.5	77.6	74.5	73.2	75.0	86.3	63.0	Aug.
71.5	72.7	73.9	74.3	74.0	72.6	72.2	68.8	65.7	64.0	62.4	64.1	76.6	51.6	Sept.
61.4	63.2	64.2	64.3	64.2	63.1	60.8	57.4	55.5	54.5	52.8	55.1	66.4	43.9	Oct.
43.9	45.2	46.3	46.5	45.9	44.8	43.2	42.0	41.5	40.3	39.6	40.8	49.0	33.0	Nov.
35.6	36.8	37.4	38.2	37.3	36.3	35.6	34.5	34.0	33.1	33.1	33.1	40.4	26.6	Dec.
56.7	57.9	58.7	59.1	59.0	58.5	57.7	55.8	53.5	51.9	50.7	52.0	61.7	42.3	Year.

SAN DIEGO, CAL.

[h_t=94 ft.: local time, 2h 49m slow.]

60.1	61.5	61.6	61.7	61.0	60.4	59.0	57.4	55.9	55.0	53.6	55.3	64.0	48.7	Jan.
57.5	59.0	59.5	59.4	59.3	58.4	57.0	56.2	55.0	53.9	53.1	54.0	61.0	48.6	Feb.
58.2	59.3	59.6	59.7	59.5	59.1	58.7	57.6	56.6	55.6	54.6	54.9	61.3	48.3	Mar.
60.6	61.2	61.2	61.5	61.6	60.8	60.3	59.6	58.2	57.6	57.2	57.3	62.8	51.7	Apr.
62.4	63.2	63.4	63.2	63.1	62.6	62.2	61.2	60.3	59.8	59.6	60.0	64.4	56.0	May.
64.0	64.6	64.5	64.7	64.6	64.3	64.4	63.3	62.1	61.3	61.2	61.7	65.9	58.4	June.
66.5	68.4	68.1	68.5	67.9	67.4	67.1	66.2	65.0	64.2	63.9	64.6	69.8	61.0	July.
68.5	69.3	69.6	69.7	69.3	68.6	68.1	67.1	66.5	65.9	65.5	66.2	70.5	63.0	Aug.
68.4	69.4	69.5	69.6	69.5	68.8	68.0	66.6	65.9	65.4	65.0	65.6	70.5	61.9	Sept.
65.6	66.5	66.5	66.7	66.8	66.3	65.0	63.7	63.1	62.5	61.9	62.4	67.8	57.4	Oct.
62.6	64.0	64.2	64.4	64.1	63.5	61.7	60.5	59.1	57.8	57.0	57.9	65.4	51.2	Nov.
59.0	61.8	62.1	61.7	61.3	60.5	58.0	56.8	55.6	54.5	53.6	54.8	63.0	48.7	Dec.
62.8	64.0	64.2	64.2	64.0	63.4	62.5	61.4	60.3	59.5	58.8	59.6	65.5	54.6	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SAN FRANCISCO, CAL.

[λ=37° 48′ N.; φ=122° 26′ W.]

1902	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	46.7	45.8	45.2	44.8	43.9	43.5	43.0	44.0	42.8	42.5	42.8	43.5	44.8
Feb	52.7	51.9	51.3	50.7	50.0	49.6	49.3	50.2	49.5	49.5	49.8	50.5	51.9
Mar	49.5	48.8	48.4	48.0	47.7	47.2	47.0	47.8	46.6	46.5	48.4	50.2	52.1
Apr	52.2	51.5	51.1	50.8	50.3	50.1	49.8	50.4	49.4	50.2	51.5	53.2	55.2
May	52.5	52.3	52.0	51.8	51.6	51.5	51.3	51.6	50.8	51.9	53.8	55.8	57.2
June	53.0	52.7	52.3	51.9	51.6	51.1	50.8	51.3	51.0	53.6	56.0	58.0	60.2
July	55.1	54.5	54.4	54.0	53.6	53.5	53.5	54.3	53.7	55.9	58.4	60.8	63.3
Aug	56.9	56.5	56.2	56.0	55.9	56.0	56.2	56.9	56.1	57.2	59.2	60.6	62.7
Sept	59.0	58.1	57.6	57.4	57.5	57.2	57.2	57.8	56.9	57.3	59.0	60.7	63.4
Oct	56.7	56.3	56.0	55.5	55.3	55.0	54.9	55.8	55.0	55.5	56.8	58.0	60.4
Nov	53.7	53.2	52.7	52.1	51.6	51.3	51.0	52.0	51.1	50.8	51.9	53.0	54.3
Dec	49.7	49.4	48.8	48.2	47.7	47.5	47.5	48.6	47.6	47.1	47.4	48.2	49.4
Year	53.1	52.6	52.2	51.8	51.4	51.1	51.0	51.7	50.9	51.5	52.9	54.4	56.2

SANTA FE, N. MEX.

[λ=35° 41′ N.; φ=105° 57′ W.]

Jan	29.6	28.7	28.5	28.2	27.7	27.1	26.0	27.0	26.1	27.2	31.7	34.7	37.3
Feb	32.6	31.9	30.7	29.5	28.4	27.9	27.8	27.5	26.4	29.6	33.8	36.2	38.6
Mar	32.9	32.6	31.7	30.7	29.9	29.1	28.2	28.3	29.1	32.3	34.1	36.5	38.6
Apr	48.6	47.6	46.5	44.9	43.9	42.7	41.6	42.1	47.3	50.1	52.7	54.4	56.0
May	53.7	52.1	51.1	50.0	48.5	47.6	47.2	49.9	54.3	56.4	58.6	60.9	62.7
June	64.5	63.4	61.8	60.7	59.8	57.9	56.8	60.4	65.5	67.7	70.1	72.3	74.5
July	63.5	62.6	60.7	59.6	58.8	57.1	56.3	59.2	63.7	66.1	68.2	70.3	72.6
Aug	64.6	63.5	62.2	61.0	60.3	59.0	58.3	59.3	63.6	66.4	68.5	71.2	72.8
Sept	57.0	56.1	55.1	54.3	53.2	51.3	50.5	50.0	53.1	55.8	58.8	60.9	63.4
Oct	46.8	46.0	45.2	44.7	43.8	43.5	42.5	42.4	44.6	49.9	52.7	54.7	56.9
Nov	37.1	36.3	35.5	34.7	34.6	33.7	33.3	32.6	33.2	36.2	39.7	41.6	42.9
Dec	28.2	27.8	27.2	26.4	26.1	25.3	25.0	25.0	24.4	26.6	29.9	32.5	34.3
Year	46.6	45.7	44.7	43.7	42.9	41.8	41.1	42.0	44.3	47.0	49.9	52.2	54.2

SAVANNAH, GA.

[λ=32° 5′ N.; φ=81° 5′ W.]

Jan	45.7	45.2	44.7	44.1	43.6	43.1	42.8	42.6	44.4	47.5	51.0	54.0	56.3
Feb	44.7	44.1	43.3	42.1	41.6	41.4	40.9	41.0	43.2	45.5	47.9	49.7	51.6
Mar	55.2	54.6	53.9	53.4	53.1	52.9	52.7	53.6	56.4	58.7	61.2	62.6	63.8
Apr	59.8	58.7	58.2	57.6	57.1	56.7	57.3	59.3	63.5	65.9	68.7	70.3	71.5
May	70.6	70.0	69.6	69.3	69.0	68.9	70.7	72.6	76.1	78.3	80.5	82.2	82.9
June	74.5	73.9	73.5	73.2	72.8	72.8	74.7	76.7	80.0	81.7	83.6	84.8	85.9
July	77.6	76.8	76.3	75.7	75.1	75.1	76.4	78.8	82.0	84.5	86.7	88.2	89.2
Aug	76.4	75.8	75.1	74.7	74.5	74.2	74.6	76.5	80.5	82.5	84.5	85.6	86.3
Sept	71.6	71.2	71.0	70.4	70.0	69.8	69.9	71.4	75.2	77.5	79.5	80.9	81.6
Oct	65.2	64.4	63.9	63.3	62.9	62.6	62.5	63.6	67.6	70.7	72.9	74.0	74.9
Nov	59.6	58.9	58.3	57.9	57.7	57.6	57.6	58.1	61.3	64.5	67.4	69.1	70.4
Dec	50.6	49.8	48.8	48.3	47.6	47.2	47.3	47.2	49.5	52.8	55.6	57.9	59.4
Year	62.6	62.0	61.4	60.8	60.4	60.2	60.6	61.8	65.0	67.5	70.0	71.6	72.8

WASHINGTON, D. C.

[λ=38° 54′ N.; φ=77° 3′ W.]

Jan	29.9	29.1	28.8	28.5	27.9	27.7	27.2	27.3	28.4	30.5	32.5	33.9	35.2
Feb	26.9	26.7	26.2	25.9	25.4	25.0	24.8	25.4	26.8	28.2	30.9	32.4	33.4
Mar	42.3	41.9	41.6	40.9	40.2	39.8	39.5	41.6	44.0	46.1	48.7	50.6	51.9
Apr	47.9	47.1	46.5	45.7	45.2	44.9	46.6	49.3	51.9	54.2	56.6	58.1	59.9
May	59.1	58.3	57.5	57.1	56.3	56.5	58.3	61.0	63.5	66.2	68.9	70.7	72.5
June	66.3	64.7	63.9	63.3	62.5	63.2	66.0	69.0	71.8	74.2	76.5	78.2	78.9
July	71.1	70.4	69.7	69.1	68.5	69.0	71.7	74.5	77.3	79.6	82.1	83.3	84.4
Aug	66.2	65.7	65.0	64.5	63.7	63.7	65.9	69.5	72.6	75.5	77.7	79.5	80.7
Sept	61.8	61.3	60.6	60.3	59.7	59.3	60.0	63.8	66.8	69.0	71.2	72.6	73.8
Oct	53.5	52.8	52.1	51.4	50.7	50.4	51.0	53.5	56.1	59.1	61.8	63.5	64.8
Nov	47.5	46.9	46.4	45.8	45.3	45.1	45.0	46.1	48.0	51.0	53.4	55.5	57.3
Dec	32.4	32.4	32.1	32.1	31.2	31.1	31.4	31.8	32.9	34.4	35.8	37.1	38.2
Year	50.4	49.8	49.2	48.7	48.0	48.0	49.0	51.1	53.3	55.7	58.0	59.6	60.9

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SAN FRANCISCO, CAL.

[h_t=161 ft.; local time, 3h 10m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
46.2	47.6	48.9	50.0	50.7	50.8	50.0	49.1	48.4	47.6	46.9	46.2	51.7	41.7	Jan.
52.9	54.5	55.1	55.8	55.9	55.6	55.6	54.5	53.9	53.6	52.8	52.4	57.3	48.5	Feb.
54.2	55.2	56.0	56.2	56.1	54.6	53.5	52.3	51.7	50.9	50.3	50.8	57.6	45.6	Mar.
57.0	57.5	58.9	58.9	58.4	57.0	56.1	55.0	53.7	53.0	52.5	53.5	60.2	48.7	Apr.
58.2	58.7	58.7	59.3	59.0	57.6	56.7	55.7	54.3	53.6	53.1	54.5	60.5	50.5	May.
61.6	61.5	62.2	61.5	61.1	60.1	58.9	57.6	55.7	54.1	53.6	55.9	63.6	50.2	June.
63.9	63.9	64.0	63.7	62.8	61.7	60.6	59.4	57.9	56.6	55.8	58.1	65.7	52.6	July.
64.2	64.6	64.4	63.8	62.9	62.0	61.4	59.9	59.0	58.2	57.7	59.4	65.9	55.3	Aug.
64.9	66.2	66.5	66.2	65.1	63.3	63.0	61.0	60.5	59.9	59.4	60.6	67.8	56.0	Sept.
62.0	62.9	62.3	62.2	61.9	60.9	60.3	59.1	58.2	57.8	57.3	58.2	64.7	53.9	Oct.
55.7	57.2	58.2	58.6	58.6	57.5	56.4	55.5	54.9	54.5	54.0	54.2	59.5	50.1	Nov.
50.5	52.2	53.2	54.1	54.4	54.1	53.2	52.4	51.8	51.2	50.7	50.2	55.3	46.0	Dec.
57.6	58.5	59.0	59.2	58.9	57.9	57.1	56.0	55.0	54.2	53.7	54.5	60.8	49.9	Year.

SANTA FE, N. MEX.

[h_t=47 ft.; local time, 2h 4m slow.]

39.1	40.4	41.5	41.8	40.6	38.4	35.4	33.1	32.0	30.6	30.1	32.6	43.6	23.8	Jan.
40.6	42.6	44.0	44.9	44.7	43.1	41.1	36.2	34.9	33.8	33.2	35.0	46.6	25.2	Feb.
40.4	41.7	43.4	43.9	43.8	42.8	41.7	37.5	36.1	34.9	33.9	35.6	46.4	25.9	Mar.
58.1	60.1	61.5	62.2	62.5	61.9	60.5	56.5	53.6	51.3	50.3	52.4	64.4	40.0	Apr.
64.4	65.3	65.7	65.7	64.5	62.6	62.3	59.0	56.5	55.5	54.4	57.0	68.9	45.2	May.
76.4	78.0	78.9	80.0	79.3	78.4	77.3	74.3	70.5	67.5	65.7	69.2	81.2	56.2	June.
74.8	75.3	75.5	75.7	76.4	75.6	75.0	71.5	68.5	66.3	64.9	67.4	78.9	55.8	July.
74.2	75.5	76.0	76.6	76.5	75.5	74.1	70.5	67.5	65.8	65.1	67.8	79.3	57.4	Aug.
65.3	66.8	68.7	69.3	69.8	68.0	65.8	61.2	59.8	58.8	57.7	59.6	71.0	48.9	Sept.
58.5	59.7	60.7	61.7	61.2	58.8	54.3	51.1	49.9	48.5	47.7	51.1	63.0	40.5	Oct.
44.6	45.9	47.0	47.0	45.6	42.9	40.4	39.4	38.1	37.9	37.2	39.1	48.5	30.6	Nov.
36.1	37.2	37.8	37.7	36.5	34.1	32.6	30.8	29.8	29.1	28.7	30.4	40.4	22.1	Dec.
56.0	57.4	58.4	58.9	58.4	56.8	55.0	51.8	49.8	48.3	47.4	49.8	61.0	39.3	Year.

SAVANNAH, GA.

[h_t=79 ft.; local time, 24m slow.]

57.7	58.3	58.0	56.1	53.1	51.3	50.2	48.9	47.9	47.6	46.9	49.2	59.5	40.4	Jan.
52.3	52.7	52.2	51.8	50.5	49.1	48.4	47.1	46.2	45.5	45.0	46.6	55.2	39.2	Feb.
64.3	64.3	64.2	63.1	61.5	59.7	58.7	57.5	56.5	56.0	55.4	58.1	66.7	50.6	Mar.
72.2	72.2	70.4	69.0	67.4	65.5	64.3	63.0	62.2	61.5	60.9	63.9	73.9	56.0	Apr.
82.8	82.1	80.7	79.3	77.3	75.5	73.8	72.6	72.3	71.7	71.4	75.0	84.9	68.2	May.
85.8	85.8	85.1	83.7	81.8	80.1	79.0	77.5	76.7	76.2	75.9	79.0	87.6	72.2	June.
89.4	87.8	87.2	85.9	83.8	82.4	81.3	79.8	79.3	78.7	78.3	81.5	91.6	74.1	July.
86.9	87.5	85.1	83.8	81.9	80.3	79.1	78.1	77.5	77.0	76.7	79.8	89.2	73.1	Aug.
81.8	81.5	80.2	78.8	77.1	75.6	74.7	73.8	73.2	72.7	72.3	75.1	83.4	69.3	Sept.
75.2	75.2	74.7	73.7	71.4	70.0	68.8	67.6	66.7	65.9	65.2	68.5	76.9	60.8	Oct.
71.1	70.9	70.1	68.2	65.9	64.3	63.4	62.6	61.7	61.2	60.5	63.3	72.0	56.0	Nov.
60.3	60.4	59.6	58.2	56.4	55.3	54.6	53.3	52.4	51.5	50.8	53.1	62.1	45.2	Dec.
73.3	73.2	72.3	71.0	69.0	67.4	66.4	65.2	64.4	63.8	63.3	66.1	75.2	58.8	Year.

WASHINGTON, D. C.

[h_t=59 ft.; local time, 8m slow.]

36.1	36.9	36.8	35.9	35.1	33.9	33.0	31.5	30.9	30.2	29.9	31.5	39.3	24.4	Jan.
34.6	35.5	35.4	34.8	33.8	32.8	31.8	30.5	29.7	29.0	28.5	29.8	36.6	23.0	Feb.
53.2	54.0	53.7	53.2	52.3	50.0	48.0	46.3	45.0	43.8	42.8	46.3	56.4	37.0	Mar.
60.8	61.2	61.3	60.8	60.3	58.7	56.7	54.2	52.6	51.2	50.2	53.4	62.9	42.9	Apr.
73.7	74.3	74.5	72.5	71.0	68.8	66.3	64.2	62.7	61.0	60.0	64.8	76.2	54.5	May.
79.8	80.3	80.6	80.2	79.6	77.0	74.2	72.3	70.7	69.2	68.0	72.1	82.4	61.3	June.
84.7	84.4	83.9	82.7	81.0	79.4	77.7	75.6	73.9	72.9	72.3	76.6	87.3	66.7	July.
81.8	81.8	80.2	80.1	79.4	76.5	73.7	71.5	69.9	68.6	67.4	72.5	83.0	62.1	Aug.
74.2	74.8	74.3	73.7	72.3	69.8	66.9	65.5	64.3	63.2	62.6	66.7	76.3	57.4	Sept.
65.4	66.1	65.6	64.5	62.4	59.5	57.8	56.4	55.5	54.5	53.7	57.6	67.2	48.0	Oct.
58.4	59.1	58.4	57.1	55.7	53.7	52.9	51.0	49.8	48.5	47.8	51.1	60.3	42.3	Nov.
38.8	39.3	38.9	38.4	37.3	36.1	35.6	34.9	34.4	33.5	32.8	34.7	41.2	27.7	Dec.
61.8	62.3	62.0	61.2	60.0	58.0	56.2	54.5	53.3	52.1	51.3	54.8	64.1	45.6	Year.

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WIND—VELOCITY AND FREQUENCY.

BISMARCK, N. DAK.

[λ=46° 47′ N.; φ=100° 38′ W.] [Seventy-fifth Meridian Time.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.	7.5	7.4	7.1	7.0	7.1	6.7	6.3	5.8	6.4	5.9	6.7	7.6	8.9	8.9	9.2	9.7	9.6
Feb	5.9	6.2	5.9	6.3	6.8	6.3	7.0	7.2	7.4	7.3	7.8	9.5	11.0	11.2	11.5	11.7	11.8
Mar	11.8	11.5	11.8	12.3	11.8	12.0	11.7	12.1	11.7	12.3	12.4	13.5	14.4	14.5	14.4	14.7	14.9
Apr	8.0	8.0	8.8	8.5	8.4	8.5	8.3	7.9	9.4	11.2	11.6	12.6	13.7	13.9	14.4	14.2	14.5
May	8.3	8.6	8.0	7.6	8.1	7.5	7.5	7.9	9.5	11.4	12.9	13.3	13.7	13.8	14.2	14.5	14.9
June	6.3	6.9	6.4	6.8	7.2	7.9	7.5	7.7	8.9	11.0	12.8	13.0	14.4	15.6	15.5	15.0	14.6
July	5.4	5.0	5.7	5.6	5.8	6.1	6.2	6.3	7.8	9.4	10.6	9.9	11.2	11.7	11.5	10.8	10.6
Aug	7.0	6.5	6.8	6.6	6.9	7.2	6.8	7.1	8.3	10.5	11.7	10.6	12.6	12.2	12.7	13.5	13.5
Sept	8.8	8.5	8.0	7.2	7.7	7.8	7.5	6.9	7.9	11.3	13.6	14.8	16.3	17.0	17.5	17.0	17.3
Oct	5.7	6.0	4.9	4.4	4.7	4.6	5.0	4.8	5.7	6.6	7.5	8.4	9.2	10.4	11.3	12.1	12.8
Nov	7.8	7.3	7.0	7.8	7.9	7.6	7.4	7.5	7.2	7.4	8.4	9.4	10.7	11.8	11.8	11.3	10.2
Dec	8.5	9.0	9.3	9.1	9.7	8.8	8.7	8.5	8.2	8.0	8.5	9.1	10.6	11.5	12.2	12.0	11.7
Year.	7.6	7.6	7.5	7.4	7.7	7.6	7.5	7.5	8.2	9.4	10.4	11.0	12.2	12.7	13.0	13.0	13.0

BOSTON, MASS.

[λ=42° 21′ N.; φ=71° 4′ W.]

Jan.	11.6	11.8	12.1	11.3	11.7	11.5	11.6	11.5	12.0	12.5	12.7	12.6	13.4	13.5	13.6	13.0	12.3
Feb	14.4	14.0	14.1	14.2	13.9	14.2	14.4	14.4	14.0	15.0	14.9	15.1	15.5	15.8	15.4	15.0	14.9
Mar	12.4	12.1	12.6	12.4	12.1	12.2	12.5	12.0	13.1	13.9	14.1	13.8	13.8	14.3	15.0	14.8	14.4
Apr	11.0	10.3	10.3	10.1	10.2	10.0	10.5	10.8	11.9	12.1	12.6	12.9	13.8	14.2	14.7	14.8	14.3
May	10.0	9.9	10.0	9.8	10.0	9.9	10.4	11.4	11.2	12.1	12.6	12.7	13.1	12.8	13.0	12.5	12.9
June	9.6	9.2	8.7	9.2	9.3	9.5	9.8	10.6	11.0	11.4	12.5	12.4	13.3	13.2	13.3	13.3	12.7
July	7.5	7.0	7.3	7.2	7.2	7.3	7.9	8.8	8.9	9.4	9.8	10.4	10.6	11.4	11.7	11.0	10.6
Aug	7.5	7.4	7.2	7.1	6.8	6.9	7.3	8.1	8.5	9.1	9.7	9.6	10.2	10.8	10.1	10.0	10.5
Sept	8.1	7.7	7.5	7.4	7.6	7.5	7.9	8.4	9.1	9.7	10.5	11.0	11.8	11.6	11.1	11.4	10.9
Oct	10.1	9.8	9.6	9.9	9.8	10.1	9.8	10.4	11.2	11.7	12.3	13.0	14.2	14.2	14.2	13.5	12.2
Nov	9.4	9.4	9.8	10.0	10.3	9.8	10.5	10.6	11.6	11.4	12.3	12.7	12.9	12.9	12.2	11.1	10.7
Dec	10.8	11.4	11.3	11.5	11.2	10.8	11.5	12.3	12.5	13.2	13.5	13.8	14.8	13.7	13.9	13.6	13.2
Year.	10.2	10.0	10.0	10.0	10.0	10.0	10.3	10.8	11.2	11.8	12.3	12.5	13.1	13.2	13.2	12.8	12.5

BUFFALO, N. Y.

[λ=42° 53′ N.; φ=78° 53′ W.]

Jan.	16.2	15.5	16.3	16.3	15.3	15.6	16.0	15.5	15.7	15.9	16.6	17.0	17.3	18.3	17.7	17.6	16.5
Feb	16.2	15.8	16.5	17.9	17.3	16.8	16.9	16.7	16.7	16.6	16.8	17.6	18.5	19.1	19.2	18.4	18.1
Mar	13.2	13.0	14.1	14.2	13.7	13.6	14.2	13.7	14.3	14.5	15.1	15.6	16.0	16.4	16.4	16.4	15.7
Apr	14.7	14.7	14.3	14.1	14.7	15.6	16.3	15.9	15.7	15.7	15.9	17.0	18.1	17.5	17.2	17.2	18.0
May	12.8	12.3	12.2	11.9	11.8	11.5	12.4	12.4	11.8	12.3	12.8	13.2	13.7	14.6	14.5	13.8	14.1
June	13.3	14.6	14.0	13.7	14.0	13.5	13.5	14.5	15.8	16.1	17.0	17.2	17.2	17.6	16.8	16.9	16.5
July	9.0	9.4	10.3	10.2	10.4	10.8	11.0	11.4	11.4	11.8	12.6	13.1	13.1	14.5	13.8	13.1	14.3
Aug	10.4	10.0	9.5	9.5	9.6	8.7	8.9	9.4	9.9	10.5	11.3	12.1	13.3	13.4	13.4	13.8	13.5
Sept	12.2	11.9	12.4	11.6	11.4	11.2	11.6	12.5	12.2	12.6	13.5	13.2	14.5	14.0	13.9	13.4	13.2
Oct	15.1	14.3	14.4	13.5	14.2	14.0	15.3	14.5	14.9	15.7	16.2	16.7	18.0	18.4	18.6	18.5	18.4
Nov	15.9	17.4	17.9	17.4	17.7	17.8	17.3	18.1	17.3	16.8	17.2	17.6	17.2	16.9	16.7	15.6	16.6
Dec	19.0	19.3	20.1	21.0	21.0	19.6	20.3	20.3	20.2	20.4	20.8	21.5	22.8	22.8	22.2	22.2	21.7
Year.	14.0	14.0	14.3	14.3	14.3	14.1	14.5	14.6	14.7	14.9	15.5	16.0	16.6	17.0	16.7	16.4	16.4

CHICAGO, ILL.

[λ=41° 53′ N.; φ=87° 37′ W.]

Jan.	17.9	16.9	16.3	17.1	16.9	16.6	16.7	16.3	16.4	16.9	16.7	16.9	18.0	18.2	18.7	18.4	18.1
Feb	13.9	13.5	13.8	14.0	13.8	13.4	13.7	13.8	14.2	14.4	14.8	14.6	17.0	17.5	17.5	17.2	16.7
Mar	18.7	17.9	17.9	18.4	18.0	17.8	17.4	16.6	17.5	17.4	18.0	17.9	19.3	19.3	20.3	20.6	21.0
Apr	15.6	15.9	16.0	16.2	17.5	17.9	17.1	17.0	17.5	18.9	19.7	20.3	20.9	20.6	20.9	20.3	20.7
May	16.3	16.4	16.6	16.6	15.9	14.5	14.9	15.9	16.6	16.7	16.8	17.2	18.2	17.8	18.3	18.0	18.0
June	13.7	14.4	15.4	14.7	14.6	15.1	16.1	14.9	15.3	15.8	16.5	16.4	17.1	17.3	17.0	17.2	16.1
July	13.5	13.6	14.0	14.3	13.4	12.5	12.5	12.2	12.4	14.1	14.7	14.2	15.4	14.9	15.4	15.5	15.4
Aug	12.3	11.8	12.3	12.0	11.8	11.9	12.0	12.2	13.1	13.4	14.0	14.2	15.5	15.2	15.2	15.1	14.9
Sept	15.4	14.7	14.1	14.7	14.6	14.4	15.8	15.6	15.9	16.2	16.8	17.5	18.4	18.2	18.0	18.3	18.4
Oct	17.9	18.4	18.1	17.9	17.8	17.3	17.4	17.2	17.3	17.4	16.5	17.1	17.8	17.9	18.5	18.5	18.6
Nov	18.0	18.5	18.1	18.1	17.3	17.1	17.1	17.1	17.6	19.1	19.3	19.0	20.2	19.5	20.1	20.2	19.1
Dec	21.0	20.4	20.7	20.3	19.8	18.6	18.9	18.9	19.7	20.9	21.1	20.4	22.6	21.7	20.5	20.8	21.0
Year.	16.2	16.0	16.1	16.2	16.0	15.6	15.8	15.6	16.1	16.8	17.1	17.1	18.4	18.2	18.4	18.3	18.2

WIND—VELOCITY AND FREQUENCY.

BISMARCK, N. DAK.

[h_a=29 ft.; local time, 1h 43m slow.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1902.
8.5	6.8	6.8	7.3	7.1	7.2	7.3	7.4	41	99	33	56	52	72	21	51	355	5	Jan.
10.8	9.5	8.5	7.4	7.4	6.3	6.4	8.2	37	73	54	96	77	42	20	39	261	10	Feb.
14.5	13.8	13.3	12.4	11.8	12.0	12.0	12.8	48	79	71	169	117	32	13	55	207	1	Mar.
13.7	13.9	13.0	11.1	9.7	9.7	8.8	10.9	40	180	31	101	152	82	39	21	107	7	Apr.
13.9	12.5	11.8	10.2	10.0	9.5	8.8	10.8	50	41	48	132	196	68	28	77	146	8	May.
13.9	12.6	11.3	9.0	7.0	7.6	7.1	10.3	52	121	69	106	148	83	32	54	121	6	June.
9.9	8.9	7.9	7.8	7.1	6.7	6.4	8.1	38	97	69	83	147	62	25	106	153	2	July.
13.0	12.5	10.3	8.3	8.0	7.4	7.0	9.5	36	145	58	94	133	158	22	21	106	7	Aug.
16.3	14.9	12.3	10.3	9.0	8.2	8.8	11.4	60	175	8	36	76	69	66	46	235	9	Sept.
11.5	9.1	7.2	6.9	6.7	6.1	6.2	7.4	36	124	26	137	54	63	37	22	261	20	Oct.
9.4	8.7	8.2	8.0	7.6	8.0	8.2	8.6	44	98	112	66	111	83	36	41	169	4	Nov.
10.6	10.2	9.7	9.2	8.6	8.2	7.9	9.5	52	153	16	54	138	44	11	39	271	18	Dec.
12.2	11.1	10.0	9.0	8.3	8.1	7.9	9.6	60	1,385	595	1,130	1,401	858	330	572	2,392	97	Year.

BOSTON, MASS.

[h_a=181 ft.; local time, 16m fast.]

11.8	12.0	11.7	11.5	10.6	10.4	10.7	12.0	38	72	9	47	49	49	103	221	194	0	Jan.
14.5	15.2	15.0	14.6	14.3	14.2	14.1	14.6	46	65	98	55	20	26	51	216	141	0	Feb.
13.8	13.4	12.8	12.7	12.6	12.8	12.6	13.2	44	88	66	82	45	74	162	88	139	0	Mar.
14.2	12.5	12.2	11.4	11.5	10.8	10.9	12.0	44	37	87	68	34	71	118	219	86	0	Apr.
12.7	11.9	10.7	10.4	9.9	9.9	9.9	11.2	38	53	34	90	36	73	192	156	110	0	May.
12.9	12.0	11.1	10.3	10.5	10.4	9.6	11.1	34	33	39	86	40	47	176	215	83	1	June.
9.3	8.9	8.5	7.8	7.9	7.3	7.4	8.8	39	41	80	166	26	29	165	154	83	0	July.
9.3	8.4	8.0	7.3	7.4	7.4	7.1	8.4	29	62	34	115	42	57	115	215	104	0	Aug.
9.8	9.4	9.0	8.7	8.3	8.3	7.8	9.2	28	73	122	147	60	60	93	86	75	4	Sept.
11.8	11.5	11.6	11.2	11.0	11.3	10.5	11.5	30	80	45	32	48	95	175	163	106	0	Oct.
10.9	11.2	10.5	10.3	10.3	9.7	9.2	10.8	44	120	85	29	15	61	185	125	100	0	Nov.
12.9	12.6	12.3	12.6	12.2	11.8	11.4	12.4	38	131	32	28	26	36	121	232	138	0	Dec.
12.0	11.6	11.1	10.7	10.5	10.4	10.1	11.3	46	855	731	945	441	678	1,656	2,090	1,359	5	Year.

BUFFALO, N. Y.

[h_a=206 ft.; local time, 16m slow.]

16.2	16.1	16.5	16.2	16.7	16.1	15.7	16.4	56	56	35	54	59	97	142	226	75	0	Jan.
17.4	17.2	17.2	16.5	16.4	16.1	16.0	17.2	63	25	73	40	39	73	146	225	49	2	Feb.
15.2	14.5	14.3	14.6	14.9	14.3	13.8	14.7	52	63	74	82	39	132	140	158	55	1	Mar.
17.6	16.5	15.5	15.5	15.8	15.4	14.6	16.0	66	31	46	22	46	101	204	233	36	1	Apr.
13.6	13.5	12.6	11.8	12.3	12.7	12.7	12.8	50	57	76	95	44	26	194	177	71	4	May.
15.0	13.7	12.7	12.5	12.3	13.0	12.9	14.8	51	39	39	64	30	62	190	249	47	0	June.
12.6	10.9	10.0	9.4	9.2	9.1	8.4	11.2	45	52	61	62	26	69	305	138	31	0	July.
13.6	12.0	10.7	10.6	10.5	10.8	10.8	11.1	39	95	71	81	49	60	119	159	110	0	Aug.
12.5	12.1	11.8	11.7	11.3	10.8	11.6	12.4	51	29	45	72	71	152	148	160	43	0	Sept.
17.2	17.1	17.9	17.1	16.1	15.1	14.8	16.1	66	94	33	80	32	79	148	184	94	0	Oct.
16.2	16.2	15.8	15.9	16.5	16.8	16.6	16.9	66	48	23	90	36	120	178	181	44	0	Nov.
21.0	21.0	20.8	20.7	20.4	19.8	19.1	20.8	65	42	91	111	28	55	137	215	65	0	Dec.
15.7	15.1	14.6	14.4	14.4	14.2	13.9	15.0	66	631	667	853	499	1,026	2,051	2,305	720	8	Year.

CHICAGO, ILL.

[h_a=274 ft.; local time, 50m slow.]

16.4	16.0	16.0	16.6	17.2	18.1	17.7	17.1	48	91	43	45	62	46	149	158	150	0	Jan.
16.4	16.9	16.5	16.7	16.6	15.5	14.8	15.3	50	49	75	44	66	62	60	172	144	0	Feb.
21.0	21.0	19.9	19.1	19.4	19.2	18.2	18.8	57	81	139	57	71	149	89	77	81	0	Mar.
18.8	16.2	15.4	15.5	16.0	16.7	15.4	17.8	70	97	118	37	61	90	68	124	125	0	Apr.
17.2	17.1	16.2	15.7	16.4	15.9	15.5	16.6	54	41	193	100	107	111	88	64	40	0	May.
16.0	15.9	13.4	12.6	12.4	12.6	12.7	15.1	45	80	164	54	62	109	100	72	79	0	June.
14.9	15.2	13.0	12.3	12.8	12.8	12.6	13.8	69	39	135	41	69	98	232	110	20	0	July.
14.7	13.7	12.6	12.2	12.5	12.8	12.2	13.2	47	53	233	95	94	99	68	48	54	0	Aug.
18.1	17.0	16.3	17.0	16.9	16.2	16.1	16.4	52	61	97	63	53	148	115	100	83	0	Sept.
16.9	16.9	16.8	17.2	18.2	18.4	18.3	17.7	58	57	115	67	57	92	143	149	64	0	Oct.
19.2	20.1	20.3	20.2	19.5	19.4	18.6	18.9	52	45	92	35	24	172	207	77	68	0	Nov.
20.8	21.0	21.6	23.0	22.3	21.6	21.6	20.8	58	40	94	59	57	85	156	160	93	0	Dec.
17.5	17.2	16.5	16.5	16.7	16.6	16.1	16.8	70	734	1,498	697	783	1,261	1,475	1,311	1,001	0	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

CINCINNATI, OHIO.

[λ=39° 6′ N.; φ=84° 30′ W.] [Seventy-fifth Meridian Time.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	8.5	8.0	7.6	7.4	7.4	7.3	7.4	6.9	7.5	8.0	8.3	9.6	10.3	10.6	10.9	10.8	10.1
Feb	8.8	8.6	8.8	7.9	8.4	8.9	9.0	8.7	9.5	10.2	10.9	10.7	11.6	11.3	11.3	11.6	11.8
Mar	8.4	8.5	7.9	8.8	7.6	7.7	7.4	8.2	9.3	10.4	10.7	11.0	11.1	11.7	11.7	11.6	11.7
Apr	7.2	7.3	7.2	7.5	7.0	7.2	7.2	8.3	9.1	10.2	10.4	10.7	11.4	11.9	13.1	13.2	13.4
May....	5.5	5.6	5.5	5.2	4.8	4.6	5.2	5.7	6.7	8.3	9.2	9.3	10.6	10.2	10.0	10.6	10.0
June....	5.1	5.4	5.4	5.6	5.7	5.1	5.5	7.0	8.1	8.6	8.7	9.2	9.0	9.2	9.2	9.4	8.8
July....	3.8	3.8	3.5	3.6	3.6	3.3	3.7	4.8	6.2	7.8	8.4	8.6	9.5	8.8	8.6	8.7	8.5
Aug	4.9	4.7	4.0	4.1	3.7	3.8	4.2	4.5	6.0	6.7	7.8	7.8	8.7	8.7	8.8	8.5	8.7
Sept	4.0	4.3	4.2	3.9	4.1	4.0	4.1	4.2	4.8	6.0	6.7	7.2	8.2	8.1	8.3	7.6	7.9
Oct.....	4.7	4.6	5.1	5.2	4.9	4.6	4.9	5.6	6.5	7.3	8.1	8.8	9.3	9.2	9.5	9.1	8.1
Nov	5.8	5.4	5.6	5.4	5.3	5.2	5.1	5.1	5.4	6.1	6.9	7.0	8.2	8.2	8.5	8.4	8.1
Dec.....	8.4	8.5	8.4	8.1	8.2	7.6	7.8	8.5	8.7	10.1	10.8	10.5	10.9	10.5	10.2	10.1	9.2
Year....	6.3	6.2	6.1	6.1	5.9	5.8	6.0	6.5	7.3	8.3	8.9	9.2	9.9	9.9	10.0	10.0	9.7

CLEVELAND, OHIO.

[λ=41° 30′ N.; φ=81° 42′ W.]

Jan.....	19.4	19.7	19.6	18.6	18.3	17.6	17.8	17.3	17.7	17.8	18.1	18.2	19.2	18.3	18.2	17.5	17.4
Feb	15.3	15.1	13.5	13.5	14.2	14.3	14.9	15.2	15.2	15.3	15.9	16 5	18.3	18.0	17.9	17.0	17.4
Mar	17.0	16.2	16.7	16.7	17.5	17.4	17.2	17.4	18.5	18.9	18.7	19.0	20.1	20.0	19.6	19.8	18.1
Apr	17.1	16.7	17.0	16.9	16.9	17.0	16.1	16.8	16.5	16.8	17.6	17.3	17.6	17.0	15.8	16.7	16.1
May....	13.2	13.5	13.6	13.7	12.9	13.1	13.0	13.3	13.9	14.1	15.2	15.4	15.7	15.8	15.4	15.3	14.8
June....	13.6	13.9	13.4	13.1	13.0	13.0	14.0	14.9	14.7	15.2	15.2	14.9	15.4	15.8	14.9	14.0	13.5
July....	12.2	12.1	12.4	12.5	12.6	12.5	12.1	11.5	10.9	11.8	12.2	12.9	13.2	12.6	12.5	12.1	12.8
Aug	11.2	11.4	11.4	11.4	11.1	10.8	10.5	10.2	10.3	11.2	11.8	12.5	12.8	12.7	12.3	11.7	11.0
Sept	14.3	14.4	13.9	13.3	13.3	13.6	14.8	14.0	13.5	13.2	13.0	13.3	13.5	13.1	12.1	11.0	10.9
Oct.....	15.3	15.4	15.5	15.3	15.6	15.3	15.7	15.5	16.2	14.9	15.2	15.6	16.2	16.4	17.1	17.1	15.4
Nov	16.5	16.7	17.0	17.3	17.2	16.9	16.5	16.0	15.6	15.3	14.3	14.0	14.5	14.3	14.6	13.9	14.4
Dec.....	18.1	17.7	17.8	17.8	18.6	18.6	18.5	18.9	18.3	17.7	17.6	18.3	18.5	18.3	18.5	18.5	18.4
Year....	15.3	15.2	15.2	15.0	15.1	15.0	15.1	15.1	15.1	15.2	15.4	15.7	16.2	16.0	15.7	15.4	15.0

DETROIT, MICH.

[λ=42° 20′ N.; φ=83° 3′ W.]

Jan.....	12.8	12.3	12.5	12.1	11.8	11.7	12.0	12.3	12.5	13.5	14.0	13.7	14.3	14.6	14.6	14.1	13.1
Feb	10.8	10.8	10.7	10.7	10.9	10.9	10.6	10.5	10.5	11.3	12.7	13.3	14.2	13.9	14.3	13.8	13.3
Mar	12.5	12.3	12.2	12.9	12.7	12.1	12.7	12.6	13.3	14.2	14.6	14.6	15.4	15.7	15.9	15.8	15.9
Apr	11.1	10.7	10.9	11.0	12.0	11.6	11.8	12.2	12.9	13.5	15.2	16.4	16.4	16.0	16.5	16.8	16.4
May....	10.5	10.4	10.1	9.7	9.6	9.2	9.1	9.5	10.2	10.9	11.7	12.8	13.0	12.9	13.8	13.6	13.5
June ...	9.4	9.1	9.5	10.0	10.7	10.9	11.0	11.5	11.8	12.2	12.9	12.6	13.5	13.8	13.7	13.8	13.4
July....	8.5	8.3	7.8	8.1	7.6	7.3	7.6	7.9	8.7	9.9	10.9	10.9	12.3	12.4	12.9	12.4	12.9
Aug	7.5	7.2	7.4	7.5	7.3	7.3	7.8	7.5	7.6	8.6	9.5	10.2	10.6	10.0	10.5	10.8	10.6
Sept....	10.1	9.2	9.7	9.1	8.8	8.7	8.5	8.8	9.0	9.8	10.5	10.7	11.7	11.9	11.4	11.2	11.0
Oct.....	10.9	10.7	10.6	10.8	11.1	10.5	10.8	11.1	11.5	13.0	13.2	13.3	13.6	13.8	14.5	14.6	14.0
Nov	12.9	12.5	12.4	12.1	11.6	11.2	11.9	10.9	11.1	12.0	12.8	12.9	13.3	13.7	13.4	13.3	13.0
Dec	14.7	14.5	14.5	14.1	14.3	14.1	14.2	13.4	14.0	14.4	15.5	15.6	16.5	16.2	15.8	15.7	15.5
Year....	11.0	10.7	10.7	10.7	10.7	10.5	10.7	10.7	11.1	11.9	12.8	13.1	13.7	13.7	13.9	13.8	13.6

DODGE, KANS.

[λ=37° 45′ N.; φ=100° W.]

Jan.....	8.5	8.7	9.0	9.2	9.0	9.2	9.2	9.0	8.4	9.0	9.8	12.1	12.3	11.8	11.8	11.8	12.0
Feb	8.7	8.7	9.4	9.7	9.1	9.2	8.5	8.2	8.8	10.0	11.6	12.7	13.1	14.2	13.8	14.2	14.0
Mar	14.5	13.7	13.3	12.9	12.5	13.1	11.9	11.8	13.2	15.0	17.6	18.5	19.1	19.4	19.8	19.9	19.5
Apr	9.8	9.5	9.4	9.3	9.2	8.2	8.4	7.8	9.6	12.7	14.5	14.7	14.2	14.2	14.3	14.5	14.9
May....	13.0	12.3	12.4	12.0	11.0	10.7	9.4	9.3	12.6	14.1	14.5	15.5	15.4	15.0	15.2	16.3	16.2
June....	11.5	11.9	11.4	10.8	11.1	10.1	10.1	10.1	12.0	13.4	13.7	14.0	13.9	14.2	15.2	16.0	16.3
July....	10.6	10.5	10.4	9.7	9.0	8.8	8.5	8.7	11.2	13.9	13.9	14.3	14.0	14.9	15.3	15.5	15.2
Aug	9.2	8.7	7.9	8.2	8.7	8.7	8.5	8.0	9.9	11.9	12.4	12.9	13.4	14.4	14.6	14.0	14.7
Sept....	10.9	10.9	10.9	10.2	10.3	10.5	10.2	10.2	12.7	15.8	16.6	17.2	18.2	18.5	18.6	18.3	18.4
Oct.....	9.1	9.1	8.5	8.6	9.1	8.3	7.7	7.5	7.5	9.5	11.6	12.6	13.3	14.2	14.6	14.8	14.8
Nov	10.2	9.7	9.8	10.1	9.3	9.1	8.9	9.1	9.3	10.0	12.7	14.3	16.1	16.2	16.0	16.3	15.5
Dec	9.3	8.9	8.5	8.6	9.2	8.7	8.8	8.9	9.6	9.3	9.9	11.9	13.1	12.9	13.0	12.6	12.8
Year....	10.4	10.2	10.1	9.9	9.8	9.6	9.2	9.0	10.4	12.0	13.2	14.2	14.7	15.0	15.2	15.4	15.4

WIND—VELOCITY AND FREQUENCY—Continued.

CINCINNATI, OHIO.

[h_s=160 ft.; local time, 38m slow.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1902.
9.0	8.6	8.5	8.5	8.1	7.8	7.9	8.5	29	67	72	32	144	31	138	69	186	5	Jan.
10.8	9.7	9.2	9.0	9.2	9.4	8.9	9.8	39	68	106	39	94	12	76	101	176	0	Feb.
11.5	10.4	9.3	8.5	8.7	8.6	8.6	9.6	39	44	105	78	186	11	118	73	127	2	Mar.
12.3	11.4	9.5	8.3	7.6	7.6	7.5	9.4	44	86	80	27	77	17	111	102	205	15	Apr.
10.4	8.6	7.1	6.3	6.4	6.0	6.4	7.4	45	36	108	60	149	57	157	84	92	1	May.
8.9	7.7	6.9	5.9	5.7	5.4	5.6	7.1	36	75	53	46	167	36	129	91	112	11	June.
8.4	7.0	5.5	4.7	4.8	4.1	3.6	6.0	30	45	53	57	131	44	187	146	64	17	July.
8.0	7.5	6.0	5.8	5.7	5.2	5.2	6.2	28	54	202	124	81	10	92	77	94	10	Aug.
7.6	6.5	5.2	4.6	4.1	3.7	4.3	5.6	28	35	46	56	228	13	127	111	86	18	Sept.
6.8	6.0	5.6	4.7	4.5	4.6	4.3	6.3	36	40	112	52	152	29	208	61	88	2	Oct.
6.7	6.0	5.9	5.6	5.8	6.0	5.9	6.3	26	46	99	50	187	33	182	64	55	4	Nov.
8.9	9.1	8.4	9.0	8.8	8.3	8.0	9.0	36	40	77	39	145	20	198	145	79	1	Dec.
9.1	8.2	7.3	6.7	6.6	6.4	6.4	7.6	45	636	1,113	660	1,741	313	1,723	1,124	1,364	86	Year.

CLEVELAND, OHIO.

[h_s=201 ft.; local time, 27m slow.]

18.1	17.6	17.5	17.6	18.5	18.4	18.8	18.2	54	61	40	24	132	115	95	157	120	0	Jan.
16.6	15.6	15.5	15.8	16.5	16.6	15.9	15.8	64	143	51	17	75	59	144	111	72	0	Feb.
17.3	16.5	15.9	16.5	16.8	17.9	17.9	17.8	56	114	55	9	173	114	81	124	74	0	Mar.
15.9	15.2	15.1	15.5	15.6	15.5	15.6	16.4	56	99	36	19	136	80	90	178	81	1	Apr.
14.5	13.0	11.5	11.5	12.2	12.2	12.9	13.7	58	162	107	40	94	108	72	88	73	0	May.
13.0	12.3	11.3	10.8	11.8	11.8	12.6	13.6	54	86	56	26	157	106	71	126	89	3	June.
11.4	9.9	9.9	9.3	10.4	11.7	11.3	11.8	48	106	24	9	115	141	129	107	112	1	July.
10.4	9.5	9.4	10.1	10.4	10.7	11.1	11.1	39	172	66	50	125	88	38	64	141	0	Aug.
10.3	9.4	9.6	11.4	12.1	12.5	13.2	12.7	48	48	59	24	250	102	72	79	86	0	Sept.
14.0	12.5	13.7	13.4	14.8	16.1	15.6	15.3	48	83	82	44	128	132	139	68	68	0	Oct.
14.1	14.6	15.5	16.1	15.8	16.3	16.7	15.6	48	56	66	15	168	169	117	89	40	0	Nov.
18.1	18.2	18.8	19.2	19.0	18.7	18.0	18.3	50	42	104	24	119	143	205	83	24	0	Dec.
14.5	13.7	13.6	13.9	14.5	14.9	15.0	15.0	64	1,172	746	301	1,672	1,357	1,253	1,274	980	5	Year.

DETROIT, MICH.

[h_s=193 ft.; local time, 32m slow.]

11.5	11.5	11.4	11.5	12.5	11.9	12.4	12.7	36	49	67	30	49	49	146	193	161	0	Jan.
12.2	12.3	11.9	12.0	11.8	11.4	11.1	11.9	40	61	97	38	32	35	100	190	119	0	Feb.
15.2	13.7	13.6	13.7	13.0	13.1	13.0	13.8	48	71	128	76	67	72	137	98	95	0	Mar.
15.2	13.4	11.3	11.3	11.1	10.9	10.8	13.1	55	47	68	53	59	59	139	178	117	0	Apr.
12.6	12.0	10.5	10.4	9.8	9.4	9.5	11.0	36	41	153	123	58	56	130	94	89	0	May.
12.6	12.5	10.8	9.9	10.2	10.5	10.3	11.5	48	47	119	64	37	82	131	147	93	0	June.
11.2	9.6	8.2	7.6	7.8	8.2	8.9	9.5	38	64	59	47	28	69	255	146	75	1	July.
9.9	9.4	8.3	7.6	7.5	7.7	7.4	8.6	29	140	165	93	44	31	96	87	88	0	Aug.
10.6	10.1	9.8	9.6	9.3	9.9	10.6	10.0	31	76	78	46	73	106	144	126	69	2	Sept.
12.1	11.7	11.9	11.5	11.5	11.0	10.7	12.0	41	49	121	55	50	53	162	156	97	1	Oct.
12.0	12.2	12.7	12.4	12.7	12.6	12.9	12.4	40	49	92	23	56	98	225	124	53	0	Nov.
14.8	15.3	15.0	15.3	15.1	14.6	13.7	14.9	37	55	120	48	25	48	210	150	88	0	Dec.
12.5	12.0	11.3	11.1	11.0	10.9	10.9	11.8	55	749	1,267	696	578	758	1,875	1,689	1,144	4	Year.

DODGE, KANS.

[h_s=54 ft.; local time, 1h 40m slow.]

11.5	9.7	8.1	7.8	7.3	7.2	7.9	9.6	48	62	68	27	119	42	62	96	253	15	Jan.
13.6	11.8	9.7	8.9	8.5	8.0	8.4	10.5	44	104	90	27	168	15	17	50	200	1	Feb.
19.8	19.6	15.8	12.9	13.5	14.2	14.4	15.7	48	55	23	23	230	51	52	52	256	2	Mar.
14.2	13.1	11.1	10.1	10.1	10.0	10.5	11.4	42	89	116	89	218	12	40	18	142	5	Apr.
16.0	15.7	14.7	13.3	12.5	12.4	13.9	13.5	53	32	147	42	403	26	34	7	51	2	May.
16.3	15.8	15.5	13.8	11.8	11.5	11.9	13.0	38	100	119	68	346	13	12	10	52	0	June.
15.7	15.8	14.9	12.7	11.4	11.2	11.5	12.4	42	30	38	41	494	45	16	5	72	3	July.
14.3	14.2	14.4	12.1	11.1	11.0	9.8	11.4	36	76	83	67	369	52	39	9	49	0	Aug.
17.2	16.0	14.4	11.9	11.2	12.3	11.8	13.9	42	116	53	25	315	31	22	64	89	5	Sept.
13.4	10.2	8.6	8.6	9.1	9.4	9.2	10.4	40	86	49	46	128	171	67	83	104	10	Oct.
13.7	10.4	9.8	9.9	10.7	10.5	10.4	11.6	40	150	56	23	139	174	29	56	91	2	Nov.
10.9	8.7	8.7	9.1	9.7	10.6	9.3	10.1	35	126	74	43	94	112	25	143	127	0	Dec.
14.7	13.4	12.1	10.9	10.6	10.7	10.8	12.0	53	1,017	916	521	3,023	744	415	593	1,486	45	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

EASTPORT, ME.

[λ=44° 54′ N.; φ=66° 59′ W.] [Seventy-fifth Meridian Time.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	15.1	14.2	13.8	13.0	13.6	13.4	14.1	13.7	14.3	14.5	15.2	16.0	14.9	15.5	14.4	13.5	13.9
Feb *...	12.4	12.4	12.4	12.5	13.0	13.5	13.4	13.5	13.9	14.5	14.5	14.5	14.0	14.4	15.1	14.2	13.7
Mar	14.9	14.9	15.3	14.1	14.0	14.5	15.5	15.5	15.6	16.1	16.1	16.1	16.5	16.8	16.4	16.2	16.1
Apr	8.0	8.0	7.7	7.0	8.0	8.2	8.9	9.6	10.4	10.7	11.5	11.4	11.6	12.5	12.8	12.1	11.9
May....	8.2	8.6	8.8	9.4	9.6	9.8	10.8	11.8	11.0	10.9	11.3	12.5	13.1	14.0	13.5	13.1	12.1
June....	7.6	7.6	7.5	7.5	7.4	8.0	8.8	10.0	10.3	10.6	11.3	11.4	11.8	11.6	12.8	11.8	11.3
July....	6.2	5.6	5.7	5.1	5.0	4.8	5.3	5.5	5.6	6.4	7.1	7.5	7.9	8.7	8.4	8.3	6.8
Aug	6.4	6.2	6.4	6.4	6.2	6.3	6.3	6.6	7.2	7.3	7.6	8.9	8.9	8.9	8.6	7.9	7.8
Sept	6.7	6.9	7.0	7.0	6.9	7.2	7.5	8.9	9.2	9.3	8.9	9.1	9.3	9.5	9.6	9.2	8.0
Oct.....	11.3	10.8	11.0	11.4	10.8	10.2	10.3	10.9	12.1	13.4	12.9	13.6	13.7	13.7	13.6	12.5	11.5
Nov	12.0	11.6	10.7	10.7	10.2	9.8	10.7	10.9	11.7	11.9	12.0	12.2	12.0	11.8	11.6	11.4	11.0
Dec.....	16.3	16.4	16.1	15.2	15.2	15.3	15.1	15.0	14.6	15.2	15.0	14.4	14.1	14.0	13.6	13.6	13.2
Year....	10.4	10.3	10.2	9.9	10.0	10.1	10.6	11.0	11.3	11.7	12.0	12.3	12.3	12.6	12.5	12.0	11.4

GALVESTON, TEX.

[λ=29° 18′ N.; φ=94° 50′ W.]

Jan.....	11.4	11.5	12.0	11.8	12.2	12.4	12.4	12.9	12.6	13.1	13.1	12.8	13.0	12.7	12.1	11.9	11.8
Feb	11.6	11.9	12.1	12.3	12.2	12.2	13.0	13.5	13.0	13.7	13.8	14.1	14.4	13.6	12.7	12.8	13.1
Mar	12.5	12.9	12.6	14.0	13.7	13.5	13.3	13.6	13.6	13.9	14.7	14.2	14.2	14.3	14.5	14.3	14.3
Apr	11.9	11.6	12.2	11.5	11.6	11.4	11.8	11.7	11.9	12.5	13.3	13.6	13.4	13.2	13.2	13.1	13.5
May....	12.3	12.4	12.8	12.4	11.4	11.1	10.9	11.9	12.5	12.9	13.0	13.0	13.3	12.7	13.3	13.4	13.0
June ...	13.7	14.0	13.6	13.2	12.9	12.2	11.8	11.9	11.9	12.4	12.4	12.1	13.4	13.1	12.7	13.1	13.8
July....	12.2	11.6	11.6	11.5	11.6	11.0	10.8	10.7	10.5	10.7	11.0	10.6	11.0	11.3	11.9	11.7	11.6
Aug	9.6	9.7	9.3	8.6	7.7	7.1	6.3	5.7	6.5	7.4	7.5	7.3	8.9	9.6	10.9	11.3	11.5
Sept	9.8	9.9	10.1	10.0	9.6	9.3	9.1	9.3	9.8	10.4	11.1	11.6	12.0	11.6	11.0	10.5	10.1
Oct.....	9.9	10.2	10.0	9.8	10.4	10.5	10.0	10.7	10.5	10.6	10.9	10.5	10.4	11.3	11.5	10.6	10.4
Nov	12.0	12.0	11.9	12.1	12.2	12.7	12.8	12.9	13.2	13.5	13.3	13.6	13.5	13.4	13.2	13.2	13.3
Dec.....	12.3	12.1	12.1	11.8	11.9	12.6	12.8	12.9	12.0	12.2	12.7	13.3	13.0	12.8	12.7	12.1	12.2
Year....	11.6	11.6	11.7	11.6	11.4	11.3	11.2	11.5	11.5	11.9	12.2	12.2	12.5	12.5	12.5	12.3	12.4

HAVRE, MONT.

[λ=48° 34′ N.; φ=109° 40′ W.]

Jan.....	10.8	10.6	11.1	11.8	12.1	12.3	11.7	11.3	11.1	10.9	12.1	11.6	13.3	14.3	14.5	14.7	14.1
Feb	7.4	6.4	6.8	7.0	6.8	6.6	7.5	7.0	7.0	6.8	7.9	8.1	9.5	10.6	11.0	11.0	10.3
Mar	9.7	10.1	10.4	10.1	9.5	9.6	9.3	9.5	10.3	10.6	12.2	13.1	15.2	15.9	15.4	15.3	15.7
Apr	9.1	9.7	9.0	8.7	8.8	8.9	9.1	8.5	8.4	10.4	11.4	10.5	11.7	12.1	12.3	13.3	14.0
May....	7.8	8.5	8.4	8.8	9.4	9.1	8.6	9.7	10.2	11.3	11.3	11.4	12.6	14.0	13.6	12.7	12.8
June ...	6.5	6.0	5.2	5.6	7.0	6.8	6.0	6.8	7.4	8.7	8.9	9.1	10.5	11.3	11.6	11.4	12.2
July....	5.6	6.5	7.0	7.1	6.9	7.1	7.1	7.3	8.1	8.9	10.2	10.8	10.6	11.3	11.9	12.3	12.6
Aug	7.1	7.2	7.7	7.3	7.5	5.7	6.4	6.1	6.3	8.5	10.8	10.4	11.2	10.8	11.6	12.3	12.3
Sept	6.1	6.2	7.1	7.7	7.6	7.4	7.8	8.3	7.7	9.8	11.4	12.1	13.5	15.2	16.1	16.4	15.8
Oct.....	5.7	5.5	5.8	5.8	6.0	6.0	6.5	5.7	5.8	6.4	7.7	9.0	9.6	9.8	10.4	10.5	9.7
Nov	10.5	10.6	10.8	11.0	11.3	10.9	10.8	10.5	10.8	10.8	11.9	12.0	13.1	13.6	14.2	14.3	13.3
Dec	8.0	8.3	8.6	8.9	8.8	8.6	9.1	10.0	9.6	9.5	9.8	9.6	10.8	11.4	11.4	10.3	9.7
Year ...	7.9	8.0	8.2	8.3	8.5	8.2	8.3	8.4	8.6	9.4	10.5	10.6	11.8	12.5	12.8	12.9	12.7

KANSAS CITY, MO.

[λ=39° 5′ N.; φ=94° 37′ W.]

Jan.....	7.2	6.7	6.9	6.8	7.0	6.6	7.5	8.0	8.3	8.7	9.5	9.5	9.0	8.8	9.1	8.8	8.9
Feb	6.1	5.9	6.1	6.5	6.4	6.0	6.1	6.2	6.7	7.6	7.8	8.2	8.3	8.6	8.9	8.6	8.0
Mar	8.8	9.4	8.9	8.7	9.1	9.3	9.2	9.2	9.8	10.6	11.6	12.1	12.0	12.0	12.0	12.0	11.6
Apr	7.7	8.2	8.5	8.0	8.4	8.0	7.8	8.3	9.4	10.0	10.1	10.9	11.7	12.0	11.7	11.8	11.6
May....	8.2	7.7	7.7	7.3	7.2	6.8	6.6	7.4	7.9	9.4	10.0	10.3	10.6	10.6	11.1	11.0	11.2
June ...	6.6	6.7	7.2	7.2	7.1	6.6	6.9	8.0	8.4	9.4	9.9	10.6	10.7	10.1	9.8	10.5	10.3
July....	6.8	7.1	7.0	7.2	6.9	6.6	5.9	6.1	7.3	8.5	8.9	8.9	9.7	10.5	10.4	10.6	10.3
Aug	6.8	6.8	7.4	7.0	5.9	6.8	6.6	6.8	7.5	8.0	7.8	8.1	8.3	8.5	8.6	8.8	8.2
Sept	7.7	7.2	7.3	7.3	7.2	6.7	6.7	7.5	7.5	8.8	8.8	9.6	10.4	10.3	11.1	11.1	10.3
Oct.....	7.5	6.9	6.8	6.6	6.5	6.6	6.9	6.9	7.7	8.6	9.4	9.8	10.5	10.5	11.1	11.0	11.3
Nov	8.4	8.3	8.0	8.8	8.6	8.6	8.5	8.6	8.6	8.5	9.2	9.5	10.0	9.8	9.7	9.4	9.2
Dec	7.7	6.6	6.4	6.6	6.5	6.7	6.4	7.3	7.7	7.8	7.5	8.0	8.5	8.3	8.5	8.4	8.5
Year ...	7.5	7.3	7.4	7.3	7.2	7.1	7.1	7.5	8.1	8.8	9.2	9.6	10.0	10.0	10.2	10.2	10.0

*From 1 to 7 a. m. and from 4 p. m. to midnight, inclusive, the hourly means are for 27 days only, and the monthly mean is for 27 and 35-96th days.

WIND—VELOCITY AND FREQUENCY—Continued.

EASTPORT, ME.

[h_a= 82 ft.; local time, 32m fast.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1902.
14.5	14.6	15.4	15.5	15.6	15.8	15.1	14.6	43	132	56	23	44	35	64	314	76	0	Jan.
12.9	13.2	13.5	13.9	13.3	13.1	13.1	13.6	54	127	107	44	37	22	29	161	111	34	Feb.
14.2	14.2	13.6	13.3	13.5	13.3	13.4	15.0	48	207	118	71	46	90	126	51	31	4	Mar.
11.0	9.2	9.4	9.6	9.4	8.6	8.2	9.8	49	61	82	66	45	105	137	149	39	36	Apr.
10.5	9.0	8.7	7.9	7.4	8.1	8.3	10.3	32	129	64	33	41	144	167	115	50	1	May.
10.2	8.8	7.3	7.2	7.3	7.8	7.6	9.3	42	91	52	53	66	99	154	148	50	7	June.
6.7	6.1	5.7	5.6	6.2	7.1	6.4	6.4	24	101	78	27	34	105	215	131	26	27	July.
6.8	6.6	6.5	6.6	6.8	6.8	6.5	7.1	36	112	53	35	44	129	133	177	42	19	Aug.
7.1	6.6	6.3	6.0	5.8	6.3	6.2	7.7	40	80	53	42	46	134	168	113	46	38	Sept.
11.3	11.7	12.2	12.4	11.9	11.7	11.6	11.9	50	107	51	13	14	93	185	141	140	0	Oct.
11.1	11.3	12.0	11.5	11.4	12.0	11.8	11.4	42	114	86	23	47	66	178	80	119	9	Nov.
14.3	15.3	15.8	16.5	16.9	17.0	16.1	15.2	54	96	78	33	27	22	102	130	253	3	Dec.
10.9	10.6	10.5	10.5	10.5	10.6	10.4	11.0	54	1,357	878	463	491	1,044	1,656	1,710	983	178	Year.

GALVESTON, TEX.

[h_a=112 ft.; local time, 1h 19m slow.]

11.3	11.1	11.5	11.7	12.0	12.0	11.6	12.1	37	161	143	92	176	30	24	29	89	0	Jan.
12.7	12.2	12.0	11.6	12.0	12.0	12.2	12.7	39	110	136	36	153	33	63	38	103	0	Feb.
14.0	13.1	12.6	12.5	12.7	12.9	12.8	13.5	40	86	78	111	238	87	26	35	83	0	Mar.
13.4	12.8	13.2	13.8	14.3	13.8	13.2	12.7	52	58	58	63	377	119	25	10	10	0	Apr.
13.3	13.2	13.3	12.6	12.5	13.0	12.3	12.6	36	17	22	20	537	105	27	7	9	0	May.
13.7	13.8	13.0	12.5	12.9	13.1	13.0	12.9	49	27	11	34	477	145	9	6	11	0	June.
11.8	11.4	11.2	10.7	10.8	11.3	11.6	11.3	28	32	17	20	418	184	18	18	36	1	July.
11.6	10.9	10.1	10.0	9.8	10.0	9.7	9.0	22	5	2	7	210	373	97	31	18	1	Aug.
10.1	9.3	8.9	9.4	9.5	10.1	10.2	10.1	35	57	100	59	207	151	60	41	45	0	Sept.
10.0	8.9	8.6	9.6	9.7	10.2	10.4	10.2	31	86	197	134	158	46	19	11	91	2	Oct.
12.4	12.4	12.4	12.4	12.3	11.8	12.0	12.7	40	65	69	148	297	27	37	24	53	0	Nov.
12.6	12.1	12.2	12.3	12.4	13.2	12.9	12.5	46	87	142	130	179	45	42	39	78	2	Dec.
12.2	11.8	11.6	11.6	11.7	12.0	11.8	11.9	52	791	975	854	3,427	1,345	447	289	626	6	Year.

HAVRE, MONT.

[h_a=53 ft.; local time, 2h 19m slow.]

12.4	10.5	9.6	8.9	10.0	10.1	10.1	11.7	50	32	99	18	1	3	275	214	98	4	Jan.
9.5	8.9	8.1	7.7	7.0	7.5	7.4	8.1	30	12	194	45	16	19	137	187	55	7	Feb.
14.9	13.9	12.3	10.5	10.7	10.0	10.0	11.8	44	6	152	81	29	9	216	126	121	4	Mar.
13.8	14.5	14.8	12.7	10.8	11.2	10.2	11.0	36	19	154	77	51	15	177	129	93	5	Apr.
13.2	12.7	12.9	11.9	9.2	7.9	7.6	10.7	36	19	123	99	63	15	179	131	112	3	May.
12.5	11.5	10.0	9.4	7.6	6.4	6.3	8.5	36	29	165	120	56	21	77	124	124	4	June
12.2	11.4	11.6	10.4	8.5	7.0	6.6	9.1	40	23	124	51	35	30	182	174	104	21	July.
12.3	12.4	11.2	9.9	8.1	7.0	7.3	9.1	39	13	123	51	33	22	202	178	115	7	Aug.
14.8	13.8	11.9	10.0	8.6	7.3	6.5	10.4	48	11	78	35	38	19	201	168	158	12	Sept.
8.5	7.6	6.7	5.5	5.7	5.4	5.5	7.1	44	14	134	58	19	19	183	224	65	28	Oct.
12.1	10.7	10.5	10.1	10.3	10.2	10.5	11.5	47	17	169	49	6	14	300	128	28	9	Nov.
9.8	9.1	9.5	9.1	9.0	9.3	8.7	9.5	48	27	244	25	1	9	194	191	28	25	Dec.
12.2	11.4	10.8	9.7	8.8	8.3	8.1	9.9	50	222	1,759	709	348	195	2,323	1,974	1,101	129	Year.

KANSAS CITY, MO.

[h_a=95 ft.; local time, 1h 18m slow.]

7.7	6.7	6.9	7.4	7.3	7.5	7.4	7.8	28	118	37	61	68	93	129	69	165	4	Jan.
7.9	7.9	7.4	7.6	7.7	7.5	6.7	7.3	30	135	100	47	98	65	22	47	153	5	Feb.
11.3	10.7	8.8	8.1	8.3	8.9	8.8	10.1	34	82	57	49	200	108	38	40	165	5	Mar.
11.1	10.8	9.5	8.7	8.7	8.7	8.0	9.6	38	115	75	86	133	91	63	34	123	0	Apr.
11.0	10.9	9.0	7.8	8.2	8.1	8.1	8.9	36	57	75	96	185	224	56	13	37	1	May.
9.8	9.4	8.6	7.0	6.7	7.0	6.9	8.4	30	91	110	53	145	198	50	11	56	6	June.
9.9	9.4	8.6	6.8	6.4	6.5	6.2	8.0	27	82	15	15	97	359	82	22	58	14	July.
8.3	7.9	6.6	5.8	6.0	6.5	6.6	7.3	55	63	94	103	217	135	59	16	56	1	Aug.
9.5	8.2	6.8	6.5	6.9	7.2	7.5	8.3	28	139	28	9	212	135	45	41	105	6	Sept.
10.1	8.5	8.2	8.9	8.8	9.2	8.5	8.6	27	36	76	24	186	200	53	30	129	10	Oct.
8.6	7.7	7.7	8.0	8.2	8.1	8.0	8.7	28	99	47	4	164	194	50	25	134	3	Nov.
7.7	7.8	7.7	7.8	7.9	7.8	8.1	7.6	28	106	56	44	95	120	103	50	164	6	Dec.
9.4	8.8	8.0	7.5	7.6	7.8	7.6	8.4	55	1,123	770	591	1,800	1,922	750	398	1,345	61	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

KEY WEST, FLA.

[λ=24° 34′ N.; φ=81° 49′ W.] [Seventy-fifth Meridian Time.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.	11.0	10.7	11.0	11.0	11.2	11.5	11.6	11.8	12.0	12.0	11.8	12.1	12.6	12.9	13.1	12.9	12.8
Feb	10.7	10.2	10.1	9.3	9.8	10.0	10.7	10.6	10.8	11.4	11.5	11.2	11.3	10.9	11.2	11.8	11.8
Mar	10.3	10.1	9.7	9.2	9.6	9.5	9.8	9.5	10.3	11.5	11.9	12.4	12.6	12.3	12.1	11.9	11.4
Apr	10.2	9.9	10.0	9.4	9.0	9.1	9.5	10.4	11.0	11.5	11.7	12.0	11.9	11.5	11.3	11.4	11.4
May	8.0	7.7	7.3	6.6	6.5	6.5	6.8	8.0	8.7	9.2	9.9	9.9	10.5	10.0	9.8	9.4	9.5
June	8.9	8.8	8.9	9.0	8.6	8.3	8.5	8.7	9.5	10.1	10.5	10.4	10.9	10.9	10.6	10.9	11.1
July	7.0	6.5	6.2	6.0	5.4	5.0	5.5	7.0	7.4	8.2	8.1	8.2	8.4	8.1	7.6	7.7	7.5
Aug	5.8	5.1	4.3	4.6	4.5	4.5	4.5	5.1	5.8	6.1	6.4	6.6	7.0	6.8	6.8	6.7	6.3
Sept	5.7	5.0	5.3	5.0	5.0	5.2	5.2	5.3	6.0	7.0	7.4	7.4	7.4	7.1	6.9	6.2	5.5
Oct	7.5	6.9	6.5	6.7	6.8	6.9	7.2	7.3	7.2	8.0	7.6	7.9	8.2	8.0	8.4	8.3	8.6
Nov	11.4	11.0	10.9	10.9	10.8	11.0	10.8	10.9	11.5	12.1	12.5	12.1	12.4	12.2	11.9	11.7	11.1
Dec	10.4	10.0	10.4	10.5	10.5	10.9	11.2	10.9	11.5	12.0	12.4	12.3	12.7	12.6	12.1	12.7	11.7
Year	8.9	8.5	8.4	8.2	8.1	8.2	8.4	8.8	9.3	9.9	10.1	10.2	10.5	10.3	10.2	10.1	9.9

MARQUETTE, MICH.

[λ=46° 34′ N.; φ=87° 24′ W.]

Jan.	15.1	14.8	14.3	13.2	13.2	13.5	13.4	13.7	12.8	12.6	12.5	12.5	12.8	12.5	12.4	12.9	12.1
Feb	10.8	11.1	11.6	11.6	12.3	12.6	12.1	12.2	12.3	11.6	11.8	11.6	12.9	12.3	11.6	11.7	11.1
Mar	12.4	12.6	11.5	11.0	11.0	11.0	11.2	10.5	10.3	10.5	11.6	11.2	11.7	12.1	12.4	12.2	12.5
Apr	12.1	12.2	12.1	12.3	11.8	11.4	11.0	11.1	11.4	12.0	12.4	13.6	13.9	13.2	13.4	12.7	12.0
May	8.9	9.4	8.9	9.1	9.6	9.2	9.0	9.0	9.3	9.2	9.8	10.2	10.2	10.4	10.6	10.3	10.1
June	8.3	9.0	9.7	9.1	8.4	8.0	8.2	9.2	10.1	11.1	12.0	11.8	11.9	12.0	11.9	11.4	10.2
July	8.2	7.9	8.8	8.5	9.1	8.9	8.4	8.8	8.5	9.4	10.7	10.5	10.4	10.2	10.5	9.5	8.5
Aug	9.7	10.3	10.7	11.1	11.2	10.5	9.1	8.9	8.9	9.9	10.7	11.3	11.9	11.5	10.6	9.9	9.3
Sept	11.5	11.5	11.8	12.2	11.4	11.1	10.7	11.3	11.6	12.7	12.5	13.3	14.9	14.1	14.3	13.2	12.2
Oct	11.4	11.6	11.8	11.3	11.6	11.4	11.0	10.7	11.6	12.4	13.4	15.5	15.6	16.3	15.7	14.8	13.6
Nov	11.4	11.5	10.1	9.5	9.4	9.9	9.2	10.1	10.1	9.8	10.6	11.8	12.8	13.6	13.2	13.0	11.8
Dec	12.3	11.5	11.0	11.4	11.1	11.5	12.1	12.5	12.6	11.9	13.0	12.6	11.6	11.1	10.7	11.5	11.4
Year	11.0	11.1	11.0	10.9	10.8	10.8	10.4	10.7	10.8	11.1	11.8	12.2	12.6	12.4	12.3	11.9	11.2

MEMPHIS, TENN.

[λ=35° 9′ N.; φ=90° 3′ W.]

Jan.	11.0	11.0	10.3	10.3	10.2	10.7	10.3	10.5	10.5	11.1	11.0	10.5	10.7	11.3	11.5	11.6	10.7
Feb	9.6	9.9	10.2	10.5	10.4	11.0	11.5	11.8	11.4	12.2	12.3	11.7	12.2	11.9	11.8	11.3	10.9
Mar	12.5	12.5	12.1	12.2	11.5	12.3	11.5	11.0	12.1	12.4	12.9	13.1	13.9	13.5	13.6	14.3	14.1
Apr	9.2	8.9	8.2	8.4	9.3	9.5	9.8	9.8	10.2	10.2	11.1	11.7	11.6	11.3	10.6	10.6	10.3
May	8.7	8.2	8.2	7.9	7.9	9.1	8.4	9.1	9.9	10.0	10.4	10.7	11.2	10.5	10.0	10.2	10.4
June	8.2	8.1	9.0	8.7	8.7	9.3	8.9	9.5	9.8	11.0	10.6	10.6	9.6	10.5	10.7	11.1	11.2
July	6.0	6.6	7.4	6.7	7.1	7.3	6.9	6.8	7.2	7.3	8.0	8.5	9.6	9.7	9.5	9.1	8.7
Aug	7.5	8.0	7.6	7.5	7.4	7.3	7.9	7.7	7.6	7.6	7.8	7.5	7.7	8.0	8.3	8.8	9.1
Sept	7.5	8.3	8.5	9.0	9.1	8.6	8.8	8.9	9.1	9.3	9.6	9.8	9.6	9.6	9.5	9.7	9.0
Oct	9.2	8.9	8.9	8.5	8.3	8.7	8.6	8.3	8.4	9.2	9.2	8.8	9.6	9.7	9.9	9.7	9.6
Nov	8.7	7.9	8.2	9.0	9.1	8.9	9.3	10.0	9.4	10.4	10.8	10.2	9.9	9.0	9.3	8.7	8.4
Dec	11.9	11.9	11.9	11.5	11.0	10.4	10.1	9.5	10.2	10.6	11.4	10.7	10.9	10.5	9.9	9.5	9.7
Year	9.2	9.2	9.2	9.2	9.2	9.4	9.3	9.4	9.6	10.1	10.4	10.3	10.5	10.5	10.4	10.4	10.2

NEW ORLEANS, LA.

[λ=29° 58′ N.; φ=90° 4′ W.]

Jan.	8.1	8.1	7.8	8.0	8.1	8.3	8.3	7.5	8.0	9.3	9.4	9.9	10.5	11.0	10.6	10.2	9.6
Feb	10.0	9.3	9.4	9.8	8.9	8.6	9.1	8.6	8.9	9.8	10.4	10.6	11.0	11.5	12.1	13.1	12.6
Mar	9.6	10.3	10.5	10.1	10.7	11.0	10.4	10.5	11.1	12.3	12.5	13.1	13.4	13.8	13.9	13.9	13.6
Apr	7.5	6.9	6.2	5.9	5.6	5.9	6.4	6.3	7.4	9.3	9.6	10.1	10.8	11.2	11.1	11.0	10.4
May	6.7	6.6	6.3	5.6	5.6	5.3	5.1	5.8	7.5	9.2	9.3	9.2	10.4	10.4	11.0	10.7	10.9
June	6.6	6.5	6.4	6.3	5.9	6.0	5.9	6.7	9.1	9.3	9.6	9.7	10.7	10.4	10.4	10.0	10.5
July	5.1	5.0	4.2	4.2	4.5	3.5	3.4	3.9	5.5	6.4	6.8	6.2	8.0	8.0	8.6	8.6	8.2
Aug	6.7	5.9	6.1	6.2	6.0	5.1	5.5	5.5	6.4	7.5	8.2	6.9	8.5	8.6	8.4	8.0	8.6
Sept	7.3	6.5	6.5	6.4	6.7	5.8	6.9	7.0	7.3	8.4	8.7	8.1	10.1	9.6	9.0	9.0	8.9
Oct	8.3	7.6	7.8	8.0	8.5	7.9	9.3	8.8	9.5	10.1	9.7	9.6	11.6	11.3	11.1	10.5	10.3
Nov	6.9	6.8	6.5	6.6	6.5	6.7	6.9	7.5	7.2	7.6	8.7	9.2	9.4	9.4	9.4	9.5	9.2
Dec	8.8	9.0	9.5	9.5	9.0	9.2	9.2	9.0	9.1	9.5	9.6	9.7	10.6	10.7	10.5	10.2	10.1
Year	7.6	7.4	7.3	7.2	7.2	6.9	7.2	7.3	8.1	9.1	9.4	9.4	10.4	10.5	10.5	10.4	10.2

WIND—VELOCITY AND FREQUENCY—Continued.

KEY WEST, FLA.

[h_s=50 ft.; local time, 27m slow.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1902.
11.9	12.0	11.5	11.3	10.6	10.1	10.3	11.7	30	166	231	182	50	7	15	10	83	0	Jan.
11.4	11.5	11.9	11.4	11.7	11.8	11.6	11.0	36	112	78	36	112	81	18	48	187	0	Feb.
11.2	11.0	11.0	11.5	10.8	10.5	10.6	10.9	36	55	134	145	257	44	13	12	81	3	Mar.
11.0	10.4	9.4	9.5	10.3	9.4	9.2	10.4	31	73	107	276	91	32	19	18	104	0	Apr.
9.2	9.5	9.0	9.1	8.7	8.3	7.8	8.6	26	77	142	374	96	2	0	0	53	0	May.
10.2	10.0	9.8	9.3	8.9	9.1	8.6	9.6	26	45	114	344	76	64	75	0	0	2	June.
7.4	7.4	6.9	7.0	7.1	7.0	7.0	7.1	24	19	90	365	219	45	0	4	2	0	July.
5.7	5.2	5.3	5.3	5.5	5.6	5.3	5.6	30	14	89	241	185	25	42	65	80	3	Aug.
4.7	4.3	4.4	5.0	5.1	5.4	5.2	5.7	26	5	51	242	240	40	74	51	16	1	Sept.
8.2	7.9	7.7	8.5	8.1	8.5	8.5	7.7	28	7	218	161	102	63	96	29	66	2	Oct.
10.3	9.9	10.2	9.9	10.7	11.0	11.1	11.2	32	83	278	212	52	28	12	9	44	2	Nov.
11.9	11.5	11.4	11.9	11.0	11.0	10.8	11.4	33	173	248	159	78	25	3	0	58	0	Dec.
9.4	9.2	9.0	9.1	9.0	9.0	8.8	9.2	36	829	1,780	2,737	1,558	456	367	246	774	13	Year.

MARQUETTE, MICH.

[h_s=116 ft.; local time, 50m slow.]

11.8	11.9	12.7	13.2	13.5	15.5	15.4	13.3	43	21	5	16	40	77	137	217	230	1	Jan.
9.5	8.6	9.0	10.6	10.4	10.6	11.4	11.3	38	46	23	24	34	63	83	146	252	1	Feb.
12.5	11.7	10.5	11.1	11.3	11.8	12.7	11.6	42	61	64	51	103	114	77	35	237	2	Mar.
11.6	10.3	9.1	8.7	9.9	10.5	11.3	11.7	36	74	105	53	54	52	66	52	259	5	Apr.
9.2	7.8	6.9	6.6	7.4	8.8	9.3	9.1	44	101	116	43	66	75	69	58	200	16	May
9.9	9.1	7.9	7.1	7.4	7.8	8.4	9.6	40	78	44	74	78	82	58	66	233	7	June.
7.4	6.7	6.0	5.6	6.7	7.4	7.5	8.5	44	73	68	66	87	91	131	69	146	13	July.
8.2	7.1	6.2	7.1	8.3	8.9	10.0	9.6	53	99	75	59	58	68	128	70	183	4	Aug.
11.0	9.3	9.8	9.3	10.7	11.2	12.0	11.8	39	34	25	46	59	150	132	118	155	1	Sept.
12.6	11.0	11.3	11.2	11.5	12.4	12.8	12.6	38	55	43	37	71	90	104	155	189	0	Oct.
10.9	10.6	11.3	12.1	11.8	10.7	10.9	11.1	35	64	41	17	74	130	129	101	164	0	Nov.
12.2	14.0	14.5	13.5	14.0	14.3	13.3	12.3	38	56	46	30	83	70	88	177	193	1	Dec.
10.6	9.8	9.6	9.7	10.2	10.8	11.2	11.0	53	762	655	516	807	1,062	1,202	1,264	2,441	51	Year.

MEMPHIS, TENN.

[h_s = 154 ft.; local time, 1h slow.]

10.1	9.8	10.1	10.3	10.1	10.9	10.8	10.6	36	97	122	33	58	100	157	18	159	0	Jan.
10.8	10.1	9.8	9.6	9.3	9.5	9.6	10.8	48	121	149	29	59	50	40	32	192	0	Feb.
14.1	13.1	12.2	12.2	12.2	12.6	12.2	12.7	45	63	52	83	184	88	36	27	211	0	Mar.
10.4	9.4	8.9	8.6	8.8	8.5	8.8	9.8	52	58	136	46	83	111	80	36	166	4	Apr.
9.6	9.2	7.9	7.4	8.1	8.2	8.9	9.2	34	36	128	55	135	186	148	17	38	1	May.
10.9	9.4	7.8	7.6	7.7	8.4	7.6	9.4	40	78	80	54	65	100	214	47	81	1	June.
9.0	8.0	7.1	5.7	5.7	5.6	5.1	7.4	28	60	84	42	25	82	214	97	134	6	July.
9.0	7.5	6.3	6.4	7.0	7.2	6.4	7.6	39	85	141	62	47	42	196	41	127	3	Aug.
8.0	6.6	5.8	7.2	7.6	8.0	6.7	8.5	35	135	117	51	105	80	78	63	88	3	Sept.
8.4	7.2	8.1	8.8	8.9	9.7	9.3	8.9	32	49	136	44	134	115	125	48	93	0	Oct.
7.6	7.5	8.2	8.4	8.8	8.8	8.4	9.0	31	57	68	60	188	130	85	25	104	3	Nov.
9.3	9.2	10.2	11.1	11.8	11.8	11.7	10.7	52	54	130	49	67	135	107	55	146	1	Dec.
9.8	8.9	8.5	8.6	8.8	9.1	8.8	9.6	52	893	1,343	608	1,150	1,219	1,480	506	1,539	22	Year.

NEW ORLEANS, LA.

[h_s = 121 ft.; local time, 1h slow.]

8.6	8.2	8.2	8.1	8.3	8.1	7.9	8.8	29	158	169	60	119	54	38	19	127	0	Jan.
11.5	10.0	9.4	8.9	9.5	10.0	9.8	10.1	35	145	138	12	105	23	79	48	118	4	Feb.
12.9	11.9	10.8	10.4	10.0	10.5	10.1	11.6	38	120	85	23	218	104	99	33	58	4	Mar.
10.8	10.1	8.7	8.2	7.8	7.4	7.7	8.4	33	81	103	16	123	249	50	47	42	9	Apr.
9.9	9.6	8.5	7.6	6.8	6.7	6.6	8.0	33	29	75	29	298	157	72	51	33	0	May.
11.5	10.3	9.4	8.2	7.7	7.3	6.5	8.4	30	48	71	35	153	185	76	90	60	2	June.
7.9	8.1	6.7	5.7	5.4	5.3	5.1	6.0	41	59	50	26	149	175	121	66	80	18	July.
8.4	8.5	7.2	6.3	6.0	5.9	5.5	6.9	30	27	30	10	80	62	228	205	102	0	Aug.
7.2	7.6	6.6	6.4	6.8	6.6	6.2	7.5	28	66	210	45	146	112	73	37	29	2	Sept.
9.1	9.0	8.0	7.8	7.6	7.6	7.2	9.0	42	128	333	50	100	30	9	6	86	2	Oct.
8.2	7.7	7.0	7.3	7.5	7.4	7.2	7.8	36	85	169	54	226	73	23	32	51	7	Nov.
9.3	8.5	8.8	8.8	8.7	8.5	8.8	9.4	36	178	182	49	138	52	48	43	51	3	Dec.
9.6	9.1	8.3	7.8	7.7	7.6	7.4	8.5	42	1,124	1,615	409	1,855	1,276	916	677	837	51	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

NEW YORK, N. Y.

[λ=40° 43′ N.; φ=74° W.] [Seventy-fifth Meridian Time.]

1902.	1h a. m	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.	17.5	17.6	16.2	15.8	15.3	15.8	15.3	16.4	16.9	17.4	18.6	18.5	19.0	18.2	18.2	18.6	18.4
Feb	22.3	22.0	20.5	20.6	20.2	20.2	19.7	21.4	21.0	22.0	23.2	22.2	23.0	24.8	25.9	25.4	24.4
Mar	16.4	16.7	17.5	17.5	17.0	16.2	16.7	17.2	17.3	17.8	17.7	17.5	18.1	19.4	19.7	19.5	20.6
Apr	15.4	15.6	15.7	15.3	14.5	14.1	13.7	13.9	15.4	16.3	16.5	17.8	18.5	18.4	19.2	19.6	19.5
May	12.2	12.1	11.1	11.5	10.7	11.1	11.8	11.7	12.4	12.9	12.9	12.6	13.5	14.4	14.3	14.7	14.6
June	11.8	11.9	11.1	10.9	10.4	10.9	11.4	12.2	13.4	13.8	12.8	13.4	14.7	15.5	15.1	15.3	16.2
July	8.7	8.6	8.6	8.3	8.8	8.5	9.5	10.0	10.2	10.9	11.9	11.5	12.3	12.0	12.2	12.5	12.4
Aug	9.2	8.9	8.6	8.5	8.1	7.9	8.2	8.7	9.7	10.3	11.4	12.1	12.9	12.2	12.4	12.3	12.5
Sept	11.5	11.9	11.4	11.1	10.7	10.6	10.1	10.6	11.3	12.2	12.2	12.3	13.0	13.1	14.1	13.7	12.9
Oct	12.8	12.9	13.2	13.3	12.9	12.7	13.2	13.3	14.7	16.3	16.7	16.0	16.8	16.7	16.8	16.6	15.8
Nov	12.7	12.3	12.9	13.1	13.2	12.7	12.7	12.4	12.0	13.3	14.7	14.6	14.0	13.1	14.1	13.7	12.8
Dec	14.7	14.1	14.8	15.0	15.5	15.1	14.6	15.2	15.0	15.6	17.2	18.1	18.3	18.1	17.4	16.9	16.5
Year	13.8	13.7	13.5	13.4	13.1	13.0	13.1	13.6	14.1	14.9	15.5	15.6	16.2	16.3	16.6	16.6	16.4

PHILADELPHIA, PA.

[λ=39° 57′ N.; φ= 75° 9′ W.]

Jan.	11.5	10.5	10.0	10.1	9.7	10.1	10.5	11.0	11.9	12.5	12.8	12.5	13.1	13.3	13.2	12.4	11.5
Feb	12.6	12.8	13.2	13.3	12.4	12.4	13.6	13.8	13.8	14.9	14.8	14.9	15.8	15.9	16.1	15.5	15.5
Mar	12.4	12.1	12.5	12.5	12.1	11.3	11.5	11.5	12.1	12.5	13.5	13.7	14.8	15.3	14.9	14.6	14.6
Apr	10.6	9.7	9.3	9.4	9.2	8.7	9.7	11.1	12.8	14.0	13.6	13.1	14.2	14.4	14.4	13.8	13.4
May	9.5	9.1	9.1	8.6	8.4	8.6	9.3	10.3	10.9	11.8	11.5	11.5	12.6	12.2	12.6	12.7	12.8
June	9.6	9.1	9.4	8.8	8.1	7.9	8.7	10.0	11.4	11.2	10.5	11.5	12.8	12.9	12.9	13.2	13.7
July	8.0	7.7	7.7	7.5	6.9	7.3	8.4	9.7	10.1	10.6	10.9	11.2	12.0	12.4	12.8	12.2	12.2
Aug	7.0	7.1	7.2	7.1	6.6	6.9	7.4	8.4	8.9	9.0	10.0	9.8	10.4	10.5	11.6	11.8	10.2
Sept	7.8	8.0	7.8	8.0	8.0	7.9	7.8	8.4	9.6	10.0	10.0	10.5	11.0	10.8	11.0	11.4	11.1
Oct	10.3	9.6	9.6	9.5	10.0	9.8	9.8	10.1	10.8	11.1	11.7	11.7	12.2	12.4	12.5	12.5	11.5
Nov	9.8	9.7	9.9	9.4	9.3	8.7	9.0	9.4	10.2	11.0	11.7	11.6	12.1	12.2	12.0	12.3	11.2
Dec	10.7	11.1	11.2	11.2	11.2	11.1	11.4	11.4	12.1	13.0	13.7	13.3	14.1	14.0	13.3	13.2	12.2
Year	10.0	9.7	9.7	9.6	9.3	9.2	9.8	10.4	11.2	11.8	12.1	12.1	12.9	13.0	13.1	13.0	12.5

PITTSBURG, PA.

[λ=40° 32′ N.; φ=80° 2′ W.]

Jan.	6.3	6.1	6.3	6.2	6.0	6.5	6.6	6.6	6.8	6.8	7.0	7.4	7.5	7.7	7.7	7.1	7.1
Feb	7.2	7.0	6.7	6.5	6.1	6.4	6.5	6.6	7.7	8.2	8.5	8.6	9.8	9.2	9.2	9.1	8.9
Mar	6.4	6.3	5.6	6.0	5.9	6.4	7.2	7.5	7.7	8.2	8.5	7.9	9.0	9.2	8.9	8.7	7.9
Apr	6.2	6.2	6.2	6.0	5.8	5.8	6.0	6.6	7.5	7.8	8.3	8.7	9.2	9.7	9.6	9.2	8.4
May	3.9	4.0	4.0	4.0	3.8	3.6	4.5	4.5	5.3	6.0	6.6	6.5	7.3	7.2	7.0	7.1	6.5
June	4.3	4.3	4.3	4.3	4.6	5.0	5.3	5.3	6.0	7.0	7.3	7.2	7.7	7.7	7.6	7.1	7.3
July	4.1	3.9	3.8	3.6	3.8	3.7	4.5	4.5	4.7	5.9	6.6	7.1	7.5	7.2	7.1	6.8	6.6
Aug	3.1	2.8	3.1	3.1	3.2	3.1	2.9	3.3	3.8	4.5	5.4	5.3	6.2	6.2	6.1	5.9	6.4
Sept	4.2	4.3	4.1	3.9	3.6	3.8	3.8	4.3	4.8	5.4	6.0	6.7	7.2	7.5	7.3	6.6	6.6
Oct	5.1	5.0	5.0	4.9	5.1	5.3	5.6	5.7	5.7	6.6	7.0	7.7	8.3	7.8	7.7	7.0	6.5
Nov	5.4	5.5	5.0	5.0	5.2	5.2	5.2	5.1	5.1	5.5	5.8	5.8	6.7	6.3	6.2	6.1	5.5
Dec	7.1	7.1	6.7	6.4	6.9	6.9	6.8	7.3	7.5	7.6	7.6	7.7	8.1	8.8	8.5	7.7	7.8
Year	5.3	5.2	5.1	5.0	5.0	5.1	5.4	5.6	6.0	6.6	7.0	7.2	7.9	7.9	7.7	7.4	7.1

PORTLAND, OREG.

[λ=45° 32′ N.; φ=122° 43′ W.]

Jan.	7.4	7.6	7.4	7.3	7.6	7.6	8.1	7.2	7.3	7.5	7.5	7.4	7.6	7.8	8.0	9.1	10.3
Feb	7.4	6.6	7.6	7.8	7.6	8.2	7.8	9.1	8.9	8.9	7.8	8.9	10.5	11.1	12.5	10.6	13.1
Mar	9.7	9.6	9.5	9.6	9.6	9.6	9.3	10.1	10.2	10.2	8.9	10.0	11.2	11.5	11.4	11.8	12.4
Apr	8.3	7.9	7.7	7.2	7.7	7.6	7.7	7.6	7.6	7.8	7.8	8.5	9.1	9.4	9.6	9.7	9.8
May	7.2	7.9	8.2	7.2	7.0	6.5	6.7	7.3	6.8	6.9	7.5	7.7	7.9	8.7	9.0	9.3	8.7
June	6.2	5.8	4.8	3.7	3.7	3.5	3.7	3.2	3.2	4.2	5.2	6.6	6.4	6.7	7.1	7.7	7.7
July	6.0	5.2	4.2	4.2	3.9	4.0	3.2	3.6	3.7	5.0	5.8	5.9	6.0	6.1	6.5	7.0	7.2
Aug	6.1	5.6	4.2	3.4	3.2	2.8	2.3	2.5	2.7	3.2	4.3	5.0	5.9	6.0	6.4	6.9	7.2
Sept	5.1	4.7	5.1	4.7	4.5	3.9	3.8	3.9	4.0	4.1	4.4	5.4	5.6	6.1	6.6	7.0	7.1
Oct	3.7	4.3	4.5	4.1	3.9	4.3	4.1	4.0	3.8	3.7	4.3	4.5	4.4	5.3	6.0	5.9	6.0
Nov	5.8	6.1	5.9	6.1	6.1	6.3	6.4	6.2	5.9	6.2	6.4	6.7	7.1	7.6	7.7	8.5	8.2
Dec	5.4	4.8	5.4	5.8	5.9	5.5	5.3	5.2	5.5	5.5	5.5	5.6	5.9	6.3	6.7	6.9	7.0
Year	6.5	6.3	6.2	5.9	5.9	5.8	5.7	5.8	5.8	6.1	6.3	6.8	7.3	7.7	8.1	8.6	8.7

WIND—VELOCITY AND FREQUENCY—Continued.

NEW YORK, N. Y.

[h_s=350 ft.; local time, 4m fast.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1902.
17.3	16.9	17.1	17.0	16.4	16.0	15.3	17.1	74	55	70	47	32	60	76	119	285	0	Jan.
24.5	24.7	25.1	24.9	23.3	22.0	22.0	22.7	74	45	126	13	29	15	35	174	235	0	Feb.
19.7	19.4	18.5	19.2	20.1	19.2	17.5	18.2	74	88	42	54	79	86	99	53	243	0	Mar.
19.1	18.6	18.5	17.2	15.7	16.4	15.8	16.7	58	27	43	31	120	94	85	162	158	0	Apr.
14.0	13.0	12.0	12.6	11.1	12.5	11.2	12.5	64	56	63	32	95	90	145	116	147	0	May.
15.3	14.1	13.9	12.2	12.4	12.9	12.2	13.1	72	32	31	48	71	98	124	109	207	0	June.
12.1	12.9	12.8	12.9	11.8	9.8	8.9	10.7	52	34	47	82	106	116	135	86	138	0	July.
12.6	11.1	11.2	11.5	11.1	10.0	9.1	10.4	56	57	36	36	61	112	124	123	195	0	Aug.
12.2	12.4	11.9	11.8	11.9	11.7	11.8	11.9	58	76	157	82	95	71	58	54	126	1	Sept.
15.3	15.0	15.2	14.8	14.1	13.4	12.9	14.6	52	49	90	55	56	77	100	134	183	0	Oct.
13.7	13.4	13.2	12.7	13.3	13.0	12.5	13.2	60	74	136	33	32	40	185	90	130	0	Nov.
16.9	16.7	16.7	16.0	15.7	15.3	14.3	16.0	56	49	89	55	17	15	79	231	209	0	Dec.
16.1	15.7	15.5	15.2	14.7	14.4	13.6	14.8	74	642	930	568	793	874	1,245	1,451	2,256	1	Year.

PHILADELPHIA, PA.

[h_s=184 ft.; local time, 1m slow.]

11.3	11.3	11.3	11.1	10.8	11.1	10.9	11.4	40	111	92	47	37	39	130	89	199	0	Jan.
14.3	13.8	13.8	13.5	12.7	12.3	12.5	13.9	40	67	129	14	25	33	41	107	256	0	Feb.
14.0	13.0	12.6	13.3	13.0	13.3	12.1	13.0	42	112	74	36	54	104	94	51	219	0	Mar.
12.5	11.6	11.0	10.3	10.7	10.2	10.3	11.6	44	51	43	48	89	92	120	124	153	0	Apr.
12.2	11.0	10.3	10.1	10.0	9.8	9.0	10.6	28	102	65	71	59	58	208	77	104	0	May.
12.6	12.1	11.4	10.4	10.3	10.3	9.2	10.8	36	80	39	61	31	123	167	76	143	0	June.
11.6	10.8	9.8	9.0	8.6	8.1	7.5	9.7	29	62	49	77	64	133	185	84	90	0	July.
9.7	9.1	8.4	8.8	7.7	7.5	7.7	8.7	31	125	49	67	33	147	118	102	103	0	Aug.
10.4	8.9	8.9	8.3	8.3	7.9	7.9	9.2	32	83	131	107	81	86	81	74	72	5	Sept.
10.6	10.6	10.9	10.6	10.5	10.7	10.2	10.8	38	132	106	52	23	95	113	76	147	0	Oct.
10.0	10.0	10.4	10.1	9.8	10.3	9.5	10.4	32	129	121	70	34	56	166	69	73	2	Nov.
12.3	11.8	11.5	11.1	10.8	10.5	10.8	12.0	52	125	88	42	23	50	82	123	211	0	Dec.
11.8	11.2	10.9	10.6	10.3	10.2	9.8	11.0	52	1,179	986	692	553	1,016	1,505	1,052	1,770	7	Year.

PITTSBURG, PA.

[h_s=123 ft.: local time, 20m slow.]

6.6	6.3	6.5	6.3	6.2	6.8	6.5	6.7	27	92	42	12	68	68	142	76	241	3	Jan.
8.4	7.5	7.2	7.2	7.8	7.4	7.5	7.7	31	65	74	21	71	41	60	22	318	0	Feb.
7.2	6.9	6.8	6.6	6.4	6.6	6.9	7.3	36	105	98	13	87	110	130	30	170	1	Mar.
8.3	7.2	6.8	6.7	5.9	6.5	5.8	7.3	33	111	115	24	53	67	78	38	225	9	Apr.
6.2	4.9	4.3	3.9	3.9	4.1	4.2	5.1	23	131	177	45	56	20	72	73	161	9	May.
6.8	6.1	5.5	5.0	4.1	4.1	4.3	5.8	24	127	85	14	43	50	117	93	182	9	June.
6.3	5.3	4.8	4.5	4.2	4.5	4.5	5.2	22	107	99	13	37	57	120	129	171	11	July.
5.4	5.0	3.9	3.9	4.1	4.2	3.9	4.4	26	161	156	20	61	46	87	66	140	7	Aug.
5.6	5.0	4.2	4.3	4.0	4.3	4.4	5.1	22	57	47	32	126	103	117	62	163	13	Sept.
5.7	5.2	5.5	5.4	4.9	5.2	4.6	5.9	26	96	67	23	95	62	101	116	184	0	Oct.
4.6	5.1	4.9	5.1	5.1	5.0	5.3	5.4	20	47	86	19	90	65	116	106	157	34	Nov.
7.8	7.6	7.3	6.8	6.6	7.3	7.6	7.4	23	36	56	4	114	69	106	86	273	0	Dec.
6.6	6.0	5.6	5.5	5.3	5.5	5.5	6.1	36	1,135	1,102	240	901	758	1,246	897	2,385	96	Year.

PORTLAND, OREG.

[h_s= 96 ft.: * local time, 3h 11m slow.]

10.3	10.5	9.9	9.0	8.4	7.7	8.1	8.2	43	36	109	173	139	94	25	28	139	1	Jan.
12.5	12.3	10.7	10.2	9.1	8.2	7.6	9.5	44	19	48	95	190	179	34	35	70	2	Feb.
12.1	12.0	9.6	9.4	8.7	8.3	8.7	10.1	42	11	21	44	122	237	124	69	116	0	Mar.
10.2	10.4	9.9	8.8	9.6	9.8	8.5	8.7	42	23	17	22	161	179	90	63	162	3	Apr.
9.0	8.6	9.1	9.5	9.2	8.4	7.8	8.0	32	27	9	15	113	131	150	92	205	2	May.
7.8	7.4	7.7	7.8	7.3	6.6	6.3	5.9	32	19	15	35	59	90	69	105	305	23	June.
7.3	7.5	7.5	7.5	7.1	6.1	6.1	5.7	29	43	18	16	58	64	94	79	359	13	July.
7.5	7.7	8.2	8.0	7.0	6.3	6.7	5.4	19	65	31	18	22	42	40	31	488	7	Aug.
6.9	7.0	7.1	6.2	5.9	5.7	5.7	5.4	24	36	19	25	34	49	54	46	424	33	Sept.
6.1	5.8	4.8	4.5	4.1	4.4	4.0	4.6	25	30	42	51	116	86	67	42	288	22	Oct.
7.5	7.0	6.8	6.2	6.3	6.3	6.2	6.6	34	35	15	28	155	180	178	45	80	4	Nov.
6.7	6.1	5.6	5.3	5.5	5.9	5.7	5.8	28	35	59	133	165	98	137	59	50	8	Dec.
8.7	8.5	8.1	7.7	7.4	7.0	6.8	7.0	44	379	403	655	1,334	1,429	1,062	694	2,686	118	Year.

*213 ft. to June 7, inclusive.

WIND—VELOCITY AND FREQUENCY—Continued.

ST. LOUIS, MO.

[λ=38° 38′ N.; φ=90° 12′ W.] [Seventy-fifth Meridian Time.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	9.3	9.1	9.0	8.7	9.8	10.1	10.2	10.4	10.6	10.8	11.3	12.1	12.0	12.0	11.5	11.0	11.0
Feb	10.5	10.4	10.4	10.2	9.7	8.9	9.1	9.6	10.1	10.2	10.6	11.2	11.5	12.0	12.2	12.0	11.7
Mar	8.7	8.7	8.9	9.3	8.9	9.4	9.7	9.8	10.1	10.2	10.5	10.6	11.7	11.7	11.7	11.5	10.9
Apr	8.4	8.6	9.0	8.6	8.6	8.2	8.1	8.7	9.0	9.6	10.0	10.3	10.8	10.5	10.9	11.2	11.3
May	8.5	8.4	8.2	8.4	8.3	8.7	8.1	8.4	9.3	10.1	10.1	10.1	10.3	11.2	10.9	10.9	11.2
June ...	8.1	7.8	7.3	7.0	7.2	6.7	6.8	6.9	7.6	8.6	9.6	10.6	11.1	10.8	10.8	10.7	11.4
July	5.6	5.6	5.4	5.6	5.8	5.0	6.0	6.7	7.5	8.9	9.3	10.0	10.3	10.5	10.1	10.2	9.5
Aug	5.9	6.1	6.0	6.2	6.8	7.0	6.1	6.6	7.4	7.9	8.5	8.5	8.3	9.1	8.6	8.7	9.3
Sept	5.8	5.9	6.2	6.4	6.9	7.5	7.3	7.4	7.3	8.4	9.2	9.3	10.0	9.9	10.3	10.2	9.7
Oct.....	7.4	7.2	7.2	7.1	6.5	6.6	6.6	6.9	7.2	8.1	9.1	8.9	8.9	9.2	9.8	9.5	9.4
Nov	8.3	8.6	8.2	8.0	7.7	8.0	8.8	8.7	9.0	9.7	10.0	10.3	10.7	10.9	11.7	11.4	10.7
Dec.....	12.0	11.7	11.3	10.9	11.1	11.0	11.0	11.1	10.5	11.2	12.2	11.8	12.0	11.8	12.0	12.1	11.6
Year ...	8.2	8.2	8.1	8.0	8.1	8.1	8.2	8.4	8.8	9.5	10.0	10.3	10.6	10.8	10.9	10.8	10.6

ST. PAUL, MINN.

[λ=44° 58′ N.; φ=93° 3′ W.]

Jan.....	7.5	7.3	7.6	7.5	7.6	7.5	7.8	8.2	8.5	7.7	8.5	8.8	9.7	9.7	9.8	10.2	9.3
Feb	6.2	6.6	6.6	6.4	6.4	6.0	6.6	6.7	6.9	7.5	8.3	8.5	9.6	9.8	9.6	10.2	10.0
Mar	7.9	8.1	7.6	7.7	8.2	8.1	8.0	8.6	9.4	10.1	10.8	11.0	12.2	12.6	12.9	13.1	12.9
Apr	7.1	7.8	7.7	7.6	7.6	7.6	7.4	7.8	8.8	9.7	10.2	11.1	11.7	11.9	12.5	12.4	12.4
May	7.0	7.4	6.5	5.8	6.3	6.4	6.6	7.4	8.3	9.0	10.2	10.4	10.5	11.1	11.2	11.5	11.1
June ...	5.8	6.3	5.8	5.2	5.1	5.0	5.3	5.9	7.5	8.4	9.1	10.0	10.6	10.5	10.7	11.2	10.8
July	4.2	4.8	4.9	5.8	5.1	4.2	4.3	5.1	5.8	7.9	7.4	7.8	8.5	9.1	9.2	9.5	8.9
Aug	4.9	4.8	4.6	4.0	4.4	4.8	4.7	4.9	5.6	6.5	7.3	7.5	8.1	8.6	8.9	8.9	8.4
Sept	6.8	6.7	6.8	6.4	7.1	7.0	7.0	7.1	8.1	9.0	9.8	10.6	11.5	11.6	11.4	11.4	11.1
Oct.....	6.3	6.0	5.9	6.3	6.2	5.8	5.7	5.7	5.8	7.5	8.5	8.8	9.3	9.1	9.3	9.6	8.8
Nov	7.0	7.3	7.3	6.9	6.8	6.1	7.2	7.4	7.8	8.8	9.4	9.7	10.0	9.9	9.9	9.0	8.7
Dec.....	7.7	7.2	7.1	7.0	7.9	8.0	7.7	7.6	7.5	7.7	7.8	8.5	9.5	9.6	9.4	9.2	8.5
Year ...	6.5	6.7	6.5	6.4	6.6	6.4	6.5	6.9	7.5	8.3	8.9	9.4	10.1	10.3	10.4	10.5	10.1

SALT LAKE CITY, UTAH.

[λ=40° 46′ N.; φ=111° 54′ W.]

Jan.....	3.0	2.5	2.4	2.7	2.4	2.6	2.7	3.1	3.0	3.5	3.4	3.6	4.0	5.5	5.9	5.9	6.1
Feb	4.3	4.8	4.7	4.0	3.9	4.1	4.6	4.4	4.7	5.1	4.5	5.6	6.8	7.8	8.1	8.8	8.2
Mar	4.6	4.5	4.9	5.3	4.8	4.9	4.9	4.8	5.5	6.0	5.8	7.3	8.8	9.2	9.9	10.4	11.3
Apr	4.8	4.5	4.6	4.6	4.7	4.7	4.9	4.7	4.7	5.1	6.3	7.7	9.1	9.8	11.2	12.2	11.3
May	4.8	5.2	5.0	5.1	5.3	5.2	5.3	4.7	4.2	4.5	4.8	6.0	8.5	10.7	10.2	10.8	11.4
June ...	5.5	5.4	4.5	4.6	4.6	4.3	4.8	4.4	3.8	3.9	5.4	6.7	7.7	8.2	8.7	10.4	11.0
July	5.1	4.8	4.8	5.2	4.9	4.9	4.5	4.5	4.8	4.0	5.1	6.0	7.3	8.5	8.6	9.6	10.1
Aug	5.5	5.6	5.4	4.7	4.7	4.3	4.2	4.4	4.1	3.2	3.6	5.3	7.5	8.5	9.0	10.3	11.0
Sept	5.1	5.3	4.6	5.0	4.8	4.8	4.5	4.5	5.1	4.8	5.4	6.1	7.7	9.2	10.0	10.7	11.4
Oct.....	5.1	4.4	4.6	4.4	4.4	4.2	4.1	4.1	4.4	4.1	3.8	4.8	6.5	7.7	9.1	9.5	9.9
Nov	5.3	5.2	5.1	4.6	5.3	5.4	5.6	4.9	4.7	4.4	5.1	5.1	6.2	7.6	8.7	9.1	9.3
Dec	3.8	4.3	4.3	3.8	4.1	4.5	4.5	4.1	4.2	4.5	4.5	4.1	5.4	5.3	5.5	6.0	5.9
Year ...	4.7	4.7	4.6	4.5	4.5	4.5	4.6	4.4	4.4	4.4	4.8	5.7	7.1	8.2	8.7	9.5	9.7

SAN DIEGO, CAL.

[λ=32° 43′ N.; φ=117° 10′ W.]

Jan.....	4.3	4.2	4.6	4.5	4.8	5.4	5.2	5.4	5.2	5.8	5.6	4.6	4.3	5.3	6.4	8.2	9.5
Feb	4.0	4.2	4.2	4.2	4.8	4.5	3.8	4.2	3.9	3.9	4.1	4.0	4.8	6.0	8.2	9.2	9.8
Mar	5.2	5.2	5.1	5.2	5.6	5.1	5.4	5.9	6.2	5.4	4.5	5.3	6.9	8.0	8.9	10.0	10.5
Apr	3.4	3.7	3.5	3.8	3.5	4.4	3.9	4.6	4.4	3.9	3.8	4.3	6.0	8.4	10.1	10.5	11.3
May	4.0	4.3	4.2	4.5	4.7	4.3	4.9	4.6	4.9	4.5	4.9	6.3	8.1	9.5	10.7	10.5	10.8
June ...	3.6	3.9	3.8	4.0	4.0	3.9	4.0	4.1	4.5	4.0	4.2	5.5	7.1	8.9	10.0	10.1	9.5
July	3.5	3.1	3.0	3.1	3.2	3.1	3.1	3.2	3.7	3.8	4.1	5.5	7.2	8.5	9.0	9.3	9.6
Aug	2.9	2.7	2.7	3.1	3.2	3.2	3.1	3.0	3.2	3.1	3.7	5.0	7.4	8.7	10.0	10.5	10.7
Sept	3.3	2.8	2.5	2.7	2.2	2.3	2.5	2.3	2.7	2.8	2.9	3.8	5.9	7.6	9.3	9.9	9.9
Oct.....	2.9	2.9	3.0	2.8	2.7	2.5	2.7	3.3	3.0	3.1	3.5	4.1	5.7	7.9	9.9	11.1	10.6
Nov	4.1	4.6	4.2	4.2	4.7	4.8	5.3	5.6	5.6	4.8	4.4	4.3	4.9	6.1	7.9	9.3	9.6
Dec	4.1	4.2	4.2	4.5	4.5	4.7	4.7	4.5	5.0	4.4	4.3	3.5	3.4	4.4	5.5	6.8	8.1
Year ...	3.8	3.8	3.8	3.9	4.0	4.0	4.0	4.2	4.4	4.1	4.2	4.7	6.0	7.4	8.8	9.6	10.0

WIND—VELOCITY AND FREQUENCY—Continued.

ST. LOUIS, MO.

[h_a=210 ft.; local time, 1h 1m slow.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1902.
10.1	10.0	10.4	10.6	10.1	9.5	9.3	10.4	31	93	70	22	40	164	73	96	185	1	Jan.
11.5	10.6	11.0	11.0	10.6	10.9	11.5	10.7	35	133	76	30	48	90	35	138	122	0	Feb.
10.3	10.5	9.8	9.4	8.6	8.5	7.5	9.9	47	79	39	56	136	171	37	115	110	1	Mar.
10.5	9.5	8.4	7.5	7.2	7.6	8.0	9.2	38	[1]87	[1]96	[1]49	[1]83	[1]101	[1]31	[1]139	[1]116	0	Apr.
10.9	9.9	10.0	9.3	8.4	8.6	8.7	9.4	52	80	70	59	80	268	79	57	44	7	May.
11.1	10.1	9.2	8.8	7.3	7.6	7.9	8.8	54	104	61	34	49	260	93	37	78	4	June.
9.7	9.3	8.2	6.3	6.1	6.0	6.4	7.7	35	36	51	23	60	335	132	37	61	9	July.
9.3	8.9	8.0	7.3	7.3	7.1	6.9	7.6	36	112	145	86	74	152	74	33	67	1	Aug.
9.3	8.6	7.7	7.4	7.5	6.6	6.4	8.0	43	104	18	39	111	226	49	79	93	1	Sept.
8.6	7.1	7.6	7.4	6.8	7.0	7.6	7.8	29	50	82	24	39	312	81	71	77	8	Oct.
10.2	9.9	10.4	9.4	9.0	9.0	8.5	9.5	45	102	29	29	62	325	37	48	84	4	Nov.
11.3	11.1	11.4	11.6	11.5	11.5	11.5	11.5	38	92	53	34	49	215	77	102	122	0	Dec.
10.2	9.6	9.3	8.8	8.4	8.3	8.4	9.2	54	1,072	790	485	831	2,619	798	952	1,159	36	Year.

[1] For 702 hours.

ST. PAUL, MINN.

[h_a=122 ft.; local time, 1h 12m slow.]

8.4	8.2	8.3	8.3	8.5	8.5	8.0	8.4	36	74	8	6	176	103	50	70	251	6	Jan.
9.6	8.4	7.6	8.1	7.6	7.4	7.4	7.8	24	53	27	19	125	79	54	63	241	11	Feb.
12.3	10.8	9.6	9.5	9.4	8.5	8.5	9.9	34	80	13	49	204	119	67	53	153	6	Mar.
12.2	11.3	9.2	7.9	7.1	7.5	7.5	9.3	36	93	35	37	156	84	51	57	198	9	Apr.
10.9	10.0	9.4	8.4	7.4	7.1	6.9	8.6	33	53	36	65	207	147	83	50	100	3	May.
10.1	8.9	8.2	6.0	5.7	6.0	6.2	7.7	33	67	23	40	128	89	78	68	218	9	June.
9.0	8.1	7.2	6.1	5.7	4.8	4.5	6.6	48	79	22	14	121	156	169	54	111	18	July.
8.0	7.5	5.9	5.7	5.3	5.3	5.0	6.2	24	67	42	58	191	149	52	46	123	16	Aug.
10.4	8.6	7.6	7.6	7.2	6.7	6.9	8.5	28	85	28	15	156	121	89	64	158	4	Sept.
7.8	6.5	5.6	5.5	5.5	5.5	5.9	6.9	32	76	32	42	173	79	76	55	171	40	Oct.
7.6	7.3	7.4	7.8	7.0	6.8	6.8	7.9	31	46	29	28	189	80	50	50	248	0	Nov.
7.6	7.5	7.5	7.5	7.1	7.5	7.6	7.9	30	42	47	72	158	41	87	57	230	10	Dec.
9.5	8.6	7.8	7.4	7.0	6.8	6.8	8.0	48	815	342	445	1,984	1,247	906	687	2,202	132	Year.

SALT LAKE CITY, UTAH.

[h_a=110 ft.; local time, 2h 28m slow.]

6.4	6.0	4.2	3.9	2.9	3.1	2.9	3.8	30	58	29	57	226	44	58	90	158	24	Jan.
7.2	6.8	5.5	4.7	4.6	4.9	4.5	5.5	34	47	25	47	231	94	65	45	115	3	Feb.
10.9	10.9	9.1	7.1	5.1	4.5	4.2	6.9	38	69	39	40	273	84	37	61	132	9	Mar.
10.3	9.0	7.3	5.9	5.4	4.8	3.8	6.7	46	66	73	70	226	53	37	38	152	5	Apr.
11.4	10.7	10.6	7.5	6.8	6.0	5.0	7.1	36	67	81	70	227	54	39	38	164	4	May.
10.6	10.0	8.4	7.3	7.1	7.8	5.8	6.7	35	87	138	54	146	41	34	24	190	6	June.
10.5	10.5	8.6	7.6	6.9	7.2	6.1	6.7	35	62	125	75	212	50	25	29	166	0	July.
11.3	10.2	9.2	7.1	6.0	6.3	5.3	6.5	36	52	113	90	210	68	35	32	141	3	Aug.
10.5	10.8	8.2	5.6	5.8	6.2	5.5	6.7	33	47	101	67	221	41	30	38	173	2	Sept.
9.8	8.7	6.2	4.2	3.9	3.9	4.2	5.7	32	44	51	87	303	51	28	37	140	3	Oct.
8.9	7.4	5.5	5.3	5.0	5.0	5.2	6.0	40	46	54	61	272	95	36	30	121	5	Nov.
5.8	5.3	4.2	4.5	4.9	4.5	3.9	4.7	38	67	58	47	243	84	55	64	115	11	Dec.
9.5	8.9	7.2	5.9	5.4	5.4	4.7	6.1	46	712	887	765	2,790	759	479	526	1,767	75	Year.

SAN DIEGO, CAL.

[h_a=102 ft.; local time, 2h 49m slow.]

9.8	8.9	7.1	5.0	3.6	3.5	4.3	5.7	33	90	168	101	40	36	51	71	182	5	Jan.
9.4	9.1	8.5	6.0	4.8	4.5	4.2	5.6	32	119	107	42	27	43	45	110	165	14	Feb.
11.0	10.5	9.4	7.6	6.0	5.3	4.8	6.8	27	85	66	70	39	49	100	158	174	3	Mar.
10.9	10.7	9.8	8.0	6.7	5.1	3.9	6.2	24	106	52	23	21	35	77	180	209	17	Apr.
10.2	9.4	8.2	7.5	6.3	5.0	4.5	6.5	27	40	14	9	36	57	213	200	170	5	May.
9.2	8.4	7.7	6.9	6.2	4.8	3.6	5.9	19	30	20	7	42	110	265	109	128	9	June.
9.5	9.2	8.5	8.0	7.0	5.7	4.2	5.8	20	94	4	3	24	81	171	126	235	6	July.
10.5	10.0	9.5	8.0	6.5	4.9	3.4	5.8	22	68	9	2	12	52	133	162	297	9	Aug.
9.8	9.1	7.7	6.8	5.0	3.8	3.0	5.0	20	54	2	4	16	37	115	152	323	17	Sept.
10.0	9.4	8.1	6.4	4.2	3.6	2.9	5.3	19	175	36	13	26	43	64	89	268	30	Oct.
9.5	8.8	6.9	5.1	4.4	3.9	3.6	5.7	24	123	129	73	55	47	54	78	146	15	Nov.
8.1	7.7	6.0	5.1	4.7	5.2	4.9	5.1	23	131	162	83	57	46	25	53	175	12	Dec.
9.8	9.3	8.1	6.7	5.4	4.6	3.9	5.8	33	1,115	769	430	395	636	1,313	1,488	2,472	142	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

SAN FRANCISCO, CAL.

[λ=37° 48′ N.; φ=122° 26′ W.] [Seventy-fifth Meridian Time.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan.....	5.9	6.1	6.3	7.0	7.1	7.1	7.4	7.6	7.1	7.0	7.5	7.4	7.7	7.3	7.7	8.0	8.7
Feb.....	9.0	9.2	9.1	9.7	9.3	9.0	9.4	8.6	8.5	9.3	9.7	10.1	10.5	10.9	10.7	10.4	11.1
Mar.....	8.4	8.3	7.1	7.3	7.6	6.8	6.7	6.8	6.5	5.9	6.2	7.1	8.3	8.3	9.5	11.6	13.7
Apr.....	9.8	9.8	9.0	8.2	7.3	7.2	6.5	6.5	6.6	6.6	7.9	8.7	9.7	10.1	12.0	13.3	15.0
May.....	11.6	10.8	9.2	9.4	8.9	8.0	7.7	8.0	7.6	8.3	9.1	9.6	10.7	12.4	15.1	18.0	19.2
June.....	13.3	11.2	9.6	8.9	9.2	8.5	7.9	7.7	7.1	6.9	7.6	8.6	10.3	12.6	16.1	19.9	21.6
July.....	12.2	11.0	9.9	8.9	8.6	7.7	7.1	6.5	6.5	6.6	7.1	7.8	8.4	11.1	15.2	18.5	21.1
Aug.....	11.1	10.2	9.4	8.4	8.0	7.6	7.7	7.4	6.8	6.6	6.8	6.9	8.5	10.6	13.5	16.3	19.3
Sept.....	10.0	8.2	7.8	7.0	6.6	6.4	6.3	5.6	5.1	5.2	5.8	6.5	7.2	9.0	11.5	14.1	16.6
Oct.....	7.9	7.3	7.1	5.9	6.0	5.5	4.9	4.8	4.7	5.3	5.8	6.3	7.1	7.3	8.1	11.1	13.5
Nov.....	6.7	6.6	6.1	6.0	6.0	6.0	5.9	5.8	6.3	6.8	7.5	8.2	8.3	8.2	8.3	9.3	10.9
Dec.....	5.3	5.1	4.9	5.1	5.3	5.1	4.6	4.6	5.5	5.4	5.5	5.6	6.1	6.4	6.5	6.9	6.9
Year.....	9.3	8.6	8.0	7.6	7.5	7.1	6.8	6.7	6.5	6.7	7.2	7.7	8.6	9.5	11.2	13.1	14.8

SANTA FE, N. MEX.

[λ=35° 41′ N.; φ=105° 57′ W.]

Jan.....	4.8	4.6	4.1	3.9	4.5	4.4	4.4	5.5	5.5	5.2	5.1	6.5	6.8	7.3	7.7	7.9	8.8
Feb.....	5.1	5.8	5.6	4.8	4.9	5.0	5.6	5.6	6.0	6.6	7.8	9.7	11.2	11.6	12.5	12.5	11.4
Mar.....	7.9	7.4	7.7	7.2	7.5	6.4	6.0	5.9	6.6	7.9	9.6	10.4	11.3	11.8	11.7	11.6	12.2
Apr.....	5.8	5.5	5.4	5.3	5.5	5.3	5.6	5.9	5.8	7.7	9.9	10.5	10.9	11.0	11.4	11.6	11.8
May.....	4.8	4.9	4.1	4.3	4.4	3.5	4.0	3.9	3.9	5.9	6.8	7.7	8.7	9.5	10.9	10.7	11.1
June.....	5.9	5.7	5.8	5.0	5.5	5.3	4.2	3.9	4.1	5.5	7.0	7.9	8.7	9.9	10.6	11.1	11.4
July.....	6.2	5.2	5.0	4.1	3.7	3.4	3.0	2.6	2.7	4.3	6.1	7.5	8.0	8.1	9.0	9.2	9.5
Aug.....	4.7	4.0	4.2	3.8	4.0	3.7	3.5	3.5	3.6	4.4	5.7	6.2	7.2	7.4	7.1	7.5	8.2
Sept.....	6.1	5.3	4.7	4.5	4.4	3.7	3.9	4.1	3.9	4.5	6.2	6.7	7.4	8.2	8.6	8.6	8.6
Oct.....	4.8	4.2	3.8	3.4	3.0	3.2	3.5	3.3	3.4	3.7	4.7	5.8	6.5	7.0	7.5	7.5	7.6
Nov.....	6.5	6.3	6.0	5.5	5.8	5.5	5.3	5.5	5.1	5.4	6.6	8.1	8.9	9.2	9.0	8.6	8.6
Dec.....	5.6	5.9	5.8	5.7	5.8	6.1	6.5	6.9	7.0	7.2	8.2	8.9	9.8	9.8	10.0	10.2	8.9
Year.....	5.7	5.4	5.2	4.8	4.9	4.6	4.6	4.7	4.8	5.7	7.0	8.0	8.8	9.2	9.7	9.8	9.8

SAVANNAH, GA.

[λ=32° 5′ N.; φ=81° 5′ W.]

Jan.....	7.1	7.0	6.8	7.2	7.6	7.3	7.5	7.7	8.5	9.6	9.6	9.8	10.3	10.3	10.8	10.5	9.6
Feb.....	8.6	9.0	8.7	8.6	8.1	7.6	8.1	8.6	9.4	10.5	11.2	11.3	10.8	11.9	12.4	12.3	11.2
Mar.....	7.9	8.1	7.4	7.4	7.5	7.6	7.8	8.4	9.2	10.2	11.2	12.0	12.1	12.5	12.2	12.1	12.5
Apr.....	7.2	6.8	6.8	6.9	6.9	6.5	6.3	7.8	8.5	9.0	9.4	9.5	10.4	11.1	11.6	11.5	11.6
May.....	5.5	5.5	6.1	5.4	5.1	4.8	5.6	7.6	8.3	8.4	8.3	8.1	8.5	9.2	10.1	10.1	10.2
June.....	6.0	6.6	6.1	5.5	5.7	5.9	6.4	7.9	9.3	9.5	9.4	10.4	10.7	11.7	11.2	11.9	11.7
July.....	6.0	5.9	5.6	5.0	5.2	5.4	5.5	6.5	6.6	6.8	6.9	7.1	7.8	8.0	9.0	9.1	9.1
Aug.....	5.8	5.5	5.9	5.8	5.6	5.5	5.6	6.7	7.2	7.7	7.5	7.3	8.5	8.5	8.2	9.1	9.7
Sept.....	4.5	4.7	5.0	5.0	5.7	5.0	5.3	6.6	7.8	8.3	9.0	8.8	8.7	9.6	8.9	8.7	8.7
Oct.....	6.7	6.6	6.5	6.8	6.7	6.8	6.8	7.1	8.2	9.5	10.8	11.0	10.5	10.7	10.1	10.0	9.0
Nov.....	5.2	5.5	5.9	6.0	5.7	5.7	5.7	5.8	6.1	7.1	8.1	8.5	8.6	9.0	9.3	8.6	8.0
Dec.....	6.5	7.0	7.3	7.3	6.6	6.4	6.5	7.1	7.3	7.7	8.2	8.3	9.2	9.5	8.8	9.1	8.4
Year.....	6.4	6.5	6.5	6.4	6.4	6.2	6.4	7.3	8.0	8.7	9.1	9.3	9.7	10.2	10.2	10.2	10.0

WASHINGTON, D. C.

[λ=38° 54′ N.; φ=77° 3′ W.]

Jan.....	6.7	6.1	5.6	5.5	6.3	6.3	6.6	6.7	6.7	8.5	9.8	10.6	10.5	10.9	10.9	10.0	9.1
Feb.....	9.0	8.5	8.2	8.1	8.9	9.2	9.2	8.8	9.2	10.7	11.5	12.6	13.8	13.9	14.1	13.6	12.6
Mar.....	7.8	8.1	8.4	8.4	8.0	7.9	7.8	8.4	9.2	10.3	11.5	12.3	12.8	13.0	13.4	12.8	11.8
Apr.....	6.2	5.7	6.1	5.9	5.8	6.3	6.6	8.5	10.1	10.5	11.4	12.1	11.9	12.3	12.2	11.6	11.2
May.....	4.9	4.4	4.5	4.4	4.5	4.2	5.3	6.8	7.5	7.9	8.7	9.2	9.5	9.3	9.5	9.5	9.1
June.....	5.4	5.4	4.4	3.8	4.3	4.1	4.5	6.5	7.3	7.5	8.1	8.7	9.5	9.9	9.9	10.1	9.4
July.....	4.1	3.6	3.5	3.5	3.5	3.7	4.2	5.1	6.0	7.1	8.0	8.6	8.7	9.0	9.3	9.2	8.3
Aug.....	3.2	2.9	3.1	2.9	3.0	2.7	3.2	4.4	5.5	5.8	6.4	6.6	7.0	6.9	7.2	7.5	6.8
Sept.....	3.4	3.6	3.5	3.6	3.2	3.4	3.3	4.2	5.5	6.6	6.9	7.1	7.3	7.8	7.8	7.5	6.9
Oct.....	4.4	4.1	4.4	4.9	4.5	4.5	4.5	4.6	6.1	7.3	8.2	9.1	8.8	9.9	8.9	8.7	7.1
Nov.....	4.3	4.0	4.1	5.4	5.4	4.8	5.1	5.0	5.8	7.0	8.1	8.7	8.7	8.6	8.7	7.9	6.1
Dec.....	5.6	6.0	5.8	6.6	6.3	5.8	6.0	6.7	7.9	8.8	10.0	10.3	10.7	10.7	10.1	8.9	7.2
Year.....	5.4	5.2	5.1	5.2	5.3	5.2	5.5	6.3	7.2	8.2	9.0	9.7	9.9	10.2	10.2	9.8	8.8

WIND—VELOCITY AND FREQUENCY—Continued.

SAN FRANCISCO, CAL.

[h_a=167 ft.; local time, 8h 10m slow.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1902.
8.8	9.0	9.4	8.9	8.3	7.4	6.9	7.6	32	264	51	26	76	32	19	97	177	2	Jan.
12.5	11.7	11.2	10.5	10.2	10.0	10.0	10.0	49	21	12	18	254	132	103	115	17	0	Feb.
14.7	16.2	15.8	16.0	13.2	11.7	10.0	9.7	60	64	12	15	50	44	107	388	61	3	Mar.
16.2	17.1	16.7	16.0	13.9	12.7	11.0	10.7	42	29	11	38	39	72	86	414	17	14	Apr.
19.0	20.2	20.0	19.2	18.2	15.7	13.0	12.9	36	13	12	10	32	34	102	488	53	0	May.
22.8	22.7	24.2	22.5	20.9	18.3	15.8	13.9	40	3	9	6	19	23	180	473	5	2	June.
22.2	22.5	22.6	22.0	19.4	16.6	14.3	13.1	38	5	12	8	16	14	212	469	6	2	July.
20.9	21.7	21.1	19.7	17.9	15.2	12.0	12.2	34	2	8	5	8	19	299	401	2	0	Aug.
19.0	20.4	19.6	19.1	16.2	14.1	11.6	10.8	33	21	11	8	23	15	182	421	38	1	Sept.
14.6	14.5	15.0	14.2	10.9	9.1	8.4	8.5	31	25	25	18	113	82	113	335	30	3	Oct.
10.9	10.8	10.3	10.3	9.7	9.6	8.2	8.0	37	143	29	21	110	82	60	185	89	1	Nov.
7.6	7.4	7.3	7.5	6.8	6.1	5.8	6.0	28	214	61	31	132	60	56	63	124	3	Dec.
15.8	16.2	16.1	15.5	13.8	12.2	10.6	10.3	60	804	253	204	872	609	1,519	3,849	619	31	Year.

SANTA FE, N. MEX.

[h_a=50 ft.; local time, 2h 4m slow.]

8.8	8.0	5.9	5.8	6.3	5.3	5.5	5.9	38	93	122	46	164	101	89	33	85	11	Jan.
11.1	10.9	8.5	5.6	5.7	5.7	5.8	7.7	32	117	106	39	64	37	72	33	194	10	Feb.
12.3	11.9	10.6	8.3	8.1	8.4	8.0	9.0	33	92	56	67	98	59	119	30	220	3	Mar.
11.4	11.7	11.5	9.4	7.2	6.4	6.3	8.3	42	62	56	69	132	81	166	30	120	4	Apr.
11.1	11.2	10.1	8.0	5.0	5.4	5.5	6.9	36	47	77	98	122	138	170	21	61	10	May.
11.4	10.3	9.8	8.4	6.3	6.4	5.6	7.3	28	16	43	99	180	123	165	41	46	7	June.
9.9	9.5	8.7	9.0	7.9	6.7	6.6	6.5	33	50	75	77	174	94	123	23	107	21	July.
7.9	7.9	7.9	5.6	5.5	5.1	4.9	5.6	25	46	105	88	162	103	99	33	89	19	Aug.
7.7	7.8	6.4	5.1	6.2	6.8	6.8	6.1	25	37	38	92	189	111	110	19	100	24	Sept.
7.3	6.5	4.1	4.2	4.7	4.9	5.0	5.0	24	53	93	114	153	54	116	20	117	24	Oct.
8.3	7.1	5.7	5.4	5.9	6.8	7.1	6.8	34	114	106	83	143	52	82	15	103	22	Nov.
8.5	6.8	6.0	6.3	6.0	6.2	5.8	7.2	35	180	166	9	91	57	62	16	129	34	Dec.
9.6	9.1	7.9	6.8	6.2	6.2	6.1	6.9	42	907	1,043	881	1,672	1,010	1,373	314	1,371	189	Year.

SAVANNAH, GA.

[h_a=89 ft.; local time, 24m slow.]

8.4	8.2	7.7	7.8	7.9	7.6	7.1	8.4	34	74	126	64	4	21	129	200	125	1	Jan.
9.9	8.0	8.5	9.0	9.0	9.3	9.2	9.6	42	92	58	40	32	31	75	178	165	1	Feb.
10.6	8.7	8.6	8.4	8.5	8.0	7.8	9.4	34	83	75	102	71	41	173	96	101	2	Mar.
10.5	8.5	8.4	7.8	7.8	7.5	7.5	8.6	33	95	58	30	40	72	227	97	100	1	Apr.
10.2	9.4	8.5	7.5	6.8	6.7	6.2	7.6	30	58	43	140	104	146	177	48	21	7	May.
11.2	10.2	8.7	8.0	7.3	7.1	6.6	8.5	36	14	63	100	125	120	145	126	27	0	June.
9.4	8.2	6.9	6.7	6.7	6.0	5.6	6.9	39	88	43	82	78	56	221	118	58	0	July.
9.8	8.1	7.2	6.5	6.3	6.0	6.1	7.1	36	28	82	106	90	43	220	112	60	3	Aug.
7.4	6.5	6.1	6.2	6.3	6.0	5.3	6.8	24	54	200	96	103	63	78	86	31	9	Sept.
7.6	6.6	7.0	6.8	6.4	7.0	6.9	8.0	32	91	243	138	45	13	56	48	107	3	Oct.
6.7	5.5	5.3	5.6	5.7	5.6	5.5	6.6	32	160	168	126	55	32	71	51	55	2	Nov.
6.7	6.8	7.8	7.1	6.9	6.9	6.5	7.5	40	174	115	67	48	20	100	72	146	2	Dec.
9.0	7.9	7.6	7.3	7.1	7.0	6.7	7.9	42	1,011	1,274	1,091	795	658	1,672	1,232	996	31	Year.

WASHINGTON, D. C.

[h_a=76 ft.; local time, 8m slow.]

8.0	6.9	7.4	7.4	6.8	6.9	6.6	7.8	35	61	101	62	62	113	20	61	229	35	Jan.
11.3	10.6	10.3	9.9	9.9	10.0	9.0	10.5	40	91	39	31	54	28	14	93	308	14	Feb.
10.6	10.3	9.4	9.4	9.1	8.8	8.0	9.9	40	52	53	35	82	131	31	60	280	20	Mar.
10.1	8.1	7.4	7.6	7.0	6.9	6.4	8.7	34	36	61	33	114	122	38	125	174	17	Apr.
7.5	7.2	6.5	5.8	5.4	5.0	4.7	6.7	34	55	65	83	81	216	63	55	117	9	May.
8.3	7.6	6.6	6.1	6.1	5.5	5.9	6.9	32	31	24	21	106	188	63	62	216	9	June.
7.4	6.2	4.5	4.0	3.9	3.8	3.6	5.8	34	35	49	69	92	253	45	43	134	24	July.
5.7	4.4	3.7	3.4	3.5	3.5	3.1	4.7	34	95	37	104	69	146	58	63	135	37	Aug.
5.4	4.6	4.4	4.5	4.1	4.5	3.7	5.1	29	66	123	72	93	125	34	41	135	31	Sept.
5.5	5.1	5.2	4.8	4.7	4.1	4.3	6.0	30	75	110	42	29	161	24	65	194	44	Oct.
5.3	4.9	5.1	5.3	5.7	5.1	4.7	6.0	32	119	119	55	68	157	35	32	111	24	Nov.
5.8	6.4	6.4	6.6	6.3	6.2	5.2	7.3	30	80	79	38	27	156	35	80	240	9	Dec.
7.6	6.9	6.4	6.2	6.0	5.9	5.4	7.1	40	796	860	645	877	1,796	460	780	2,273	273	Year.

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PART III.

MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES FOR ONE HUNDRED AND SIXTY-FIVE WEATHER BUREAU STATIONS.

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EXPLANATION OF THE TABLES.

For the detailed account of the method of reducing the observed barometric pressures the reader is referred to the "Report on the barometry of the United States, Canada, and the West Indies," to be found in the Annual Report of the Chief of the Weather Bureau, 1900–1901, Volume II.

Pressure.—Two mercurial barometers of the well-known Fortin cistern, or a modified form thereof, are used at each station. One of these, the "station barometer," is used in making all regular observations; the other, the "extra," is held in reserve in case of emergency, except that once each month five simultaneous comparative readings are made on the two instruments for purposes of check upon the deterioration of either instrument.

Each barometer, before issue to station, is compared with the substandard at Washington, and a certificate or correction card furnished showing the several constant corrections that must be applied to the readings of the instrument in order to derive therefrom the actual pressure of the air in standard units at a specified elevation. Each observation as made, therefore, is corrected by the application of the following corrections:

(1) Correction for scale errors, capillarity, etc.

(2) Correction to standard gravity, comprising both a latitude and altitude term.

(3) Correction for removal—a correction applied if any change has been made in the elevation of the barometer, to reduce the readings to the elevation adopted in 1900.

Corrections 1, 2, and 3 are constant for any one station and are combined in a single sum.

(4) Correction for the temperature of the scale and mercurial column.

The monthly mean pressures given in the summary are deduced from the corrected observations of pressure at 8 a. m. and 8 p. m., seventy-fifth meridian time, by taking the mean thereof and applying thereto a correction to reduce to the mean of 24-hourly observations.

The extremes are selected from a consideration of the 8 a. m., the 8 p. m., and all special observations made during the month.

The homogeneous system of pressures.—In the report on barometry mentioned above, which comprises a discussion of the Weather Bureau observations for the years 1873–1899, inclusive, it was shown that a "residual-reduction" correction is required for several stations in order to produce a system of homogeneous pressures or smooth isobars on any selected plane, as the sea-level plane, the 3,500-foot plane, or the 10,000-foot plane.

The corrections required to reduce a given observed barometric reading to a true air pressure are fully specified above under 1, 2, 3, and 4. The additional corrections required to reduce the pressure thus obtained to any desired plane, as the sea-level plane for example, are:

(5) B_0.—B. The free air Laplacean reduction from the station to any other level, including the gravity term, but not the aqueous vapor tension.

(6) C. ΔS. H. The correction of the free air reduction for the Plateau effect.

(7) c_1. The correction for the moisture mixed with the dry air.

(8) Δ A. The local correction for certain stations to reduce them to a homogeneous system.

These four corrections to the actual station pressure are united in a "Table of reductions to sea-level" prepared for the several stations. The table was computed for the mean temperature of the air column θ; the relation between the diurnal surface temperature t, and that of the air column θ was determined, and the argument adjusted so as to transfer it from θ to t. The arguments of the table are the diurnal surface temperature t and the actual station pressure B; while the body of the table gives the reduced sea-level pressure in inches. The surface temperature is determined by the customary formula $t = \frac{8\text{ a. m.} + 8\text{ p. m.}}{2}$, when two observations are taken, or by $t = \frac{\text{Max.} + \text{Min.}}{2}$, when only one observation is taken each day.

Corrections 5, 6, 7, and 8 constitute solely the reduction required to pass from a given observed air pressure at one elevation to the corresponding pressure that would be observed at another elevation.

We have, finally, in order to produce an entirely homogeneous system of pressures one remaining correction, viz:

(9) The reduction to the mean of 24-hourly observations.

These diurnal corrections, collected by months for the several stations, are found in Table 27 of the Annual Report, 1900-1901, "Diurnal corrections of barometric pressure, taken at a few selected hours, to the mean of 24-hourly observations." This reduction of the mean monthly and yearly pressures is necessary in order to make the annual results comparable with the system derived from the discussion of the years 1873–1899, inclusive, also for the comparison of international observations where different sets of selected hours have been employed, and for the study of all cosmical problems.

Since the daily 8 a. m. and 8 p. m. pressures are used in the preparation of maps for the purpose of forecasting, they are not changed by the addition of correction to the mean of 24 hours. The mean monthly pressures recorded in the annual summary tables have the correction to the mean of 24-hourly observations applied to them. The highest and lowest actual station pressures are given without change.

It should be noted that the diurnal correction was not applied to the mean monthly and yearly pressures published in the Annual Report of the Chief of the Weather Bureau for 1900–1901.

This has now been done and the corrected values for that year are given in a special table that appears on pages 61 to 63 of the report for 1901–2. It will be understood that the monthly and annual means given in the special table are comparable with the series 1873–1899, published in Volume II of the 1900–1901 report.

Temperature.—The temperature of the air at 8 a. m. and 8 p. m., seventy-fifth meridian time, is obtained by the use of the whirled dry-bulb thermometer. The latter is a part of the whirled psychrometer and is mounted in the wooden roof thermometer shelter adopted in 1885. The means of these observations are given in the columns headed 8 a. m. and 8 p. m., respectively.

The maximum temperature is obtained by the use of the Negretti and Zambra mercurial thermometer, having a constriction in the bore of the tube below the scale. The minimum temperature is obtained by the use of the ordinary Rutherford alcohol minimum thermometer. Both instruments are read and the values recorded twice daily at 8 a. m. and 8 p. m., seventy-fifth meridian time, and are set twice daily at 8 a. m. and 8 p. m. The extremes given in the summaries are for the civil day, midnight to midnight, seventy-fifth meridian time. The monthly means have been obtained by dividing the sum of the mean maximum and mean minimum temperatures by 2.

Moisture.—The monthly means of the dew-point, relative humidity, and vapor pressure are given as computed directly from the original daily observations.

In using the tables by means of which the amount of atmospheric moisture is computed from the readings of the whirled psychrometer, that one which gives the influence on the psychrometer of the prevailing pressure has been neglected. Caution should be exercised in using the published vapor pressure, dew-point, and relative humidity for high stations as computed by tables appropriate for low stations. The accuracy at present attained is confessedly below the demands of special laboratory studies, the needs of climatologists, and others, but answers fairly well for the use of forecast officials in the current daily routine of weather predictions.

The rain gages used at the regular Weather Bureau stations have a circular catchment area of about 8 inches diameter, and the snow, hail, or sleet caught within them is melted and measured as water. The rain gage proper is set within an inclosing cylinder 8 inches in diameter and 2 feet high, which serves as an overflow attachment in the case of heavy rains and as a snow gage in the winter season.

The sum total of the depth of rain and melted snow is measured to within 0.01 inch at 8 a. m. and 8 p. m., seventy-fifth meridian time, daily. By adding the amounts recorded at these two regular observations is obtained the total precipitation for the twenty-four hours preceding 8 p. m. of the meterological day to which it is accredited.

The snow caught and retained in the gage is melted and measured as water. No correction is applied for the snow that is lost out of the gage by the eddying action of the wind; consequently in some cases the record is less than would be given if the observer had measured cylinders of snow cut from the spots representing the average snowfall on the ground. When it is known that the catch of the snow gage is markedly deficient, an independent ground measurement is made and used as the official record. The loss of both rain and snow caused by high winds is undoubtedly larger at a few regular telegraph stations of the Weather Bureau than is the case at the voluntary stations, whose gages are located in the open country and near the ground, but this loss does not appear to be sufficient to make the monthly and annual sums derived from these two classes of stations wholly inconsistent with each other; on the contrary, except at a few stations, the differences between the annual rainfall at city and country gages are not larger than is plausibly due to actual differences in the geographical distribution of rain.

By the maximum precipitation in twenty-four hours is meant the greatest measurement for any twenty-four consecutive hours; it does not refer to the rate of rainfall for twenty-four hours, as deduced from short, heavy showers.

The number of days with precipitation amounting to 0.01 and 0.04 inch, respectively, relates to the rainfall from 8 p. m. to 8 p. m. and not from midnight to midnight.

The cloudiness recorded in the summaries is derived from personal observations. The proportion of sky covered with clouds is estimated by the observer at 8 a. m. and 8 p. m., seventy-fifth meridian time, on a scale of 0–10. The two simultaneous observations can not be combined into a daily mean in the present state of our knowledge of the diurnal variation in cloudiness, and are therefore given separately. In order, however, to obtain a general record of the sunshine as affecting the growth of plants, the observer keeps some memoranda of the cloudiness, sufficient to enable him at the end of the day to assign a percentage representing the average condition of the sky from sunrise to sunset; the resulting average for each month is given in the column of "daylight."

The number of days that were clear, as given under "number of days, etc.," includes those on which the daylight cloudiness was 0, 1, 2, or 3 tenths; the days partly cloudy are those on which the daylight cloudiness was 4, 5, 6, or 7 tenths; the cloudy days were those having 8, 9, or 10 tenths of cloudiness during daylight.

Wind.—The velocity of the wind is recorded at all Weather Bureau stations; the direction and velocity are recorded at about two-thirds of the stations on what is known as the "triple register." The records from 28 of the stations that are furnished with triple registers will be found in Part II. On these instruments the direction of the wind is recorded every minute.

The maximum velocities given are for five-minute periods.

A wind velocity of 40 miles per hour is considered a gale.

Number of days.—The number of days with snow includes all of those on which at least 0.01 inch of melted snow, corresponding to about one-tenth of an inch of unmelted snow, has fallen in the twenty-four hours preceding 8 p. m.

The number of days with hail includes all of those on which at least a trace of hail fell.

No record is made of deposits of dew.

The number of days with fog includes all of those on which fog prevailed for at least an hour, and was dense enough to obscure objects 1,000 feet distant.

References and abbreviations.—H=height of barometer cistern above mean sea level on January 1, 1900, that being the elevation to which all previous readings have been reduced. It is designated as the "station, or adopted elevation." At stations where a change has been made in the elevation of the barometer since January 1, 1900, a corresponding correction has been applied to the observed reading, thereby reducing all values to the "station, or adopted, elevation." H_1=actual height of the barometer above mean sea level. The actual elevation and the station, or adopted, elevation are identical, except at stations where the barometer has been moved since January 1, 1900. H_t=height of thermometer above ground; h_r=height of rain gage above ground; h_a=height of anemometer above ground.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902.

ABILENE, TEX.

[λ=32° 28′ N.; φ=99° 40′ W.]

Month.	Pressure.			Temperature.							Moisture.											
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	28.315	28.643	27.839	35.0	47.6	54.8	32.7	43.8	70	10	26	30	69	49	.147	.172	0.09	0.05	4.4	3.3	5.1
February	28.151	28.666	27.465	35.6	49.4	57.8	32.8	45.3	80	11	25	28	66	49	.140	.157	.31	.26	4.8	4.5	5.5
March	28.111	28.621	27.705	47.7	63.6	68.5	45.3	56.9	90	27	36	32	66	32	.230	.189	2.25	2.19	3.6	3.6	4.6
April	28.097	28.408	27.803	58.4	74.6	80.1	56.2	68.2	99	44	50	46	75	43	.371	.334	.86	.63	4.1	5.2	5.2
May	28.061	28.305	27.584	67.0	79.4	84.1	64.1	74.1	91	52	61	59	83	52	.549	.515	6.68	1.67	4.4	5.3	5.5
June	28.042	28.396	27.758	72.0	88.8	93.4	70.0	81.7	106	56	62	59	71	39	.561	.516	1.00	.51	3.7	3.4	3.9
July	28.168	28.376	27.979	72.2	88.7	88.3	70.4	79.4	96	65	66	64	83	56	.648	.613	7.82	3.50	5.2	6.4	6.9
August	28.133	28.331	27.947	75.9	91.6	95.8	74.7	85.2	101	66	64	62	68	38	.606	.549	.06	.06	1.6	1.9	2.3
September	28.162	28.529	27.920	64.1	77.6	83.4	62.2	72.8	98	50	56	57	77	52	.475	.488	3.13	1.56	4.7	3.6	4.7
October	28.211	28.437	27.925	56.4	70.5	77.7	55.6	66.6	87	43	50	52	79	55	.363	.370	2.00	1.02	2.2	1.9	2.3
November	28.170	28.424	27.914	51.6	59.3	66.6	49.5	58.0	79	33	48	49	89	71	.364	.378	2.46	1.02	5.6	4.3	6.3
December	28.264	28.592	27.647	37.9	46.4	54.5	35.3	44.9	73	22	32	34	79	64	.190	.202	.39	.18	3.7	3.4	5.1
Year	28.157	28.665	27.465	56.2	69.4	75.4	54.1	64.7	106	10	48	48	75	50	.388	.374	27.05	3.50	4.0	3.9	4.8

ALBANY, N. Y.

[λ=42° 39′ N.; φ=73° 45′ W.]

January	29.985	30.620	29.158	19.2	24.0	30.2	15.1	22.6	51	− 2	16	20	84	83	.096	.111	.67	.30	7.3	5.9	6.9
February	29.755	30.274	28.891	19.4	25.5	30.6	16.6	23.6	49	3	16	21	84	82	.092	.116	3.04	1.36	6.7	4.5	6.2
March	29.865	30.404	29.049	36.0	40.4	47.4	31.9	39.6	62	20	31	32	82	74	.180	.191	3.24	.81	6.3	5.8	6.1
April	29.805	30.227	29.244	44.8	50.3	57.0	40.0	48.5	87	32	35	37	69	61	.209	.227	2.33	.95	6.4	7.1	6.9
May	29.893	30.364	29.538	53.2	60.0	66.9	47.2	57.0	90	30	42	43	68	56	.288	.300	1.91	.74	5.9	4.5	5.5
June	29.782	30.385	29.234	61.6	66.4	73.8	55.2	64.5	88	48	52	54	70	67	.397	.439	3.91	1.06	5.4	6.2	6.8
July	29.877	30.149	29.606	66.9	71.9	79.0	61.8	70.4	92	53	60	62	80	73	.523	.571	5.37	1.72	7.1	6.1	7.0
August	29.847	30.159	29.542	63.7	68.9	78.0	58.3	68.2	86	50	57	59	80	72	.474	.513	3.98	1.24	5.2	4.4	5.0
September	29.967	30.293	29.515	58.7	63.2	72.0	53.9	63.0	86	41	54	55	84	75	.429	.440	4.15	1.42	5.4	4.3	5.6
October	29.950	30.414	29.436	48.3	52.0	59.7	42.7	51.2	72	30	42	45	81	77	.287	.312	2.80	1.46	6.2	5.4	6.4
November	29.985	30.442	29.446	38.8	44.8	51.6	35.1	43.4	65	22	34	38	84	79	.204	.240	.95	.48	6.8	5.0	6.7
December	30.001	30.693	29.470	19.9	24.3	32.4	14.3	23.4	50	−11	16	20	85	83	.099	.117	5.18	1.00	6.6	5.6	6.3
Year	29.893	30.693	28.891	44.2	49.3	56.6	39.3	48.0	92	−11	38	40	79	74	.273	.298	37.48	1.72	6.3	5.4	6.2

ALPENA, MICH.

[λ=45° 5′ N.; φ=83° 30′ W.]

January	29.383	30.085	28.909	18.2	22.1	28.4	12.6	20.5	37	− 8	16	19	89	88	.095	.108	.77	.24	8.4	7.5	7.6
February	29.248	29.801	28.240	15.0	21.9	28.0	11.7	19.8	49	− 2	13	18	92	82	.081	.102	.56	.32	6.4	3.9	6.4
March	29.322	29.741	28.431	30.8	34.2	41.3	26.4	33.8	69	1	26	25	83	71	.150	.142	1.51	.66	6.2	5.0	5.2
April	29.240	29.627	28.473	38.1	42.0	49.3	32.5	40.9	83	21	30	31	74	67	.169	.176	2.64	1.75	6.5	6.1	6.4
May	29.367	29.737	28.913	47.8	51.2	58.5	41.6	50.0	81	27	40	40	74	68	.256	.270	2.98	1.13	7.4	6.9	6.2
June	29.236	29.646	28.737	55.0	56.3	64.6	47.1	55.8	79	39	48	47	77	73	.341	.330	3.14	.80	7.8	6.9	6.4
July	29.310	29.550	29.004	64.9	67.4	76.6	57.7	67.2	92	47	58	58	79	73	.489	.496	5.60	.99	6.2	6.8	5.5
August	29.344	29.592	29.013	59.6	63.5	70.6	52.1	61.4	84	42	54	54	82	72	.422	.428	2.53	1.32	5.1	4.9	4.7
September	29.320	29.612	28.939	53.7	57.5	64.6	49.8	57.2	78	37	49	50	85	77	.355	.365	2.44	.75	7.1	5.9	7.1
October	29.354	29.803	28.573	42.0	46.2	54.4	37.0	45.7	71	25	37	37	82	79	.211	.219	2.86	.90	8.6	6.2	8.1
November	29.321	29.695	28.886	39.9	41.9	49.1	35.3	42.2	67	17	35	36	82	79	.211	.219	2.86	.90	8.6	6.2	8.1
December	29.368	29.959	28.841	23.5	25.2	29.5	18.6	24.0	42	2	20	22	87	86	.112	.118	1.75	.71	9.1	6.7	8.7
Year	29.318	30.085	28.240	40.7	44.1	51.2	35.2	43.2	92	− 8	36	36	82	76	.242	.248	29.02	1.75	7.2	6.0	6.6

AMARILLO, TEX.

[λ=35° 13′ N.; φ=101° 50′ W.]

January	26.300	26.633	25.808	27.0	40.7	47.4	23.3	35.4	70	− 4	17	16	65	38	.094	.096	.04	.02	3.6	2.9	4.0
February	26.155	26.302	25.412	29.3	42.4	51.7	24.9	38.3	70	2	19	20	66	44	.100	.111	T.	T.	4.2	4.0	4.0
March	26.133	26.589	25.729	35.0	52.6	58.9	32.9	45.9	75	18	22	20	60	30	.125	.114	.74	.54	3.4	3.6	3.9
April	26.176	26.440	25.749	46.2	65.5	69.9	43.8	56.8	88	34	35	30	69	35	.212	.175	1.83	.61	3.7	3.4	4.0
May	26.150	26.393	25.556	57.6	72.9	78.4	54.2	66.3	90	46	50	49	79	47	.386	.362	9.14	3.52	4.7	5.0	3.8
June	26.156	26.490	25.898	63.8	80.9	86.6	60.3	73.0	105	46	56	54	77	44	.452	.437	2.01	1.44	4.2	4.0	3.4
July	26.265	26.541	25.984	66.3	80.7	85.2	64.7	75.0	95	59	61	56	83	46	.531	.452	1.45	.80	4.5	5.3	5.1
August	26.258	26.486	26.051	66.0	84.7	89.5	64.3	76.9	97	52	58	54	77	37	.490	.424	2.42	1.98	2.3	3.7	3.4
September	26.263	26.596	25.964	56.0	70.7	78.6	53.5	66.0	93	39	48	46	75	45	.348	.331	.95	.54	3.8	3.1	3.4
October	26.278	26.484	25.967	48.2	64.4	73.7	46.7	60.2	86	34	40	38	75	42	.250	.236	1.74	1.22	2.7	2.5	2.8
November	26.207	26.502	25.883	38.9	48.1	58.2	35.7	47.0	78	24	34	36	84	66	.210	.228	2.24	1.08	4.9	4.4	4.9
December	26.243	26.581	25.722	28.1	36.7	47.6	25.2	36.4	73	12	22	26	78	67	.119	.141	.55	.42	2.8	3.3	4.1
Year	26.215	26.633	25.412	46.9	61.7	68.7	44.1	56.4	105	− 4	38	37	74	45	.276	.259	23.11	3.52	3.7	3.8	3.9

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902.

ABILENE, TEX.

[H=1,738 ft.; h_t=45 ft.; h_r=36 ft.; h_a=54 ft.]

Month	Wind. By self-register. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.0	SE.	48	NW.	1	10	2	2	16	11	5	1	15	0	11	15	5	2	2	1	0	0	3	0	11	0	0
February	10.3	NW.	46	NW.	1	7	3	1	11	9	9	3	13	0	9	9	10	5	2	2	0	0	0	0	14	0	0
March	12.4	SE.	36	SE.	0	5	2	1	25	7	4	7	11	0	13	12	6	3	2	0	1	0	0	0	1	3	0
April	11.7	SE.	40	NW.	1	8	4	3	27	7	3	2	6	0	11	11	8	6	4	0	0	0	0	5	0	4	0
May	10.6	SE.	48	NE.	2	6	1	1	45	5	3	0	1	0	11	8	12	11	9	0	2	0	0	2	0	10	0
June	12.3	SE.	53	NW.	2	5	3	2	43	3	0	1	3	0	13	15	2	5	4	0	1	0	0	21	0	6	0
July	9.4	SE.	30	SE.	0	5	5	3	38	4	1	0	6	0	5	12	14	11	10	0	0	0	0	16	0	9	0
August	7.7	SE.	26	N.	0	5	1	3	39	12	1	0	1	0	22	9	0	1	1	0	0	0	0	30	0	2	0
September	9.1	SE.	30	NW.	0	16	5	1	25	6	0	3	4	0	13	9	8	7	7	0	0	0	0	4	0	3	0
October	8.4	SE.	26	SE.	0	6	3	3	27	11	1	3	8	0	23	4	4	5	5	0	0	0	0	0	0	1	0
November	9.4	SE.	32	SE.	0	5	3	5	22	10	3	1	11	0	8	8	14	6	6	0	0	2	0	0	0	3	0
December	8.7	NW.	30	W.	0	12	2	2	12	11	6	4	13	0	11	12	8	5	3	1	0	2	0	0	11	0	0
Year	9.9	SE.	53	NW.	7	90	34	27	330	96	36	25	92	0	150	124	91	67	55	4	4	5	3	78	37	41	0

ALBANY, N. Y.

[H=97 ft.; h_t=102 ft.; h_r=100 ft.; h_a=115 ft.]

January	7.5	NW.	34	SE.	0	4	13	1	4	12	0	7	21	0	7	7	17	11	5	8	0	0	16	0	30	0	0
February	8.5	NW.	47	W.	2	14	7	1	3	6	4	5	16	0	7	9	12	10	8	8	0	0	18	0	26	0	0
March	10.1	NW.	34	SE.	0	14	2	1	9	10	3	3	20	0	9	9	13	16	11	5	0	0	3	0	15	1	0
April	8.0	S.	30	SE.	0	4	4	2	6	18	5	12	9	0	3	13	14	14	9	0	1	0	0	0	0	2	0
May	8.2	S.	33	W.	0	8	4	0	12	9	2	13	14	0	11	10	10	9	8	0	0	0	0	0	1	1	0
June	7.7	S.	30	SE.	0	5	5	1	5	18	2	15	9	0	7	14	9	19	13	0	0	0	0	0	0	5	0
July	6.6	S.	32	NW.	0	2	3	1	10	23	6	7	10	0	5	10	16	15	11	0	1	0	0	2	0	7	0
August	5.8	S.	26	SE.	0	7	6	2	7	16	5	7	12	0	12	10	9	12	8	0	0	0	0	0	0	7	0
September	6.2	S.	36	SE.	0	12	4	3	6	19	3	5	8	0	13	4	13	13	10	0	0	0	0	0	0	5	0
October	8.3	S.	33	S.	0	3	4	2	9	18	2	6	18	0	8	10	13	12	8	0	0	0	0	0	0	2	0
November	7.2	S.	28	SE.	0	9	11	2	8	14	2	3	11	0	8	7	15	7	4	2	0	0	0	0	3	5	0
December	7.9	NW.	34	SE.	0	9	3	1	1	15	6	4	23	0	9	6	16	16	14	12	0	1	14	0	29	0	0
Year	7.7	S.	47	W.	2	91	65	17	80	178	40	87	171	0	99	109	157	154	109	35	2	11	51	2	114	28	0

ALPENA, MICH.

[H=609 ft.; h_t=63 ft.; h_r=54 ft.; h_a=80 ft.]

January	11.2	W.	37	NW.	0	7	0	1	2	9	11	15	17	0	4	7	20	12	7	12	0	0	18	0	31	0	0
February	10.9	NW.	40	SE.	1	3	1	2	5	6	9	14	15	1	6	8	14	9	4	8	0	1	19	0	27	0	0
March	11.3	N.	45	S.	1	11	7	6	10	8	4	2	13	1	14	6	11	10	8	6	0	0	4	0	22	1	0
April	12.4	NW.	48	W.	1	6	4	2	15	3	4	8	18	0	8	7	15	10	7	8	1	0	0	0	16	1	0
May	10.3	SE.	39	W.	0	3	1	12	19	6	3	4	14	0	8	10	13	14	13	0	0	0	0	0	3	7	0
June	10.9	SE.	34	NW.	0	7	4	1	15	6	2	11	13	1	5	13	12	15	10	0	0	0	0	0	0	6	0
July	8.4	SE.	32	NW.	0	7	5	4	13	8	5	7	18	0	9	11	11	15	12	0	1	0	0	2	0	9	0
August	8.6	NW.	29	W.	0	3	7	4	13	6	5	2	22	0	13	10	8	10	6	0	0	0	0	0	0	4	0
September	10.4	SE.	37	S.	0	4	6	6	10	5	8	10	11	0	5	6	19	14	10	0	0	3	0	0	0	8	0
October	11.5	NW.	37	W.	0	6	3	3	6	9	5	10	19	1	8	9	14	12	7	2	0	0	0	0	5	1	0
November	11.8	NW.	37	NW.	0	3	3	7	4	12	9	4	18	0	3	7	20	9	8	2	0	1	1	0	10	0	0
December	12.6	W.	37	SE.	0	9	7	5	4	3	12	11	11	0	3	3	25	11	7	9	0	0	20	0	30	0	0
Year	10.9	NW.	48	W.	3	69	48	53	116	81	77	98	184	4	86	97	182	141	99	42	2	5	62	2	144	32	0

AMARILLO, TEX.

[H=3,676 ft.; h_t=43 ft.; h_r=35 ft.; h_a=52 ft.]

January	15.1	SW.	57	NW.	5	5	9	0	13	4	15	2	14	0	12	16	3	3	0	2	0	0	5	0	25	0	0
February	17.1	NE.	67	SW.	8	8	11	1	9	6	8	4	9	0	14	13	1	0	0	0	0	0	1	0	21	0	0
March	20.1	SW.	55	NE.	14	7	4	0	12	9	17	5	8	0	14	12	5	3	3	0	2	0	0	0	12	2	0
April	17.9	SW.	59	SW.	3	3	12	2	10	13	16	2	3	0	14	11	5	5	5	0	1	0	0	0	0	3	0
May	15.6	S.	56	SW.	7	3	3	1	11	24	15	2	3	0	16	10	5	10	10	0	4	0	0	0	0	10	1
June	15.5	SW.	42	NW.	1	4	8	3	12	12	17	1	3	0	16	12	2	4	2	0	2	0	0	8	0	4	0
July	13.5	S.	42	S.	2	1	4	4	7	34	11	1	0	0	8	16	7	8	6	0	0	0	0	11	0	6	0
August	12.0	S.	38	E.	0	3	3	4	7	34	11	0	0	0	18	12	1	5	4	0	1	0	0	22	0	13	0
September	12.7	S.	36	NE.	0	3	15	5	4	19	8	2	4	0	18	9	3	4	4	0	0	1	0	4	0	3	0
October	12.8	S.	34	NW.	0	6	4	2	8	22	8	2	10	0	23	4	4	3	3	0	0	0	0	0	0	2	0
November	13.2	S.	42	NW.	2	11	2	6	5	17	7	0	12	0	16	5	9	7	6	1	0	5	0	0	11	1	0
December	13.0	SW.	42	N.	1	4	3	3	12	7	13	6	14	0	18	8	5	5	3	5	0	2	3	0	25	0	0
Year	14.9	S.	67	SW.	43	58	78	31	110	201	145	27	80	0	187	128	50	57	46	8	10	8	9	45	94	44	1

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

ASHEVILLE, N. C.

[λ=35° 36′ N.; φ=82° 32′ W.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January																					
February																					
March																					
April																					
May																					
June																					
July																	a1.27	a0.44			b4.8
August																	6.21	1.64	4.4	4.2	5.2
September	27.743	27.922	27.398	56.8	64.9	73.7	52.9	63.3	86	38	54	58	91	80	.431	.503	1.48	0.54	3.1	2.9	3.5
October	27.778	28.168	27.396	47.7	58.6	68.2	44.3	56.2	78	28	44	49	88	72	.303	.363	1.90	0.76	4.8	3.3	5.1
November	27.760	28.091	27.164	44.4	54.2	62.8	41.0	51.9	74	28	42	45	89	73	.272	.313	2.30	0.63	5.4	5.4	5.9
December	27.736	28.042	27.099	33.5	39.1	46.7	30.2	38.4	67	11	30	31	88	73	.180	.184					
Year																					

ASTORIA, OREG.c

[λ=46° 11′ N.; φ=124° 0′ W.]

January						46.3	35.2	40.8	56	19							7.23	1.92	7.4	6.6	6.6
February						52.5	40.8	46.6	64	32							16.33	2.54	8.2	8.8	8.8
March						50.3	38.9	44.6	62	36							10.41	1.84	8.0	8.0	7.6
April						55.1	40.9	48.0	62	36							5.34	.96	8.3	7.7	7.7
May						59.6	46.9	53.2	71	39							4.09	.68	8.7	7.8	7.2
June						65.6	49.6	57.6	86	44							2.80	.80	7.5	6.2	6.1
July						67.9	52.7	60.3	82	47							2.89	1.12	6.7	4.2	4.9
August						70.7	52.6	61.6	86	46							.45	.24	5.7	2.5	3.3
September						66.6	49.6	58.1	81	40							2.28	.75	4.8	3.7	3.6
October						61.9	49.2	55.6	76	42							3.50	1.14	7.2	5.5	5.8
November						52.4	42.4	47.4	57	34							15.87	3.00	7.7	7.4	7.3
December	29.935	30.359	29.502	41.8	44.0	49.4	38.1	43.8	69	33							15.29	3.86	7.2	9.0	8.5
Year						58.2	44.7	51.5	86	19							86.48	3.86	7.3	6.4	6.4

ATLANTA, GA.

[λ=33° 45′ N.; φ=84° 23′ W.]

January	28.898	29.254	28.395	35.6	42.5	49.0	32.3	40.6	65	18	29	30	78	63	.177	.180	3.30	1.34	5.8	3.9	5.5
February	28.696	29.024	28.016	32.0	39.3	44.4	29.8	37.1	63	15	24	27	73	63	.143	.162	7.56	3.63	6.8	4.2	6.7
March	28.787	29.114	28.312	45.0	53.7	59.4	42.8	51.1	72	20	38	39	77	61	.248	.262	6.49	1.94	5.0	5.1	5.9
April	28.787	28.966	28.625	53.1	62.8	68.4	50.5	59.4	84	33	43	44	71	53	.299	.300	1.84	.68	4.0	3.8	4.8
May	28.823	29.015	28.654	67.4	75.7	83.6	64.4	74.0	92	50	57	55	71	53	.477	.458	2.35	.99	5.3	4.5	4.6
June	28.762	29.095	28.463	72.1	81.6	87.7	68.2	78.0	96	58	63	60	74	50	.585	.526	2.00	.67	4.2	2.9	3.9
July	28.850	29.012	28.695	75.9	81.5	90.2	70.4	80.3	98	62	66	65	76	59	.633	.617	2.83	1.30	5.1	7 7	5.9
August	28.771	28.960	28.594	72.2	80.0	88.6	69.9	79.2	97	62	65	64	80	62	.626	.613	1.66	1.15	6.7	6.0	5.5
September	28.804	28.959	28.522	66.2	70.9	78.2	62.2	70.2	88	48	59	60	80	71	.512	.585	5.37	1.31	6.2	3.9	5.6
October	28.849	29.255	28.405	56.8	64.3	71.4	53.8	62.6	81	37	49	50	76	62	.363	.388	2.11	.86	4.1	3.0	4.1
November	28.840	29.140	28.289	52.7	59.4	65.3	50.4	57.8	76	27	48	49	83	71	.343	.369	3.59	1.43	6.8	3.9	6.9
December	28.869	29.106	28.206	38.4	44.2	50.2	35.7	43.0	67	15	35	35	87	72	.217	.220	4.86	2.30	5.3	2.9	5.5
Year	28.810	29.255	28.016	55.4	63.0	69.7	52.5	61.1	98	15	48	48	77	62	.385	.386	43.96	3.63	5.4	4.3	5.3

ATLANTIC CITY, N. J.

[λ=39° 22′ N.; φ=74° 25′ W.]

January	30.047	30.703	29.236	28.7	31.8	37.8	23.7	30.8	50	14	24	26	81	78	.134	.146	2.97	.92	5.0	4.7	5.7
February	29.806	30.241	28.940	26.6	29.7	34.4	23.5	29.0	51	12	20	23	76	76	.122	.135	5.53	2.04	5.2	3.4	4.9
March	29.931	30.428	29.263	40.6	42.3	47.9	36.2	42.0	59	20	35	37	81	82	.212	.226	4.26	2.05	5.5	4.8	5.3
April	29.893	30.296	29.376	46.9	48.1	53.9	42.6	48.2	79	34	41	42	82	82	.267	.278	2.52	1.29	4.2	5.2	5.4
May	29.979	30.395	29.549	56.8	56.5	63.7	51.6	57.6	82	42	52	52	84	84	.394	.389	1.71	.51	4.8	4.6	4.2
June	29.871	30.451	29.379	64.2	64.1	71.6	58.7	65.2	86	50	59	59	83	85	.498	.505	6.14	1.98	4.2	4.3	3.9
July	29.962	30.201	29.717	71.7	70.0	78.3	65.9	72.1	94	59	67	66	86	87	.668	.641	2.83	1.46	5.1	4.6	4.2
August	29.914	30.178	29.653	70.8	71.2	77.3	64.8	71.0	86	54	65	65	82	82	.625	.633	3.36	1.26	4.3	3.3	4.1
September	29.991	30.254	29.647	65.6	66.3	72.2	60.8	66.5	81	49	62	62	88	87	.567	.567	5.32	1.52	5.5	5.0	5.4
October	30.016	30.516	29.368	56.6	59.4	65.9	51.7	58.8	77	33	52	53	84	80	.402	.418	5.37	2.35	4.6	3.2	4.5
November	30.030	30.431	29.362	50.0	52.5	57.5	45.8	51.6	73	29	46	47	88	84	.326	.336	3.42	1.72	6.0	5.6	5.4
December	30.044	30.639	29.063	33.5	35.7	42.9	28.6	35.8	58	16	28	30	78	78	.164	.180	7.15	2.33	6.2	4.2	5.3
Year	29.957	30.703	28.940	51.0	52.3	58.6	46.2	52.4	94	12	46	47	83	82	.365	.371	50.58	2.35	5.0	4.4	4.9

a For 20 days. b For 22 days. c 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

ASHEVILLE, N. C.

[H=2,255 ft.; h_t=73 ft.; h_p=62 ft.; h_a=100 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Wind. By self-register. Prevailing direction. a	Wind. By self-register. Maximum velocity.	Wind. By self-register. Direction at time of maximum velocity.	Wind. By self-register. Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.01 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January																											
February																											
March																											
April																											
May																											
June																											
July																											
August	*b*5.4	*b*SE.	*b*30	*b*N.	*b*0	*b*12	*b*0	*b*5	*b*8	*b*7	*b*6	*b*0	*b*5	*b*1	*b*8	*b*9	*b*5	*c*8	*c*7	*c*0	*c*0	*c*1				*b*5	*b*0
September	5.2	SE.	36	N.	0	8	0	4	17	11	6	2	8	4	8	13	9	12	10	0	0	9	0	0	0	1	0
October	6.9	SE.	36	E.	0	13	2	4	14	7	5	4	11	2	22	3	6	8	7	0	0	6	0	0	2	0	0
November	7.2	SE.	30	N.	0	12	0	4	16	9	5	1	11	2	14	4	12	5	4	0	0	5	0	0	3	0	0
December	11.9	N.	38	N.	0	19	0	3	15	8	1	2	14	0	10	8	13	9	8	0	0	1	2	0	16	0	0
Year																											

ASTORIA, OREG.

[H=20 ft.; h_t=57 ft.; h_p=36 ft.; h_a=64 ft.]

January		NE.				0	37	4	0	6	8	3	4	0	7	6	18	17	14	3	0	2	2	0	8	1	0
February		S.				0	13	8	7	14	13	0	1	0	1	4	23	25	23	0	1	0	0	0	0	1	0
March		SW.				1	4	5	7	7	14	11	13	0	2	12	17	28	24	1	3	2	0	0	0	0	0
April		SW.				1	3	4	2	12	19	9	10	0	0	12	18	23	20	0	3	0	0	0	0	0	0
May		SW.				0	1	5	1	2	32	9	12	0	4	8	19	20	16	0	0	0	0	0	0	0	0
June		SW.				1	4	3	0	3	23	9	17	0	6	14	10	10	9	0	0	0	0	0	0	0	0
July		NW.				1	6	1	0	3	12	7	32	0	12	11	8	10	8	0	0	0	0	0	0	0	0
August		NW.				2	3	2	0	2	18	6	29	0	18	10	3	5	4	0	0	0	0	0	0	0	0
September		W.				2	9	7	0	5	11	13	13	0	20	4	6	8	8	0	0	0	1	0	0	0	0
October		SW.				0	10	8	5	12	18	4	5	0	10	9	12	14	14	0	0	0	2	0	0	0	0
November		SW.				2	7	8	2	8	16	5	12	0	4	5	21	23	22	0	0	0	3	0	0	0	0
December		E.				1	14	19	5	8	9	4	2	0	2	2	27	24	19	1	0	0	0	0	0	0	0
Year		SW.				11	111	74	29	82	193	80	150	0	86	97	182	207	181	5	7	10	2	0	8	2	0

ATLANTA, GA.

[H=1,174 ft.; h_t=190 ft.; h_p=182 ft.; h_a=216 ft.]

January	14.6	NW.	45	NW.	4	6	2	8	5	5	4	8	24	0	12	8	11	9	8	0	0	3	0	0	13	0	0
February	16.3	NW.	48	NW.	3	1	3	8	4	4	0	1	35	0	6	8	14	10	10	2	0	0	0	0	15	2	0
March	15.5	NW.	48	NW.	6	4	1	5	13	13	3	4	19	0	10	8	13	16	12	0	0	5	0	0	5	5	0
April	12.1	NW.	43	NW.	1	7	3	2	2	13	4	5	24	0	11	11	8	9	6	0	0	1	0	0	0	4	0
May	10.0	S.	38	NW.	0	5	2	4	12	15	4	10	10	0	13	13	5	9	6	0	0	1	0	0	2	12	0
June	11.9	SE.	38	NW.	0	7	3	8	10	9	7	10	5	1	12	15	3	7	5	0	0	0	0	13	0	7	0
July	9.1	NW.	36	N.	0	8	2	13	6	6	3	9	14	1	5	19	7	11	8	0	0	0	0	16	0	14	0
August	9.6	NW.	51	N.	8	9	0	7	11	13	7	7	8	0	8	16	7	10	6	0	0	0	0	16	0	15	0
September	10.8	E.	44	W.	2	3	0	19	14	8	6	1	9	0	8	10	12	12	12	0	0	0	0	0	0	4	0
October	11.9	NW.	40	NW.	1	6	6	21	5	5	1	1	17	0	16	7	8	6	6	0	0	0	0	0	0	0	0
November	11.2	SE.	40	NW.	2	4	1	11	15	10	1	4	14	0	6	10	14	5	4	0	0	0	0	0	0	1	0
December	18.9	NW.	48	W.	1	5	1	3	13	3	5	3	29	0	9	11	11	7	7	0	0	0	5	2	0	6	0
Year	12.2	NW.	51	N.	23	65	24	109	110	104	45	63	208	2	116	136	118	111	90	2	2	13	2	47	41	64	0

ATLANTIC CITY, N. J.

[H=52 ft.; h_t=39 ft.; h_p=33 ft.; h_a=48 ft.]

January	10.8	NW.	36	NW.	0	13	7	2	3	1	9	6	21	0	8	13	10	13	10	6	0	0	5	0	30	0	0
February	11.7	NW.	42	NE.	1	3	11	4	5	2	1	4	26	0	11	7	10	8	8	1	0	3	12	0	23	1	0
March	10.6	NW.	40	S.	1	9	3	4	1	9	15	7	14	0	8	16	7	12	8	2	0	4	0	0	6	1	0
April	10.0	NW.	43	E.	1	4	3	5	2	9	15	9	13	0	8	18	4	11	8	0	0	4	0	0	0	2	0
May	8.5	SW.	24	NW.	0	6	7	6	4	9	23	3	4	0	14	14	3	9	6	0	0	2	0	0	0	3	0
June	8.7	SW.	34	S.	0	5	8	8	1	6	26	4	7	0	15	13	2	12	10	0	0	4	0	0	0	8	0
July	7.5	SW.	26	SW.	0	6	8	6	7	6	23	5	6	0	11	20	0	12	9	0	0	0	0	2	0	8	0
August	7.3	SW.	29	NW.	0	8	7	8	3	6	20	6	9	0	10	21	0	8	5	0	0	0	0	0	0	6	0
September	8.1	S.	36	S.	0	8	4	9	7	8	8	3	13	0	9	11	10	13	7	0	0	3	0	0	0	3	0
October	9.1	NW.	32	S.	0	6	6	4	5	7	7	9	18	0	14	9	8	8	7	0	0	0	0	0	0	1	0
November	9.1	SW.	29	SE.	0	4	15	5	2	4	12	7	11	0	7	14	9	10	6	0	0	3	0	0	2	1	0
December	10.1	NW.	34	NW.	0	7	10	2	1	2	8	9	23	0	11	10	10	16	13	8	0	1	3	0	20	0	0
Year	9.3	NW.	43	E.	3	79	84	53	41	69	167	72	165	0	126	166	73	132	97	12	0	24	20	2	81	34	0

a By eye observations when there is no self-register at station. b For 22 days. c For 20 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

AUGUSTA, GA.

[λ=33° 28′ N.; φ=81° 54′ W.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.964	30.366	29.394	36.3	46.8	54.6	33.9	44.2	71	23	32	33	84	60	.189	.202	1.60	0.90	4.1	4.6	5.1
February	29.750	30.113	29.081	36.5	46.0	52.0	34.5	43.2	70	23	32	35	82	65	.190	.218	6.02	1.94	6.4	4.2	5.5
March	29.845	30.244	29.453	48.6	58.7	65.2	45.5	55.4	79	29	44	45	85	64	.311	.324	5.40	1.73	5.3	4.7	4.7
April	29.816	30.028	29.584	54.8	66.1	72.5	51.1	61.8	87	37	48	49	79	56	.349	.361	2.71	1.04	4.1	3.7	4.2
May	29.840	30.069	29.598	69.6	78.1	86.2	65.0	75.6	95	57	62	61	79	58	.573	.544	3.54	1.80	3.9	3.6	3.5
June	29.765	30.155	29.249	74.5	81.7	89.0	69.8	79.4	100	64	67	68	79	61	.674	.642	4.55	2.44	3.7	3.4	3.7
July	29.851	30.022	29.717	77.4	84.8	92.6	72.7	82.6	102	64	70	68	78	60	.724	.701	2.00	.41	3.5	5.1	4.2
August	29.782	29.995	29.567	74.4	80.2	88.8	70.4	79.6	100	63	69	68	84	68	.713	.692	4.47	.99	3.7	4.0	4.4
September	29.827	29.997	29.521	68.5	75.3	82.6	65.4	74.0	91	53	62	62	82	66	.583	.580	2.33	.87	5.0	3.6	3.7
October	29.877	30.329	29.510	57.9	66.9	75.6	55.0	65.3	85	40	53	56	84	68	.420	.460	2.99	1.26	3.6	2.1	3.5
November	29.899	30.210	29.401	52.4	61.0	69.6	49.9	59.8	79	31	49	53	90	76	.366	.421	2.75	.93	3.9	3.1	4.9
December	29.937	30.230	29.298	41.1	49.8	57.0	38.9	48.0	71	19	36	41	88	73	.232	.282	3.43	1.16	4.9	3.7	4.6
Year	29.846	30.366	29.081	57.7	66.3	73.8	54.3	64.1	102	19	52	53	82	65	.444	.452	41.79	2.44	4.3	3.8	4.3

BAKER CITY, OREG.

[λ=44° 50′ N.; φ=117° 50′ W.]

January	26.551	26.878	25.923	21.2	29.1	33.7	18.6	26.2	49	— 8	17	22	84	72	.108	.124	.56	.21	6.2	6.3	6.1
February	26.351	26.634	25.657	31.4	36.9	41.2	28.5	34.8	51	— 2	26	29	80	72	.144	.160	2.28	.37	8.1	9.0	9.1
March	26.356	26.692	25.777	29.9	40.2	42.9	28.7	35.8	54	18	23	23	74	51	.120	.122	.83	.27	7.4	8.5	7.9
April	26.376	26.675	25.890	35.2	50.7	53.6	33.9	43.8	67	23	28	25	73	39	.151	.137	.78	.23	6.7	8.0	7.9
May	26.348	26.553	26.070	42.6	58.5	62.4	41.8	52.1	86	32	36	37	78	48	.216	.226	1.74	.40	7.3	7.1	7.4
June	26.400	26.541	26.156	46.8	67.8	70.4	45.2	57.8	90	35	36	35	67	32	.213	.210	.53	.47	4.3	5.9	6.6
July	26.442	26.643	26.158	49.3	73.9	76.1	48.4	62.2	95	38	34	33	57	26	.200	.194	.10	.08	3.3	3.6	3.7
August	26.465	26.654	26.223	51.1	75.8	78.7	50.3	64.5	90	35	36	37	59	28	.222	.232	.48	.34	2.5	3.4	3.3
September	26.474	26.718	26.145	45.2	67.2	71.7	42.3	57.0	91	30	30	30	56	28	.167	.171	.44	.42	2.8	5.0	4.0
October	26.470	26.673	26.178	39.5	57.3	62.1	36.8	49.4	78	27	30	32	70	42	.167	.183	.90	.59	4.1	5.3	5.6
November	26.393	26.821	25.934	32.4	38.4	42.9	30.1	36.5	57	21	26	28	76	66	.139	.153	1.73	.32	5.8	7.6	5.8
December	26.458	26.710	26.136	25.9	30.7	34.6	23.1	28.8	49	6	22	24	83	74	.118	.126	2.43	.92	6.9	7.9	7.4
Year	26.424	26.878	25.657	37.5	52.2	55.9	35.6	45.7	95	— 8	29	30	71	48	.163	.170	12.80	.92	5.4	6.5	6.2

BALTIMORE, MD.

[λ=39° 18′ N.; φ=76° 37′ W.]

January	29.975	30.649	29.191	28.3	32.5	37.7	25.5	31.6	48	17	22	24	78	69	.123	.130	3.05	1.60	5.3	4.7	6.0
February	29.762	30.242	29.143	26.3	31.0	36.4	24.5	30.4	59	13	20	24	77	73	.124	.137	4.68	2.13	5.3	3.1	5.5
March	29.855	30.324	29.187	42.6	47.4	55.3	38.1	46.7	77	20	37	40	81	76	.234	.258	3.41	1.13	5.0	4.0	5.5
April	29.803	30.183	29.121	49.9	54.9	61.5	45.1	53.3	89	35	40	44	71	68	.261	.294	2.90	1.37	5.8	5.0	6.3
May	29.894	30.261	29.576	61.2	65.3	74.2	55.0	64.6	90	43	50	52	67	65	.380	.413	1.62	.52	5.2	6.6	5.6
June	29.782	30.353	29.345	69.1	73.7	82.1	62.5	72.3	94	53	59	58	71	60	.517	.507	4.30	1.13	5.2	6.0	5.6
July	29.871	30.113	29.645	75.1	77.7	86.7	68.8	77.8	99	62	67	67	77	71	.669	.675	2.45	.71	5.7	6.5	6.2
August	29.832	30.113	29.594	70.7	74.9	82.8	64.4	73.6	91	35	62	64	74	68	.558	.595	4.31	1.66	3.7	3.4	4.8
September	29.904	30.189	29.509	65.0	68.2	75.6	58.8	67.2	92	48	58	60	80	75	.506	.524	7.19	3.82	5.9	3.8	5.6
October	29.941	30.490	29.433	54.9	59.2	67.1	50.1	58.6	80	34	48	52	77	79	.343	.409	6.85	2.79	4.6	3.4	4.2
November	29.951	30.382	29.305	47.7	52.8	59.3	44.5	51.9	76	32	41	44	79	74	.270	.302	3.71	1.25	5.9	5.4	5.9
December	29.971	30.563	29.202	32.2	35.7	40.5	29.1	34.8	59	18	26	27	76	71	.143	.158	5.66	1.15	6.4	4.3	5.7
Year	29.878	30.649	29.121	51.9	56.1	63.3	47.2	55.2	99	13	44	46	76	71	.344	.367	50.13	3.82	5.3	4.7	5.6

BINGHAMTON, N. Y.[a]

[λ=42° 8′ N.; φ=75° 55′ W.]

January	29.100	29.712	28.331	19.4	.....	29.4	13.9	21.6	46	— 1	15	....	83	....	.093	.....	1.13	.33	9.1	.....	7.5
February	28.912	29.350	28.352	18.4	.....	28.3	14.1	21.2	51	— 6	14	....	81	....	.089	.....	2.31	.96	7.6	.....	6.6
March	29.030	29.462	28.323	35.0	.....	46.4	30.3	38.4	67	15	28	....	76	....	.165	.....	3.54	.83	6.3	.....	6.9
April	28.962	29.377	28.420	42.8	.....	54.7	37.6	46.2	86	27	34	....	73	....	.208	.....	1.49	.43	7.1	.....	6.9
May	29.082	29.487	28.809	51.6	.....	66.4	43.7	55.0	86	29	42	....	72	....	.299	.....	1.93	.88	5.9	.....	5.8
June	28.974	29.527	28.559	60.1	.....	72.2	52.1	62.2	86	39	53	....	78	....	.415	.....	6.84	1.99	5.8	.....	5.9
July	29.069	29.325	28.837	66.2	.....	78.6	59.8	69.2	87	50	60	....	81	....	.522	.....	5.51	1.25	7.0	.....	6.4
August	29.043	29.324	28.781	61.0	.....	76.0	55.3	65.6	89	44	56	....	84	....	.455	.....	2.13	.90	4.9	.....	5.5
September	29.122	29.435	28.712	56.3	.....	70.8	50.7	60.8	86	36	52	....	86	....	.401	.....	4.75	1.71	4.9	.....	5.8
October	29.113	29.516	28.694	46.7	.....	58.0	41.3	49.6	74	24	41	....	82	....	.269	.....	3.08	1.28	6.3	.....	6.8
November	29.133	29.582	28.597	39.7	.....	53.2	35.1	44.2	72	18	35	....	85	....	.213	.....	1.07	.33	6.5	.....	7.0
December	29.101	29.749	28.569	22.5	.....	32.6	16.5	24.6	50	— 9	19	....	85	....	.105	.....	2.92	.63	8.2	.....	7.5
Year	29.053	29.749	28.323	43.3	.....	55.6	37.5	46.6	89	— 9	37	....	80	....	.269	.....	36.70	1.99	6.6	.....	6.6

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

AUGUSTA, GA.

[H=180 ft.; h_t=89 ft.; h_r=54 ft.; h_a=97 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurora.
	Miles.		*Mi.*																								
January	6.3	W.	36	W.	0	7	11	2	1	2	7	18	13	1	14	5	12	7	6	0	0	4	0	0	12	0	0
February	8.1	W.	39	W.	0	3	6	6	4	2	3	24	7	1	11	6	11	8	8	0	0	0	0	0	18	1	0
March	7.9	NW.	32	NW.	0	4	5	5	11	7	3	10	16	1	13	7	11	12	11	0	0	1	0	0	2	1	0
April	6.6	NW.	29	W.	0	4	3	0	15	7	6	10	15	0	15	8	7	8	7	0	0	0	0	0	0	3	0
May	5.3	SE.	42	NW.	1	6	7	7	12	15	6	2	7	0	17	11	3	9	7	0	0	0	0	7	0	5	0
June	6.6	SE.	45	NE.	1	2	7	10	14	8	12	2	5	0	16	12	2	8	8	0	0	0	0	15	0	6	0
July	5.3	S.	32	NE.	0	4	5	7	6	13	10	6	11	0	12	16	3	12	11	0	0	0	0	21	0	10	0
August	5.0	S.	36	NW.	0	3	14	6	8	14	7	5	3	2	16	10	5	14	12	0	0	0	0	17	0	12	0
September	5.8	NE.	38	NW.	0	5	16	8	11	8	5	2	5	0	17	9	4	9	7	0	0	0	0	2	0	3	0
October	5.7	NW.	28	SW.	0	5	11	12	5	2	2	1	22	2	19	5	7	6	5	0	0	0	0	0	0	0	0
November	5.0	NW.	30	W.	0	8	10	4	3	3	6	2	22	2	12	9	9	7	7	0	0	3	0	0	1	0	0
December	5.6	NW.	30	SW.	0	4	8	6	3	5	6	7	19	4	15	6	10	5	5	0	0	2	0	0	4	0	0
Year	6.1	NW.	45	NE.	2	55	103	73	93	86	73	89	145	13	177	104	84	105	94	0	0	10	0	62	32	41	0

BAKER CITY, OREG.

[H=3,471 ft.; h_t=53 ft.; h_r=40 ft.; h_a=59 ft.]

January	5.7	SE.	30	NW.	0	1	1	0	36	1	8	0	14	1	10	4	17	8	5	7	0	0	11	0	26	0	0
February	5.1	SE.	25	SW.	0	0	2	1	30	5	8	1	8	1	1	1	26	18	14	10	0	0	4	0	15	0	0
March	6.3	SE.	26	S.	0	5	6	2	26	4	9	2	7	1	1	9	21	9	6	8	0	0	1	0	21	0	0
April	6.5	SE.	40	SW.	1	2	4	0	18	6	12	1	17	0	1	8	21	11	10	0	0	0	0	0	8	0	0
May	5.3	NW.	26	NW.	0	4	6	2	12	10	6	1	20	1	3	7	21	13	13	0	1	0	0	0	1	4	0
June	5.8	NW.	21	NW.	0	11	2	0	9	14	5	0	19	0	8	10	12	3	2	0	0	0	0	1	0	0	0
July	5.9	NW.	26	SW.	0	12	2	0	9	15	5	0	18	1	20	4	7	2	1	0	0	0	0	1	0	1	0
August	5.5	NW.	23	NW.	0	11	2	0	12	15	2	0	19	1	20	5	6	4	2	0	0	0	0	1	0	2	0
September	6.5	NW.	27	NW.	0	8	4	0	16	13	1	0	17	1	12	14	4	2	1	0	0	0	0	2	3	0	0
October	5.6	SE.	18	SE.	0	2	3	0	29	9	4	0	14	1	9	7	15	8	4	0	0	0	0	0	1	0	0
November	6.3	SE.	29	SE.	0	1	4	0	27	9	10	1	8	0	7	1	22	18	14	8	0	0	0	0	19	0	0
December	5.7	SE.	22	SE.	0	0	1	1	31	7	13	2	6	1	6	3	22	15	10	12	0	0	12	0	25	0	0
Year	5.8	SE.	40	SW.	1	57	87	6	255	108	83	8	167	9	98	73	194	111	82	45	1	0	28	5	119	7	0

BALTIMORE, MD.

[H=123 ft.; h_t=69 ft.; h_r=73 ft.; h_a=117 ft.]

January	5.2	W.	24	E.	0	9	5	6	4	3	10	12	13	0	9	8	14	10	7	4	0	1	8	0	25	1	0
February	7.2	W.	33	W.	0	7	4	2	4	3	3	26	7	0	12	4	12	8	8	1	1	2	9	0	23	1	0
March	6.2	W.	27	SW.	0	8	4	10	7	4	5	15	8	1	10	11	10	11	10	2	0	0	0	0	5	1	0
April	6.9	W.	30	NE.	0	6	4	8	6	5	10	18	3	0	5	13	12	9	9	0	0	0	0	0	2	0	0
May	8.0	SW.	32	W.	0	5	8	7	8	7	13	7	7	0	9	9	13	8	6	0	0	1	0	1	0	4	0
June	7.8	NW.	30	NW.	0	8	0	3	6	12	8	10	13	0	5	15	10	11	10	0	0	0	0	4	0	7	0
July	6.9	SW.	70	W.	1	5	6	6	3	9	16	9	8	0	6	13	12	15	11	0	0	0	0	10	0	11	0
August	6.2	SW.	30	SW.	0	12	5	4	6	10	11	4	10	0	9	17	5	7	5	0	1	0	0	1	0	8	0
September	6.6	NW.	36	NW.	0	11	8	6	4	10	6	4	11	0	10	9	11	12	8	0	0	2	0	1	0	2	0
October	7.0	NW.	26	NW.	0	8	11	1	2	9	7	8	16	0	13	10	8	7	6	0	0	1	0	0	0	0	0
November	6.6	N.	32	W.	0	15	11	3	4	6	7	7	6	1	8	9	13	9	8	0	0	6	0	0	0	1	0
December	8.0	NW.	31	NW.	0	10	7	2	2	6	10	12	13	0	11	8	12	15	11	4	0	2	7	0	20	0	0
Year	6.9	W.	70	W.	1	104	73	58	56	84	106	132	115	2	107	126	132	122	99	11	2	15	24	17	73	38	0

BINGHAMTON, N. Y.

[H=875 ft.; h_t=79 ft.; h_r=71 ft.; h_a=90 ft.]

January	7.3	W.	25	NW.	0	1	3	8	4	0	2	5	8	0	3	9	19	17	6	15	0	0	16	0	30	0	0
February	8.6	W.	35	W.	0	1	6	5	2	0	2	8	4	0	4	11	13	16	9	14	0	1	18	0	25	1	0
March	8.5	NW.	30	N.	0	3	7	1	3	2	2	3	10	0	7	7	17	14	14	6	0	1	4	0	18	2	0
April	7.8	W.	36	SW.	0	3	3	3	4	2	2	7	6	1	4	12	14	14	7	3	0	1	0	0	7	0	0
May	6.4	NW.	25	NW.	0	1	7	6	1	1	1	9	5	0	7	15	9	14	10	0	0	2	0	0	4	6	0
June	6.1	W.	36	S.	0	1	4	6	2	2	0	10	5	0	6	14	10	17	15	0	0	4	0	0	0	8	0
July	4.7	W.	25	SW.	0	2	3	2	2	6	2	9	4	1	3	17	11	14	12	0	0	4	0	0	0	12	0
August	4.7	NE.	32	NW.	0	2	7	5	1	2	1	6	5	2	2	23	6	15	10	0	0	1	9	0	0	8	0
September	5.3	SE.	30	W.	0	0	8	8	5	0	1	2	5	1	8	13	9	13	9	0	0	7	0	0	0	4	0
October	6.3	NW.	26	S.	0	2	2	6	3	2	3	5	8	0	5	9	17	11	11	0	0	2	0	0	5	2	0
November	5.9	NE.	26	NW.	0	3	7	6	3	2	2	3	4	0	5	10	15	10	6	3	0	4	1	0	13	0	0
December	7.2	W.	32	W.	0	4	5	2	1	2	2	8	5	2	4	7	20	16	10	13	0	0	14	0	28	0	0
Year	6.6	W.	36	SW.	0	23	62	58	31	21	20	75	68	7	58	147	160	171	119	54	1	35	53	0	130	43	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

BISMARCK, N. DAK.

[λ=46° 47′ N.; φ=100° 38′ W.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	28.336	28.859	27.799	7.9	17.2	24.2	4.1	14.2	46	−29	1	5	69	57	.052	.062	.05	.04	3.3	2.2	3.7
February	28.214	28.706	27.499	7.4	15.8	20.3	3.0	11.6	45	−26	1	4	72	56	.051	.058	.21	.08	6.1	6.2	5.6
March	28.095	28.714	27.555	22.4	28.6	34.1	18.7	26.4	56	−15	16	17	76	60	.105	.106	2.79	1.07	6.9	6.1	6.2
April	28.208	28.572	27.799	32.4	49.4	54.3	29.9	42.1	75	16	26	32	77	52	.143	.184	.26	.16	5.3	3.9	4.2
May	28.139	28.618	27.548	49.1	64.2	69.0	45.9	57.4	86	34	44	49	84	60	.301	.360	3.00	1.73	4.9	5.6	5.0
June	28.171	28.482	27.799	52.2	64.2	68.1	48.2	58.2	90	34	48	50	85	63	.338	.374	3.63	1.50	6.4	4.9	5.1
July	28.150	28.549	27.698	60.5	77.8	81.3	56.3	68.8	98	43	55	57	82	50	.434	.470	2.54	1.27	5.2	2.8	3.4
August	28.196	28.402	27.876	67.4	74.0	78.5	54.1	66.3	92	41	52	56	84	55	.402	.454	1.84	.67	5.7	2.7	3.8
September	28.166	28.567	27.765	42.4	62.6	70.3	41.0	55.6	92	29	36	42	78	49	.212	.274	.41	.28	3.8	3.0	3.3
October	28.228	28.521	27.900	34.8	49.8	58.3	31.8	45.0	79	23	31	37	85	64	.175	.225	1.21	.51	5.2	3.3	4.3
November	28.163	28.624	27.776	23.5	31.0	39.1	20.3	29.7	61	7	18	20	76	60	.097	.108	T.	T.	6.2	5.4	5.5
December	28.300	28.921	27.797	5.8	11.2	20.2	−0.3	10.0	45	−24	0	2	73	63	.044	.049	.10	.08	5.7	2.6	4.8
Year	28.197	28.921	27.499	33.0	45.5	51.5	29.4	40.4	98	−29	27	31	78	57	.196	.227	15.95	1.73	5.4	4.1	4.6

BLOCK ISLAND, R. I.

[λ=41° 10′ N.; φ=71° 36′ W.]

January	30.035	30.669	29.221	27.7	30.5	34.5	23.5	29.0	50	8	21	23	74	71	.121	.131	1.67	.55	5.4	4.4	4.8
February	29.761	30.201	28.692	27.6	30.5	34.2	24.5	29.4	48	12	20	22	73	70	.119	.126	6.15	2.06	4.6	4.9	4.7
March	29.908	30.501	29.039	39.2	39.6	45.1	35.6	40.4	56	26	34	35	82	83	.203	.205	6.83	2.61	5.9	3.6	5.7
April	29.887	30.293	29.282	44.0	44.4	50.4	40.0	45.2	62	32	38	39	79	81	.230	.238	3.29	1.86	4.7	3.7	4.8
May	29.970	30.458	29.505	51.6	51.6	58.2	47.1	52.6	66	37	45	46	81	83	.313	.318	1.04	.32	4.7	3.5	4.5
June	29.866	30.515	29.271	59.7	59.8	66.8	54.8	60.8	76	45	54	55	84	84	.430	.432	6.35	1.70	3.6	4.5	4.2
July	29.976	30.286	29.712	65.3	65.0	71.1	61.1	66.1	80	54	62	61	88	88	.550	.543	2.31	.44	4.9	5.0	4.9
August	29.927	30.241	29.622	66.5	66.2	73.1	60.7	66.9	80	54	61	62	82	86	.540	.558	1.42	.73	3.5	2.8	3.4
September	30.044	30.359	29.689	62.9	63.2	68.2	58.9	63.6	75	48	58	58	84	85	.489	.498	3.96	1.32	5.2	4.4	5.8
October	30.039	30.499	29.442	55.4	56.0	61.0	49.9	55.4	72	38	48	47	76	73	.352	.342	4.70	1.63	4.9	3.6	4.2
November	30.055	30.462	29.460	47.9	48.9	54.1	43.0	48.6	63	30	42	43	80	82	.274	.292	1.77	.82	6.4	5.0	5.7
December	30.021	30.640	29.216	32.6	33.8	39.7	26.9	33.3	54	− 1	27	27	78	74	.153	.156	7.64	1.44	6.6	4.7	6.1
Year	29.957	30.669	29.692	48.4	49.1	54.7	43.8	49.3	80	− 1	42	43	80	80	.314	.320	45.63	2.61	5.0	4.2	4.9

BOISE, IDAHO.

[λ=43° 37′ N.; φ=116° 8′ W.]

January	27.333	27.626	26.643	24.0	30.7	36.6	20.4	28.5	59	− 8	21	24	90	77	.121	.140	.63	.25	6.4	5.5	6.6
February	27.131	27.453	26.499	35.1	42.5	47.8	31.1	39.4	62	1	29	32	80	69	.167	.187	3.02	.70	7.6	9.0	8.3
March	27.119	27.534	26.524	35.1	45.4	48.9	32.9	40.9	69	20	26	25	70	45	.139	.132	.92	.24	5.5	7.7	6.9
April	27.108	27.418	26.646	41.4	57.8	60.8	39.3	50.0	78	25	32	27	69	31	.179	.148	.77	.30	6.2	7.3	6.7
May	27.056	27.284	26.785	46.5	65.8	70.1	45.0	57.6	90	33	38	35	75	36	.236	.209	1.12	.42	5.0	6.6	5.6
June	27.076	27.248	26.758	51.4	76.9	79.1	50.0	64.6	95	39	40	34	66	23	.248	.202	1.08	.89	2.9	4.4	4.0
July	27.117	27.339	26.748	55.9	82.4	84.4	54.4	69.4	102	41	39	33	66	20	.241	.193	.75	.37	3.1	3.1	2.8
August	27.131	27.346	26.890	56.0	83.2	86.0	54.3	70.2	97	43	40	40	56	24	.252	.250	.20	.20	2.4	2.7	2.5
September	27.163	27.401	26.739	49.7	74.0	77.6	47.0	62.3	94	32	33	35	54	26	.187	.206	.03	.03	2.5	3.8	3.4
October	27.189	27.367	26.885	43.3	62.6	67.7	40.9	54.3	83	33	33	34	68	38	.190	.196	.69	.50	3.1	3.7	3.2
November	27.163	27.615	26.685	36.6	43.7	48.8	33.2	41.0	70	25	29	31	74	64	.160	.176	1.93	.73	5.7	6.8	6.5
December	27.250	27.534	26.895	30.8	36.6	42.5	28.3	35.4	59	17	26	29	81	73	.141	.157	1.01	.34	6.2	6.6	7.0
Year	27.153	27.626	26.499	42.2	58.5	62.5	39.7	51.1	102	− 8	32	32	70	44	.188	.183	12.15	.89	4.7	5.6	5.3

BOSTON, MASS.

[λ=42° 21′ N.; φ=71° 4′ W.]

January	29.912	30.519	28.984	23.9	28.4	33.8	19.5	26.6	54	4	17	21	74	72	.107	.118	1.65	.59	5.7	3.2	5.5
February	29.643	30.142	28.645	25.7	29.9	35.1	22.6	28.8	52	12	20	23	76	75	.114	.131	4.19	1.72	5.1	4.5	5.0
March	29.791	30.414	28.957	40.9	43.3	50.3	36.4	43.4	69	26	34	35	74	74	.201	.219	5.29	1.13	6.3	5.8	5.6
April	29.761	30.139	29.131	46.5	49.7	55.9	40.9	48.4	75	34	37	39	72	69	.228	.245	2.87	1.75	5.3	5.4	6.2
May	29.895	30.322	29.342	56.0	58.9	66 7	48.6	57.6	88	34	45	46	69	63	.320	.322	1.07	.42	6.0	5.0	5.3
June	29.730	30.308	29.176	62.8	64.6	73.8	54.8	64.3	92	49	52	53	70	68	.402	.416	1.77	.46	5.0	5.9	4.5
July	29.855	30.193	29.591	67.0	68.3	75.0	60.7	67.8	91	52	58	59	75	76	.497	.519	2.88	1.07	7.0	5.4	6.5
August	29.803	30.153	29.492	66.1	68.5	75.1	60.1	67.6	85	53	58	59	75	73	.485	.508	2.20	1.27	4.5	4.1	4.3
September	29.942	30.286	29.589	61.5	62.9	69.0	56.2	62.6	89	47	56	56	88	79	.462	.453	2.08	.62	5.8	5.2	5.9
October	29.909	30.429	29.064	52.0	54.1	61.5	45.7	53.6	76	33	45	45	78	72	.324	.314	4.36	1.84	5.2	3.7	5.7
November	29.933	30.363	29.262	43.2	47.0	54.5	37.9	46.2	70	28	38	39	88	76	.239	.256	1.09	.96	6.1	4.8	6.5
December	29.916	30.568	29.367	25.9	29 6	36.6	20.5	28.6	58	− 8	21	23	80	77	.121	.138	4.48	1.24	6.5	3.9	5.6
Year	29.836	30.568	28.645	47.6	50.4	57.3	42.0	49.6	92	− 8	40	42	76	73	.292	.302	33.93	1.84	5.7	4.7	5.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

BISMARCK, N. DAK.

[H=1,674 ft.; h_t=16 ft.; h_r=2 ft.; h_a=35 ft.]

Month.	Wind.													Number of days.											
	By self-register.				Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	.01 inch and over.	.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																						
January	7.4	NW.	41	NW.	1	5	5	5	4	6	2	6	29	0	23	3	5	2	1	2	0	0	20	0	30	0	0
February	8.2	NW.	37	NW.	0	5	5	11	4	2	2	3	24	0	10	5	13	5	3	4	0	0	19	0	28	0	0
March	12.8	NW.	48	NW.	2	9	3	13	11	2	1	5	18	0	10	5	16	11	7	6	0	0	12	0	25	0	0
April	10.9	N.	40	SE.	1	16	5	7	16	6	2	0	8	0	15	9	6	2	2	0	0	0	0	0	17	1	0
May	10.8	SE.	50	SE.	2	2	4	16	13	5	2	8	12	0	16	3	12	13	11	0	0	0	0	0	0	5	0
June	10.3	SE.	52	SE.	2	11	4	8	13	10	0	4	10	0	15	5	10	17	14	0	3	0	0	1	0	9	0
July	8.1	NW.	38	N.	0	8	7	8	11	4	2	7	15	0	23	5	3	8	5	0	0	0	0	3	0	8	0
August	9.5	S.	36	NW.	0	12	7	7	12	12	2	1	9	0	17	12	2	7	7	0	0	0	0	3	0	7	0
September	11.4	NW.	60	N.	2	12	1	5	8	3	5	4	22	0	22	3	5	3	2	0	0	0	0	1	3	1	0
October	7.4	NW.	36	NW.	0	8	3	13	3	4	3	3	23	2	18	6	7	4	4	1	2	1	0	0	16	2	0
November	8.6	NW.	44	NW.	1	10	9	5	10	6	4	3	13	0	11	8	11	0	0	0	0	0	10	0	28	0	0
December	9.5	NW.	52	NW.	1	13	1	6	12	3	1	4	22	0	15	7	9	2	1	2	0	0	24	0	31	0	0
Year	9.6	NW.	60	N.	12	111	54	104	117	63	26	48	205	2	195	71	99	74	57	15	5	1	85	8	178	33	0

BLOCK ISLAND, R. I.

[H=26 ft.; h_t=11 ft.; h_r=3 ft.; h_a=60 ft.]

January	20.0	NW.	64	NW.	10	3	8	4	6	1	8	13	19	0	14	7	10	10	8	6	0	1	11	0	28	0	0
February	25.2	W.	72	NE.	13	2	8	8	3	1	2	22	10	0	11	9	8	10	8	7	0	3	9	0	23	1	0
March	18.8	SW.	72	NE.	6	7	5	8	6	2	16	9	9	0	9	10	12	13	10	3	0	5	0	0	6	0	0
April	16.6	SW.	48	NE.	4	0	7	3	4	5	18	18	5	0	6	18	6	9	4	0	0	6	0	0	1	2	0
May	16.5	SW.	46	NW.	1	1	9	0	3	8	27	7	7	0	10	15	6	10	9	0	0	5	0	0	0	1	0
June	15.7	SW.	48	E.	1	1	6	2	1	7	23	12	8	0	12	13	5	14	11	0	0	8	0	0	0	3	0
July	614.3	SW.	634	S.	0	1	11	7	7	3	21	9	3	0	10	14	7	13	9	0	0	7	0	0	0	6	0
August	11.8	SW.	37	SW.	0	2	7	7	6	3	19	10	8	0	15	14	2	7	6	0	0	7	0	0	0	4	0
September	15.0	NE.	36	NW.	0	0	15	7	11	5	11	2	9	0	9	8	13	16	13	0	0	4	0	0	0	2	0
October	19.0	NW.	52	NE.	3	7	5	3	8	7	10	9	13	0	13	10	8	7	6	0	0	1	0	0	0	0	0
November	19.3	SW.	60	E.	6	10	10	7	2	3	17	4	7	0	8	12	10	10	6	0	0	1	0	0	2	0	0
December	23.4	NW.	73	NE.	13	12	6	5	5	2	5	13	14	0	8	11	12	17	16	9	0	0	7	0	19	0	0
Year	18.0	SW.	73	NE.	57	46	97	61	62	47	177	128	112	0	125	141	99	136	106	25	0	48	27	0	79	19	0

BOISE, IDAHO.

[H=2,739 ft.; h_t=61 ft.; h_r=51 ft.; h_a=68 ft.]

January	3.0	SE.	23	SW.	0	3	4	5	19	3	0	16	12	0	7	9	15	9	4	6	0	6	11	0	26	0	0
February	4.7	SE.	28	E.	0	1	1	6	24	6	2	8	8	0	2	5	21	14	13	4	2	1	2	0	10	0	0
March	6.3	NW.	29	E.	0	4	2	15	13	2	5	4	17	0	4	14	13	9	8	7	0	0	0	0	14	0	0
April	5.1	SE.	24	E.	0	5	4	5	16	1	2	13	14	0	3	16	11	7	6	2	1	1	0	0	3	0	0
May	4.5	NW.	22	SW.	0	4	1	1	13	4	6	12	21	0	9	11	11	9	6	1	2	0	0	0	0	1	0
June	4.5	NW.	25	SW.	0	3	2	2	11	8	5	8	21	0	15	11	4	2	2	0	0	0	0	5	0	1	0
July	4.2	NW.	23	NW.	0	5	4	2	15	5	3	10	18	0	23	4	4	3	3	0	0	0	0	11	0	1	0
August	3.8	W.	19	NW.	0	1	1	1	16	6	3	20	14	0	21	8	2	1	1	0	0	0	0	13	0	2	0
September	4.2	NW.	15	W.	0	4	1	3	18	4	2	9	19	0	15	12	3	1	0	0	0	0	0	8	1	1	0
October	3.1	NW.	19	SW.	0	5	2	5	13	1	3	15	13	0	18	10	3	3	3	0	0	0	0	0	0	0	0
November	5.1	SE.	24	E.	0	3	0	10	25	2	3	10	6	1	9	4	17	15	10	3	0	1	0	0	15	0	0
December	4.1	SE.	29	SW.	0	5	1	4	23	4	3	13	9	0	7	9	15	11	7	5	1	3	0	0	23	1	0
Year	4.4	SE.	29	E.	0	43	23	59	206	46	37	138	177	1	133	113	119	84	63	28	6	12	13	32	92	7	0

BOSTON, MASS.

[H=125 ft.; h_t=115 ft.; h_r=154 ft.; h_a=181 ft.]

January	12.0	W.	38	W.	0	4	0	5	3	3	10	19	18	0	12	4	15	7	5	5	0	0	13	0	30	0	0
February	14.6	W.	46	W.	3	7	8	2	3	1	5	22	8	0	11	8	9	11	9	6	0	1	9	0	24	0	0
March	13.2	SW.	44	NE.	2	8	9	3	3	7	18	7	12	0	11	7	13	13	12	2	0	0	0	0	8	0	0
April	12.0	W.	44	NE.	1	6	7	2	4	11	9	16	5	0	7	10	13	5	4	0	0	1	0	0	0	2	0
May	11.2	SW.	38	W.	0	4	6	5	3	6	14	17	7	0	11	11	9	8	7	0	0	0	0	0	0	1	0
June	11.1	W.	34	NW.	0	1	6	6	4	5	11	19	8	0	14	6	10	12	10	0	0	0	0	1	0	3	0
July	8.8	E.	39	W.	0	2	8	13	3	3	13	8	12	0	7	9	15	14	9	0	0	1	0	2	0	3	0
August	8.4	W.	29	W.	0	5	5	3	4	9	6	17	13	0	14	10	7	9	7	0	0	0	0	0	0	6	0
September	9.2	E.	28	S.	0	8	13	8	4	8	7	6	5	1	10	5	15	11	9	0	0	4	0	0	0	0	0
October	11.5	SW.	30	SW.	0	10	2	2	4	9	13	17	5	0	9	10	12	7	6	0	0	0	0	0	0	0	0
November	10.8	SW.	44	NE.	1	13	5	2	1	5	17	9	8	0	9	5	16	4	2	0	0	4	0	0	3	0	0
December	12.4	W.	38	SW.	0	10	3	2	2	2	10	18	15	0	13	5	13	16	15	10	0	0	12	0	26	0	0
Year	11.3	W.	46	W.	7	78	72	53	38	69	128	175	116	1	128	90	147	117	95	23	0	11	34	3	91	15	0

a By eye observations when there is no self-register at station.

b For 18 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

BUFFALO, N. Y.

[λ = 42° 53′ N.; φ = 78° 53′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.204	29.885	28.566	23.1	25.9	30.6	19.0	24.8	44	3	18	20	79	75	.101	.109	4.01	1.75	8.6	7.0	8.5
February	29.052	29.527	28.273	19.2	23.3	28.1	16.3	22.2	57	4	14	17	80	76	.088	.100	2.33	.50	7.7	5.8	7.2
March	29.127	29.526	28.436	36.7	39.5	46.0	32.3	39.2	65	14	29	30	73	71	.168	.178	1.81	.45	7.4	4.7	7.5
April	29.070	29.419	28.526	43.3	44.7	51.9	38.1	45.0	75	30	35	34	72	70	.206	.204	2.04	.50	6.8	7.4	7.2
May	29.187	29.490	28.907	52.1	56.4	62.5	47.0	54.8	83	33	42	44	71	64	.293	.309	1.85	.57	7.0	5.9	6.3
June	29.072	29.494	28.559	60.3	63.0	67.6	55.2	61.4	84	45	51	52	74	70	.390	.404	4.20	.76	7.3	5.7	6.8
July	29.167	29.428	28.920	67.7	71.0	75.3	64.2	69.8	85	53	61	62	80	74	.543	.562	4.53	1.55	6.8	5.9	6.4
August	29.154	29.404	28.907	64.7	68.7	74.1	59.9	67.0	82	53	57	57	76	68	.466	.481	1.72	.54	5.6	4.7	6.5
September	29.183	29.459	28.684	60.8	65.1	71.6	56.8	64.2	82	46	53	54	75	70	.411	.440	2.73	.57	5.7	4.0	6.4
October	29.199	29.638	28.719	49.3	52.7	58.9	44.6	51.8	69	33	42	43	75	70	.274	.293	3.09	.64	7.3	5.0	7.3
November	29.197	29.608	28.622	46.3	48.0	53.6	42.1	47.8	67	25	38	38	74	70	.246	.240	1.03	.27	8.0	4.3	7.9
December	29.203	29.823	28.552	27.3	28.2	33.3	21.8	27.6	51	6	21	22	76	77	.120	.121	3.57	.84	8.9	7.9	9.3
Year	29.151	29.885	28.273	45.9	48.9	54.5	41.4	48.0	85	3	38	39	75	71	.276	.287	32.91	1.75	7.3	5.7	7.3

CAIRO, ILL.

[λ = 37° 0′ N.; φ = 89° 10′ W.]

January	29.817	30.351	29.289	30.1	37.0	42.5	27.2	34.8	67	7	24	26	79	67	.135	.148	3.42	1.81	5.2	4.4	5.9
February	29.666	30.087	28.543	24.2	31.8	34.7	23.0	28.8	57	8	22	26	89	81	.123	.153	1.37	.42	6.2	7.0	6.8
March	29.615	30.214	29.020	43.4	52.4	57.1	41.3	49.2	70	17	38	44	81	74	.249	.316	2.12	.56	6.5	5.4	5.8
April	29.638	29.895	29.273	50.4	61.2	66.3	48.0	57.2	86	32	42	49	75	66	.284	.365	3.36	1.28	5.0	5.5	5.1
May	29.623	29.792	29.315	67.6	77.0	81.9	64.2	73.0	92	50	60	67	78	72	.545	.675	2.13	.99	4.5	5.0	4.9
June	29.554	29.827	29.137	70.7	79.4	84.1	67.3	75.7	95	55	64	65	79	63	.603	.637	2.47	.74	6.2	5.2	5.7
July	29.658	29.815	29.512	74.8	83.6	89.2	71.0	80.1	97	63	67	69	78	63	.675	.726	.40	.35	3.1	4.6	3.9
August	29.596	29.803	29.434	71.5	79.8	86.3	68.6	77.4	98	60	67	70	87	73	.671	.741	3.26	.95	5.3	4.7	5.3
September	29.624	29.977	29.251	61.4	69.7	75.7	59.1	67.4	87	44	57	59	85	72	.476	.528	3.29	1.27	5.4	5.1	5.1
October	29.695	30.062	29.317	54.7	65.2	71.7	53.0	62.4	80	39	48	51	81	62	.355	.397	.79	.77	4.8	3.2	4.2
November	29.684	29.936	29.137	49.7	56.3	61.3	47.8	54.6	80	29	45	47	85	74	.311	.340	3.51	.97	7.8	6.7	7.5
December	29.756	30.228	28.780	34.2	38.5	43.4	30.5	37.0	64	8	30	32	85	78	.180	.196	6.95	2.47	6.6	5.8	6.6
Year	29.660	30.351	28.543	52.7	61.0	66.2	50.1	58.1	98	7	47	50	82	70	.384	.435	33.07	2.47	5.6	5.2	5.6

CAPE HENRY, VA.[a]

[λ = 36° 56′ N.; φ = 76° 0′ W.]

January	.....	.....	.....	.....	.....	44.0	29.6	36.8	64	16	.....	.....	.....	.....	.....	.....	2.09	1.16	.....	.....	5.8
February	.....	.....	.....	.....	.....	39.4	28.6	34.0	60	20	.....	.....	.....	.....	.....	.....	4.98	1.71	.....	.....	5.3
March	.....	.....	.....	.....	.....	57.1	39.5	48.3	76	22	.....	.....	.....	.....	.....	.....	1.83	.83	.....	.....	6.4
April	.....	.....	.....	.....	.....	63.6	46.3	55.0	88	35	.....	.....	.....	.....	.....	.....	1.30	.64	.....	.....	6.0
May	.....	.....	.....	.....	.....	73.9	57.3	65.6	92	49	.....	.....	.....	.....	.....	.....	3.26	.76	.....	.....	5.7
June	29.927	30.488	29.477	.....	.....	80.5	64.3	72.4	97	52	.....	.....	.....	.....	.....	.....	1.35	.55	.....	.....	5.1
July	30.000	30.231	28.851	77.9	.....	86.2	70.0	78.1	101	64	68	.....	72	.....	.692	.....	2.22	1.38	2.9	.....	4.6
August	29.930	30.176	29.724	75.0	.....	81.1	68.6	74.8	93	60	65	.....	73	.....	.688	.....	4.41	.88	3.1	.....	4.3
September	30.003	30.249	29.719	69.7	.....	76.5	65.7	71.1	90	60	63	.....	80	.....	.596	.....	4.69	1.78	4.7	.....	4.2
October	30.047	30.542	29.521	62.9	.....	70.3	57.9	64.1	79	46	54	.....	75	.....	.445	.....	2.91	.91	3.9	.....	3.8
November	30.065	30.455	29.475	54.7	.....	62.9	50.9	56.9	75	38	50	.....	83	.....	.368	.....	2.25	1.26	5.4	.....	5.7
December	30.077	30.584	29.431	40.7	.....	50.5	36.6	43.6	70	24	33	.....	75	.....	.205	.....	2.50	.70	6.3	.....	6.2
Year	.....	.....	.....	.....	.....	65.5	51.3	58.4	101	18	.....	.....	.....	.....	.....	.....	33.79	1.78	.....	.....	5.3

CAPE MAY, N. J.

[λ = 38° 56′ N.; φ = 74° 51′ W.]

January	30.107	30.767	29.355	29.4	32.4	37.2	25.1	31.2	48	16	.....	.....	.....	.....	.....	.....	3.11	1.12	4.7	4.3	5.9
February	29.876	30.366	29.171	26.9	30.9	33.8	24.5	29.2	50	14	.....	.....	.....	.....	.....	.....	5.46	1.57	4.7	4.6	4.9
March	29.990	30.481	29.335	40.8	42.7	47.8	37.2	42.5	58	22	.....	.....	.....	.....	.....	.....	3.87	2.00	5.1	5.1	5.3
April	29.951	30.339	29.452	47.2	48.5	54.2	44.0	49.1	76	36	.....	.....	.....	.....	.....	.....	3.46	2.04	4.9	4.3	5.6
May	30.038	30.422	29.673	57.5	57.3	65.1	52.6	58.8	80	42	.....	.....	.....	.....	.....	.....	2.13	1.20	4.2	4.3	4.6
June	29.926	30.499	29.410	64.3	64.2	70.9	59.2	65.0	84	53	.....	.....	.....	.....	.....	.....	4.93	1.46	3.5	4.5	4.5
July	30.015	30.257	29.763	71.3	70.0	77.8	66.5	72.2	92	61	.....	.....	.....	.....	.....	.....	1.94	.79	5.0	4.0	4.5
August	29.966	30.231	29.710	70.7	71.5	77.2	66.3	71.8	85	54	.....	.....	.....	.....	.....	.....	3.58	1.60	3.2	2.8	3.6
September	30.045	30.312	29.693	66.2	67.0	72.6	61.9	67.2	78	52	.....	.....	.....	.....	.....	.....	6.55	2.14	4.9	5.2	5.4
October	30.079	30.578	29.477	57.8	60.9	65.8	53.8	59.8	75	36	.....	.....	.....	.....	.....	.....	3.82	1.38	7.7	3.4	4.1
November	30.066	30.494	29.484	50.3	52.8	57.3	46.6	52.0	70	31	.....	.....	.....	.....	.....	.....	3.24	1.75	4.9	4.8	5.6
December	30.102	30.694	29.123	35.2	37.3	42.8	30.8	36.8	58	16	.....	.....	.....	.....	.....	.....	5.81	1.95	6.2	4.3	6.0
Year	30.015	30.767	29.123	51.5	53.0	58.5	47.4	53.0	92	14	.....	.....	.....	.....	.....	.....	47.90	2.14	4.9	4.3	5.0

[a] 8 p. m. observation, January to June, inclusive; 8 a. m. observation from July to December, inclusive

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

BUFFALO, N. Y.

[H = 767 ft.; h_1 = 178 ft.; h_r = 168 ft.; h_a = 206 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	16.4	W.	56	W.	5	4	2	5	6	8	9	20	8	0	0	10	21	21	15	20	0	1	17	0	29	0	0
February	17.2	W.	63	W.	8	2	7	4	3	7	12	16	4	1	1	16	11	16	10	14	0	5	18	0	25	0	0
March	14.7	W.	52	SW.	5	3	5	7	6	8	14	12	7	0	5	8	18	17	11	6	0	5	5	0	12	1	0
April	16.0	W.	66	W.	7	3	3	3	5	9	16	18	3	0	5	8	17	17	9	3	0	2	0	0	2	1	0
May	12.8	SW.	50	SW.	7	5	9	8	5	3	14	11	7	0	5	14	12	14	11	0	0	1	0	0	0	4	0
June	14.8	W.	51	W.	5	4	2	6	3	5	21	14	5	0	2	14	14	17	13	0	0	2	0	0	0	2	0
July	11.2	SW.	45	SW.	3	7	5	9	1	2	30	7	1	0	6	13	12	19	11	0	0	1	0	0	0	8	0
August	11.1	W.	39	NW.	0	8	9	6	4	4	13	10	8	0	1	20	10	13	11	0	0	0	0	0	0	6	0
September	12.4	W.	51	SW.	3	1	8	6	6	12	12	11	4	0	6	11	13	15	12	0	0	0	0	0	0	3	0
October	16.1	W.	66	SW.	7	7	4	8	4	7	12	14	6	0	4	8	19	16	12	0	0	1	0	0	0	6	0
November	16.9	W.	66	SW.	8	4	2	8	5	9	12	16	4	0	1	8	21	12	8	4	0	0	0	0	3	0	0
December	20.8	W.	65	W.	13	3	7	10	2	5	11	18	6	0	0	3	28	25	17	20	0	0	13	0	26	0	0
Year	15.0	W.	66	SW.	71	51	63	80	50	79	176	167	63	1	36	133	196	202	140	67	0	18	53	0	97	31	0

CAIRO, ILL.

[H = 356 ft.; h_1 = 87 ft.; h_r = 80 ft.; h_a = 93 ft.]

January	9.3	SW.	38	N.	0	9	10	5	3	6	15	0	14	0	6	15	10	7	6	1	0	0	5	0	21	0	0
February	10.0	NW.	32	SW.	0	10	9	3	5	4	5	3	17	0	5	9	14	10	5	3	0	0	12	0	22	1	0
March	11.4	SE.	40	SW.	1	8	4	8	14	7	5	5	11	0	6	16	9	13	8	1	1	0	0	0	8	6	0
April	9.2	N.	52	SW.	1	14	9	5	6	7	5	2	11	1	6	17	7	9	8	0	0	0	0	1	8	7	0
May	8.7	S.	34	N.	0	9	9	3	13	16	10	1	1	0	7	21	3	7	5	0	1	0	2	0	8	8	0
June	8.2	S.	44	SW.	1	7	6	3	6	19	13	2	4	0	7	12	11	10	8	0	0	0	6	7	0	8	0
July	6.4	SW.	24	SW.	0	4	3	2	9	16	17	3	8	0	14	14	3	3	2	0	0	0	0	14	0	6	0
August	6.3	N.	46	N.	1	13	10	6	12	10	8	9	3	0	7	17	7	11	9	0	1	0	0	10	0	10	0
September	5.7	SW.	35	NW.	0	8	9	7	9	6	9	5	7	0	10	9	11	12	7	0	0	0	0	0	0	2	0
October	6.3	S.	28	S.	0	4	9	3	10	18	6	6	6	0	13	12	6	4	1	0	0	1	0	0	0	0	0
November	7.4	S.	27	NW.	0	9	5	2	8	21	4	4	7	0	2	12	16	10	9	0	0	0	0	0	3	1	0
December	10.2	NW.	42	SW.	1	8	7	4	10	8	11	2	12	0	6	9	16	12	7	1	0	1	4	0	18	1	0
Year	8.3	S.	52	SW.	5	103	90	51	105	138	108	33	101	1	89	163	113	108	75	6	3	2	21	33	73	50	0

CAPE HENRY, VA.

[H = 18 ft.; h_1 = 11 ft.; h_r = 43 ft.; h_a = 58 ft.]

January	14.8	NW.	49	NW.	2	13	6	1	4	10	10	3	15	0	9	11	11	8	8	1	0	4	1	0	22	1	0
February	17.2	NW.	48	NW.	6	8	1	2	10	5	4	12	14	0	11	7	10	10	10	3	0	6	3	0	21	1	0
March	15.3	S.	57	NW.	5	6	5	2	12	14	6	6	11	0	3	17	11	10	9	0	0	3	0	0	3	0	0
April	14.0	S.	37	SW.	0	5	9	3	8	14	10	8	3	0	7	15	8	9	6	0	0	0	0	0	0	1	0
May	13.4	SE.	45	N.	4	3	11	6	13	11	12	3	3	0	8	11	12	11	8	0	0	1	0	0	0	8	0
June	12.8	S.	40	NW.	3	2	9	3	14	15	12	2	3	0	12	10	8	11	8	0	0	0	0	3	0	7	0
July	10.4	SW.	45	NW.	1	4	5	2	4	3	8	3	1	0	11	17	3	9	7	0	0	0	0	0	0	7	0
August	11.4	SW.	59	NW.	2	8	3	1	2	4	9	2	2	0	14	11	6	10	9	0	0	0	0	2	0	10	0
September	13.1	N.	43	N.	4	7	5	1	4	6	4	0	3	0	15	8	7	12	11	0	0	0	0	0	0	4	0
October	13.2	SW.	50	NW.	6	3	5	3	2	6	6	2	4	0	18	6	7	9	8	0	0	0	0	0	0	0	0
November	13.7	N.	51	NW.	4	9	2	2	1	6	8	0	2	0	11	9	10	8	7	0	0	4	0	0	0	0	0
December	16.2	NW.	48	N.	4	6	4	0	2	8	7	2	7	0	9	10	12	12	9	0	0	0	1	0	10	0	0
Year	13.8	S.	59	NW.	41	*b*74	*b*65	*b*26	*b*76	*b*97	*b*97	*b*43	*b*68	*b*0	128	132	105	119	100	4	0	18	5	18	56	39	0

CAPE MAY, N. J.

[H = 17 ft.; h_1 = 47 ft.; h_r = 39 ft.; h_a = 51 ft.]

January	9.3	NW.	32	N.	0	13	7	5	0	3	9	11	14	0	8	13	10	10	8	2	0	3	5	0	28	0	0
February	12.6	NW.	40	W.	2	5	8	4	3	1	2	13	20	0	13	5	10	8	8	1	0	3	15	0	24	1	0
March	10.7	NW.	43	S.	2	6	4	3	3	15	6	9	15	1	7	18	6	12	11	0	0	5	0	0	6	3	0
April	9.6	W.	32	W.	0	2	7	5	5	12	6	14	8	1	5	21	4	13	9	0	0	0	0	0	0	2	0
May	7.7	S.	24	NW.	0	2	9	8	7	16	9	4	7	0	13	13	5	9	8	0	0	3	0	0	0	5	0
June	7.4	S.	33	NW.	0	7	2	1	6	23	7	8	6	0	12	13	5	12	9	0	0	7	0	0	0	7	0
July	6.7	S.	28	SE.	0	4	6	6	6	17	13	4	6	0	12	16	3	11	5	0	0	1	0	2	0	8	0
August	6.5	S.	24	E.	0	11	8	4	2	16	12	5	4	0	15	15	1	8	4	0	0	0	0	0	0	6	0
September	7.4	N.	31	S.	0	12	8	10	7	8	5	3	7	0	10	9	11	16	13	0	0	0	0	0	0	1	0
October	9.1	NW.	31	NW.	0	11	5	6	4	8	7	5	16	0	16	7	8	8	6	0	0	0	0	0	0	0	0
November	8.5	N.	30	NW.	0	13	9	2	4	6	13	6	7	0	7	15	8	7	6	0	0	3	0	0	1	0	0
December	10.4	NW.	38	NE.	0	9	9	2	1	5	6	13	17	0	5	16	10	16	14	0	0	1	4	0	17	0	0
Year	8.8	NW.	43	S.	4	95	82	56	48	130	95	95	127	2	123	161	81	130	101	3	0	28	24	2	76	33	0

a By eye observations when there is no self-register at station.
b Only one observation per day from July to December, inclusive.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

CARSON CITY, NEV.

[λ = 39° 10′ N.; φ = 119° 46′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	25.329	25.610	24.847	22.0	38.5	43.7	18.7	31.2	63	−2	19	27	86	64	.105	.148	.33	.18	2.7	5.8	4.0
February	25.209	25.426	24.731	34.9	45.5	49.4	30.6	40.0	66	15	26	33	73	63	.144	.187	1.71	.82	6.4	7.9	5.7
March	25.209	25.607	24.802	26.8	42.8	46.3	23.9	35.1	61	4	22	29	80	59	.116	.157	1.25	.98	3.4	6.3	3.0
April	25.222	25.443	24.894	36.1	52.8	56.7	33.7	45.2	69	23	26	30	65	43	.141	.169	.18	.14	3.3	4.2	4.2
May	25.197	25.326	24.939	40.0	59.5	63.7	38.4	51.0	81	24	29	35	66	42	.162	.209	.20	.16	3.3	4.2	3.5
June	25.225	25.349	25.002	47.0	75.8	78.5	45.7	62.1	90	30	32	37	57	26	.184	.224	T.	T.	0.4	1.6	1.3
July	25.284	25.437	25.026	50.3	78.6	82.3	49.0	65.6	96	36	37	40	61	26	.223	.246	.02	.02	1.4	2.5	2.6
August	25.299	25.487	25.129	51.2	77.0	82.2	49.5	65.8	96	42	39	43	64	32	.244	.283	.18	.13	1.6	3.8	3.3
September	25.311	25.512	25.001	46.3	74.4	79.0	43.1	61.0	92	25	32	38	60	28	.187	.232	.12	.12	1.5	3.5	2.9
October	25.276	25.457	24.944	37.2	60.7	65.5	34.5	50.0	77	24	27	36	65	42	.143	.211	.35	.18	1.7	3.7	3.2
November	25.249	25.555	24.900	31.2	44.0	49.9	27.9	38.9	64	17	23	30	73	62	.123	.171	.76	.52	3.4	6.1	5.0
December	25.295	25.465	25.039	30.6	41.7	48.0	25.7	36.8	67	11	20	28	67	60	.118	.156	.45	.24	2.6	4.4	4.3
Year	25.259	25.610	24.731	37.8	57.6	62.1	35.1	48.6	96	−2	28	34	68	46	.158	.199	5.55	.98	2.6	4.5	3.6

CHARLESTON, S. C.

[λ = 32° 47′ N.; φ = 79° 56′ W.]

January	30.107	30.494	29.559	40.8	47.0	56.0	36.5	47.2	73	25	34	39	77	74	.210	.246	.45	.31	3.7	4.5	4.3
February	29.895	30.272	29.274	38.9	45.3	51.8	37.0	44.4	65	27	33	36	78	72	.205	.229	2.92	.93	5.5	5.2	5.5
March	30.004	30.434	29.566	52.5	56.9	64.7	49.9	57.3	81	30	46	48	80	74	.337	.359	4.36	2.12	4.9	4.8	4.7
April	29.975	30.199	29.672	58.2	62.2	69.7	54.7	62.2	80	38	50	54	76	76	.385	.439	1.03	.34	3.9	4.2	4.0
May	30.008	30.239	29.702	72.3	73.5	81.2	66.3	74.8	94	59	65	66	79	78	.632	.647	1.43	.49	4.5	5.1	4.3
June	29.920	30.296	29.611	77.3	79.4	85.9	73.3	79.6	99	67	69	71	77	76	.723	.760	1.82	.44	5.3	5.3	4.4
July	30.010	30.185	29.860	79.6	82.1	89.4	76.1	82.8	103	70	72	74	78	76	.778	.827	6.79	2.61	4.5	6.4	4.7
August	29.986	30.138	29.706	77.4	79.1	86.8	73.9	80.4	99	69	71	72	80	78	.752	.779	3.04	.83	5.4	6.7	5.4
September	29.978	30.139	29.690	72.0	75.0	81.0	69.6	75.3	90	63	66	69	81	81	.648	.710	3.73	1.09	6.3	6.0	5.7
October	30.013	30.460	29.614	65.3	69.8	75.9	62.1	69.0	84	47	59	62	80	77	.516	.568	3.37	1.81	5.3	5.1	4.7
November	30.043	30.332	29.554	59.0	63.8	69.7	56.7	63.2	79	33	55	58	88	82	.457	.499	4.05	1.50	5.7	4.8	5.4
December	30.086	30.439	29.463	47.3	53.7	60.1	44.7	52.4	73	23	43	46	84	77	.301	.343	4.23	2.97	5.8	4.3	5.0
Year	29.999	30.494	29.274	61.7	65.6	72.7	58.7	65.7	103	23	55	58	80	77	.495	.534	37.22	2.97	5.1	5.2	4.8

CHARLOTTE, N. C.

[λ = 35° 13′ N.; φ = 80° 51′ W.]

January	29.291	29.762	28.668	38.3	40.5	46.4	30.4	38.4	64	19	27	29	76	65	.152	.169	2.42	.82	5.8	4.1	5.9
February	29.080	29.456	28.424	31.4	38.4	44.0	29.3	36.6	69	17	24	28	74	65	.144	.164	6.07	1.91	5.8	4.3	5.4
March	29.187	29.570	28.663	45.6	54.4	61.0	42.4	51.7	75	21	38	40	76	60	.249	.265	3.54	.99	5.8	4.5	5.5
April	29.160	29.371	28.852	51.9	60.7	67.5	48.0	57.8	84	32	42	45	71	59	.286	.314	1.68	.58	4.0	4.5	4.7
May	29.220	29.402	28.998	66.3	74.2	82.8	61.9	72.4	94	48	59	58	78	60	.507	.503	3.39	1.47	4.6	5.2	4.0
June	29.142	29.563	28.641	70.8	78.4	86.6	66.4	76.5	98	57	63	62	76	60	.584	.576	4.07	2.86	6.2	6.1	4.1
July	29.236	29.438	29.043	75.0	80.8	90.1	70.2	80.2	98	63	68	66	79	63	.685	.645	4.58	2.16	3.6	6.5	4.4
August	29.168	29.413	28.975	71.5	77.5	86.1	67.5	76.8	95	61	66	66	84	70	.652	.654	3.74	1.38	4.9	4.7	5.3
September	29.219	29.439	28.839	65.1	71.3	79.4	60.7	70.0	89	48	59	60	82	69	.523	.538	3.48	1.77	4.9	3.7	5.1
October	29.255	29.698	28.741	55.7	64.5	72.1	52.6	62.4	82	38	50	52	81	65	.376	.402	4.49	1.74	3.7	3.0	3.8
November	29.261	29.619	28.701	50.8	59.3	66.2	49.2	57.7	78	30	46	50	84	72	.325	.367	4.44	1.94	4.0	3.5	5.0
December	29.277	29.682	28.635	37.4	43.5	49.6	35.1	42.4	64	16	31	34	77	71	.186	.211	3.42	1.11	5.7	4.6	5.3
Year	29.208	29.762	28.424	54.6	62.0	69.3	51.1	60.2	98	16	48	49	78	65	.389	.401	45.32	2.86	5.0	4.5	4.9

CHATTANOOGA, TENN.

[λ = 35° 4′ N.; φ = 85° 14′ W.]

January	29.362	29.732	28.807	34.2	41.9	47.9	31.1	39.5	68	19	27	29	74	60	.153	.170	3.48	.79	4.7	4.3	5.1
February	29.182	29.552	28.277	31.3	38.0	43.3	28.7	36.0	63	13	23	25	69	61	.136	.148	3.54	1.86	7.2	4.3	5.9
March	29.224	29.649	28.708	44.7	54.2	59.5	41.4	50.4	75	17	38	42	70	66	.251	.294	5.16	2.01	6.2	4.1	5.8
April	29.226	29.422	29.046	52.1	63.7	68.3	49.0	58.6	86	33	45	48	77	59	.311	.355	1.65	.66	5.5	4.2	5.2
May	29.251	29.453	29.026	66.3	76.6	83.1	62.5	72.8	92	49	59	62	79	63	.517	.575	2.19	1.19	5.7	4.5	5.0
June	29.176	29.513	28.916	72.5	82.0	89.0	66.6	77.8	100	57	62	62	70	52	.561	.557	1.33	.89	4.2	4.8	4.9
July	29.272	29.448	29.166	74.3	83.2	91.5	69.6	80.6	98	60	65	63	74	54	.621	.589	.67	.17	4.9	5.5	5.5
August	29.194	29.420	29.055	72.2	81.7	90.4	68.9	79.6	101	63	63	63	75	56	.592	.587	1.81	.36	4.4	5.4	5.3
September	29.237	29.457	28.967	63.5	72.3	79.2	60.2	69.7	87	47	58	58	83	63	.503	.504	3.59	1.56	5.4	3.7	5.3
October	29.307	29.718	28.941	53.1	63.9	72.2	50.7	61.4	82	35	48	52	85	65	.352	.401	2.47	1.82	3.6	2.5	4.1
November	29.294	29.613	28.678	48.3	58.3	65.1	46.3	55.7	77	30	44	46	86	66	.302	.326	3.90	2.02	5.9	3.4	6.0
December	29.338	29.638	28.566	37.9	43.4	48.8	34.5	41.6	68	16	31	33	77	68	.189	.204	3.61	.93	6.5	4.5	5.9
Year	29.255	29.732	28.277	54.2	63.3	69.9	50.8	60.3	101	13	47	49	77	61	.374	.392	32.90	2.02	5.4	4.3	5.3

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

CARSON CITY, NEV.

[H = 4,720 ft.; h_t = 82 ft.; h_r = 77 ft.; h_a = 92 ft.]

Month.	Wind.													Number of days.											
	By self-registers.					Number of winds, 8 a.m. and 8 p.m.											Precipitation.				Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																						
January	4.4	E.	38	SW.	0	8	7	10	2	7	12	6	10	0	15	11	5	4	3	3	0	0	4	0	30	0	0
February	8.5	SW.	48	SW.	2	2	2	8	3	14	16	9	2	0	9	6	13	10	8	3	0	0	0	0	16	0	0
March	7.5	NW.	64	SW.	2	11	4	3	1	11	11	10	11	0	20	6	5	8	4	8	0	0	0	0	30	0	0
April	9.4	SW.	46	SW.	2	5	4	1	2	13	12	19	4	0	12	14	4	2	2	0	0	0	0	0	9	0	0
May	8.4	SW.	36	SW.	0	7	4	2	0	4	20	16	9	0	16	10	5	4	1	1	0	0	0	0	4	0	0
June	6.9	W.	27	W.	0	2	0	2	0	11	12	26	7	0	25	5	0	0	0	0	0	0	0	0	1	0	0
July	6.7	W.	39	SW.	0	4	1	0	1	9	11	25	11	0	20	9	2	1	0	0	0	0	0	8	0	0	0
August	5.2	W.	27	SW.	0	0	3	2	0	11	18	24	4	0	15	12	4	4	2	0	0	0	0	5	0	4	0
September	5.8	SW.	36	SW.	0	6	6	5	0	10	12	16	5	0	19	8	3	1	1	0	0	0	0	3	5	2	0
October	5.3	NW.	38	S.	0	6	8	6	3	6	14	10	9	0	19	4	8	3	3	0	0	0	0	0	11	0	0
November	7.0	SW.	60	SW.	1	3	3	7	2	15	16	2	12	0	9	12	9	7	5	3	0	2	1	0	22	0	0
December	6.7	S.	44	SW.	1	4	6	6	3	17	15	4	7	0	12	13	6	4	4	0	0	0	1	0	19	0	0
Year	6.8	SW.	64	SW.	8	58	48	52	17	128	169	167	91	0	191	110	64	48	33	18	0	2	6	16	147	6	0

CHARLESTON, S. C.

[H = 48 ft.; h_t = 14 ft.; h_r = 76 ft; h_a = 92 ft.]

January	10.8	SW.	35	S.	0	11	9	2	1	3	17	13	6	0	14	10	7	3	2	0	0	3	0	0	6	0	0
February	11.8	NW.	43	S.	2	6	6	4	3	3	6	16	12	0	8	11	9	9	9	0	1	2	0	0	7	4	0
March	11.8	NW.	42	S.	1	2	9	5	9	8	10	9	10	0	12	11	8	7	6	0	0	2	0	0	1	3	0
April	9.8	S.	33	NW.	0	6	5	3	4	16	13	8	5	0	13	14	3	9	5	0	0	1	0	0	0	6	0
May	10.7	S.	38	NE.	0	3	9	11	6	18	15	4	1	0	11	18	2	6	6	0	0	2	0	3	0	11	0
June	11.8	S.	42	N.	2	3	9	6	8	10	12	8	4	0	7	22	1	14	10	0	0	0	0	6	0	11	0
July	9.9	SW.	43	N.	1	5	3	9	6	12	10	14	3	0	8	20	3	12	10	0	0	0	0	14	0	24	0
August	10.0	SW.	45	NW.	1	8	8	8	8	7	17	8	3	0	4	24	3	12	12	0	0	0	0	7	0	18	0
September	10.2	NE.	31	NE.	0	3	21	8	8	3	7	6	4	0	4	20	6	12	8	0	0	2	0	0	0	8	0
October	11.9	NE.	43	SE.	1	8	16	13	5	4	1	7	8	0	10	15	6	8	7	0	0	2	0	0	0	0	0
November	9.9	N.	36	SW.	0	15	14	9	3	5	5	4	5	0	8	13	9	9	7	0	0	4	0	0	0	0	0
December	10.2	N.	45	SW.	1	11	14	4	1	3	10	7	12	0	9	15	7	7	5	0	0	1	0	0	3	2	0
Year	10.7	SW.	45	SW.	9	81	123	82	57	87	123	104	73	0	108	193	64	108	87	0	1	19	0	30	17	87	0

CHARLOTTE, N. C.

[H = 773 ft.; h_t = 68 ft.; h_r = 60 ft.; h_a = 76 ft.]

January	6.8	NE.	29	NW.	0	7	16	5	0	8	15	8	3	0	11	8	12	11	9	0	0	1	2	0	19	0	0
February	7.8	NE.	36	NW.	0	8	12	4	3	7	6	6	10	0	11	6	11	13	10	4	0	0	2	0	20	2	0
March	8.4	SW.	38	W.	0	4	7	5	9	11	17	4	5	0	10	11	10	13	10	0	0	0	0	0	4	5	0
April	8.1	NE.	34	SW.	0	2	15	2	2	8	13	9	9	0	13	10	7	10	8	0	0	1	0	0	0	3	0
May	6.2	SW.	32	NW.	0	2	12	8	4	14	14	5	3	0	15	10	6	9	8	0	0	0	0	4	0	7	0
June	6.9	SW.	36	W.	0	1	16	3	10	5	18	3	3	1	13	12	5	13	10	0	0	0	0	7	0	8	0
July	5.4	NE.	29	W.	0	2	18	8	7	4	15	6	2	0	14	10	7	10	7	0	0	0	0	17	0	12	0
August	4.9	SW.	42	W.	1	4	9	8	5	10	19	5	2	0	10	14	7	10	9	0	0	0	0	10	0	11	0
September	5.6	NE.	26	W.	0	1	19	12	3	9	9	5	2	0	9	12	9	10	7	0	0	0	0	0	0	4	0
October	5.6	NE.	25	SW.	0	9	18	6	4	9	7	3	5	1	17	5	9	7	7	0	0	0	0	0	0	1	0
November	5.8	NE.	28	SW.	0	9	13	7	5	10	11	2	1	2	12	7	11	7	6	0	0	1	0	0	1	0	0
December	6.8	NE.	36	SW.	0	7	16	7	6	6	11	4	5	0	12	7	12	11	10	0	0	3	1	0	8	0	0
Year	6.5	NE.	42	W.	1	56	171	75	58	101	155	60	50	4	147	112	106	104	101	4	0	6	5	38	52	53	0

CHATTANOOGA, TENN.

[H = 762 ft.; h_t = 106 ft.; h_r = 98 ft.; h_a = 112 ft.]

January	8.4	W.	34	NW.	0	4	9	1	9	7	6	16	10	0	12	8	11	10	10	0	0	4	2	0	17	0	0
February	9.0	NW.	44	SW.	1	6	10	0	3	8	4	9	16	0	5	15	8	9	8	3	0	3	3	0	18	2	0
March	9.1	SE.	43	W.	1	4	7	5	12	12	3	9	10	0	10	10	11	15	10	1	2	4	0	0	6	6	0
April	7.8	W.	32	NW.	0	6	9	2	2	8	9	13	10	1	9	13	8	8	6	0	0	1	0	0	0	3	0
May	6.3	SW.	28	SW.	0	6	12	0	5	9	12	11	7	0	11	14	6	11	6	0	0	1	0	0	2	10	0
June	7.0	NE.	57	SW.	2	8	14	0	6	6	9	9	8	0	9	16	5	9	7	0	0	0	0	12	0	13	0
July	6.0	NE.	43	W.	1	6	12	8	7	4	11	12	2	0	4	20	7	11	5	0	0	0	0	17	0	15	0
August	5.8	NE.	42	SW.	2	10	13	3	2	9	8	13	4	0	6	21	4	17	10	0	0	1	0	16	0	13	0
September	5.9	NE.	36	W.	0	7	14	6	10	8	3	7	5	0	9	11	10	13	9	0	0	1	0	0	0	2	0
October	5.3	NW.	32	NW.	0	1	12	5	4	11	4	10	13	2	15	11	5	6	2	0	0	6	0	0	0	0	0
November	5.3	S.	34	SW.	0	5	7	3	7	15	4	7	12	0	6	12	12	10	8	1	0	10	0	0	2	1	0
December	7.3	NW.	41	SW.	1	6	11	2	7	6	4	10	16	0	10	8	13	9	6	0	0	2	2	0	10	0	0
Year	6.9	NE.	57	SW.	8	69	130	35	74	103	77	126	113	3	106	159	100	128	87	5	3	32	7	47	53	65	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

CHEYENNE, WYO.

[λ=41° 8′ N.; φ=104° 48′ W.]

Month.	Pressure.			Temperature.							Moisture.									
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.	
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	23.969	24.363	23.552	20.5	26.7	37.2	13.8	25.5	59	−27	9	14	61	62	.067	.088	.21	.16	2.4	3.5	3.7
February	23.863	24.147	23.302	27.8	33.1	41.4	20.9	31.2	57	−12	16	21	64	64	.091	.113	.55	.15	5.4	4.6	4.6
March	23.821	24.189	23.310	26.2	34.8	41.1	21.1	31.1	58	7	15	20	63	59	.088	.113	2.11	.98	4.0	5.5	5.0
April	23.920	24.126	23.547	31.9	50.2	54.7	28.6	41.6	74	9	24	26	72	43	.128	.137	1.49	.48	4.1	6.1	5.1
May	23.940	24.282	23.372	44.5	59.2	65.4	40.2	52.8	82	28	36	35	73	46	.217	.215	2.61	1.26	3.6	6.8	6.3
June	23.987	24.227	23.731	51.8	69.1	74.6	47.3	61.0	92	37	41	40	70	40	.265	.255	1.55	.82	4.2	6.9	6.1
July	24.076	24.342	23.785	54.8	71.2	77.7	49.8	63.8	93	40	42	43	64	40	.269	.278	1.49	.41	4.0	6.2	5.1
August	24.096	24.277	23.891	56.7	72.5	80.5	53.6	67.0	94	47	43	44	64	38	.289	.291	.58	.34	4.4	2.9	5.4
September	24.061	24.303	23.768	43.3	61.9	68.7	39.4	54.0	86	22	30	32	62	37	.166	.186	3.52	2.87	3.4	4.6	4.2
October	24.064	24.260	23.797	40.2	50.8	60.6	35.1	47.8	77	26	27	29	60	45	.143	.160	.52	.26	3.1	3.2	4.6
November	23.925	24.254	23.641	30.8	35.8	47.6	24.1	35.8	67	9	16	19	57	51	.091	.103	.23	.10	4.1	3.1	5.1
December	23.923	24.207	23.518	27.4	28.3	38.7	18.6	28.6	56	5	14	18	59	66	.084	.094	1.79	.70	3.0	4.0	4.7
Year	23.972	24.363	23.302	38.0	49.5	57.4	32.7	45.0	94	−27	26	28	64	49	.158	.169	16.50	2.87	3.8	4.8	5.0

CHICAGO, ILL.

[λ=41° 58′ N.; φ=87° 37′ W.]

January	29.241	29.959	28.801	23.0	27.1	31.1	19.4	25.2	50	− 8	18	21	79	75	.103	.115	.66	.30	5.2	5.0	5.0
February	29.105	29.558	27.855	17.8	22.5	26.3	15.2	20.8	48	− 7	14	19	84	86	.094	.112	1.53	.86	4.2	4.3	4.7
March	29.079	29.616	28.242	35.5	38.9	44.4	32.7	38.6	65	3	31	32	88	78	.185	.195	4.16	2.02	5.7	6.3	6.1
April	29.075	29.414	28.378	42.4	48.6	54.2	38.7	46.4	83	23	34	36	74	64	.204	.225	2.26	1.95	4.6	5.7	5.2
May	29.130	29.442	28.808	55.8	60.3	67.1	50.8	59.0	86	36	49	49	79	69	.366	.375	5.08	1.64	5.6	5.9	4.4
June	29.051	29.301	28.506	61.7	64.2	71.8	56.7	64.2	91	48	55	56	79	77	.474	.464	6.45	1.25	5.2	6.8	5.4
July	29.118	29.371	28.918	69.8	74.3	79.6	65.3	72.4	90	54	64	66	81	77	.595	.653	5.78	1.53	5.4	4.5	4.7
August	29.126	29.351	28.847	65.9	69.5	73.3	63.5	68.4	86	55	59	61	80	76	.509	.547	1.44	.57	5.4	3.9	4.0
September	29.107	29.372	28.092	57.2	62.2	67.6	54.1	60.8	81	42	50	54	80	76	.381	.421	4.83	1.64	5.7	5.8	5.8
October	29.151	29.554	28.610	50.7	57.3	61.8	48.7	55.2	76	35	44	47	90	79	.299	.338	1.45	.71	5.9	4.6	4.4
November	29.129	29.369	28.748	44.8	47.9	53.1	40.8	47.0	70	26	39	40	82	77	.251	.270	2.03	1.22	7.4	6.7	6.1
December	29.175	29.644	28.331	25.0	27.3	31.8	21.2	26.5	50	− 1	22	24	88	84	.126	.132	1.90	.49	7.0	6.9	7.0
Year	29.124	29.959	27.855	45.8	50.0	55.2	42.3	48.7	91	− 8	40	42	81	76	.299	.320	37.57	2.02	5.6	5.5	5.2

CINCINNATI, OHIO.

[λ=39° 6′ N.; φ=84° 30′ W.]

January	29.473	30.170	28.926	27.2	33.5	39.0	24.0	31.5	59	6	21	25	77	70	.116	.135	2.10	.87	6.1	5.1	6.2
February	29.331	29.736	28.232	20.4	27.6	32.1	18.1	25.1	55	0	16	20	82	71	.102	.117	.38	.21	5.4	5.3	5.9
March	29.328	29.831	28.710	40.5	47.9	53.2	36.4	44.8	72	11	32	38	70	68	.190	.244	1.47	.45	7.2	4.9	6.8
April	29.312	29.638	28.955	46.3	57.0	62.1	43.4	52.8	86	26	37	36	72	47	.227	.219	2.87	1.69	4.6	5.2	5.2
May	29.365	29.580	29.121	61.7	71.9	78.0	57.2	67.6	89	41	52	56	71	60	.415	.480	5.54	2.45	4.8	4.0	5.0
June	29.271	29.582	28.792	66.1	75.6	80.7	62.8	71.8	94	52	58	59	76	58	.501	.524	5.25	2.54	5.2	5.8	5.7
July	29.373	29.561	29.190	72.0	81.3	87.0	67.7	77.4	96	59	64	64	76	57	.604	.600	3.47	1.39	3.4	3.6	4.0
August	29.322	29.558	29.121	67.1	78.7	83.7	64.9	74.3	95	55	59	58	76	51	.513	.508	.65	.20	3.6	4.8	4.3
September	29.343	29.684	28.956	59.6	70.0	75.9	57.4	66.6	88	41	54	54	84	61	.435	.447	4.26	1.04	5.9	5.5	5.7
October	29.408	29.823	29.009	51.6	60.9	68.0	49.3	58.6	81	37	46	48	81	64	.317	.346	2.77	1.29	3.8	2.7	4.5
November	29.395	29.694	28.825	47.9	58.9	59.6	45.2	52.4	76	30	42	44	81	70	.274	.296	3.29	.84	7.0	4.3	6.5
December	29.431	29.796	28.568	30.9	34.9	39.9	26.0	33.0	62	7	27	29	85	77	.155	.169	5.25	1.46	8.2	7.5	8.1
Year	29.363	30.170	28.232	49.3	57.8	63.3	46.0	54.7	96	0	42	44	78	63	.321	.340	37.30	2.54	5.4	4.7	5.7

CLEVELAND, OHIO.

[λ=41° 30′ N.; φ=81° 42′ W.]

January	29.265	30.003	28.790	23.6	27.2	31.6	20.8	26.2	47	4	17	20	72	68	.095	.109	1.25	.27	7.7	6.4	7.0
February	29.114	29.587	28.141	18.1	23.6	27.0	15.1	21.0	59	− 4	14	18	83	76	.092	.105	.83	.51	6.9	5.2	7.2
March	29.148	29.548	28.486	35.4	41.5	46.3	32.9	39.6	69	13	30	31	80	68	.178	.188	2.34	.74	6.2	5.6	6.0
April	29.114	29.432	28.547	43.4	47.6	53.1	38.8	46.0	83	28	35	33	74	61	.209	.196	1.85	.92	7.0	5.2	6.7
May	29.213	29.495	28.912	54.6	60.7	66.2	49.1	57.6	88	32	45	47	72	63	.321	.349	3.60	1.36	4.8	4.3	4.7
June	29.107	29.462	28.539	61.4	66.8	72.0	56.9	64.4	87	48	54	55	77	68	.428	.454	9.77	1.92	6.6	6.7	6.0
July	29.195	29.428	28.957	69.2	75.5	79.7	64.7	72.2	91	53	63	64	81	69	.582	.614	5.14	1.15	4.4	4.8	4.4
August	29.178	29.387	28.828	64.1	70.7	74.7	60.4	67.6	88	50	58	60	81	70	.490	.532	1.60	.94	5.2	4.3	5.0
September	29.183	29.481	28.770	58.2	65.6	71.4	54.4	62.9	82	42	54	57	85	75	.423	.471	5.36	1.39	5.2	4.5	5.2
October	29.226	29.685	28.764	49.6	54.8	60.7	46.0	53.4	75	34	43	45	80	70	.290	.307	2.41	.60	6.2	3.8	5.8
November	29.215	29.574	28.620	45.5	49.4	55.3	42.4	48.8	72	28	40	42	81	76	.256	.278	2.07	.60	7.8	5.6	6.8
December	29.227	29.715	28.551	28.2	29.1	34.7	22.9	28.8	55	6	22	23	77	78	.126	.129	3.67	.68	8.6	7.4	8.5
Year	29.182	30.003	28.141	45.9	51.0	56.1	42.0	49.0	91	− 4	40	41	79	70	.291	.311	39.89	1.92	6.4	5.3	6.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

CHEYENNE, WYO.

[H=6,088 ft.; h_t=56 ft.; h_r=49 ft.; h_a=64 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurora.
	Miles.		*Mi.*																								
January	9.3	NW.	42	NW.	1	11	3	0	2	12	6	7	20	1	16	13	2	4	1	4	0	0	11	0	27	0	0
February	12.1	NW.	46	W.	3	5	3	0	0	6	9	14	19	0	10	13	5	8	5	8	0	1	4	0	25	0	0
March	11.8	NW.	46	NW.	6	6	2	2	4	4	5	10	28	0	11	12	8	12	5	10	0	3	4	0	30	2	0
April	10.2	NW.	43	NW.	1	7	1	2	3	9	8	12	18	0	9	15	6	8	7	8	0	1	0	0	18	1	0
May	10.1	NW.	46	W.	1	3	2	6	2	19	4	10	16	0	7	12	12	15	9	1	1	2	0	0	3	5	0
June	10.6	S.	43	S.	1	6	8	4	8	10	6	9	9	0	7	11	12	10	4	0	1	1	0	2	0	10	0
July	8.6	S.	41	W.	1	6	3	2	12	9	3	12	15	0	10	14	7	11	10	0	1	0	0	2	0	17	0
August	9.1	NW.	40	NW.	1	8	3	6	3	11	8	9	14	0	9	15	7	8	3	0	0	0	0	2	0	12	0
September	10.0	NW.	43	NW.	1	10	5	1	3	13	7	6	15	0	14	10	6	5	3	0	0	0	0	0	2	2	0
October	8.4	NW.	30	W.	0	7	5	1	2	6	10	17	14	0	11	10	10	4	3	0	0	0	0	0	9	0	0
November	10.0	W.	39	W.	0	8	0	0	2	6	13	19	12	0	12	10	8	4	3	4	0	0	2	0	25	0	0
December	13.0	NW.	52	W.	4	4	2	1	3	4	12	16	20	0	14	7	10	9	8	9	0	0	8	0	29	0	0
Year	10.3	NW.	52	W.	20	81	37	25	44	109	92	141	200	1	130	142	93	98	61	44	3	8	29	6	168	49	0

CHICAGO, ILL.

[H=823 ft.; h_t=241 ft.; h_r=238 ft.; h_a=274 ft.]

January	17.1	W.	48	S.	5	4	5	2	5	4	12	14	16	0	10	14	7	8	5	8	0	0	14	0	29	0	0
February	15.3	W.	50	W.	2	2	9	1	8	4	6	11	15	0	12	9	7	15	8	13	0	1	21	0	23	0	0
March	18.8	S.	57	W.	6	4	11	6	7	11	9	5	9	0	6	13	12	12	8	4	0	3	5	0	29	1	0
April	17.8	NW.	70	SW.	6	9	9	3	4	5	8	11	11	0	10	12	8	6	4	1	0	0	0	0	4	1	0
May	16.6	NE.	54	NE.	7	5	13	7	8	13	7	4	5	0	10	19	2	11	11	0	0	0	0	0	0	14	0
June	15.1	NE.	45	NE.	5	7	13	6	7	7	10	5	5	0	7	16	7	16	14	0	0	0	0	1	0	10	0
July	18.8	SW.	69	SW.	5	2	13	4	4	7	19	10	3	0	12	18	6	17	15	0	1	0	0	0	0	9	0
August	13.2	NE.	47	S.	1	7	18	6	7	12	7	3	2	0	15	10	6	7	7	0	0	0	0	0	0	4	0
September	16.4	S.	52	SW.	4	8	7	6	6	11	9	7	6	0	9	8	13	9	7	0	0	1	0	0	0	2	0
October	17.7	W.	58	S.	8	4	10	3	7	6	14	14	4	0	14	10	7	7	6	0	0	0	0	0	0	3	0
November	18.9	SW.	52	SW.	5	4	8	3	1	12	17	7	8	0	8	18	9	11	9	1	0	1	0	0	6	0	0
December	20.8	W.	58	NE.	9	4	10	3	5	7	13	14	6	0	7	8	16	14	9	10	0	2	13	0	25	0	0
Year	16.8	NE.	70	SW.	63	60	126	50	69	99	131	105	90	0	120	145	100	133	103	37	1	8	53	1	96	44	0

CINCINNATI, OHIO.

[H=628 ft.; h_t=152 ft.; h_r=145 ft.; h_a=160 ft.]

January	8.5	NW.	29	NW.	0	7	5	5	11	4	10	6	14	0	10	6	15	7	6	5	0	1	7	0	28	0	0
February	9.8	NW.	39	SW.	0	4	8	6	8	0	8	10	12	0	9	9	10	7	3	5	0	3	16	0	23	1	0
March	9.6	SE.	39	NW.	0	3	11	4	16	2	10	4	12	0	5	10	16	15	9	6	0	0	2	0	10	1	0
April	9.4	NW.	44	SW.	1	9	9	2	6	0	9	8	17	0	8	14	8	9	8	0	0	2	0	0	3	3	0
May	7.4	SW.	45	N.	1	3	8	4	14	6	12	6	9	0	9	17	5	8	7	0	0	0	0	0	0	7	0
June	7.1	SE.	36	W.	0	6	3	5	16	2	11	8	8	1	7	11	12	15	12	0	2	0	0	4	0	14	0
July	6.0	SW.	30	W.	0	3	5	5	11	4	15	11	7	1	14	12	5	7	6	0	1	0	0	12	0	8	0
August	6.2	NE.	28	W.	0	5	19	9	4	2	9	6	8	0	15	12	4	6	4	0	0	0	0	5	0	4	0
September	5.6	SE.	28	W.	0	4	5	7	16	3	3	16	4	2	9	7	14	11	9	0	0	0	0	0	0	1	0
October	6.3	SW.	36	SW.	0	3	11	3	17	4	12	3	9	0	15	9	7	9	7	0	0	2	0	0	0	2	0
November	6.3	SE.	26	SW.	0	4	10	4	22	1	10	5	4	0	6	11	13	14	10	2	0	1	0	0	2	0	0
December	9.0	SW.	36	SW.	0	2	6	2	15	2	13	13	9	0	2	9	20	17	11	5	0	3	8	0	23	0	0
Year	7.6	SE.	45	N.	2	58	100	56	156	30	122	96	113	4	109	127	129	125	92	23	3	12	33	21	89	41	0

CLEVELAND, OHIO.

[H=762 ft.; h_t=190 ft.; h_r=163 ft.; h_a=201 ft.]

January	18.2	W.	54	W.	9	4	5	4	10	8	8	12	11	0	6	10	15	13	9	13	0	0	15	0	30	0	0
February	15.8	SW.	64	SE.	4	12	2	1	10	3	12	9	7	0	2	11	15	13	5	11	0	2	22	0	25	0	0
March	17.8	SE.	56	SW.	5	5	7	1	17	9	6	12	5	0	11	3	17	12	7	3	0	0	6	0	14	1	0
April	16.4	W.	56	N.	9	4	4	3	11	7	7	17	6	1	8	6	16	14	6	2	0	1	0	0	6	2	0
May	13.7	N.	58	W.	4	7	14	2	11	6	8	8	6	0	11	12	8	13	9	1	0	0	0	0	0	4	0
June	13.6	SE.	54	NE.	7	6	10	1	8	13	6	9	7	0	6	17	7	20	17	0	0	0	0	0	0	10	0
July	11.8	S.	48	NW.	3	9	2	1	9	17	8	6	10	0	15	10	6	14	13	0	0	0	0	3	0	14	0
August	11.1	N.	39	W.	0	12	7	3	10	10	2	4	14	0	11	14	6	10	6	0	0	0	0	0	0	4	0
September	12.7	SE.	48	NW.	3	2	10	0	22	9	7	8	7	0	11	9	10	15	13	0	0	2	0	0	0	2	0
October	15.3	SW.	48	W.	5	3	8	4	11	17	11	3	5	0	8	11	12	14	11	0	0	0	0	0	0	3	0
November	15.6	S.	48	NW.	2	3	7	3	16	14	7	7	3	0	6	8	16	10	9	1	0	0	0	0	4	0	0
December	18.3	SW.	50	W.	4	4	9	3	12	8	19	5	2	0	2	7	22	21	16	13	0	0	12	0	26	0	0
Year	15.0	SE.	64	SE.	55	71	85	26	147	121	101	95	83	1	97	118	150	169	121	44	0	5	55	3	105	40	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

COLUMBIA, MO.[a]

[λ=38° 57′ N.; φ=92° 14′ W.]

Month.	Pressure.			Temperature.							Moisture.											
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.340	29.903	28.858	.....	30.1	38.4	19.9	29.2	63	—9	....	20	....	66	.....	.115	1.04	.55	.....	3.5	5.3
February	29.203	29.645	28.071	.....	25.5	31.4	12.8	22.1	60	—11	....	19	....	76	.....	.111	.90	.41	.....	5.4	6.5
March	29.133	29.702	28.671	.....	46.5	53.4	35.5	44.4	74	12	....	36	....	68	.....	.228	3.58	1.62	.....	5.3	6.3
April	29.149	29.356	28.632	.....	57.5	64.8	41.4	53.1	88	26	....	40	....	55	.....	.267	3.42	1.09	.....	4.9	5.3
May	29.121	29.273	28.734	.....	72.6	79.1	58.5	68.8	92	46	....	62	....	69	.....	.558	4.33	3.19	.....	5.9	5.9
June	29.091	29.320	28.846	.....	72.9	79.0	60.6	69.8	94	43	....	63	....	73	.....	.591	7.56	.95	.....	5.8	6.4
July	29.166	29.359	29.000	.....	79.8	86.6	66.6	76.6	94	55	....	69	....	70	.....	.711	7.66	3.26	.....	3.6	4.7
August	29.142	29.305	28.917	.....	75.8	83.2	64.0	73.6	93	52	....	67	....	75	.....	.674	6.64	3.40	.....	4.2	5.7
September	29.165	29.443	28.838	.....	63.0	73.5	51.4	62.4	85	33	....	54	....	74	.....	.432	2.60	1.03	.....	4.6	4.8
October	29.178	29.452	28.669	.....	60.2	71.1	47.9	59.5	82	28	....	47	....	64	.....	.331	2.52	.87	.....	2.8	3.5
November	29.175	29.438	28.819	.....	50.7	59.2	42.0	50.6	79	25	....	42	....	74	.....	.293	2.89	.92	.....	6.5	6.9
December	29.247	29.804	28.310	.....	31.2	36.5	23.5	30.0	57	0	....	26	....	81	.....	.146	2.20	.55	.....	6.1	6.4
Year	29.175	29.903	28.071	.....	55.5	63.0	43.7	53.3	94	—11	....	45	....	70	.....	.371	44.34	3.40	.....	4.9	5.6

COLUMBIA, S. C.

[λ=34° 0′ N.; φ=81° 3′ W.]

January	29.772	30.196	29.226	36.3	45.3	52.6	33.6	43.1	71	20	29	30	75	58	.170	.183	1.85	1.21	4.8	3.8	5.5
February	29.556	29.948	28.900	34.9	43.7	49.1	32.8	41.0	72	21	28	32	74	64	.164	.193	5.12	1.39	6.9	3.9	5.8
March	29.661	30.067	29.236	48.1	57.5	64.5	44.7	54.6	79	25	42	45	78	64	.284	.311	4.16	1.96	4.6	3.7	5.5
April	29.633	29.828	29.347	54.7	63.7	71.2	50.7	61.0	86	35	49	51	80	65	.359	.382	3.23	.91	4.8	4.9	4.9
May	29.679	29.942	29.431	68.0	74.4	84.3	64.0	74.2	94	52	59	59	75	62	.522	.515	3.33	.97	5.3	5.5	4.7
June	29.597	30.011	29.217	73.2	79.9	88.6	68.1	78.4	98	60	65	65	76	64	.618	.636	4.43	2.39	4.7	4.7	4.5
July	29.684	29.850	29.542	76.2	82.4	92.2	72.4	82.3	101	65	68	68	76	64	.685	.688	2.78	2.17	4.4	5.0	4.7
August	29.612	29.838	29.409	73.5	78.4	88.0	69.0	78.5	99	63	68	69	83	75	.690	.723	7.14	2.76	5.4	5.6	5.7
September	29.663	29.859	29.338	66.9	73.9	81.3	63.6	72.4	90	54	62	62	83	69	.564	.577	2.86	1.50	5.9	4.6	5.3
October	29.704	30.165	29.305	58.2	67.6	75.3	54.9	65.1	84	40	52	54	81	63	.414	.429	4.39	1.44	4.7	3.7	4.5
November	29.721	30.048	29.208	52.9	62.0	68.9	50.2	59.6	80	30	49	51	86	68	.362	.390	3.31	1.06	4.8	4.0	5.6
December	29.752	30.123	29.037	40.4	49.3	56.0	38.6	47.3	71	18	35	39	79	69	.217	.256	3.60	1.52	6.5	4.1	5.9
Year	29.670	30.196	28.900	56.9	64.8	72.7	53.6	63.1	101	18	50	52	79	65	.421	.440	46.20	2.76	5.2	4.5	5.2

COLUMBUS, OHIO.

[λ=39° 58′ N.; φ=83° 00′ W.]

January	29.234	29.943	28.779	24.1	30.1	36.0	21.6	28.8	55	4	20	22	82	70	.107	.120	1.56	.70	6.8	4.5	6.6
February	29.088	29.619	28.065	18.7	25.6	30.6	15.8	23.2	57	— 4	16	20	87	77	.099	.116	.51	.21	6.6	5.1	6.8
March	29.108	29.549	28.497	36.5	45.5	51.5	33.9	42.7	69	11	31	31	80	58	.184	.190	2.63	.87	6.5	4.6	6.9
April	29.088	29.419	28.643	44.0	52.8	60.0	40.2	50.1	85	24	36	36	75	56	.223	.224	1.60	.46	5.9	5.9	6.0
May	29.156	29.408	28.947	58.8	67.9	76.6	53.5	65.0	92	37	51	50	76	54	.399	.384	.95	.59	5.0	6.2	5.7
June	29.071	29.415	28.552	63.2	72.0	78.1	58.3	68.2	94	46	56	57	78	61	.464	.482	8.52	3.54	5.7	6.4	6.1
July	29.165	29.366	28.958	70.1	78.2	85.5	64.8	75.2	95	54	64	62	81	59	.605	.566	4.70	2.28	4.5	4.7	5.3
August	29.125	29.337	28.881	64.1	74.1	81.0	60.3	70.6	92	49	59	58	83	59	.503	.502	1.62	.88	5.1	4.7	6.2
September	29.141	29.460	28.770	58.0	67.8	74.9	55.4	65.2	86	38	52	57	82	71	.411	.476	4.16	1.25	6.3	4.6	5.7
October	29.198	29.632	28.798	49.3	57.4	65.7	46.6	56.2	78	35	44	46	83	67	.302	.322	1.85	1.34	5.2	2.5	5.4
November	29.186	29.506	28.594	45.6	50.8	57.2	42.5	49.8	72	28	41	42	84	73	.264	.273	2.72	.81	8.1	4.3	6.9
December	29.204	29.594	28.422	29.2	30.9	37.3	24.1	30.7	55	7	25	26	84	81	.145	.145	3.41	.93	8.7	7.6	7.8
Year	29.147	29.943	28.065	46.8	54.4	61.2	43.1	52.1	95	— 4	41	42	81	66	.309	.317	34.23	3.54	6.2	5.1	6.3

CONCORD, N. H.[a]

[λ=43° 12′ N.; φ=71° 32′ W.]

January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
September	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
November	29.752	30.176	29.199	34.7	.....	51.2	30.9	41.0	66	22	30	.....	84	.....	.172	.....	.97	.25	5.6	.....	5.8
December	29.723	30.369	29.302	18.9	.....	31.1	12.9	22.0	48	—12	14	.....	82	.....	.092	.....	5.87	1.70	6.1	.....	5.4
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

COLUMBIA, MO.

[H=784 ft.; h_t=11 ft.; h_r=8 ft.; h_a=84 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature low 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.4	NW.	30	NW.	0	2	6	1	4	4	4	3	7	0	10	12	9	4	4	4	0	0	10	0	28	0	0
February	8.4	NW.	32	NW.	0	5	3	4	2	1	1	4	8	0	7	6	15	6	5	3	0	0	17	0	25	0	0
March	11.3	SE.	40	NW.	1	3	3	2	9	2	2	3	7	0	11	2	18	13	9	3	0	1	2	0	13	2	0
April	10.4	NW.	48	W.	3	2	5	4	2	3	5	3	6	0	10	9	11	8	7	0	0	0	0	0	3	4	0
May	7.8	S.	32	SW.	0	1	5	4	6	10	2	1	2	0	6	14	11	11	10	0	2	0	0	2	0	13	0
June	7.4	S.	26	SW.	0	5	4	3	6	4	5	0	3	0	7	9	14	14	10	0	1	0	0	4	0	15	0
July	6.3	S.	34	NE.	0	0	1	2	8	9	6	2	3	0	9	17	5	7	7	0	0	1	0	7	0	10	0
August	6.6	E.	39	NW.	0	3	6	4	6	2	7	1	2	0	9	14	8	11	10	0	0	0	0	5	0	13	0
September	7.1	SE.	36	W.	0	6	2	1	10	6	1	2	2	0	13	8	9	13	9	0	0	0	0	0	0	5	0
October	7.8	S.	25	NW.	0	1	3	5	4	7	5	1	5	0	19	6	6	8	6	0	1	0	0	0	1	2	0
November	8.6	S.	34	SW.	0	5	2	3	6	9	1	4	0	0	5	10	15	9	9	0	0	0	0	0	6	1	0
December	9.2	SW.	32	NW.	0	8	1	3	5	3	5	3	3	0	11	2	18	13	9	2	0	0	8	0	25	0	0
Year	8.3	S.	48	W.	4	41	41	36	68	60	44	27	48	0	117	109	139	117	95	12	4	2	37	18	101	65	0

COLUMBIA, S. C.

[H = 351 ft.; h_t = 114 ft.; h_r = 107 ft.; h_a = 122 ft.]

January	8.6	SW.	35	SW.	0	4	16	3	4	2	18	6	9	0	11	8	12	9	6	0	0	4	0	0	11	0	0
February	9.2	W.	52	SW.	3	5	11	2	4	2	5	18	9	0	7	11	10	10	7	1	0	1	0	0	16	2	0
March	10.1	SE.	41	SW.	3	4	6	10	13	2	9	10	7	1	9	12	10	11	8	0	0	3	0	0	2	2	0
April	9.1	SW.	38	NW.	0	7	4	8	6	7	10	9	9	0	11	11	8	13	11	0	1	0	0	0	0	6	0
May	7.2	SE.	44	SW.	1	6	12	6	13	8	10	5	2	0	12	16	3	13	10	0	0	0	0	6	0	9	0
June	8.5	SW.	42	W.	1	3	9	10	12	5	18	1	2	0	12	15	3	10	7	0	0	0	0	12	0	7	0
July	7.0	SW.	26	SW.	0	5	11	5	8	7	17	5	4	0	11	14	6	10	9	0	0	0	0	20	0	12	0
August	6.3	NE.	42	NE.	1	2	16	7	14	6	11	2	3	1	7	16	8	16	13	0	1	0	0	15	0	15	0
September	7.2	NE.	53	SW.	1	6	18	6	17	2	4	5	2	0	8	14	8	10	8	0	0	2	0	1	0	2	0
October	7.3	NE.	41	SW.	1	6	22	6	6	2	7	1	11	1	14	9	8	7	6	0	0	0	0	0	0	0	0
November	7.2	NE.	39	SW.	0	11	16	4	11	5	6	3	3	1	12	6	12	9	8	0	0	2	0	0	1	1	0
December	8.0	NE.	48	SW.	1	5	16	5	6	3	11	7	9	0	9	9	13	8	5	0	0	3	0	0	6	0	0
Year	8.0	NE.	53	SW.	12	64	157	72	114	51	126	72	70	4	123	141	101	126	98	1	2	15	0	54	36	56	0

COLUMBUS, OHIO.

[H=824 ft.; h_t=173 ft.; h_r=171 ft.; h_a=190 ft.]

January	8.9	NW.	27	NW.	0	5	6	8	2	11	9	9	12	0	9	4	18	8	6	8	0	0	7	0	30	0	0
February	8.8	W.	38	SW.	0	6	10	2	6	2	6	16	8	0	7	5	16	8	4	6	0	3	18	0	24	1	0
March	10.0	W.	36	SW.	0	9	6	7	9	6	6	12	7	0	5	10	16	12	11	3	1	0	2	0	13	3	0
April	9.3	W.	40	W.	1	3	7	4	5	7	7	16	11	0	9	7	14	10	6	1	0	1	0	0	4	1	0
May	8.1	SW.	30	W.	0	2	9	11	6	7	9	13	5	0	8	13	10	8	4	0	0	0	0	3	0	4	0
June	11.3	SW.	48	SW.	4	4	6	4	8	11	14	6	7	0	6	15	9	13	11	0	1	0	0	3	0	10	0
July	9.6	SW.	49	W.	1	9	5	2	2	9	21	10	4	0	9	12	10	12	10	0	0	1	0	10	0	7	0
August	8.7	NE.	32	NW.	0	11	17	8	3	6	7	3	7	0	5	16	10	7	6	0	0	0	0	2	0	3	0
September	8.6	SE.	42	NW.	1	3	2	5	19	5	12	4	10	0	11	7	12	12	10	0	1	0	0	0	0	4	0
October	10.6	SW.	44	W.	1	4	6	9	5	7	22	5	4	0	10	12	9	7	4	0	0	3	0	0	0	2	0
November	10.9	SW.	36	NW.	0	4	5	6	8	8	17	7	5	0	6	8	16	12	8	1	0	0	0	0	4	0	0
December	14.1	SW.	42	SW.	2	4	5	5	8	9	16	12	3	0	3	8	20	17	11	8	1	1	1	0	25	0	0
Year	9.9	SW.	49	W.	10	64	84	71	81	88	146	113	83	0	88	117	160	126	91	27	4	9	36	18	100	35	0

CONCORD, N. H.

[H=298 ft.; h_t=70 ft.; h_r=62 ft.; h_a=79 ft.]

January																											
February																											
March																											
April																											
May																											
June																											
July																											
August																											
September																											
October																											
November	4.6	NW.	24	NW.	0	4	5	3	2	4	4	3	5	0	7	12	11	9	6	1	0	10	0	0	19	0	0
December	6.0	NW.	28	NW.	0	4	5	2	1	3	3	4	9	0	12	9	10	18	16	15	0	0	14	0	28	0	0
Year																											

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902.

CONCORDIA, KANS.

[λ=39° 35′ N.; φ=97° 41′ W.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	28.686	29.148	28.164	20.2	30.9	39.1	18.1	28.6	67	−14	16	24	83	74	.095	.133	.77	.30	4.0	3.9	3.9
February	28.554	29.026	27.654	17.2	26.1	31.9	15.3	23.3	60	−10	14	21	88	82	.092	.124	.19	.12	6.1	5.3	5.3
March	28.419	29.034	27.849	36.1	49.3	56.3	34.9	45.6	82	6	30	34	78	58	.176	.211	.30	.18	5.1	4.9	5.1
April	28.494	28.861	27.858	44.8	61.4	66.7	41.5	54.1	100	27	36	39	72	47	.217	.247	.44	.34	5.3	4.8	5.3
May	28.425	28.774	27.910	61.2	72.1	77.2	58.4	67.8	94	44	55	56	82	60	.448	.456	3.31	2.18	7.5	5.7	6.6
June	28.417	28.812	28.091	62.7	73.4	78.0	60.0	69.0	98	45	58	60	86	66	.492	.535	7.34	1.94	6.3	5.4	5.8
July	28.486	28.883	28.133	69.2	81.1	86.5	65.9	76.2	96	52	64	66	84	62	.605	.651	4.37	1.36	4.6	3.8	4.6
August	28.477	28.814	28.111	68.5	80.8	87.0	66.2	76.6	104	47	63	65	83	63	.577	.634	5.22	.97	6.3	4.8	5.2
September	28.503	28.891	28.137	55.6	65.4	73.7	52.3	63.0	90	36	49	52	79	65	.364	.400	3.14	1.15	4.0	4.4	3.9
October	28.534	28.782	28.109	48.5	60.4	70.4	47.2	58.8	83	28	44	51	85	72	298	.382	3.25	1.54	3.4	3.4	3.8
November	28.522	28.803	28.162	38.4	44.3	53.1	35.3	44.2	75	19	35	39	86	81	.217	.247	1.14	.54	6.5	4.3	5.8
December	28.612	29.120	27.877	20.6	26.4	32.0	17.9	25.0	57	0	17	22	86	81	.098	.118	.75	.56	6.5	5.8	6.4
Year	28.511	29.148	27.654	45.2	56.0	62.7	42.8	52.7	104	−14	40	44	83	68	.307	.345	35.22	2.18	5.5	4.7	5.2

CORPUS CHRISTI, TEX.

[λ=27° 49′ N.; φ=97° 25′ W.]

January	30.132	30.425	29.726	51.4	56.1	61.1	48.4	54.8	79	28	48	48	88	78	.347	.363	2.14	1.89	5.2	3.7	5.0
February	29.976	30.394	29.314	50.8	58.2	63.3	48.4	56.2	85	35	45	47	83	71	.325	.343	2.07	1.02	4.4	4.1	4.6
March	29.927	30.409	29.488	61.6	67.5	72.5	60.3	66.4	85	44	53	54	77	68	.442	.464	.18	.04	4.4	2.6	3.6
April	29.923	30.230	29.665	68.6	72.0	75.9	67.4	71.6	81	53	65	66	88	82	.627	.643	.41	.29	6.6	5.1	4.7
May	29.872	30.039	29.259	75.7	78.6	82.0	74.0	78.0	87	63	71	72	86	81	.767	.795	3.05	1.63	6.3	5.4	5.1
June	29.849	30.018	29.591	79.3	82.0	86.3	77.3	81.8	95	72	73	74	81	76	.809	.828	1.44	1.42	3.3	2.6	3.4
July	29.958	30.089	29.771	80.2	83.2	86.9	78.5	82.7	90	76	75	75	84	76	.856	.865	.49	.18	4.0	3.7	4.4
August	29.932	30.063	29.815	79.1	83.5	88.7	77.5	83.1	92	73	76	76	89	77	.888	.897	T.	T.	1.6	1.7	2.2
September	29.900	30.218	29.744	76.2	81.6	86.5	74.1	80.3	92	61	72	73	88	76	.803	.818	3.63	2.49	4.9	2.8	4.5
October	29.995	30.192	29.740	69.7	76.5	81.4	68.3	74.8	89	59	64	65	83	68	.614	.628	1.93	1.01	2.5	1.7	3.3
November	29.963	30.262	29.546	66.7	70.2	75.3	63.6	69.4	84	41	63	64	87	81	.597	.620	3.91	1.66	5.7	4.3	5.4
December	30.090	30.455	29.686	55.3	60.8	65.5	52.6	59.0	80	36	50	52	84	76	.390	.426	2.34	1.39	6.1	5.1	6.2
Year	29.960	30.455	29.259	67.9	72.6	77.2	65.9	71.5	95	28	63	64	85	76	.622	.641	21.59	2.49	4.6	3.6	4.4

DAVENPORT, IOWA.

[λ=41° 30′ N.; φ=90° 38′ W.

January	29.496	30.191	28.965	18.7	26.3	32.5	15.5	24.0	52	−13	16	18	88	70	.096	.104	.60	.38	4.1	2.8	4.5
February	29.364	29.795	28.041	11.4	21.4	26.1	8.8	17.4	52	− 8	10	16	92	80	.076	.097	.96	.60	5.3	3.5	5.2
March	29.289	29.886	28.446	35.2	42.5	48.0	32.5	40.2	66	0	30	32	80	66	.176	.198	1.76	.99	6.8	6.9	7.0
April	29.301	29.633	28.606	42.0	55.1	60.1	38.9	49.5	86	25	34	34	73	46	.205	.204	1.40	.88	4.5	3.6	4.4
May	29.315	29.645	28.939	59.5	70.0	74.3	55.6	65.0	90	40	52	55	78	61	.418	.454	4.57	1.16	5.3	5.8	5.2
June	29.254	29.548	28.735	62.8	69.2	74.6	58.0	66.3	90	46	57	57	82	66	.480	.478	7.55	1.51	5.8	6.2	5.8
July	29.316	29.631	29.103	69.4	78.5	83.7	66.2	75.0	92	53	64	66	85	66	.611	.641	6.38	2.45	5.0	3.2	4.1
August	29.325	29.541	29.050	64.9	73.7	78.9	61.9	70.4	90	51	60	62	86	68	.534	.565	7.25	2.86	6.0	5.0	5.3
September	29.317	29.652	28.874	55.5	63.3	69.9	52.0	61.0	83	36	51	53	87	70	.394	.411	3.20	1.33	4.5	4.9	5.4
October	29.358	29.690	28.747	48.3	57.8	65.4	46.3	55.8	78	33	44	45	84	64	.290	.318	2.81	1.48	4.5	3.2	4.3
November	29.337	29.559	29.049	43.3	47.2	54.0	39.0	46.5	72	25	40	40	89	76	.264	.263	1.95	1.12	6.7	5.0	6.0
December	29.427	29.999	28.585	20.5	25.8	30.5	18.0	24.2	49	− 7	18	21	88	81	.107	.119	1.88	.59	5.7	6.9	6.9
Year	29.342	30.191	28.041	44.3	52.6	58.2	41.1	49.6	92	−13	40	42	84	68	.304	.321	40.31	2.86	5.4	4.8	5.3

DENVER, COLO.

[λ=39° 45′ N.; φ=105° 0′ W.]

January	24.747	25.148	24.253	18.8	34.0	42.8	15.1	29.0	66	−20	10	17	70	54	.073	.097	.17	.08	1.6	2.1	2.8
February	24.610	24.900	24.079	29.0	41.7	49.6	24.4	37.0	66	−10	20	22	69	48	.109	.119	.38	.16	5.0	4.1	4.9
March	24.556	25.003	24.021	29.0	44.3	49.9	26.2	38.0	67	12	17	20	59	39	.097	.112	.63	.42	3.6	5.8	4.8
April	24.641	24.853	24.173	37.0	58.6	63.3	35.6	49.4	85	18	25	26	62	34	.139	.140	.60	.40	4.8	5.4	5.2
May	24.643	24.986	24.106	48.9	66.6	73.3	46.5	59.9	87	35	42	37	78	39	.274	.230	1.98	1.05	3.5	5.8	4.9
June	24.689	24.971	24.407	55.5	75.6	81.7	53.2	67.4	98	43	48	40	77	34	.345	.260	1.89	1.16	3.0	6.0	4.9
July	24.770	25.070	24.426	57.3	78.6	84.7	55.7	70.2	100	46	45	40	65	30	.301	.254	1.24	1.08	2.2	5.7	5.1
August	24.785	24.988	24.514	59.5	78.9	86.7	58.0	72.4	100	52	48	44	68	33	.342	.300	.76	.21	3.6	6.0	5.5
September	24.769	25.052	24.424	48.5	68.9	75.9	46.0	61.0	93	31	38	36	68	34	.230	.219	3.70	2.70	3.3	3.9	4.0
October	24.777	24.970	24.502	42.0	59.0	66.1	39.8	53.0	81	31	30	31	63	38	.165	.174	.80	.36	3.9	3.8	4.2
November	24.653	25.018	24.342	33.8	43.9	52.9	29.4	41.2	74	13	21	23	62	46	.112	.124	.61	.31	3.1	4.1	4.7
December	24.666	24.975	24.241	27.2	33.4	45.0	21.5	33.2	65	8	15	20	61	57	.085	.104	.59	.36	3.1	4.6	4.2
Year	24.692	25.148	24.021	40.5	57.0	64.3	37.6	51.0	100	−20	30	30	67	40	.189	.178	13.35	2.70	3.4	4.8	4.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902.

CONCORDIA, KANS.

[H=1,398 ft.; h_t=42 ft.; h_r=34 ft.; h_a=47 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.4	S.	28	S.	0	11	3	2	8	14	6	8	4	6	17	6	8	6	5	6	0	0	11	0	29	0	0
February	6.6	N.	30	S.	0	11	6	5	9	5	6	3	7	4	7	11	10	4	2	3	0	0	17	0	24	0	0
March	11.9	S.	42	S.	1	8	1	6	9	18	0	8	10	2	9	13	9	4	4	0	1	0	1	0	12	1	0
April	9.0	S.	38	S.	0	8	3	9	8	12	6	4	5	5	11	10	9	5	2	0	1	0	0	1	3	3	0
May	8.4	S.	32	S.	0	3	5	12	7	26	0	0	6	3	5	15	11	13	12	0	0	0	0	2	0	6	0
June	7.9	S.	42	N.	1	7	8	6	9	19	0	2	3	6	8	13	9	13	10	0	0	0	0	3	0	14	0
July	8.2	S.	30	S.	0	5	1	4	12	31	2	3	3	1	11	16	4	14	11	0	0	0	0	6	0	11	0
August	6.9	S.	30	N.	0	8	3	12	14	18	2	1	2	2	12	11	8	16	15	0	0	0	0	11	0	13	0
September	8.5	S.	27	NW.	0	11	0	4	9	21	1	4	5	5	16	6	8	9	7	0	0	0	0	0	0	3	0
October	7.3	S.	24	S.	0	6	3	3	6	24	1	6	6	7	15	11	5	5	5	0	0	1	0	0	1	2	0
November	7.6	S.	30	S.	0	13	3	2	5	20	2	2	9	4	9	6	15	8	4	3	0	0	0	0	10	1	0
December	6.9	S.	24	NW.	0	10	6	3	3	14	2	9	10	5	9	5	17	7	4	6	0	1	16	0	30	0	0
Year	8.0	S.	42	S.	2	101	42	68	99	222	28	50	70	50	129	123	113	104	81	18	2	2	45	23	109	54	0

CORPUS CHRISTI, TEX.

[H=20 ft.; h_t=48 ft.; h_r=38 ft.; h_a=53 ft.]

January	9.2	N.	34	N.	0	24	5	9	10	5	1	1	7	0	9	14	8	7	4	0	0	1	0	0	2	0	0
February	10.1	SE.	42	NW.	1	10	9	4	14	6	2	3	8	0	12	9	7	9	7	0	1	2	0	0	0	1	0
March	12.4	SE.	36	NW.	0	7	9	12	19	4	3	4	4	0	15	12	4	8	1	0	0	5	0	0	0	1	0
April	13.8	SE.	32	SE.	0	5	5	10	34	4	1	0	1	0	6	19	5	4	4	0	0	0	0	0	0	2	0
May	14.7	SE.	39	SE.	0	2	4	4	47	4	0	0	0	1	9	16	6	5	4	0	0	1	0	0	0	5	0
June	14.2	SE.	36	NW.	0	1	0	8	41	7	2	0	1	0	20	8	2	3	2	0	0	0	0	2	0	1	0
July	13.7	SE.	27	SE.	0	0	0	2	50	10	0	0	0	0	10	19	2	7	5	0	0	0	0	0	0	3	0
August	11.8	SE.	29	SE.	0	0	0	2	49	10	0	0	0	1	26	5	0	0	0	0	0	0	0	5	0	0	0
September	10.0	SE.	37	N.	0	10	4	8	28	7	0	3	0	0	11	13	6	8	5	0	0	0	0	3	0	8	0
October	9.1	E.	31	E.	0	10	9	20	12	3	4	3	1	0	17	13	1	5	5	0	0	3	0	0	0	3	0
November	10.5	SE.	36	N.	0	7	3	9	27	4	0	3	7	0	9	12	9	7	6	0	0	1	0	0	0	4	0
December	9.2	N.	36	NW.	0	19	9	4	15	7	2	0	6	0	8	12	11	8	4	0	0	4	0	0	0	1	0
Year	11.6	SE.	42	NW.	1	95	57	92	346	71	15	17	35	2	152	152	61	71	47	0	2	16	0	10	2	29	0

DAVENPORT, IOWA.

[H=606 ft.; h_t=71 ft.; h_r=64 ft.; h_a=79 ft.]

January	7.4	W.	27	NW.	0	1	6	2	2	8	11	20	12	0	15	8	8	6	4	6	0	0	15	0	29	0	0
February	6.9	W.	24	W.	0	2	9	5	4	3	3	22	7	1	11	8	9	7	4	5	0	1	20	0	25	0	0
March	9.9	W.	38	W.	0	4	5	12	11	4	3	19	4	0	3	12	16	8	5	1	1	1	3	0	11	0	0
April	9.3	W.	40	S.	1	2	6	7	7	7	6	20	5	0	15	11	4	7	6	0	0	0	0	0	6	2	0
May	8.8	E.	26	W.	0	3	8	13	11	8	6	10	3	0	14	6	11	12	9	0	1	0	0	0	0	11	0
June	7.3	NW.	34	SW.	0	6	8	8	3	6	8	9	12	0	8	14	8	18	16	0	1	0	0	1	0	10	0
July	6.2	SW.	33	N.	0	7	8	3	4	17	15	3	5	0	16	9	6	15	12	0	0	0	0	3	0	14	0
August	6.0	E.	21	SE.	0	2	18	12	8	2	4	8	8	0	12	8	11	12	11	0	0	0	0	1	0	6	0
September	7.4	W.	24	SW.	0	2	8	6	9	9	8	11	7	0	10	7	13	10	9	0	0	1	0	0	0	2	0
October	7.4	W.	30	S.	0	4	4	13	3	5	14	13	5	1	13	11	7	7	5	0	0	2	0	0	0	4	0
November	7.5	S.	30	SW.	0	5	7	3	6	11	12	10	6	0	8	9	13	8	6	1	0	0	8	0	8	0	0
December	8.6	W	32	W.	0	8	6	8	4	8	7	16	5	0	9	3	19	9	7	7	0	0	15	0	26	0	0
Year	7.7	W.	40	S.	1	46	93	92	72	88	97	161	79	2	134	106	125	119	94	20	3	6	53	5	105	49	0

DENVER, COLO.

[H=5,291 ft.; h_t=79 ft.; h_r=74 ft.; h_a=151 ft.]

January	7.0	SW.	34	N.	0	8	16	8	3	2	21	1	3	0	21	7	3	4	2	4	0	1	8	0	29	0	0
February	8.1	SW.	50	NW.	2	11	15	5	2	2	15	1	5	0	11	11	6	5	4	5	0	1	2	0	20	1	0
March	9.5	N.	54	NW.	4	14	10	4	2	7	16	4	5	0	11	12	8	6	5	5	0	1	1	0	25	1	0
April	7.8	NE.	42	NE.	1	16	10	7	6	4	12	3	2	0	9	12	9	8	4	4	0	1	0	0	10	1	0
May	8.0	SW.	68	NW.	1	7	8	8	5	10	17	7	0	0	11	13	7	10	7	0	1	0	0	0	0	8	0
June	8.7	SW.	36	SW.	0	8	11	2	5	6	24	1	3	0	11	13	6	6	6	0	1	0	0	7	0	8	0
July	7.8	SW.	45	NW.	2	7	9	5	8	3	22	4	4	0	8	17	6	5	4	0	1	0	0	8	0	4	0
August	7.6	S.	52	N.	3	6	7	11	5	18	8	5	2	0	8	16	7	8	5	0	1	2	0	10	0	18	0
September	7.7	S.	40	NW.	1	9	11	4	6	16	6	3	5	0	16	8	6	4	4	0	3	0	0	2	1	1	0
October	7.0	S.	36	NW.	0	4	14	12	4	22	4	0	2	0	16	10	5	6	6	0	0	0	0	0	1	2	0
November	7.2	S.	45	NW.	2	6	12	3	4	15	9	2	9	0	11	13	6	3	2	1	0	0	0	0	19	0	0
December	8.6	S.	45	NW.	1	8	12	2	0	24	7	2	7	0	14	10	7	5	4	5	0	0	4	0	28	0	0
Year	7.9	SW.	68	NW.	17	104	135	71	50	129	161	33	47	0	147	142	76	70	53	24	7	6	15	27	133	39	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

DES MOINES, IOWA.

[λ=41° 35′ N.; φ=93° 37′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In*			
January	29.262	29.837	28.761	18.4	27.4	33.9	15.0	24.4	58	−16	15	21	86	76	.097	.120	.91	.54	4.5	3.0	5.1
February	29.134	29.540	27.866	14.3	24.0	28.4	11.2	19.8	56	− 9	11	17	86	75	.080	.104	.52	.33	5.3	4.4	5.4
March	29.026	29.591	28.308	34.5	44.0	49.3	31.7	40.5	71	2	29	32	80	64	.170	.192	1.15	.40	6.6	6.2	5.8
April	29.062	29.437	28.273	41.9	55.7	61.7	37.5	49.6	89	23	34	36	74	48	.202	.216	1.55	1.15	3.9	5.1	4.6
May	29.051	29.395	28.618	58.9	68.6	74.5	54.9	64.7	88	44	53	56	80	64	.411	.462	4.69	1.22	6.4	6.5	6.2
June	29.015	29.343	28.555	61.8	70.0	74.1	57.4	65.8	90	43	57	57	84	65	.473	.486	7.27	2.15	6.3	6.1	6.4
July	29.060	29.425	28.819	69.1	79.2	83.4	65.6	74.5	93	54	64	66	84	64	.600	.639	5.96	2.40	5.3	4.6	5.6
August	29.080	29.299	28.768	65.0	73.7	78.8	62.1	70.4	94	50	60	62	85	68	.532	.560	7.82	2.53	6.1	5.5	6.2
September	29.067	29.443	28.668	53.5	63.6	69.5	50.2	59.8	83	35	48	51	81	66	.339	.394	5.03	1.96	4.5	4.6	5.8
October	29.100	29.385	28.597	47.3	58.9	65.3	45.4	55.4	77	31	43	47	85	65	.282	.332	3.70	1.65	3.6	3.8	4.9
November	29.085	29.350	28.707	38.7	44.6	51.1	35.4	43.2	72	24	36	39	88	81	.221	.263	1.65	.80	6.5	5.1	6.8
December	29.184	29.752	28.491	19.4	24.0	29.3	15.4	22.4	50	− 7	16	20	85	84	.098	.113	1.77	.55	6.5	6.1	7.4
Year	29.094	29.837	27.866	43.6	52.8	58.3	40.2	49.2	94	−16	39	42	83	68	.292	.323	42.01	2.53	5.5	5.1	5.8

DETROIT, MICH.

[λ=42° 20′ N.; φ=83° 3′ W.]

January	29.287	30.031	28.854	22.0	26.2	30.1	19.2	24.6	40	0	18	20	83	78	.100	.112	.57	.21	5.7	5.9	6.2
February	29.144	29.626	28.119	18.8	24.5	29.1	16.0	22.6	54	− 4	16	19	86	78	.094	.108	.72	.42	6.5	5.8	6.8
March	29.168	29.589	28.417	35.2	40.2	47.0	31.6	39.3	64	10	30	31	82	71	.179	.186	2.06	.97	5.5	5.3	5.9
April	29.131	29.474	28.482	42 1	48.8	55.4	39.0	47.2	81	28	33	34	70	60	191	.205	.60	.31	7.0	5.8	6.2
May	29.235	29.540	28.942	53.6	61.6	68.2	48.7	58.4	87	34	45	48	74	62	.322	357	3.52	.73	5.2	5.2	4.8
June	29.130	29.452	28.576	59.2	65.1	72.8	55.0	63.9	84	46	53	55	80	72	.411	.452	6.97	1.38	6.5	6.6	6.0
July	29.203	29.440	28.957	69.8	74.9	81.4	64.3	72.8	91	49	63	64	80	70	.591	.597	7.55	2.28	4.4	5.7	4.7
August	29.210	29.450	28.848	64.0	70.7	76.5	59.4	68.0	86	51	56	59	77	66	.464	.501	.60	.29	4.6	3.1	4.2
September	29.203	29.495	28.779	57.6	63.2	70.4	54.0	62.2	83	40	53	55	85	77	413	.450	6.50	1.42	5.5	4.4	5.7
October	29.242	29.706	28.685	47.7	52.8	60.2	44.5	52.4	75	31	43	46	85	78	288	.318	1.54	.64	5.8	4.2	5.6
November	29.229	29.571	28.704	43.7	47.1	53.0	40.8	46.9	69	22	39	40	82	76	.248	.259	1.57	.52	7.9	4.4	6.8
December	29.251	29.813	28.598	25.7	27.7	32.3	21.6	27.0	46	8	22	24	85	85	.123	.132	2.73	.54	8.1	7.0	7.7
Year	29.203	30.031	28.119	45.0	50.2	56.4	41.2	48.8	91	− 4	39	41	81	73	.285	.306	35.53	2.28	6.1	5.2	5.9

DODGE CITY, KANS.

[λ=37° 45′ N.; φ=100° 0′ W.]

January	27.496	27.837	26.873	21.0	33.0	44.3	17.4	30.8	74	−10	16	21	81	63	.096	.116	.34	.16	4.0	3.8	4.5
February	27.341	27.760	26.490	22.2	35.0	44.0	19.9	32.0	68	−11	19	25	88	71	.109	.140	.16	.10	4.4	4.6	5.1
March	27.280	27.816	26.768	33.8	50.2	58.0	32.7	45.4	75	11	28	30	79	49	.161	.171	1.58	.90	3.7	4.2	4.4
April	27.336	27.650	26.769	44.3	64.0	70.2	41.4	55.8	92	27	37	35	78	40	.232	.214	.76	.57	4.8	3.6	3.9
May	27.284	27.560	26.735	59.5	72.3	78.4	56.5	67.4	95	45	54	53	84	57	.431	.427	3.35	1.10	5.4	5.1	4.8
June	27.284	27.676	27.005	62.9	76.5	82.4	59.8	71.1	97	50	58	60	85	58	.489	.522	2.49	1.70	5.1	4.5	4.6
July	27.374	27.745	27.085	67.8	81.7	88.8	65.0	76.9	98	56	62	62	83	52	.568	.554	3.73	1.75	2.7	4.2	3.0
August	27.354	27.660	27.068	68.2	85.6	93.5	65.8	79.6	105	52	61	59	82	44	.544	.514	1.62	.82	3.9	3.6	3.5
September	27.379	27.757	27.043	54.3	68.6	78.1	50.9	64.5	93	35	47	46	78	48	.339	.326	.60	.52	3.8	2.9	3.5
October	27.404	27.607	27.020	47.0	62 3	74.2	45.2	59.7	89	31	43	44	87	53	.286	.292	2.26	1.58	3.3	3.1	3.4
November	27.365	27.662	26.934	36.3	45.2	55.2	32.2	43.7	79	15	33	36	88	70	.206	.221	.53	.37	4.4	4.5	5.3
December	27.435	27.841	26.776	20.5	28.7	37.7	17.6	27.6	61	− 5	18	23	89	79	.101	.124	.28	.28	4.6	2.6	4.2
Year	27.361	27.841	26.490	44.8	58.6	67.1	42.0	54.5	105	−11	40	41	84	57	.297	.302	17.70	1.75	4.2	3.9	4.2

DUBUQUE, IOWA.

[λ=42° 30′ N.; φ=90° 44′ W.]

January	29.408	30.113	28.826	17.3	24.7	30.7	14.9	22.8	52	−18	13	19	83	78	.085	.108	.74	.35	4.6	3.4	3.9
February	29.263	29.734	28.008	9.8	22.0	26.9	8.2	17.6	48	−10	6	18	83	83	.064	.103	1.43	.66	5.8	3.9	4.8
March	29.198	29.761	28.320	33.6	41.1	47.1	31.5	39.3	65	− 3	27	30	76	65	.154	.173	1.76	.72	7.0	7.3	7.1
April	29.203	29.569	28.500	41.1	53.8	58.7	38.3	48.5	85	24	32	31	71	44	.189	.187	1.11	.71	4.7	5.8	4.9
May	29.233	29.592	28.839	57.9	68.2	72.6	54.1	63.4	88	36	49	52	74	60	.376	.423	8.67	2.08	5.5	6.9	6.0
June	29.177	29.442	28.683	61.6	68.6	78.3	56.7	65.0	88	45	54	54	75	62	.430	.438	6.97	1.21	6.1	6.3	7.1
July	29.222	29.560	28.939	68.0	78.1	82.6	64.3	73.4	90	52	63	65	84	65	.579	.621	6.80	1.48	5.4	5.5	6.3
August	29.250	29.486	28.974	62.9	72.8	76.8	60.2	68.5	89	50	58	60	84	65	.481	.520	1.57	.59	5.5	5.4	6.6
September	29.233	29.546	28.762	54.6	61.5	68.8	50.3	59.6	81	36	49	50	82	66	.362	.366	3.93	1.22	5.7	4.7	6.1
October	29.272	29.590	28.784	46.7	56.1	63.3	43.7	53.5	77	30	41	42	80	61	.261	.285	2.26	1.18	5.1	3.7	6.1
November	29.240	29.496	28.925	40.4	45.5	51.4	36.7	44.0	69	22	37	37	87	72	.229	.230	.86	.69	7.5	6.0	7.3
December	29.331	29.882	28.600	18.1	23.0	28.1	15.7	21.9	44	− 6	14	17	83	75	.092	.099	2.24	.86	6.3	6.4	7.3
Year	29.252	30.113	28.008	42.7	51.3	56.7	39.6	48.1	90	−18	37	40	80	66	.275	.296	38.34	2.08	5.8	5.5	6.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

DES MOINES, IOWA.

[H=861 ft.; h_t=84 ft.; h_r=75 ft.; h_a=99 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.*	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a.m. and 8 p.m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.4	NW.	26	N.	0	9	7	6	5	3	10	5	17	0	9	14	8	6	6	6	0	0	13	0	30	0	0
February	7.1	NW.	27	NW.	0	6	7	7	5	6	2	6	17	0	9	11	8	7	3	5	0	1	19	0	25	0	0
March	11.6	NW.	40	W.	1	5	2	12	14	4	4	7	14	0	5	20	6	10	6	4	0	0	3	0	12	4	0
April	10.8	NW	48	W.	3	7	5	3	10	6	10	7	12	0	8	19	3	6	5	0	0	0	0	0	8	3	0
May	9.9	SE.	38	W.	0	4	3	10	8	15	10	5	7	0	6	16	9	14	11	0	0	0	0	0	0	11	0
June	8.1	SW.	32	NE.	0	8	6	8	10	9	9	4	6	0	4	13	13	17	14	0	1	0	0	0	0	11	0
July	8.0	SW.	36	W.	0	6	2	7	10	12	16	4	5	0	6	16	9	13	11	0	0	0	0	4	0	11	0
August	7.2	SE.	44	NW.	1	5	8	11	18	3	5	5	7	0	5	14	12	13	9	0	0	0	0	1	0	12	0
September	9.3	SW.	31	SW.	0	4	6	5	9	6	13	5	12	0	9	10	11	8	7	0	0	0	0	0	0	2	0
October	8.3	SW.	42	SW.	1	4	10	6	7	7	12	6	10	0	11	12	8	8	7	0	2	0	0	0	1	5	0
November	9.2	SW.	36	SW.	0	10	6	2	10	6	16	4	6	0	6	10	14	9	5	0	0	1	0	0	12	1	0
December	9.1	SW.	28	NW.	0	5	11	4	8	5	10	6	13	0	4	10	17	10	8	8	0	0	16	0	27	0	0
Year	8.8	SW.	48	W.	6	73	73	81	114	82	117	64	126	0	82	165	118	121	92	23	3	2	51	5	115	60	0

DETROIT, MICH.

[H=730 ft.; h_t=158 ft.; h_r=147 ft.; h_a=193 ft.]

January	12.7	W.	36	W.	0	6	6	2	6	3	13	15	11	0	7	13	11	6	5	6	0	0	17	0	30	0	0
February	11.9	W.	40	SW.	1	6	9	3	2	4	8	17	7	0	5	8	15	7	3	6	0	0	20	0	24	0	0
March	13.8	SW.	48	W.	3	7	10	6	6	5	11	10	7	0	8	10	13	14	11	2	0	2	3	0	13	3	0
April	13.1	W.	55	SW.	4	2	8	5	7	4	8	14	11	0	10	5	15	8	5	1	0	1	0	0	6	3	0
May	11.0	NE.	36	W.	0	3	15	7	7	5	8	10	7	0	12	13	6	14	13	1	0	0	0	0	0	9	0
June	11.5	W.	48	NW.	1	3	12	6	4	4	12	9	10	0	5	16	9	18	15	0	1	0	0	0	0	8	0
July	9.5	SW	38	SW.	0	4	7	2	4	7	19	12	7	0	13	11	7	17	14	0	0	2	0	1	0	14	0
August	8.6	NE.	29	NW.	0	11	21	4	6	3	7	6	4	0	15	11	5	4	4	0	0	1	0	0	0	4	0
September	10.0	SW.	31	NW.	0	7	8	2	9	14	6	11	3	0	10	8	12	17	15	0	1	1	0	0	0	2	0
October	12.0	SW.	41	SW.	2	3	11	2	8	6	12	12	8	0	10	10	11	10	5	0	0	2	0	0	1	3	0
November	12.4	SW.	40	SW.	1	3	8	1	6	9	18	10	4	1	7	8	15	10	9	3	0	1	0	0	6	0	0
December	14.9	SW.	37	NE.	0	6	9	4	2	4	16	15	6	0	2	8	21	16	11	10	0	0	14	0	28	0	0
Year	11.8	SW.	55	SW.	12	61	124	44	67	68	139	141	85	1	104	121	140	141	110	29	2	10	54	1	108	46	0

DODGE CITY, KANS.

[H=2,509 ft.; h_t=44 ft.; h_r=36 ft.; h_a=54 ft.]

January	9.6	NW.	48	NW.	3	7	6	3	10	4	2	13	15	2	16	9	6	5	4	5	0	2	8	0	30	0	0
February	10.5	NW.	44	SE.	2	10	8	4	10	4	0	4	16	0	11	8	9	4	2	4	0	3	6	0	25	0	0
March	15.7	NW.	48	S.	7	7	1	3	18	5	2	6	20	0	15	11	5	5	4	1	0	0	0	0	12	2	0
April	11.4	SE.	42	S.	2	10	9	6	15	1	7	1	11	0	16	9	5	5	3	0	0	0	0	2	3	0	0
May	13.5	SE.	53	SE.	5	3	12	6	32	5	1	1	2	0	13	10	8	14	10	0	1	0	0	2	0	9	0
June	13.0	SE.	38	SE.	0	10	9	7	26	0	4	1	3	0	13	12	5	8	5	0	1	0	0	6	0	10	0
July	12.4	SE.	42	SE.	3	4	3	3	44	3	1	1	2	1	24	5	2	5	5	0	1	0	0	14	0	9	0
August	11.4	SE.	36	SE.	0	10	4	9	30	3	4	1	1	0	18	11	2	11	7	0	0	2	0	22	0	9	0
September	13.9	SE.	42	NW.	1	10	4	1	28	2	0	4	10	1	15	13	2	4	2	0	0	1	0	3	0	3	0
October	10.4	S.	40	S.	1	12	2	4	15	10	2	10	7	0	18	11	2	3	3	0	0	2	0	0	1	1	0
November	11.6	S.	40	S.	1	15	4	4	13	13	1	3	7	0	9	12	9	6	2	0	0	5	0	0	13	2	0
December	10.1	W.	35	S.	0	12	6	3	9	7	0	10	15	0	15	6	10	2	2	2	0	1	11	0	30	0	0
Year	12.0	SE.	53	SE.	25	110	68	53	250	57	24	55	109	4	183	117	65	72	49	12	3	16	25	49	114	45	0

DUBUQUE, IOWA.

[H=698 ft.; h_t=100 ft.; h_r=95 ft.; h_a=117 ft.]

January	6.7	NW.	26	NW.	0	3	2	4	8	9	10	9	16	1	15	11	5	7	4	7	0	0	15	0	31	0	0
February	5.5	NW.	22	NW.	0	5	3	3	9	4	5	9	18	0	14	8	6	11	4	9	0	0	19	0	25	0	0
March	8.6	SE.	28	NW.	0	9	4	6	17	3	5	2	16	0	5	11	15	10	7	5	1	0	4	0	10	3	0
April	8.4	NW.	34	NW.	0	2	4	5	11	4	6	7	21	0	11	13	6	6	3	0	0	0	0	0	7	3	0
May	7.8	SE.	28	SW.	0	2	8	12	14	6	6	4	10	0	7	14	10	17	13	0	2	0	0	0	0	11	0
June	6.6	NW.	34	SW.	0	3	7	3	7	6	7	5	22	0	4	10	16	15	14	0	0	0	0	0	0	11	0
July	5.6	S.	30	NW.	0	7	1	1	13	18	8	3	11	0	6	16	9	16	11	0	1	1	0	2	0	10	0
August	4.7	SE.	35	SE.	0	8	5	3	17	3	5	3	18	0	4	15	12	9	8	0	0	3	0	0	0	4	0
September	7.2	SE.	26	SE.	0	4	6	3	16	9	5	7	10	0	10	8	12	13	9	0	0	0	0	0	0	4	0
October	6.6	SE.	24	W.	0	4	3	5	12	9	10	5	13	1	10	8	13	7	5	0	0	2	0	0	1	4	0
November	7.2	S.	30	S.	0	5	5	2	11	14	8	2	13	0	5	7	18	7	2	2	0	3	0	0	9	0	0
December	7.2	NW.	25	NW.	0	6	5	4	11	7	5	8	16	0	9	3	19	12	10	9	0	1	20	0	29	0	0
Year	6.8	NW.	35	SE.	0	58	53	51	146	92	80	64	184	2	100	124	141	130	90	32	4	10	58	2	112	50	0

* By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

DULUTH, MINN.

[λ=46° 47′ N.; φ=92° 6′ W.]

Month.	Pressure.			Temperature.							Moisture.										Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.						
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.			8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.					
January	29.319	29.954	28.729	12.6	19.0	25.1	8.4	16.8	43	−22	8	13	79	75	.069	.086	.74	.23			5.1	3.8	4.8
February	29.205	29.720	28.110	13.0	20.8	25.4	10.7	18.0	44	−14	9	14	83	73	.076	.089	.70	.64			5.3	3.6	5.0
March	29.160	29.641	28.276	27.6	34.3	38.5	25.3	31.9	60	−8	21	23	76	63	.121	.126	.77	.19			6.1	5.7	5.8
April	29.186	29.645	28.553	34.7	41.4	46.3	32.2	39.2	66	12	26	26	71	57	.146	.148	1.09	.36			5.7	6.0	5.8
May	29.229	29.681	28.818	43.9	49.6	55.1	40.0	47.6	83	27	39	38	83	70	.239	.234	3.89	.77			6.8	6.3	6.9
June	29.141	29.428	28.801	51.5	57.4	64.2	46.3	55.2	80	39	44	44	76	64	.290	.288	3.68	2.33			5.7	6.3	6.1
July	29.159	29.523	28.906	62.6	68.5	74.4	58.0	66.2	86	48	55	55	77	65	.436	.443	4.54	1.70			5.2	6.7	6.2
August	29.223	29.449	28.889	58.6	64.7	68.4	55.9	62.2	83	46	52	52	78	65	.387	.396	3.30	1.35			5.1	5.6	5.5
September	29.156	29.509	28.806	49.0	54.8	59.9	46.4	53.2	78	38	43	44	81	69	.285	.293	1.52	.74			5.4	5.5	5.9
October	29.225	29.675	28.675	41.7	48.0	52.6	40.4	46.5	72	30	34	35	76	64	.204	.214	2.08	.87			4.6	4.2	5.3
November	29.187	29.645	28.714	31.9	34.7	39.3	28.9	34.1	58	7	28	30	85	83	.159	.172	1.85	.79			8.3	7.2	7.9
December	29.305	29.838	28.806	13.5	18.5	23.9	8.9	16.4	37	−17	10	13	85	77	.075	.084	2.03	.78			6.2	4.7	5.6
Year	29.208	29.954	28.110	36.7	42.6	47.8	33.4	40.6	86	−22	31	32	79	69	.207	.214	26.14	2.53			5.8	5.5	5.9

EASTPORT, ME.

[λ=44° 54′ N.; φ=66° 59′ W.]

January	29.905	30.581	28.822	19.2	23.1	29.5	14.2	21.8	46	2	13	16	76	75	.091	.100	3.41	1.06			5.2	4.5	6.0
February	29.665	30.335	28.735	21.9	26.0	29.5	18.6	24.0	47	5	16	21	76	79	.096	.116	3.06	1.50			6.3	5.6	6.8
March	29.841	30.505	29.147	34.5	36.7	41.5	31.3	36.4	54	14	30	32	83	82	.174	.185	9.11	2.69			7.0	6.8	7.7
April	29.803	30.203	29.152	39.1	40.8	47.9	35.4	41.6	66	32	34	35	83	80	.197	.204	2.16	.66			6.0	4.6	6.9
May	29.859	30.334	29.418	44.8	47.2	55.7	39.9	47.8	84	31	38	38	77	74	.232	.240	3.85	1.43			5.1	5.3	6.7
June	29.742	30.383	29.135	52.5	52.7	62.4	46.6	54.5	79	41	49	47	87	82	.347	.325	2.51	.67			5.6	5.9	6.1
July	29.871	30.187	29.538	59.4	60.2	69.2	52.3	60.8	82	48	54	53	82	79	.412	.411	1.05	.29			5.2	5.0	5.3
August	29.817	30.187	29.476	58.5	59.3	67.8	53.3	60.6	78	48	53	53	82	81	.400	.406	3.23	1.37			3.7	3.5	5.9
September	30.019	30.376	29.633	55.4	55.7	63.6	50.1	56.8	78	37	50	50	88	81	.372	.364	2.43	1.33			3.8	3.0	4.7
October	29.918	30.433	29.173	46.3	47.6	53.8	40.1	47.0	69	27	40	38	79	71	.265	.251	3.36	1.39			6.1	5.9	5.7
November	29.965	30.373	29.176	38.0	39.4	45.5	33.5	39.5	55	24	34	34	84	90	.202	.201	1.47	.52			6.8	6.0	7.0
December	29.916	30.619	29.325	19.1	24.3	30.3	14.5	22.4	52	−15	15	20	82	82	.105	.118	5.77	1.77			6.2	4.8	5.9
Year	29.860	30.619	28.735	40.7	42.8	49.7	35.8	42.8	84	−15	36	36	81	79	.241	.243	41.41	2.69			5.5	5.1	6.2

ELKINS, W. VA.

[λ=38° 53′ N.; φ=79° 49′ W.]

January	28.003	28.586	27.385	28.2	29.1	37.7	19.0	28.4	54	1	20	23	85	77	.111	.127	3.90	1.16			7.0	6.7	7.0
February	27.881	28.236	27.111	19.6	24.8	31.2	16.0	23.6	62	−5	17	20	88	81	.108	.119	2.86	.68			8.6	6.4	7.7
March	27.930	28.266	27.475	33.3	41.8	51.4	28.0	39.7	71	8	30	32	86	70	.178	.191	4.39	.76			6.5	6.1	6.8
April	27.909	28.213	27.433	41.5	48.0	56.8	34.4	45.6	88	24	34	34	77	62	.210	.204	3.61	1.41			7.3	6.4	6.8
May	28.013	28.324	27.781	57.7	63.9	75.1	48.0	61.6	86	29	51	53	80	69	.393	.418	4.08	1.23			5.2	6.1	5.6
June	27.947	28.349	27.507	60.0	66.7	76.1	50.0	63.0	90	36	55	58	84	74	.445	.489	5.22	1.30			5.5	5.4	6.3
July	28.052	28.263	27.872	65.0	70.8	81.8	58.5	70.2	89	49	62	64	89	81	.553	.605	6.23	1.91			5.9	6.0	5.8
August	27.992	28.228	27.820	59.2	66.0	79.4	54.5	67.0	87	42	57	61	90	84	.472	.542	3.61	1.21			4.1	5.7	5.4
September	28.024	28.261	27.594	52.6	60.3	74.7	47.0	60.8	85	35	51	55	94	83	.386	.439	4.81	1.57			5.3	4.2	6.4
October	28.049	28.453	27.576	45.0	52.0	65.9	40.0	53.0	76	23	42	44	89	76	.276	.302	2.76	1.05			5.1	4.1	5.8
November	28.029	28.405	27.392	40.8	46.9	59.0	34.7	46.8	74	17	37	41	88	79	.232	.264	3.92	1.58			7.0	5.0	7.1
December	28.000	28.301	27.416	29.4	31.7	40.2	23.5	31.8	59	9	25	26	84	78	.149	.149	5.68	1.03			8.2	6.3	8.1
Year	27.982	28.586	27.111	43.9	50.2	60.8	37.8	49.3	90	−5	40	43	86	76	.293	.321	51.27	1.91			6.3	5.7	6.6

EL PASO, TEX.

[λ=31° 47′ N.; φ=106° 30′ W.

January	26.211	26.448	25.876	34.6	54.1	61.0	32.5	46.8	76	24	22	21	61	29	.120	.116	.57	.57			1.6	2.9	2.7
February	26.139	26.340	25.709	39.0	60.6	66.0	36.8	51.4	79	25	19	13	43	15	.098	.077	.01	.01			3.1	3.5	3.1
March	26.094	26.460	25.790	41.0	63.5	68.2	39.2	53.7	79	27	18	11	39	12	.098	.068	.00	.00			2.2	2.6	2.7
April	26.084	26.258	25.852	53.1	79.7	84.0	51.0	67.5	91	40	19	11	28	7	.110	.072	.00	.00			1.3	3.2	2.6
May	26.049	26.238	25.642	60.6	84.0	88.2	59.4	73.8	100	47	30	24	35	13	.186	.134	T.	T.			2.5	3.7	3.1
June	26.050	26.319	25.855	67.9	93.4	97.5	66.9	82.2	105	55	39	30	37	12	.258	.182	.01	.01			1.2	2.5	1.6
July	26.163	26.371	25.974	67.5	94.2	99.4	66.4	77.9	100	61	37	50	71	36	.472	.378	3.27	1.13			4.5	4.9	5.0
August	26.165	26.304	26.020	68.9	85.1	91.1	67.9	79.5	99	62	59	56	72	40	.505	.455	2.85	1.05			3.8	3.6	3.6
September	26.169	26.406	26.000	62.1	78.4	84.8	61.2	73.0	93	53	52	52	71	42	.407	.400	1.86	.74			3.4	3.6	3.3
October	26.200	26.354	25.923	51.8	72.9	81.1	50.3	65.7	86	42	38	38	62	30	.237	.232	.31	.30			1.2	1.6	1.6
November	26.140	26.448	25.951	42.6	59.8	67.9	39.9	53.9	81	24	31	30	63	33	.175	.171	.49	.26			1.9	3.3	3.4
December	26.221	26.428	25.890	37.5	50.6	58.2	34.6	46.4	71	27	28	29	70	45	.157	.166	.78	.48			2.4	3.2	3.5
Year	26.140	26.450	25.642	52.2	72.2	78.1	50.5	64.3	105	24	34	30	54	26	.235	.204	10.15	1.13			2.4	3.2	3.0

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

DULUTH, MINN.

[H=702 ft.; h_t=95 ft.; h_r=90 ft.; h_a=116 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Wind. By self-registers. Prevailing direction.[a]	Wind. By self-registers. Maximum velocity.	Wind. By self-registers. Direction at time of maximum velocity.	Wind. By self-registers. Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.8	SW.	44	NW.	1	1	2	2	1	2	20	9	25	0	15	7	9	10	7	10	0	0	25	0	31	0	0
February	10.4	SW.	42	NW.	3	1	8	2	0	2	17	9	16	1	12	8	8	4	2	3	0	0	18	0	26	0	0
March	12.3	NE.	38	SW.	0	3	24	2	2	4	10	4	12	1	9	12	10	9	6	5	0	0	7	0	22	1	0
April	11.7	NE.	48	NE.	2	6	25	2	1	0	8	1	16	1	7	12	11	9	6	2	2	0	1	0	12	2	0
May	10.3	NE.	39	S.	0	2	45	0	1	0	4	2	8	0	4	12	15	17	9	1	0	4	0	0	2	4	0
June	8.7	NE.	36	W.	0	4	26	2	0	1	3	6	17	2	5	18	7	11	9	0	0	1	0	0	0	3	0
July	8.5	NE.	39	NW.	0	2	23	2	2	1	13	4	13	2	4	18	9	13	8	0	1	3	0	0	0	10	0
August	7.7	NE.	39	N.	0	5	35	2	0	2	4	6	8	0	7	16	8	11	8	0	0	0	0	0	0	6	0
September	9.4	NE.	35	NW.	0	6	23	1	0	0	7	9	14	0	7	14	9	15	9	0	0	0	0	0	0	3	0
October	10.2	NE.	37	NE.	0	8	16	1	1	1	12	9	14	0	9	11	11	10	5	6	0	2	0	0	1	3	0
November	10.4	SW.	43	NW.	1	2	8	2	4	4	18	6	16	0	2	9	19	9	8	4	0	0	3	0	18	0	0
December	12.0	SW.	56	NW.	4	10	5	3	4	2	16	8	14	0	10	10	11	16	10	16	0	0	26	0	30	0	0
Year	10.1	NE.	56	NW.	11	50	239	21	16	19	132	73	173	7	91	147	127	134	87	41	3	10	80	0	142	32	0

EASTPORT, ME.

[H=76 ft.; h_t=69 ft.; h_r=62 ft.; h_a=82 ft.]

January	14.6	W.	43	SW.	5	12	4	3	3	3	3	25	9	0	11	7	13	12	10	9	0	0	19	0	29	0	0
February	[b]13.6	W.	[c]54	E.	[c]2	10	7	2	4	2	2	13	12	4	6	9	13	12	11	10	0	3	18	0	24	0	0
March	15.0	N.	48	E.	3	14	12	5	3	10	8	7	3	0	5	7	19	19	16	5	0	3	2	0	13	0	0
April	9.8	W.	49	NE.	1	3	9	4	3	9	14	9	7	2	7	8	15	15	12	3	2	4	0	0	2	1	0
May	10.3	SW.	82	SW.	0	12	7	1	3	10	17	5	7	0	8	8	15	17	12	0	0	5	0	0	1	2	0
June	9.3	SW.	42	E.	1	12	2	6	4	7	14	15	0	0	7	14	9	16	14	0	0	6	0	0	0	3	0
July	6.4	SW.	24	NW.	0	12	7	2	0	5	19	11	4	2	9	13	9	11	7	0	0	0	0	0	0	3	0
August	7.1	W.	36	E.	0	9	5	4	4	6	11	15	4	4	9	10	12	13	10	0	0	8	0	0	0	3	0
September	7.7	SW.	40	E.	1	8	4	4	4	12	10	11	3	4	13	8	9	11	5	0	0	9	0	0	0	0	0
October	11.9	SW.	50	S.	1	7	7	1	1	5	19	9	13	0	7	12	12	13	9	1	0	2	0	0	4	1	0
November	11.4	SW.	42	NE.	1	7	7	2	5	6	15	7	10	1	5	11	14	10	7	2	0	4	0	0	13	0	1
December	15.2	NW.	54	E.	7	10	4	3	2	2	8	13	20	0	10	6	15	18	15	14	0	1	15	0	30	0	0
Year	11.0	SW.	54	E.	22	116	75	37	36	77	140	140	92	17	97	113	155	167	128	44	2	45	54	0	116	13	1

ELKINS, W. VA.

[H=1,940 ft.; h_t=41 ft.; h_r=34 ft.; h_a=50 ft.]

January	5.1	W.	22	W.	0	10	2	1	3	7	7	20	9	3	4	14	13	16	13	12	0	1	6	0	28	0	0
February	5.7	W.	34	W.	0	10	3	0	0	2	8	20	8	5	2	7	19	20	14	14	0	2	15	0	24	1	0
March	6.1	W.	36	SW.	0	3	0	1	6	12	4	17	7	12	4	12	15	15	12	8	0	4	4	0	21	2	0
April	5.7	W.	29	SW.	0	5	2	1	2	6	8	14	8	14	3	15	12	17	12	5	1	1	2	0	14	1	0
May	4.4	W.	40	W.	1	14	1	1	4	8	5	20	6	3	3	23	5	14	11	0	0	1	0	0	1	6	0
June	4.2	W.	34	W.	0	7	2	1	1	6	8	19	11	5	4	15	11	17	14	0	0	10	0	0	1	0	0
July	3.8	W.	28	NE.	0	7	1	0	8	7	12	14	12	1	6	18	7	13	12	0	0	10	0	0	0	10	0
August	2.8	N.	24	W.	0	15	4	0	4	8	10	10	7	4	6	22	3	12	11	0	1	21	0	0	0	11	0
September	3.0	N.	39	W.	0	12	2	1	8	5	4	9	7	12	4	18	13	13	10	0	0	14	0	0	0	2	0
October	3.6	W.	20	S.	0	9	2	2	8	1	5	14	12	9	8	16	7	10	10	1	0	6	0	0	6	0	0
November	3.4	N.	25	S.	0	13	2	0	7	6	7	11	6	8	2	13	15	14	12	8	0	3	0	0	13	0	0
December	5.8	W.	28	S.	0	8	2	2	3	11	8	19	5	4	1	11	19	22	15	15	0	1	6	0	25	0	0
Year	4.4	W.	40	W.	1	113	23	10	54	79	86	187	98	80	47	179	139	183	146	58	2	74	38	1	132	41	0

EL PASO, TEX.

[H=3,762 ft.; h_t=10 ft.; h_r=2 ft.; h_a=110 ft.]

January	10.6	NW.	55	W.	4	2	13	15	5	0	3	8	16	0	19	10	2	1	1	0	0	0	0	0	14	1	0
February	13.1	NW.	71	W.	7	2	9	4	2	0	3	12	24	0	16	9	3	1	0	0	0	0	0	0	7	0	0
March	16.0	NW.	57	SW.	12	0	7	9	1	1	11	14	19	0	18	12	1	0	0	0	0	0	0	0	0	0	0
April	12.0	NW.	60	SW.	2	2	2	3	4	2	7	11	29	0	17	13	0	0	0	0	0	0	0	2	0	0	0
May	12.2	W.	50	SW.	3	0	7	7	4	1	8	21	14	0	15	12	4	0	0	0	0	0	0	12	0	0	0
June	11.0	NW.	49	NE.	2	1	11	5	9	2	4	14	14	0	25	5	0	1	0	0	0	0	0	29	0	3	0
July	10.0	NE.	46	NE.	2	0	19	11	9	0	5	8	9	1	10	14	7	12	9	0	0	0	0	20	0	2	0
August	8.2	E.	56	SW.	5	2	14	15	8	5	1	2	15	0	16	13	2	8	8	0	0	0	0	21	0	12	0
September	8.8	E.	47	E.	2	0	17	18	3	3	5	4	9	1	17	9	4	10	6	0	1	0	0	5	0	3	0
October	7.2	E.	98	SW.	0	3	11	15	3	1	6	12	11	0	25	5	1	2	1	0	1	0	0	0	0	2	0
November	9.9	NW.	46	NE.	2	0	9	7	3	0	1	19	19	2	15	12	3	4	3	1	0	0	0	0	6	1	0
December	10.1	NW.	49	NW.	3	6	10	6	2	0	0	15	22	1	17	10	4	6	4	1	0	0	0	0	13	0	0
Year	10.8	NW.	71	W.	44	18	129	115	53	15	54	140	201	5	210	124	31	45	32	2	2	0	0	89	40	24	0

[a] By eye observations when there is no self-register at station.
[b] For 27⅓ days.
[c] For 27⅓ days. Anemometer blew away; estimated wind velocities of 70 to 80 miles occurred between 5 and 10 p. m. February 21.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

ERIE, PA.

[λ=42° 7′ N.; φ=80° 5′ W.]

Month.	Pressure.			Temperature.							Moisture.									
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	29.291	30.018	28.765	23.7	26.2	30.8	20.0	25.4	46	4	20	21	86	81	.113	.118	1.86	1.09	8.1	6.6	7.9
February	29.141	29.631	28.374	18.5	22.9	26.8	15.1	21.0	56	− 2	16	20	90	90	.099	.116	.56	.17	7.2	6.9	6.9
March	29.193	29.570	28.499	36.6	39.8	45.9	32.4	39.2	70	13	33	35	87	82	.204	.213	.77	.20	6.4	5.9	6.6
April	29.146	29.509	28.659	44.7	46.0	52.3	39.1	45.7	85	29	39	38	81	78	.244	.239	2.09	.72	6.9	6.9	6.8
May	29.253	29.548	29.006	54.6	57.1	63.7	47.9	55.8	87	35	49	50	82	78	.366	.378	3.32	.89	5.6	5.0	4.4
June	29.149	29.554	28.552	61.5	64.2	69.3	55.7	62.5	84	44	55	56	79	76	.442	.464	4.16	1.77	6.9	6.0	5.7
July	29.240	29.475	28.984	69.6	72.5	77.8	64.3	71.0	88	53	63	64	81	74	.591	.596	5.97	1.42	5.6	5.8	5.2
August	29.226	29.440	28.900	65.4	68.6	73.4	60.0	66.7	88	51	57	58	75	71	.475	.499	.51	.19	5.6	4.1	4.9
September	29.240	29.524	28.731	60.6	63.6	71.6	56.2	63.9	84	44	54	55	79	74	.426	.438	3.36	1.14	5.7	4.7	5.7
October	29.268	29.707	28.800	50.5	53.2	59.8	45.9	52.8	74	36	44	45	80	74	.303	.308	3.88	1.27	6.8	5.0	5.8
November	29.265	29.655	28.677	46.8	48.8	55.5	42.6	49.0	72	28	40	40	78	74	.257	.259	1.34	.53	7.4	5.0	6.4
December	29.268	29.832	28.657	28.2	29.2	34.0	23.7	28.8	54	10	24	23	85	77	.136	.127	1.97	.74	8.3	7.4	8.6
Year	29.223	30.018	28.374	46.7	49.3	55.1	41.9	48.5	88	− 2	41	42	82	77	.305	.313	29.79	1.77	6.7	5.8	6.2

ESCANABA, MICH.

[λ=45° 48′ N.; φ=87° 5′ W.]

January	29.398	30.110	28.899	16.1	19.7	26.2	10.9	18.6	37	−18	14	16	92	84	.087	.093	.56	.19	7.0	4.8	7.2
February	29.268	29.814	28.059	13.9	21.1	26.0	10.9	18.4	43	− 9	12	18	94	88	.061	.104	1.61	1.55	6.2	5.1	5.9
March	29.299	29.775	28.247	29.4	32.7	38.9	25.6	32.2	52	4	26	28	86	81	.141	.153	.88	.31	4.8	5.3	5.7
April	29.260	29.672	28.546	35.9	40.1	46.4	32.2	39.3	61	16	30	32	78	72	.166	.183	2.11	1.22	6.6	6.3	6.2
May	29.354	29.729	28.933	47.3	52.1	58.6	42.2	50.4	77	30	42	42	80	69	.274	.281	3.08	.97	6.6	6.0	6.3
June	29.233	29.559	28.801	54.5	58.7	65.7	47.5	56.6	81	37	47	48	78	69	.336	.348	2.56	.64	5.4	6.3	6.1
July	29.286	29.583	29.061	64.7	68.8	74.7	59.1	66.9	88	50	58	60	79	75	.488	.531	2.31	.85	6.6	6.0	6.4
August	29.338	29.586	28.947	59.6	65.2	70.9	54.1	62.5	81	45	54	54	81	69	.418	.432	1.37	.48	4.9	5.0	4.5
September	29.293	29.663	28.983	52.3	56.5	62.4	47.3	54.8	77	36	47	49	83	77	.333	.355	1.62	1.07	5.3	4.9	5.9
October	29.343	29.752	28.788	41.6	47.3	53.8	37.9	45.8	69	30	36	38	82	70	.221	.232	2.07	.59	5.0	4.4	5.4
November	29.297	29.729	28.778	36.5	39.7	44.1	32.7	38.4	55	16	32	33	82	77	.185	.200	2.66	1.51	7.7	6.5	7.5
December	29.371	29.941	28.927	21.2	24.4	28.6	17.1	22.8	40	− 2	18	20	88	80	.101	.107	1.38	.58	7.8	5.5	7.0
Year	29.312	30.110	28.059	39.4	43.9	49.7	34.8	42.2	88	−18	35	36	84	76	.236	.251	22.21	1.55	6.2	5.5	6.2

EUREKA, CAL.

[λ=40° 48′ N.; φ=124° 11′ W.]

January	30.115	30.355	29.746	43.8	49.8	52.3	41.0	46.6	67	29	39	42	83	76	.241	.275	1.95	.64	4.7	5.3	5.9
February	29.879	30.215	29.206	49.0	54.6	57.9	46.6	52.2	72	38	44	46	85	76	.296	.318	19.49	3.61	7.1	8.5	7.4
March	30.034	30.339	29.415	44.0	49.9	51.9	41.8	46.8	58	33	39	42	83	74	.239	.265	7.85	1.97	6.2	6.1	5.9
April	30.014	30.349	29.436	46.5	53.9	56.3	45.2	50.8	64	40	43	44	87	70	.277	.293	4.56	.79	6.5	5.7	5.6
May	29.985	30.164	29.676	50.8	55.9	58.7	49.6	54.2	72	42	46	47	83	72	.308	.324	2.70	1.15	7.3	5.8	5.3
June	29.959	30.134	29.750	51.4	57.4	58.8	50.8	54.8	66	45	48	49	89	74	.336	.347	.27	.22	5.9	2.2	3.4
July	29.990	30.178	29.719	52.4	59.0	60.6	51.8	56.2	69	46	50	51	90	76	.355	.380	.25	.21	5.5	3.6	4.4
August	29.947	30.091	29.770	53.9	59.2	60.6	52.4	57.0	65	49	51	52	91	77	.377	.385	.T	.T	5.7	4.6	5.8
September	29.925	30.145	29.809	51.3	57.9	59.7	50.4	55.0	70	44	49	51	91	78	.345	.373	.14	.12	2.6	3.8	5.1
October	29.937	30.280	29.450	51.9	57.6	60.9	50.6	55.7	77	45	48	50	87	77	.335	.362	2.34	.65	3.5	5.5	6.4
November	29.986	30.298	29.296	48.4	54.7	57.5	46.2	51.8	65	37	44	48	87	78	.299	.338	10.88	3.16	5.1	6.2	6.1
December	30.021	30.312	29.672	47.1	52.1	55.4	44.3	49.8	66	34	41	44	82	76	.269	.298	8.33	2.25	6.2	5.8	6.5
Year	29.983	30.355	29.206	49.2	55.2	57.6	47.6	52.6	77	29	45	47	86	75	.306	.330	58.76	3.61	5.5	5.3	5.6

EVANSVILLE, IND.[a]

[λ=37° 58′ N.; φ=87° 33′ W.]

January	29.709	30.306	29.106	28.0	.....	40.1	25.3	32.7	61	6	24	.....	84	.....	.132	.....	2.36	.89	4.0	.....	4.2
February	29.572	29.963	28.471	21.9	.....	34.0	21.1	27.6	56	5	18	.....	85	.....	.108	.....	.51	.28	5.2	.....	5.2
March	29.514	30.108	28.887	42.2	.....	54.5	40.1	47.3	75	13	38	.....	86	.....	.247	.....	3.12	1.22	6.6	.....	4.9
April	29.540	29.832	29.310	47.8	.....	63.7	45.9	54.8	84	27	42	.....	79	.....	.274	.....	1.91	.81	3.3	.....	2.5
May	29.540	29.706	29.345	66.1	.....	81.2	61.5	71.4	92	45	58	.....	77	.....	.510	.....	1.86	.58	3.7	.....	4.2
June	29.463	29.737	29.209	69.5	.....	84.0	65.6	74.8	97	52	63	.....	79	.....	.580	.....	3.17	1.42	5.6	.....	5.3
July	29.563	29.742	29.494	73.7	.....	89.4	69.6	79.5	98	60	65	.....	76	.....	.632	.....	.41	.13	3.4	.....	3.7
August	29.509	29.720	29.406	69.9	.....	85.7	67.0	76.4	97	58	63	.....	78	.....	.581	.....	1.82	1.05	4.3	.....	4.6
September	29.529	29.859	29.119	60.2	.....	76.6	58.1	67.4	88	41	55	.....	84	.....	.452	.....	2.80	.98	5.3	.....	5.4
October	29.594	29.981	29.267	53.5	.....	69.9	52.2	61.0	80	36	48	.....	81	.....	.343	.....	2.65	2.16	4.7	.....	4.4
November	29.581	29.853	29.075	48.2	.....	60.1	46.7	53.4	78	30	44	.....	87	.....	.300	.....	4.68	1.89	6.7	.....	6.2
December	29.647	30.111	28.744	32.6	.....	40.6	29.0	34.8	60	6	30	.....	88	.....	.174	.....	5.04	1.90	7.1	.....	7.5
Year	29.563	30.306	28.471	51.1	.....	65.0	48.5	56.8	98	5	46	.....	82	.....	.351	.....	29.78	2.16	5.0	.....	4.8

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

ERIE, PA.

[H=713 ft.; h_t=92 ft.; h_r=82 ft.; h_a=102 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	12.9	SW.	37	NW.	0	9	1	6	2	8	17	9	10	0	2	6	23	10	7	8	0	0	16	0	29	0	0
February	11.8	W.	48	S.	1	8	8	3	0	7	9	14	7	0	5	7	16	8	4	6	0	2	22	0	25	1	0
March	12.8	W.	37	S.	0	1	7	5	1	11	11	15	11	0	8	7	16	12	8	5	0	0	5	0	15	0	0
April	12.5	W.	44	SW.	1	8	3	2	0	8	11	14	14	0	5	8	17	11	7	2	0	2	0	0	5	0	0
May	9.8	W.	36	W.	0	8	13	7	1	8	7	14	4	0	14	12	5	14	11	0	0	0	0	0	0	8	0
June	10.0	W.	39	S.	0	6	6	5	0	7	8	19	9	0	5	16	9	16	13	0	0	0	0	0	0	4	0
July	8.5	W.	30	W.	0	8	5	3	0	9	13	18	6	0	12	12	7	15	13	0	1	0	9	0	0	8	0
August	7.9	NW.	30	SW.	0	8	6	7	0	9	9	6	14	3	15	5	11	6	5	0	0	0	0	0	0	3	0
September	10.5	S.	36	NW.	0	4	4	5	4	15	12	7	9	0	13	5	12	11	11	0	0	0	0	0	0	1	0
October	11.5	SW.	37	S.	0	8	6	10	2	1	18	14	2	1	6	15	10	12	8	0	1	0	0	0	0	3	0
November	12.8	SW.	40	S.	1	6	4	5	0	13	17	10	5	0	7	10	13	9	8	1	0	0	0	0	4	0	0
December	15.0	SW.	49	S.	3	8	9	3	2	6	17	11	6	0	1	4	26	20	15	13	0	0	13	0	26	0	0
Year	11.3	W.	49	S.	6	82	72	61	12	102	149	151	97	4	93	107	165	144	110	35	2	4	56	0	104	28	0

ESCANABA, MICH.

[H=612 ft.; h_t=43 ft.; h_r=37 ft.; h_a=57 ft.]

January	9.0	SW.	29	NW.	0	4	0	0	5	5	20	15	13	0	5	5	21	9	5	9	0	2	23	0	31	0	0
February	9.0	S.	29	SE.	0	4	4	0	2	13	5	14	14	0	8	10	10	4	2	3	0	0	20	0	27	0	0
March	9.0	N.	42	S.	1	15	4	4	6	11	2	6	11	3	10	8	13	8	5	3	0	5	4	0	23	0	0
April	10.7	NW.	42	S.	1	12	5	1	3	13	4	4	18	0	10	6	14	12	9	1	0	2	1	0	11	1	0
May	8.3	S.	39	NW.	0	10	10	6	8	11	3	4	9	1	7	11	13	12	9	0	0	4	0	0	3	3	0
June	8.2	S.	36	NW.	0	10	2	4	9	13	5	5	12	0	4	17	9	13	9	0	0	3	0	0	0	4	0
July	7.9	S.	26	N.	0	12	4	2	7	15	11	5	5	1	8	7	16	12	10	0	0	2	0	0	0	8	0
August	8.3	N.	31	SW.	0	16	4	1	4	14	8	3	11	1	13	14	4	6	5	0	0	0	0	0	0	2	0
September	9.9	S.	35	SW.	0	9	5	1	6	13	11	6	9	0	5	14	11	8	4	0	0	1	0	0	0	2	0
October	9.5	S.	38	N.	0	10	3	3	5	10	11	12	8	0	9	13	9	13	8	0	0	1	0	0	4	0	0
November	10.5	S.	34	N.	0	7	7	0	5	10	18	2	11	0	4	8	18	9	7	0	0	0	3	0	14	1	0
December	9.8	NW.	36	N.	0	11	7	2	1	2	16	9	14	0	8	3	20	11	7	10	0	0	18	0	30	0	0
Year	9.2	S.	42	S.	2	120	55	24	61	130	114	85	135	6	91	116	158	117	80	26	0	20	69	0	143	21	0

EUREKA, CAL.

[H=62 ft.; h_t=62 ft.; h_r=54 ft.; h_a=80 ft.]

January	6.4	SE.	43	N.	1	11	7	6	17	3	9	6	3	0	6	13	12	14	11	0	1	5	0	0	4	0	0
February	9.2	S.	46	SE.	2	1	1	3	15	20	11	3	2	0	3	6	19	24	24	0	1	0	0	0	0	3	0
March	9.8	SE.	44	NW.	4	13	2	4	17	8	6	3	8	1	6	14	11	20	17	0	4	0	0	0	0	1	0
April	7.4	SE.	38	W.	0	5	0	3	21	5	6	7	12	1	10	9	11	17	14	0	0	1	0	0	0	0	0
May	9.2	N.	45	N.	2	20	1	2	9	7	5	10	8	0	5	19	7	14	12	0	0	1	0	0	0	0	0
June	8.4	NW.	39	N.	0	13	2	1	5	7	4	2	22	4	17	10	3	2	2	0	0	0	0	0	0	0	0
July	6.9	NW.	31	N.	0	9	1	2	2	10	12	7	17	2	12	11	8	5	1	0	0	1	0	0	0	0	0
August	5.2	NW.	29	N.	0	8	1	2	6	6	7	12	17	3	9	8	14	0	0	0	0	2	0	0	0	0	0
September	5.4	N.	44	N.	1	15	1	2	4	8	8	7	14	6	11	8	11	2	1	0	0	0	0	0	0	0	0
October	5.5	S.	29	SE.	0	11	4	5	8	12	8	6	7	1	6	12	13	12	9	0	0	6	0	0	0	0	0
November	6.7	SE.	36	N.	0	8	3	5	16	10	12	2	2	2	7	8	15	18	18	0	1	0	0	0	0	1	0
December	7.0	S.	28	S.	0	11	3	2	15	16	10	4	1	0	8	6	17	17	16	0	0	0	0	0	0	0	0
Year	7.3	SE.	46	SE.	10	125	26	37	135	107	98	69	113	20	100	124	141	145	125	0	7	25	0	0	4	5	0

EVANSVILLE, IND.

[H=431 ft.; h_t=72 ft.; h_r=66 ft.; h_a=82 ft.]

January	7.1	NE.	26	S.	0	1	9	0	0	8	4	3	6	0	17	4	10	7	6	2	0	1	7	0	23	0	0
February	6.8	NW.	23	SW.	0	3	7	0	2	1	2	1	12	0	10	6	12	4	3	1	0	0	17	0	22	0	0
March	8.0	SE.	38	S.	0	4	4	3	6	6	2	4	2	0	12	10	9	15	10	3	0	0	1	0	7	3	0
April	8.3	N.	45	S.	2	7	6	0	2	2	1	7	5	0	20	8	2	11	8	0	0	0	0	0	1	6	0
May	7.5	S.	36	SW.	0	1	6	4	6	7	5	2	0	0	14	10	7	9	7	0	0	0	0	1	0	7	0
June	7.1	S.	45	SW.	1	5	7	4	2	7	4	1	0	0	8	15	7	13	9	0	0	0	0	6	0	12	0
July	5.9	S.	32	NE.	0	3	2	2	6	13	4	0	1	0	13	17	1	7	4	0	0	0	0	19	0	6	0
August	6.0	NE.	27	N.	0	2	16	2	3	3	3	0	2	0	10	14	7	6	6	0	0	0	0	9	0	6	0
September	5.9	E.	25	W.	0	3	5	5	4	5	4	2	2	0	9	10	11	8	7	0	0	0	0	0	0	2	0
October	6.7	S.	30	S.	0	1	5	2	2	12	4	3	2	0	14	10	7	5	4	0	0	1	0	0	0	1	0
November	6.9	S.	30	S.	0	4	4	3	5	10	0	1	3	0	6	10	14	10	10	2	0	1	0	0	2	0	0
December	8.7	NW.	54	SW.	1	8	4	0	5	5	4	3	7	0	4	8	19	12	8	2	0	1	5	0	16	2	0
Year	7.1	S.	54	SW.	4	37	75	25	43	79	37	27	42	0	137	122	106	107	82	10	0	4	30	35	71	45	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

FLAGSTAFF, ARIZ.

[λ=35° 12′ N.; φ=111° 37′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	23.316	23.580	22.930	16.8	34.5	42.6	13.0	27.8	60	−12	.....	.....	.....	.....	.....	.....	3.17	.95	3.1	5.4	5.2
February	23.299	23.522	22.955	21.4	40.1	46.2	18.2	32.2	60	0	.....	.....	.....	.....	.....	.....	1.76	1.17	1.8	4.6	3.6
March	23.224	23.543	22.881	22.5	38.3	43.0	19.0	31.0	57	− 8	.....	.....	.....	.....	.....	.....	2.72	1.24	3.9	4.9	5.1
April	23.293	23.385	23.009	30.8	56.8	62.5	28.5	45.5	73	13	.....	.....	.....	.....	.....	.....	.37	.36	2.2	3.4	3.3
May	23.275	23.406	22.771	34.7	61.4	66.5	32.9	49.7	77	25	.....	.....	.....	.....	.....	.....	.69	.54	2.5	3.8	3.2
June	23.340	23.533	23.203	46.0	76.6	81.1	43.2	62.2	92	24	.....	.....	.....	.....	.....	.....	.16	.16	0.7	2.8	2.0
July	23.416	23.542	23.180	48.2	75.7	79.7	46.4	63.0	92	35	.....	.....	.....	.....	.....	.....	1.28	.76	1.9	4.2	3.5
August	23.446	23.535	23.316	50.5	70.1	76.4	50.0	63.2	93	41	.....	.....	.....	.....	.....	.....	6.10	.98	4.8	6.1	5.6
September	23.410	23.561	23.091	43.4	67.0	73.6	41.2	57.4	86	22	.....	.....	.....	.....	.....	.....	1.12	.46	2.4	3.7	3.3
October	23.403	23.560	23.176	31.3	56.1	64.0	29.5	46.8	74	21	.....	.....	.....	.....	.....	.....	0	0	1.9	3.1	2.7
November	23.276	23.494	22.967	25.9	36.8	45.2	20.7	33.0	62	− 7	.....	.....	.....	.....	.....	.....	6.75	2.56	3.6	3.8	3.9
December	23.336	23.553	22.879	18.7	30.7	41.6	13.9	27.8	58	−12	.....	.....	.....	.....	.....	.....	1.74	.90	3.1	4.0	3.8
Year	23.336	23.580	22.771	32.5	53.7	60.2	29.7	45.0	93	−12	.....	.....	.....	.....	.....	.....	25.86	2.56	2.7	4.2	3.8

FORT SMITH, ARK.

[λ=35° 22′ N.; φ=94° 24′ W.]

January	29.694	30.052	29.239	30.6	41.1	47.2	28.2	37.7	71	10	25	26	80	59	.137	.149	2.65	.78	5.4	3.7	4.9
February	29.512	29.933	28.457	30.2	39.8	44.4	28.6	36.5	61	12	24	28	78	65	.138	.162	1.08	.81	5.5	5.2	6.0
March	29.464	30.007	29.021	46.3	56.2	62.4	43.6	53.0	76	25	36	34	69	47	.285	.227	5.19	1.66	5.3	4.2	4.7
April	29.479	29.784	29.132	55.1	67.8	72.6	53.1	62.8	88	37	45	46	71	49	.320	.328	1.81	.94	5.1	4.4	4.6
May	29.447	29.654	28.913	67.6	78.3	83.3	64.1	73.7	93	53	61	63	80	61	.555	.587	2.26	.53	5.0	4.3	4.9
June	29.397	29.728	28.879	72.8	84.4	89.7	68.7	79.2	98	54	65	64	77	53	.628	.613	1.66	1.00	4.8	2.3	4.0
July	29.514	29.676	29.364	74.3	83.6	89.5	71.2	80.4	97	63	68	67	82	59	.695	.700	.70	.21	4.3	4.8	5.1
August	29.459	29.662	29.268	73.9	87.6	93.2	71.6	82.4	101	64	66	68	85	54	.712	.695	3.07	2.75	3.4	2.6	3.2
September	29.491	29.904	29.243	60.0	73.1	79.0	58.3	68.6	91	42	55	58	84	60	.450	.495	3.21	.69	4.4	3.7	4.1
October	29.567	29.833	29.151	53.9	67.6	74.5	52.9	63.7	83	42	50	52	86	59	.372	.402	2.82	2.28	3.9	2.2	3.4
November	29.527	29.793	29.078	51.7	57.7	62.8	48.9	55.8	79	30	47	49	85	74	.345	.367	7.41	2.17	7.4	6.6	7.2
December	29.624	30.034	28.810	35.2	41.6	46.5	32.4	39.4	67	19	31	32	84	71	.179	.191	3.26	1.26	6.3	6.4	6.9
Year	29.514	30.052	28.457	54.3	64.9	70.4	51.8	61.1	101	10	48	49	80	59	.397	.410	35.12	2.75	5.0	4.2	4.9

FORT WORTH, TEX.[a]

[λ=32° 43′ N.; φ=97° 15′ W.]

January	29.466	29.769	28.994	35.5	.....	54.7	33.2	44.0	74	13	30	.....	80	....	.173	.....	.42	.21	4.8	3.3	5.0
February	29.285	29.822	28.448	37.5	.....	57.2	34.9	46.0	81	15	30	.....	75	....	.181	.....	.36	.12	5.6	4.1	6.3
March	29.240	29.717	28.780	48.3	.....	68.7	47.0	57.8	94	31	38	.....	70	....	.250	.....	3.80	1.50	4.2	2.9	3.6
April	29.238	29.551	29.033	59.3	.....	79.9	57.5	68.7	93	43	54	.....	84	....	.426	.....	1.81	1.12	4.8	4.3	4.6
May	29.200	29.403	28.843	68.6	.....	83.7	66.0	74.8	93	55	64	.....	87	....	.613	.....	4.31	2.02	5.6	4.5	4.4
June	29.172	29.497	28.963	74.7	.....	94.0	72.5	83.2	103	58	65	.....	73	....	.633	.....	.58	.36	2.3	1.8	2.2
July	29.291	29.462	29.188	74.2	.....	90.5	72.8	81.6	98	68	70	.....	87	....	.736	.....	6.29	2.46	5.9	4.4	4.3
August	29.246	29.379	29.137	76.9	.....	97.5	75.9	86.7	103	72	69	.....	78	....	.713	.....	T.	T.	1.1	1.4	0.5
September	29.275	29.654	29.109	64.1	.....	84.1	61.6	72.8	96	48	60	.....	87	....	.543	.....	2.40	1.44	4.2	2.8	3.0
October	29.325	29.573	29.089	57.6	.....	78.2	56.2	67.2	89	44	52	.....	84	....	.406	.....	1.40	1.39	2.9	1.9	2.1
November	29.276	29.466	28.988	53.7	.....	65.6	51.4	58.5	79	33	51	.....	91	....	.404	.....	5.89	3.25	6.9	6.2	6.6
December	29.381	29.715	28.675	39.2	.....	54.9	36.5	45.7	77	23	33	.....	78	....	.202	.....	1.05	.68	3.6	4.5	4.5
Year	29.283	29.822	28.448	57.5	.....	75.8	55.5	65.6	103	13	51	....	81	....	.440	.....	29.31	3.25	4.3	3.5	3.9

FRESNO, CAL.

[λ=36° 43′ N.; φ=119° 49′ W.]

January	29.791	29.987	29.444	37.9	48.7	50.0	36.4	43.2	63	24	36	39	94	72	.218	.245	.41	.29	2.7	4.9	7.7
February	29.724	29.926	29.342	46.2	60.2	62.0	43.1	52.6	80	29	42	46	88	62	.277	.316	2.44	.69	4.9	6.4	6.6
March	29.683	30.108	29.374	43.5	60.7	62.0	42.0	52.0	80	36	39	42	83	52	.235	.273	1.14	.41	2.7	4.2	4.3
April	29.664	29.850	29.414	47.9	69.1	71.2	46.8	59.0	84	39	42	46	82	47	.274	.339	.70	.28	3.0	3.9	3.9
May	29.562	29.751	29.319	51.7	77.3	78.3	50.5	64.4	90	44	43	38	72	26	.276	.242	.01	.01	2.1	3.5	3.2
June	29.438	29.773	29.243	61.7	95.1	95.6	60.9	78.2	108	45	42	37	49	15	.264	.234	T.	T.	0.8	0.8	0.5
July	29.493	29.644	29.265	64.8	96.4	97.2	63.5	80.4	110	54	44	38	49	14	.295	.232	.00	.00	0.7	1.4	1.4
August	29.501	29.762	29.327	63.0	94.9	95.4	61.4	78.4	110	55	50	40	65	17	.358	.253	T.	T.	0.9	1.3	1.2
September	29.492	29.624	29.342	61.8	91.8	92.4	59.5	76.0	104	49	49	41	64	18	.347	.267	.00	.00	1.6	1.0	1.9
October	29.601	29.849	29.352	53.0	75.7	77.6	51.0	64.3	88	44	47	47	80	41	.323	.335	.42	.30	1.9	2.7	2.5
November	29.681	29.906	29.360	43.4	58.4	60.8	41.8	51.3	73	33	41	46	90	65	.258	.319	2.25	1.88	0.9	4.3	4.4
December	29.759	29.906	29.586	40.5	52.9	55.2	38.6	46.9	72	29	37	43	90	71	.227	.283	.54	.46	2.5	4.9	5.9
Year	29.616	30.108	29.243	51.3	73.4	74.8	49.6	62.2	110	24	43	42	76	42	.279	.278	7.91	1.88	2.1	3.2	3.6

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

FLAGSTAFF, ARIZ.

[H=6,907 ft.; h_t=12 ft.; h_r= 3 ft.; h_a=25 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurora.
	Miles.		*Mi.*																								
January		E.				5	7	16	2	6	10	9	6	1	8	13	10	10	8	10	0	0	9	0	31	0	0
February		W.				8	2	1	1	6	12	13	12	1	17	6	5	6	5	6	0	0	0	0	28	0	0
March		SW.				4	8	4	0	4	17	13	11	1	14	6	11	11	9	11	0	0	2	0	31	1	0
April		SW.				2	0	0	1	0	29	15	10	3	15	10	5	2	1	1	0	0	0	0	25	0	0
May		SW.				3	1	3	0	6	20	15	10	4	17	10	4	2	2	2	1	0	0	0	14	0	0
June		SW.				4	2	2	0	1	24	14	9	4	19	11	0	1	1	0	0	0	0	2	2	0	0
July		SW.				13	4	3	2	4	17	8	11	0	15	14	2	3	3	0	0	0	0	2	0	2	0
August		SW.				11	3	1	2	3	15	11	14	2	8	6	17	17	17	0	0	0	0	2	0	8	0
September		NW.				4	6	11	1	3	12	11	12	0	17	8	5	6	6	0	0	0	0	0	4	0	0
October		SW.				7	5	12	1	5	14	8	8	2	20	10	1	0	0	0	0	0	0	0	21	0	0
November		SW.				3	8	7	4	6	17	2	11	2	15	7	8	8	7	5	0	0	3	0	25	0	0
December		NE.				7	13	7	5	3	5	10	9	3	16	11	4	6	6	6	0	0	5	0	31	0	0
Year		SW.				71	59	67	19	47	192	129	128	23	181	112	72	72	65	41	1	0	19	6	212	11	0

FORT SMITH, ARK.

[H=457 ft.; h_t=79 ft.; h_r=72 ft.; h_a=94 ft.]

January	8.6	E.	41	NW.	2	5	10	16	4	3	6	10	8	0	12	10	9	10	6	2	0	1	4	0	21	0	0
February	10.1	E.	42	E.	2	3	7	20	2	1	4	8	11	0	5	13	10	5	2	1	0	0	2	0	19	2	0
March	12.2	E.	46	NW.	4	2	5	20	7	1	7	8	12	0	6	21	4	9	6	0	0	0	0	0	4	4	0
April	9.3	E.	40	SW.	1	5	6	19	6	16	3	6	5	0	8	18	4	12	8	0	0	0	0	0	0	5	0
May	8.3	E.	50	SW.	1	3	6	24	17	7	1	1	3	0	5	23	3	10	8	0	0	0	0	2	0	8	0
June	9.7	E.	46	SW.	2	6	4	24	5	17	2	0	2	0	7	23	0	6	6	0	0	0	0	14	0	6	0
July	7.7	E.	28	S.	0	4	4	19	12	15	1	2	4	1	3	27	1	9	6	0	0	0	0	12	0	6	0
August	7.2	E.	64	W.	1	6	4	33	4	13	1	0	1	0	16	14	1	3	3	0	0	0	0	23	0	8	0
September	8.4	E.	46	NW.	1	5	5	29	0	4	3	5	8	1	10	17	3	11	10	0	0	1	0	1	0	7	0
October	7.7	E.	34	W.	0	4	6	24	9	4	4	3	8	0	18	8	5	8	6	0	0	1	0	0	0	2	0
November	9.0	E.	40	NW.	1	4	2	28	5	4	2	8	7	0	1	16	13	12	9	0	0	1	0	0	1	3	0
December	9.4	E.	55	E.	0	3	2	25	1	2	8	9	12	0	5	9	17	11	8	2	0	2	0	0	15	1	0
Year	9.0	E.	64	W.	15	50	61	281	72	81	42	60	81	2	96	199	70	106	78	5	1	5	6	52	60	52	0

FORT WORTH, TEX.

[H=670 ft.; h_t=106 ft.; h_r=3 ft.; h_a=114 ft.]

January	10.9	SW.	48	NW.	1	9	5	4	11	10	8	3	12	0	12	12	7	7	4	0	0	5	4	0	13	0	0
February	12.9	NW.	38	SW.	0	8	5	3	6	12	3	4	15	0	3	15	10	6	4	2	0	3	0	0	11	1	0
March	13.7	NW.	52	S.	4	6	8	6	7	11	7	5	12	0	18	8	5	5	5	0	1	2	0	1	1	4	0
April	13.6	S.	48	NE.	4	4	7	7	9	19	7	0	7	0	11	16	3	8	5	0	0	0	0	3	0	6	0
May	11.7	SE.	38	SW.	0	3	6	4	25	18	5	0	0	1	10	16	5	10	6	0	0	0	0	1	0	6	0
June	15.2	S.	48	NW.	2	0	6	1	10	31	12	0	0	0	25	3	2	5	3	0	0	0	0	25	0	4	0
July	11.6	S.	48	S.	2	1	6	3	14	30	4	2	2	0	11	17	3	12	8	0	0	0	0	19	0	13	0
August	10.4	S.	24	S.	0	0	2	4	13	31	11	1	0	0	29	2	0	0	0	0	0	0	0	31	0	3	0
September	10.4	SE.	48	NE.	2	6	9	7	16	10	2	2	8	0	16	10	4	5	5	0	0	0	0	5	0	5	0
October	10.1	S.	37	SW.	0	5	7	4	15	14	5	8	2	2	23	6	2	8	2	0	0	0	0	0	0	1	0
November	10.7	SE.	36	NW.	0	2	10	1	20	10	1	5	11	0	5	11	14	11	8	0	0	3	0	0	0	3	0
December	10.8	N.	38	SW.	0	12	4	2	9	11	7	4	12	1	13	8	10	10	3	1	0	3	0	0	8	0	0
Year	11.8	S.	52	S.	15	56	75	46	155	207	72	34	81	4	176	124	65	82	53	3	1	16	4	85	33	46	0

FRESNO, CAL.

[H=330 ft.; h_t=67 ft.; h_r=54 ft.; h_a=70 ft.]

January	4.1	NW.	24	NW.	0	4	3	8	4	6	4	4	29	0	4	4	23	4	2	0	0	17	0	0	9	0	0
February	5.6	NW.	30	SW.	0	5	2	12	12	3	1	1	20	0	6	8	14	14	9	0	3	0	0	0	1	0	0
March	6.0	NW.	23	SE.	0	3	4	4	9	1	2	2	37	0	12	15	4	7	6	0	1	1	0	0	0	1	0
April	6.5	NW.	28	NW.	0	9	0	3	3	2	0	4	39	0	16	9	5	6	4	0	1	0	0	0	0	1	0
May	9.0	NW.	36	W.	0	1	1	2	0	0	1	16	41	0	19	6	6	1	0	0	0	0	0	1	0	0	0
June	8.0	NW.	23	NW.	0	2	1	0	0	0	0	6	50	1	28	2	0	0	0	0	0	0	0	25	0	0	0
July	7.2	NW.	20	NW.	0	1	0	0	2	2	1	5	51	0	26	5	0	0	0	0	0	0	0	26	0	0	0
August	5.6	NW.	17	NW.	0	3	0	0	1	0	1	18	44	0	27	3	1	0	0	0	0	0	0	24	0	1	0
September	4.9	NW.	19	W.	0	2	0	1	0	1	3	19	33	1	22	7	1	0	0	0	0	0	0	18	0	0	0
October	4.3	W.	15	W.	0	2	2	4	5	8	2	21	17	1	21	6	4	2	2	0	0	0	0	0	0	0	0
November	3.7	NW.	14	NW.	0	0	2	16	11	2	5	4	20	0	13	11	6	3	3	0	0	4	0	0	0	0	0
December	3.5	E.	14	S.	0	3	10	18	6	3	2	9	11	0	10	7	14	3	3	0	1	10	0	0	8	1	0
Year	5.7	NW.	36	W.	0	35	25	68	53	28	22	104	392	3	204	83	78	40	29	0	3	35	0	94	18	4	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

GALVESTON, TEX.

[λ=29° 18′ N.; φ=94° 50′ W.]

Month.	Pressure.			Temperature.							Moisture.									
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	30.086	30.354	29.761	49.2	52.5	56.6	46.8	51.7	70	32	45	48	88	84	.315	.344	.92	.33	5.4	4.4	5.6
February	29.920	30.333	29.133	48.8	52.9	57.2	46.5	51.8	72	34	44	46	85	80	.305	.325	2.12	.64	7.2	5.6	5.8
March	29.887	30.316	29.420	59.3	63.2	66.6	57.9	62.2	77	41	53	54	82	75	.432	.438	.92	.50	4.3	3.7	5.6
April	29.904	30.185	29.663	66.7	69.4	72.7	65.9	69.3	78	56	63	65	88	85	.586	.619	2.85	1.84	6.3	4.6	4.5
May	29.860	30.004	29.460	75.4	77.8	80.1	74.2	77.2	85	66	71	71	86	80	.751	.770	2.72	1.28	7.1	5.1	5.2
June	29.826	30.000	29.511	80.0	82.9	85.5	78.8	82.2	88	69	72	72	77	70	.796	.786	8.22	6.36	3.6	2.1	2.4
July	29.941	30.041	29.799	80.7	82.8	86.2	78.4	82.3	91	71	74	73	79	72	.829	.803	2.81	1.78	5.3	5.0	4.6
August	29.891	30.003	29.773	80.5	84.3	86.9	80.3	83.6	89	77	74	75	82	74	.852	.873	0.00	0.00	2.5	2.3	2.6
September	29.858	30.179	29.719	76.2	80.1	83.3	74.8	79.0	90	61	71	72	85	76	.776	.791	7.11	1.97	4.7	5.3	5.4
October	29.946	30.205	29 733	69.6	74.0	76.5	68.2	72.4	85	59	64	64	84	73	.617	.612	1.48	1.25	3.7	3.0	3.4
November	29.932	30.150	29.536	66.0	67.7	71.9	61.2	68.0	79	43	62	62	87	83	.577	.587	6.59	2.90	5.3	4.2	5.6
December	30.038	30.378	29.573	53.8	57.4	62.3	51.1	56.7	72	34	49	51	85	80	.371	.400	1.93	.74	5.7	3.8	5.1
Year	29.924	30.378	29.133	67.2	70.4	73.8	65.6	69.7	91	32	62	63	84	78	.601	.613	37.67	6.36	5.1	4.1	4.6

GRAND HAVEN, MICH.

[λ=43° 5′ N.; φ=86° 13′ W.]

January	29.403	30.132	28.969	23.8	25.9	30.2	19.3	24.8	41	0	20	20	85	78	.112	.111	.53	.14	8.5	7.2	7.6
February	29.264	29.776	28.022	17.6	24.2	28.8	15.4	22.1	46	0	15	20	88	82	.090	.108	1.48	.64	6.7	5.8	6.6
March	29.264	29.759	28.367	33.3	37.9	44.6	29.2	36.9	64	7	29	31	84	77	.167	.182	3.64	1.30	6.6	5.3	6.0
April	29.244	29.596	28.456	39.6	43.7	50.4	35.0	42.7	72	23	34	34	81	71	.200	.206	1.59	.87	5.8	6.0	5.4
May	29.329	29.632	29.026	52.3	59.1	65.2	47.2	56.2	84	31	46	48	80	68	.331	.357	4.58	1.15	6.1	5.0	4.7
June	29.230	29.538	28.739	58.1	61.0	68.1	52.7	60.4	82	45	52	54	82	78	.407	.421	3.85	.73	6.3	6.6	5.7
July	29.297	29.557	29.055	66.7	71.3	76.1	62.2	69.2	85	52	63	64	87	77	.574	.589	4.85	2.07	5.7	5.6	5.2
August	29.282	29.540	28.915	61.6	67.1	73.1	55.8	64.4	80	46	57	59	85	75	.472	.504	.58	.25	4.8	4.3	4.5
September	29.292	29.548	28.856	57.6	60.4	66.0	52.0	59.0	79	40	52	52	83	75	.398	.398	5.23	2.22	5.6	6.2	6.4
October	29.329	29.753	28.764	47.7	51.7	57.6	43.3	50.4	67	32	43	45	84	78	.289	.305	3.17	1.79	5.8	4.5	5.8
November	29.307	29.578	28.906	42.8	46.1	51.2	39.7	45.4	65	27	39	40	86	80	.245	.263	2.76	1.00	8.1	6.9	7.4
December	29.344	29.858	28.697	27.3	28.3	32.7	23.5	28.1	46	10	24	25	85	85	.129	.135	*2.60	.86	8.9	8.6	8.8
Year	29.299	30.132	28.022	44.0	48.1	53.7	39.6	46.6	85	0	40	41	84	77	.284	.298	34.81	2.22	6.6	6.0	6.2

GRAND JUNCTION, COLO.

[λ=39° 9′ N.; φ=108° 33′ W.]

January	25.437	25.776	24.800	20.9	34.8	42.8	17.3	30.0	53	— 2	14	16	72	46	.078	.089	.37	.17	3.2	4.4	4.6
February	25.365	25.665	24.854	24.2	39.8	46.1	22.5	34.3	58	— 4	17	21	71	47	.097	.114	.44	.34	3.1	5.5	5.4
March	25.273	25.731	24.837	29.5	45.1	50.8	27.6	39.2	63	17	19	18	65	35	.107	.100	.45	.16	5.7	5.3	5.8
April	25.273	25.463	24.843	42.8	63.2	68.9	40.1	54.5	84	31	21	17	42	17	.117	.097	.13	.13	4.5	5.4	4.6
May	25.249	25.502	24.773	51.3	71.7	77.5	47.5	62.5	89	37	30	28	47	23	.179	.167	.37	.22	4.1	4.8	4.3
June	25.243	25.444	25.016	61.7	86.0	90.7	57.3	74.0	101	40	34	34	37	19	.198	.207	.04	.03	2.5	3.2	2.4
July	25.360	25.560	25.032	62.8	84.3	90.5	60.1	75.3	101	48	36	34	40	21	.223	.208	.81	.36	3.1	4.4	3.6
August	25.379	25.545	25.178	63.2	84.0	90.2	61.1	75.6	103	52	40	38	47	23	.262	.241	.77	.53	4.1	4.6	4.5
September	25.369	25.597	25.052	52.2	75.1	81.4	50.0	65.7	94	39	31	32	46	24	.176	.184	.85	.85	1.5	2.9	2.5
October	25.418	25.668	25.130	43.8	60.6	69.3	40.6	55.0	78	32	26	26	49	28	.137	.143	.43	.43	4.0	3.0	3.4
November	25.363	25.722	24.998	32.5	43.5	50.4	29.3	39.8	68	18	22	24	64	47	.120	.131	1.10	.66	4.5	4.2	4.8
December	25.478	25.789	25.031	17.0	27.8	33.8	14.5	24.2	51	0	10	18	72	66	.069	.100	.50	.27	4.1	5.2	4.4
Year	25.350	25.789	24.773	41.8	59.7	66.0	39.0	52.5	103	— 4	25	26	54	33	.147	.148	6.26	.85	3.7	4.4	4.2

GREEN BAY, WIS.

[λ=44° 31′ N.; φ=88° 0′ W.]

January	29.436	30.188	28.912	16.2	21.1	27.4	11.3	19.4	40	—18	11	14	76	71	.074	.085	.45	.16	6.5	3.6	6.4
February	29.302	29.838	28.014	12.8	22.6	28.3	10.6	19.4	50	— 8	8	15	80	70	.070	.093	1.39	1.34	5.2	3.9	5.5
March	29.298	29.818	28.276	30.7	36.0	42.9	27.8	35.4	64	2	25	29	78	74	.142	.167	2.65	1.21	5.8	7.0	6.6
April	29.265	29.643	28.433	37.9	44.9	53.4	33.6	43.5	79	18	30	33	72	63	.169	.191	1.49	1.15	6.1	7.2	6.4
May	29.340	29.725	28.969	51.4	59.1	66.4	46.5	56.4	86	31	45	46	79	64	.315	.330	4.20	.85	6.4	6.2	6.9
June	29.233	29.547	28.792	57.6	64.7	71.1	51.7	61.4	85	41	50	50	77	60	.377	.367	4.71	1.95	6.3	6.8	6.8
July	29.289	29.600	29.010	65.8	72.8	80.9	61.7	71.3	91	51	59	61	80	67	.514	.538	4.10	1.14	7.1	7.0	7.5
August	29.335	29.584	28.951	60.3	67.7	75.1	55.9	65.5	85	47	54	55	81	65	.431	.444	1.23	.77	5.6	5.5	6.0
September	29.308	29.645	28.938	53.3	59.0	66.4	48.7	57.6	79	36	48	48	82	70	.342	.353	2.63	.94	6.6	5.9	6.7
October	29.348	29.733	28.827	43.2	49.3	57.7	39.5	48.6	73	26	38	40	82	70	.239	.251	1.56	1.29	6.7	5.7	6.7
November	29.311	29.690	28.876	38.6	41.0	48.1	34.2	41.2	64	20	33	34	79	74	.198	.205	1.42	.49	7.8	7.2	7.9
December	29.388	29.898	28.898	19.8	23.3	28.4	16.0	22.2	42	— 7	14	18	77	77	.087	.100	1.78	.40	7.9	7.0	8.2
Year	29.320	30.188	28.014	40.6	46.8	53.8	36.5	45.2	91	—18	35	37	79	69	.246	.260	27.61	1.95	6.5	6.1	6.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

GALVESTON, TEX.

[H=54 ft.; h_t=106 ft.; h_r=98 ft.; h_a=112 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	12.1	SE.	37	NW.	0	12	12	9	12	5	1	3	8	0	11	9	11	10	5	0	0	3	0	0	0	0	0
February	12.7	SE.	39	NW.	0	11	13	4	12	1	5	3	7	0	9	9	10	9	8	0	0	2	0	0	0	2	0
March	13.5	SE.	40	NW.	1	7	8	10	18	8	3	3	5	0	10	9	12	7	5	0	0	12	0	0	0	2	0
April	12.7	SE.	52	NE.	2	4	7	3	27	14	4	1	0	0	10	15	5	5	5	0	2	2	0	0	0	4	0
May	12.6	SE.	36	SE.	0	0	2	1	45	5	6	1	2	0	10	14	7	7	6	0	0	0	0	0	0	5	0
June	12.9	SE.	49	SE.	1	2	1	2	34	17	0	2	2	0	25	2	3	5	4	0	0	0	0	0	0	4	0
July	11.3	SE.	28	SE.	0	1	3	0	31	18	3	3	3	0	11	15	5	10	6	0	0	0	0	1	0	11	0
August	9.0	S.	22	S.	0	0	0	0	10	35	13	4	6	0	24	7	0	0	0	0	0	0	0	0	0	0	0
September	10.1	SE.	35	N.	0	5	8	7	15	12	8	1	4	0	11	12	7	9	8	0	0	0	0	0	0	6	0
October	10.2	NE.	31	SE.	0	6	19	8	15	3	2	0	9	0	17	12	2	7	2	0	0	2	0	0	0	4	0
November	12.7	SE.	40	NW.	1	5	5	16	21	4	2	2	5	0	9	11	10	12	12	0	0	2	0	0	0	2	0
December	12.5	SE.	46	NW.	2	8	9	13	14	4	3	3	8	0	12	9	10	10	7	0	0	2	0	0	0	2	0
Year	11.9	SE.	52	NE.	7	61	87	73	254	126	50	26	53	0	159	124	82	91	68	0	2	25	0	1	0	42	0

GRAND HAVEN, MICH.

[H=632 ft.; h_t=54 ft.; h_r=49 ft.; h_a=92 ft.]

January	13.7	NW.	45	W.	1	6	3	8	10	2	10	8	14	1	4	8	19	11	5	11	0	0	15	0	31	0	0
February	11.4	W.	44	W.	1	7	3	2	4	8	6	9	15	2	8	5	15	12	7	10	0	1	20	0	28	0	1
March	13.6	S.	48	SW.	4	6	8	7	10	7	9	3	12	0	10	7	14	14	11	7	0	0	4	0	15	1	0
April	13.7	W.	48	W.	1	7	1	4	6	10	8	8	15	1	10	11	9	8	5	1	0	0	1	0	10	2	0
May	11.6	E.	36	SW.	0	5	6	13	9	8	8	3	10	0	12	13	6	10	9	1	0	0	0	0	1	11	0
June	11.2	W.	38	SW.	0	4	6	3	8	9	8	12	10	0	8	12	10	17	13	0	0	1	0	0	0	8	0
July	9.9	SW.	32	SW.	0	6	1	4	3	12	23	8	4	1	9	14	8	11	9	0	0	1	0	0	0	10	0
August	8.5	NW.	34	SW.	0	14	3	9	3	10	3	3	16	1	11	15	5	4	2	0	1	0	0	0	0	2	0
September	11.3	SW.	37	SW.	0	5	8	2	11	8	4	8	12	2	7	10	13	12	8	0	0	4	0	0	0	2	0
October	11.7	SW.	39	SW.	0	4	9	7	7	7	13	5	10	0	9	8	14	9	8	0	1	0	0	0	1	2	0
November	14.5	S.	42	SW.	3	7	5	4	11	7	13	7	6	0	2	10	18	14	11	2	0	0	0	0	5	0	0
December	15.3	SW.	39	SW.	0	13	10	6	7	0	13	11	2	0	2	5	24	14	12	10	0	3	14	0	26	0	0
Year	12.2	SW.	48	W.	10	84	63	69	89	88	118	85	126	8	92	118	155	136	100	42	2	10	54	0	115	38	1

GRAND JUNCTION, COLO.

[H=4,608 ft.; h_t=43 ft.; h_r=36 ft.; h_a=51 ft.]

January	4.2	SE.	26	SW.	0	4	6	12	13	3	3	8	13	0	15	4	12	6	3	6	0	0	6	0	31	0	0
February	4.4	NW.	23	N.	0	7	3	4	7	0	2	7	26	0	9	11	8	4	3	2	1	1	3	0	25	0	0
March	6.3	NW.	31	S.	0	7	7	5	13	1	2	12	15	0	9	7	15	7	3	3	1	0	0	0	23	0	0
April	7.2	SE.	44	SW.	1	3	6	10	13	2	7	8	10	1	11	14	5	1	1	0	0	0	0	0	2	2	0
May	6.6	SE.	27	W.	0	3	4	7	24	4	3	5	11	1	14	11	6	5	4	0	0	0	0	0	3	2	0
June	6.2	NW.	32	SW.	0	4	3	9	13	0	9	7	15	0	21	7	2	2	0	0	0	0	0	20	0	2	0
July	6.4	NW.	31	SE.	0	1	3	9	24	1	3	4	17	0	17	9	5	6	3	0	2	0	0	19	0	7	0
August	5.4	E.	32	SW.	0	5	3	9	23	1	4	2	15	0	12	12	7	5	2	0	1	0	0	16	0	8	0
September	5.3	SE.	26	SW.	0	7	2	7	16	1	5	8	14	0	22	5	3	2	2	0	0	0	0	7	0	1	0
October	4.9	SE.	27	SW.	0	2	1	6	18	2	1	10	21	1	16	10	5	2	2	0	1	0	0	0	0	3	0
November	4.4	NW.	24	NW.	0	2	4	9	13	1	3	11	17	0	9	15	6	7	4	2	0	1	0	0	22	0	0
December	3.6	E.	17	NW.	0	5	6	9	14	1	5	6	15	1	12	12	7	4	3	4	0	2	16	0	31	0	0
Year	5.4	SE.	44	SW.	1	50	48	96	191	17	47	88	189	4	167	117	81	51	30	17	6	4	25	62	134	26	0

GREEN BAY, WIS.

[H=617 ft.; h_t=49 ft.; h_r=43 ft.; h_a=86 ft.]

January	7.9	SW.	32	NW.	0	9	0	1	3	11	18	11	8	1	7	12	12	7	5	7	0	0	22	0	31	0	0
February	9.8	SW.	32	W.	0	6	2	1	5	9	16	13	4	0	10	11	7	5	2	3	0	0	19	0	25	0	0
March	11.1	NE.	38	SW.	0	11	10	5	11	4	10	4	7	0	7	8	16	7	5	5	0	3	4	0	17	2	0
April	12.0	NW.	46	SW.	3	10	5	3	11	4	10	6	11	0	6	10	14	6	5	2	0	1	1	0	11	2	0
May	10.5	SE.	43	W.	2	6	14	5	14	5	11	3	4	0	3	14	14	17	12	1	0	1	0	0	1	6	0
June	10.0	SW.	46	SW.	1	5	5	4	12	7	13	7	7	0	3	13	14	15	13	0	0	0	0	0	0	7	0
July	9.8	SW.	47	NW.	2	1	8	3	10	10	22	5	4	0	1	15	15	11	9	0	0	0	0	1	0	6	0
August	8.2	SE.	38	SW.	0	6	3	5	19	6	9	5	9	0	5	18	8	9	6	0	0	0	0	0	0	2	0
September	11.3	SW.	40	SW.	1	4	11	0	8	11	17	5	4	0	5	12	13	8	7	0	0	0	0	0	3	3	0
October	11.2	NW.	42	W.	2	6	8	2	11	8	11	4	12	0	4	11	16	7	4	0	0	0	0	0	3	1	0
November	11.9	SW.	40	NE.	1	7	6	1	9	8	17	8	4	0	3	9	18	8	6	1	0	0	0	0	11	1	0
December	11.7	SW.	46	N.	2	12	6	4	1	7	18	6	8	0	3	7	21	15	10	12	0	1	21	0	28	0	0
Year	10.4	SW.	47	NW.	14	83	78	33	114	90	172	77	82	1	57	140	168	116	84	31	0	6	67	1	127	30	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

HANNIBAL, MO.[a]

[λ=39° 41′ N.; φ=91° 20′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.621	30.236	29.302	23.5	.....	36.9	19.6	28.2	60	— 8	18	....	80	....	.105	.....	.78	.37	4.6	.....	4.4
February	29.492	29.864	28.240	15.4	.....	30.4	12.9	21.6	50	— 8	12	....	86	....	.083	.....	.68	.50	5.7	.....	5.3
March	29.373	29.989	28.702	38.4	.....	51.8	25.8	43.8	73	8	32	....	77	....	.197	.....	2.95	1.78	6.4	.....	6.0
April	29.429	29.680	28.985	45.2	.....	62.8	41.2	52.0	89	26	36	....	71	....	.222	.....	2.99	1.65	3.8	.....	4.0
May	29.398	29.665	29.097	63.4	.....	77.7	58.7	68.2	91	46	56	....	79	....	.473	.....	4.83	2.18	6.6	.....	5.6
June	29.334	29.653	28.879	65.8	.....	78.2	60.7	69.4	93	44	61	....	84	....	.543	.....	6.22	1.29	5.9	.....	6.1
July	29.419	29.672	29.277	73.0	.....	86.6	67.5	77.0	94	56	67	....	82	....	.666	.....	2.96	.97	4.5	.....	4.7
August	29.399	29.620	29.200	67.6	.....	82.2	63.8	73.0	93	52	64	....	87	....	.595	.....	4.02	1.18	7.2	.....	6.3
September	29.406	29.788	29.058	56.4	.....	72.8	52.5	62.6	84	34	53	....	88	....	.411	.....	2.36	.58	4.5	.....	4.8
October	29.454	29.750	29.138	50.4	.....	69.6	47.8	58.7	82	30	47	....	88	....	.328	.....	2.94	1.49	5.0	.....	4.2
November	29.425	29.694	29.119	45.9	.....	57.9	41.0	49.4	78	27	42	....	88	....	.256	.....	2.53	1.03	7.8	.....	6.6
December	29.517	30.094	28.964	25.9	.....	35.0	22.4	28.7	56	— 1	23	....	88	....	.130	.....	1.76	.51	6.6	.....	6.4
Year	29.439	30.236	28.240	47.6	.....	61.8	43.7	52.7	94	— 8	43	....	83	....	.337	.....	35.02	2.18	5.7	.....	5.4

HARRISBURG, PA.[b]

[λ=40° 16′ N.; φ=76° 52′ W.]

January	29.704	30.348	28.893	24.7	.....	33.8	21.5	27.6	47	12	19	....	79	....	.107	.....	3.28	1.81	6.8	.....	6.5
February	29.498	29.964	29.024	23.3	.....	32.4	20.9	26.6	55	7	17	....	76	....	.107	.....	3.98	1.77	6.4	.....	6.2
March	29.595	30.056	28.944	39.3	.....	51.5	35.1	43.3	70	16	30	....	69	....	.180	.....	2.98	1.30	5.4	.....	5.5
April	29.543	29.940	29.101	46.6	.....	59.7	42.2	51.0	88	31	35	....	66	....	.216	.....	2.73	1.02	6.7	.....	6.6
May	29.640	29.977	29.318	58.4	.....	71.8	52.2	62.0	89	40	44	....	62	....	.321	.....	.29	.10	5.5	.....	5.7
June	29.534	30.101	29.171	65.9	.....	78.6	59.4	69.0	91	49	53	....	65	....	.423	.....	4.76	1.61	5.3	.....	5.9
July	29.616	29.861	29.400	69.8	.....	83.3	65.3	74.3	95	57	62	....	78	....	.673	.....	3.68	1.03	6.1	.....	6.2
August	29.584	29.862	29.355	65.9	.....	80.2	60.9	70.6	91	51	58	....	78	....	.502	.....	2.26	1.29	4.5	.....	4.8
September	29.632	29.952	29.256	60.1	66.6	73.7	54.9	64.3	89	42	55	55	83	67	.444	.444	4.01	2.11	5.2	3.5	5.3
October	29.687	30.137	29.191	49.9	57.0	63.3	46.9	55.1	74	34	43	46	79	67	.294	.321	5.81	1.85	4.5	3.5	5.1
November	29.701	30.135	29.144	44.3	50.8	56.2	41.3	48.8	72	29	39	41	82	71	.244	.273	1.49	.51	5.8	5.1	6.7
December	29.703	30.287	29.046	27.8	31.4	35.7	24.4	30.0	54	13	23	24	80	73	.124	.133	4.57	1.02	6.5	5.0	6.6
Year	29.620	30.348	28.893	48.0	.....	60.0	43.8	51.9	95	7	40	....	75	....	.295	.....	39.84	2.11	5.7	.....	5.9

HATTERAS, N. C.

[λ=35° 15′ N.; φ=75° 40′ W.]

January	30.114	30.675	29.480	40.0	41.7	47.8	36.1	42.0	62	24	36	38	86	85	.220	.238	1.40	.81	3.8	4.4	4.4
February	29.891	30.371	29.359	36.9	39.2	44.8	33.6	39.2	62	24	34	35	87	85	.206	.211	3.62	1.30	4.9	2.9	4.7
March	30.015	30.472	29.449	49.1	49.7	56.9	44.5	50.7	72	25	45	46	86	86	.311	.315	2.78	.68	5.1	3.8	4.2
April	29.977	30.274	29.444	55.6	57.2	61.9	51.5	56.7	76	41	50	52	81	83	.371	.396	1.86	1.09	4.8	3.2	4.4
May	30.054	30.363	29.684	67.8	67.0	73.2	63.3	68.2	82	55	61	62	81	83	.555	.562	2.16	.71	4.4	3.1	4.4
June	29.966	30.428	29.527	75.2	73.5	79.5	71.2	75.4	86	62	67	68	78	84	.683	.700	2.66	.98	3.9	3.2	4.6
July	30.042	30.247	29.879	79.2	77.0	84.3	75.1	79.7	92	70	72	71	78	82	.786	.766	2.59	1.38	2.9	3.3	4.1
August	29.971	30.184	29.749	77.1	74.9	81.8	72.1	77.0	87	63	70	70	79	84	.743	.735	4.04	1.15	3.5	3.7	4.8
September	30.020	30.222	29.695	72.3	71.3	77.6	68.9	73.2	86	61	67	67	83	86	.666	.671	5.12	1.39	4.7	2.9	4.8
October	30.066	30.247	29.531	66.7	65.7	72.6	62.9	67.8	81	51	60	60	80	84	.535	.546	4.85	1.91	3.6	2.1	4.5
November	30.074	30.421	29.568	59.3	59.4	65.4	55.9	60.6	75	42	56	56	88	90	.459	.466	6.13	2.78	5.7	3.6	5.8
December	30.103	30.497	29.580	46.8	49.1	54.6	42.9	48.8	71	27	43	45	86	85	.293	.321	2.92	1.57	5.6	3.8	6.1
Year	30.024	30.675	29.359	60.5	60.5	66.7	56.5	61.6	92	24	55	56	83	85	.486	.494	40.13	2.78	4.4	3.3	4.7

HAVRE, MONT.

[λ=48° 34′ N.; φ=109° 40′ W.]

January	27.433	27.832	26.997	18.8	23.8	32.5	12.0	22.2	59	—26	13	17	80	78	.097	.109	.24	.08	4.6	4.5	4.7
February	27.285	27.784	26.556	13.3	21.6	26.1	8.4	17.2	50	—20	11	17	88	84	.079	.107	.27	.10	5.1	6.6	6.1
March	27.231	27.838	26.822	25.5	38.8	43.1	22.1	32.6	59	—10	21	25	82	60	.114	.137	.09	.06	5.8	5.5	5.4
April	27.272	27.610	26.800	31.9	53.1	57.4	30.5	44.0	72	17	26	29	78	41	.142	.166	.15	.08	5.0	5.8	4.6
May	27.193	27.610	26.664	47.1	64.4	67.7	44.8	56.2	88	29	42	46	84	54	.276	.318	4.77	1.01	5.3	5.4	5.0
June	27.288	27.713	26.854	48.7	65.0	68.1	46.4	57.2	88	35	44	46	85	54	.297	.322	3.80	1.47	4.3	5.7	4.6
July	27.290	27.609	26.836	55.4	76.0	79.2	52.8	66.0	98	45	49	48	79	41	.348	.346	.79	.63	3.6	3.9	3.6
August	27.333	27.643	27.112	53.1	77.3	80.6	51.5	66.0	92	38	47	49	80	40	.324	.358	.66	.27	3.9	3.3	3.0
September	27.317	27.755	26.818	43.8	64.5	70.7	40.3	55.5	86	27	38	44	81	51	.233	.301	.42	.16	5.0	4.3	4.6
October	27.346	27.645	27.085	36.0	54.7	61.7	33.5	47.6	80	17	31	41	83	62	.178	.258	.24	.13	4.1	4.2	3.9
November	27.235	27.606	26.780	23.4	28.3	35.2	18.0	26.6	57	3	20	24	86	82	.111	.129	.99	.55	5.4	6.5	6.0
December	27.345	27.923	26.706	9.2	11.0	18.3	1.0	9.6	41	—24	6	8	88	86	.068	.065	.52	.27	4.7	5.5	6.4
Year	27.297	27.923	26.556	33.8	48.2	53.4	30.1	41.7	98	—26	29	33	83	61	.189	.218	12.94	1.47	4.7	5.1	4.8

[a] 8 a. m. observation.

[b] 8 a. m. observation only from January to August, inclusive.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

HANNIBAL, MO.

[H=534 ft.; h_t=75 ft.; h_r=68 ft.; h_a=110 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction & time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.0	SW.	26	S.	0	5	2	3	2	1	8	4	6	0	15	9	7	7	5	7	0	0	10	0	28	0	0
February	8.4	SW.	31	NW.	0	1	3	4	0	3	9	4	4	0	10	10	8	7	3	4	0	0	20	0	25	0	0
March	11.8	NW.	47	NW.	1	3	2	4	5	5	2	4	6	0	6	14	11	9	7	1	9	1	2	0	9	1	0
April	11.1	NW.	52	W.	4	2	5	4	2	4	4	4	5	0	14	14	2	9	8	0	0	0	0	0	3	7	0
May	9.5	SW.	43	SW.	2	2	4	6	4	5	9	0	1	0	7	14	10	12	9	0	0	0	0	1	0	8	0
June	8.6	S.	37	SW.	0	3	4	6	0	7	7	0	3	0	6	12	12	13	10	0	0	0	0	4	0	7	0
July	8.2	S.	34	SE.	0	2	1	1	1	11	11	1	3	0	11	14	6	9	8	0	0	0	0	8	0	6	0
August	7.2	E.	37	SW.	0	3	5	6	4	2	6	2	2	1	5	13	13	9	7	0	0	0	0	3	0	9	0
September	8.4	SW.	33	SW.	0	5	2	2	4	1	10	2	4	0	14	6	10	11	10	0	0	0	2	0	0	3	0
October	8.9	SW.	32	NW.	0	2	2	4	1	4	12	1	3	2	14	12	5	7	7	0	0	0	1	0	1	2	0
November	9.6	SW.	37	W.	0	6	1	2	2	4	11	1	3	0	5	12	13	9	8	1	0	0	3	0	7	0	0
December	10.2	N.	31	NE.	0	7	3	2	4	2	5	4	3	1	9	5	17	11	9	5	1	3	10	0	23	1	0
Year	9.2	SW.	52	W.	7	41	34	44	29	49	94	27	43	4	116	135	114	113	91	18	2	10	42	16	96	44	0

HARRISBURG, PA.

[H=374 ft.; h_t=94 ft.; h_r=87 ft.; h_a=104 ft.]

January	8.5	NW.	33	NW.	0	2	5	6	1	0	2	6	9	0	8	5	18	11	8	9	0	1	9	0	30	0	0
February	11.4	NW.	49	W.	3	4	1	4	1	0	5	2	11	0	7	7	14	8	8	5	0	0	16	0	23	1	0
March	10.2	NW.	38	NW.	0	3	5	6	0	3	4	1	9	0	9	10	12	10	8	1	0	0	1	0	7	1	0
April	10.2	NW.	43	W.	2	3	3	4	1	1	5	4	9	0	5	11	14	7	6	0	0	0	0	0	1	0	0
May	7.5	W.	37	W.	0	2	3	7	2	1	4	5	7	0	9	13	9	7	3	0	0	0	0	0	0	4	0
June	7.4	W.	37	NW.	0	0	2	7	2	1	3	12	3	0	6	16	8	15	10	0	0	0	0	2	0	5	0
July	5.2	W.	36	NW.	0	1	5	4	3	2	5	6	5	0	8	10	13	14	10	0	0	1	0	4	0	15	0
August	4.9	W.	36	NE.	0	8	4	5	0	2	3	7	2	0	11	16	4	6	5	0	0	3	0	1	0	6	0
September	5.8	E.	39	NW.	0	4	5	19	6	3	4	4	12	3	11	9	10	10	7	0	0	2	0	0	0	1	0
October	6.7	E.	34	NW.	0	8	5	14	3	5	9	12	6	0	13	8	10	9	7	0	0	1	0	0	0	0	0
November	5.6	E.	33	NW.	0	4	6	13	3	4	4	10	10	6	4	12	14	9	8	1	0	3	0	0	2	0	0
December	8.0	W.	33	NW.	0	8	3	15	1	4	6	13	12	0	6	11	14	17	11	8	0	2	8	0	25	0	0
Year	7.6	W.	49	W.	5	47	47	104	23	26	54	82	95	9	97	128	140	123	91	24	1	12	34	7	88	33	0

HATTERAS, N. C.

[H=11 ft.; h_t=12 ft.; h_r=34 ft.; h_a=47 ft.]

January	16.0	N.	46	N.	3	21	11	2	1	3	4	11	9	0	17	5	9	9	6	0	0	2	1	0	7	0	0
February	17.0	NW.	49	NW.	4	13	15	2	2	5	3	4	12	0	15	3	10	8	7	0	0	4	0	0	12	2	0
March	15.1	SW.	46	NE.	3	6	13	5	8	6	11	6	6	1	17	7	7	11	10	0	0	2	0	0	1	2	0
April	16.5	SW.	51	NW.	3	8	12	3	3	5	16	8	5	0	14	9	7	5	5	0	0	0	0	0	0	1	0
May	10.9	SW.	b36	N.	b0	5	16	3	7	6	17	6	2	0	13	13	5	6	6	0	0	0	0	0	0	5	0
June	11.9	SW.	c47	W.	c1	3	14	5	5	12	16	5	0	0	12	10	8	8	6	0	0	0	0	0	0	7	0
July	11.8	SW.	30	S.	0	1	16	8	4	7	18	5	3	0	15	12	4	6	5	0	0	0	0	3	0	3	0
August	11.8	SW.	52	W.	3	8	18	3	4	1	19	6	3	0	15	10	6	11	10	0	0	0	0	0	0	7	0
September	12.6	NE.	36	N.	0	5	21	6	7	5	8	2	6	0	11	9	10	13	10	0	0	0	0	0	0	1	0
October	12.4	NE.	47	N.	3	11	23	10	5	2	4	4	3	0	12	12	7	9	7	0	0	0	0	0	0	1	0
November	13.9	NE.	48	W.	3	8	23	2	2	4	10	4	6	1	10	5	15	12	11	0	0	1	0	0	0	1	0
December	15.4	N.	d60	SW.	2	17	10	2	3	5	8	4	13	0	10	6	15	11	10	0	0	2	0	0	3	0	0
Year	13.8	SW.	60	SW.	25	106	192	51	51	61	134	65	68	2	161	101	103	109	93	0	0	11	1	3	23	30	0

HAVRE, MONT.

[H=2,505 ft.; h_t=46 ft.; h_r=38 ft.; h_a=53 ft.]

January	11.7	SW.	50	SW.	1	3	8	2	1	0	22	16	10	0	14	11	6	8	3	8	0	0	14	0	28	0	1
February	8.1	NE.	30	SW.	0	1	13	5	2	2	13	16	4	0	7	11	10	9	2	7	0	1	18	0	27	0	0
March	11.8	SW.	44	SW.	2	0	13	6	3	1	17	11	11	0	10	14	7	3	1	3	0	1	5	0	27	0	2
April	11.0	SW.	36	SW.	0	3	8	10	5	0	14	14	6	0	8	20	2	2	2	0	0	0	0	0	18	0	0
May	10.7	SW.	36	N.	0	1	9	10	7	0	13	13	9	0	13	12	6	17	14	0	0	0	0	0	1	4	0
June	8.5	NE.	36	NW.	0	2	11	8	5	3	9	9	13	0	9	19	2	12	9	1	0	0	0	0	0	6	1
July	9.1	SW.	40	SW.	1	1	8	4	2	2	14	13	13	5	18	10	3	5	3	0	0	0	0	0	0	2	0
August	9.1	SW.	39	W.	0	1	10	4	2	3	17	20	5	0	17	14	0	6	4	0	0	0	0	3	3	4	0
September	10.4	SW.	48	SW.	3	1	9	0	3	1	16	11	18	1	12	15	3	6	5	1	0	0	0	0	0	2	0
October	7.1	W.	44	SW.	1	2	11	7	2	2	14	17	3	4	16	12	3	4	2	0	0	1	0	0	12	0	0
November	11.5	SW.	47	SW.	1	1	15	5	0	1	24	11	2	1	8	9	13	5	3	4	0	1	13	0	29	0	1
December	9.5	NE.	48	SW.	2	3	22	2	0	0	18	13	2	2	8	6	17	6	3	6	0	1	22	0	31	0	0
Year	9.9	SW.	50	SW.	11	19	137	63	32	15	191	164	96	13	140	153	72	83	51	30	1	5	72	6	175	16	5

a By eye observations when there is no self-register at station.
b For 17 days.
c For 16 days.
d Estimated.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

HELENA, MONT.

[λ=46° 34′ N.; φ=112° 4′ W.]

Month.	Pressure.			Temperature.							Moisture.									
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	25.885	26.243	25.569	19.2	23.7	30.4	14.7	22.6	63	−24	13	15	76	67	.094	.099	.14	.06	4.5	4.8	5.1
February	25.693	25.959	25.104	26.2	32.8	36.6	22.4	29.5	52	−12	19	22	74	64	.109	.122	.46	.17	6.5	6.4	5.9
March	25.668	26.089	25.321	27.5	37.2	40.5	24.9	32.7	52	− 7	19	22	70	55	.104	.117	.58	.18	5.3	6.9	6.3
April	25.723	25.988	25.448	34.5	47.1	51.4	32.5	42.0	65	23	26	27	71	48	.143	.149	.60	.24	6.9	6.7	6.5
May	25.673	26.021	25.216	44.9	59.5	62.5	42.9	52.7	84	30	37	37	73	46	.221	.225	3.61	1.66	6.4	6.0	6.2
June	25.749	26.114	25.397	48.7	65.3	67.7	46.2	57.0	87	32	38	35	67	36	.229	.211	.46	.16	5.9	6.1	6.3
July	25.795	26.054	25.390	53.7	71.6	74.5	51.8	63.2	92	40	40	40	62	36	.253	.250	1.98	1.00	4.2	4.6	4.7
August	25.834	26.070	25.494	54.4	74.6	77.1	52.7	64.9	89	42	40	38	58	28	.244	.231	.32	.24	3.3	4.6	4.6
September	25.825	26.189	25.393	45.5	62.8	67.6	43.0	55.3	86	32	30	30	55	33	.163	.170	.39	.16	3.8	4.2	5.2
October	25.834	26.023	25.563	41.4	55.0	59.4	39.3	49.4	75	28	28	29	60	40	.155	.161	.21	.11	5.0	4.5	5.9
November	25.696	26.032	25.346	27.0	33.2	38.8	23.1	31.0	54	11	18	22	70	64	.100	.118	.59	.21	5.5	4.9	6.3
December	25.766	26.056	25.280	20.1	23.4	30.0	14.2	22.1	58	− 6	14	18	76	78	.080	.095	.75	.40	5.4	5.3	6.5
Year	25.762	26.243	25.104	36.9	48.8	53.0	34.0	43.5	92	−24	27	28	68	50	.158	.162	10.09	1.66	5.2	5.4	5.8

HOUGHTON, MICH.[a]

[λ=47° 3′ N.; φ=88° 34′ W.]

January	29.325	29.970	28.837	15.8	.....	25.8	8.7	17.2	39	−10	10	....	75	....	.070	.....	1.90	.64	8.7	.....	7.4
February	29.212	29.766	28.388	17.6	.....	27.5	14.2	20.8	51	− 8	12	....	78	....	.080	.....	1.34	.63	8.6	.....	8.0
March	29.212	29.724	28.168	27.0	.....	40.0	23.3	31.6	61	− 2	21	....	78	....	.118	.....	1.47	.50	6.5	.....	5.7
April	29.203	29.632	28.744	35.2	.....	46.7	30.8	38.8	72	16	28	....	75	....	.158	.....	2.48	.66	5.6	.....	5.3
May	29.286	29.747	28.972	46.8	.....	60.2	41.3	50.8	87	26	39	....	75	....	.248	.....	2.92	.78	6.7	.....	5.6
June	29.163	29.472	28.841	52.6	.....	65.3	46.1	55.7	75	37	45	....	76	....	.304	.....	2.25	.99	5.5	.....	5.1
July	29.204	29.519	28.992	63.6	.....	78.3	57.7	68.0	86	49	55	....	75	....	.441	.....	2.74	1.78	4.4	.....	4.1
August	29.257	29.475	28.727	57.9	.....	71.8	52.8	62.3	83	44	51	....	79	....	.383	.....	1.82	.88	5.2	.....	4.9
September	29.178	29.594	28.755	51.5	.....	63.3	47.8	55.6	79	37	46	....	82	....	.318	.....	2.59	1.04	6.6	.....	6.4
October	29.238	29.693	28.795	42.5	.....	52.4	38.0	45.2	66	27	35	....	76	....	.211	.....	2.57	1.69	6.5	.....	6.8
November	29.220	29.645	28.763	34.7	.....	41.4	31.2	36.3	62	16	29	....	80	....	.164	.....	3.18	1.00	8.4	.....	8.4
December	29.309	29.847	28.796	20.5	.....	27.4	15.7	21.6	44	− 2	12	....	68	....	.080	.....	4.60	1.22	7.9	.....	8.0
Year	29.234	29.970	28.168	38.8	.....	50.0	34.0	42.0	87	−10	32	....	76	....	.215	.....	29.86	1.78	6.7	.....	6.3

HURON, S. DAK.

[λ=44° 21′ N.; φ=98° 14′ W.]

January	28.755	29.303	28.167	12.3	21.3	29.4	8.4	18.9	55	−20	8	13	83	68	.070	.086	.32	.27	2.8	3.0	4.6
February	28.623	29.122	27.759	12.1	19.2	25.4	7.7	16.6	35	−20	9	15	87	80	.077	.097	.39	.18	5.4	5.5	5.1
March	28.477	29.107	27.833	26.6	38.1	44.7	24.1	34.4	68	− 9	23	30	84	72	.134	.182	1.56	.84	7.8	7.5	5.9
April	28.570	29.014	27.872	34.2	51.0	56.4	30.7	43.6	90	13	29	35	80	56	.165	.211	1.11	.75	4.8	4.8	4.3
May	28.511	28.945	27.886	52.3	66.7	72.7	47.7	60.2	86	38	49	54	88	64	.357	.424	2.24	.50	6.1	4.8	4.7
June	28.540	28.896	28.159	55.4	68.9	72.9	50.8	61.8	92	32	51	56	86	66	.356	.474	3.35	1.56	6.5	4.7	5.2
July	28.530	28.973	28.138	62.5	78.2	84.4	58.5	71.4	101	48	59	62	88	60	.507	.573	1.53	.42	4.5	4.5	4.2
August	28.587	28.812	28.250	59.3	73.5	79.3	56.3	67.8	94	37	56	61	88	67	.450	.538	2.36	.98	4.8	5.1	5.8
September	28.562	28.980	28.179	45.4	64.1	71.1	42.5	56.8	94	25	40	42	81	46	.258	.277	.19	.15	4.7	3.5	3.9
October	28.602	28.953	28.236	36.9	55.0	64.3	33.5	48.9	81	20	33	36	85	51	.195	.217	.76	.33	4.2	2.9	4.1
November	28.567	28.975	28.215	27.3	35.6	43.8	23.4	33.6	64	6	23	23	81	59	.127	.124	.29	.17	4.2	5.0	5.6
December	28.687	29.287	28.165	8.9	13.1	20.1	1.8	11.0	41	−26	5	7	82	73	.061	.063	2.12	.95	5.1	3.7	6.0
Year	28.584	29.303	27.759	36.1	48.7	55.4	32.1	43.8	101	−26	32	36	84	64	.232	.272	16.42	1.56	4.9	4.6	5.0

INDEPENDENCE, CAL.

[λ=36° 48′ N.; φ=118° 12′ W.]

January	26.036	26.303	25.495	34.5	47.0	51.2	27.5	39.4	65	10	14	15	42	26	.084	.084	.04	.04	2.8	3.6	3.5
February	25.964	26.198	25.575	38.6	53.2	55.2	31.2	43.6	71	21	17	15	44	28	.099	.101	1.69	1.41	3.1	4.7	4.6
March	25.914	26.366	25.577	38.1	53.9	55.6	33.5	44.6	67	25	20	11	48	19	.108	.074	1.05	.92	1.9	3.3	3.0
April	25.897	26.060	25.506	47.5	66.7	69.6	42.3	56.0	82	30	21	14	35	13	.115	.082	.17	.11	1.2	3.4	2.5
May	25.845	26.011	25.579	51.9	72.5	74.8	48.3	61.6	88	35	27	20	38	14	.148	.108	.04	.04	1.2	3.3	2.6
June	25.849	26.032	25.622	64.8	88.4	89.9	60.9	75.4	99	39	25	23	23	10	.136	.127	.01	.01	0.4	0.9	0.7
July	25.919	26.059	25.601	67.3	88.3	90.2	63.8	77.0	100	49	31	30	27	14	.181	.170	.17	.17	0.8	2.5	2.2
August	25.952	26.136	25.791	65.4	84.6	87.5	62.3	74.9	100	57	32	28	30	15	.192	.166	.13	.08	1.9	4.1	2.9
September	25.961	26.124	25.567	63.3	82.7	85.8	59.8	72.8	97	45	26	26	26	14	.149	.153	T.	T.	1.5	3.4	3.0
October	25.972	26.166	25.657	52.0	68.3	72.5	47.9	60.2	80	38	23	21	34	17	.126	.113	.08	.08	0.9	2.5	2.3
November	25.967	26.238	25.589	38.5	49.8	56.2	34.5	45.4	68	27	22	20	52	34	.122	.113	.41	.36	1.9	5.3	4.3
December	26.041	26.194	25.774	34.2	44.6	51.3	29.6	40.4	70	22	18	19	49	36	.098	.111	.04	.04	4.0	5.5	5.1
Year	25.943	26.366	25.495	49.7	66.7	70.0	45.1	57.6	100	10	23	20	37	20	.130	.117	3.83	1.41	1.8	3.5	3.0

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

HELENA, MONT.

[H=4,110 ft.; h_t=88 ft.; h_r=80 ft.; h_a=94 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.2	SW.	38	SW.	0	3	7	2	2	1	30	10	7	0	11	10	10	7	1	6	0	1	12	0	27	0	0
February	6.2	SW.	38	SW.	0	0	5	2	0	0	27	14	8	0	5	13	10	4	3	3	0	0	6	0	20	0	0
March	7.7	SW.	33	SW.	0	6	4	2	2	1	31	12	3	1	4	13	14	11	7	10	0	0	4	0	22	0	0
April	8.6	SW.	32	SW.	0	3	2	2	0	3	23	21	5	1	3	14	13	7	3	5	0	0	0	0	12	0	1
May	7.8	SW.	38	SW.	0	0	5	2	1	1	36	8	8	1	7	9	15	16	13	0	1	0	0	0	1	9	0
June	7.9	SW.	36	SW.	0	7	5	1	0	0	23	10	12	2	6	10	14	8	6	0	0	0	0	0	0	4	0
July	8.0	SW.	30	W.	0	3	2	4	2	3	28	16	4	0	14	10	7	6	6	0	1	0	0	1	0	3	0
August	7.7	SW.	40	W.	1	1	6	2	1	1	30	14	7	0	10	16	5	3	2	0	1	0	0	0	0	8	0
September	7.7	SW.	32	W.	0	3	4	6	2	2	21	14	7	1	12	8	10	5	3	0	0	0	0	0	1	0	0
October	6.5	SW.	30	SW.	0	2	5	0	0	1	33	16	4	1	7	12	12	3	2	1	0	1	0	0	2	0	0
November	8.0	SW.	48	SW.	2	4	9	2	1	2	30	9	3	0	6	13	11	8	4	5	0	0	6	0	23	0	0
December	5.3	SW.	34	SW.	0	6	13	1	0	6	26	4	3	3	4	15	12	7	5	6	0	2	17	0	31	0	0
Year	7.3	SW.	48	SW.	3	38	67	26	11	21	338	148	71	10	89	143	133	85	55	36	3	4	45	1	139	24	1

HOUGHTON, MICH.

[H=668 ft.; h_t=66 ft.; h_r=57 ft.; h_a=74 ft.]

January	6.9	E.	34	NW.	0	6	1	7	1	4	0	5	6	1	6	7	18	19	13	19	0	3	22	0	31	0	0
February	6.8	NW.	23	NW.	0	4	1	3	2	1	1	5	10	1	3	4	21	11	7	11	0	0	18	0	26	0	0
March	7.0	E.	28	N.	0	2	0	9	7	2	2	6	2	1	10	8	13	8	7	6	0	2	5	0	25	1	0
April	8.2	NW.	30	N.	0	5	0	8	4	0	2	2	9	0	15	3	12	13	10	5	0	2	1	0	15	2	0
May	8.1	E.	37	NW.	0	2	1	12	6	1	1	5	3	0	8	12	11	12	12	0	1	1	0	0	2	3	0
June	8.0	W.	30	W.	0	3	0	7	5	0	0	10	5	0	10	12	8	11	7	0	0	2	0	0	0	2	0
July	6.3	E.	28	SW.	0	0	1	10	1	1	1	9	8	0	16	9	6	9	8	0	1	2	0	0	0	6	0
August	6.2	W.	35	NW.	0	2	1	9	3	1	0	10	5	0	12	14	5	9	7	0	0	1	0	0	0	1	0
September	7.6	W.	33	NW.	0	0	1	4	3	4	4	7	7	0	7	7	16	15	8	0	1	0	0	0	0	2	0
October	7.9	NW.	34	W.	0	1	2	7	4	2	2	5	8	0	7	7	17	12	10	3	0	0	0	0	3	3	0
November	6.8	NW.	34	NE.	0	3	2	6	5	1	6	1	6	0	2	5	23	14	11	8	0	1	3	0	16	0	0
December	7.4	NW.	27	N.	0	1	4	7	7	0	2	2	8	0	3	6	22	20	16	20	0	0	21	0	31	0	0
Year	7.3	E.	37	NW.	0	29	14	89	48	17	21	67	77	3	99	94	172	153	116	72	3	14	70	0	149	20	0

HURON, S. DAK.

[H=1,306 ft.; h_t=56 ft.; h_r=52 ft.; h_a=67 ft.]

January	10.7	NW.	37	S.	0	7	2	0	15	7	2	6	22	1	12	14	5	5	1	5	0	1	13	0	31	0	0
February	10.9	NW.	38	NW.	0	5	2	3	15	6	3	6	16	0	6	18	4	5	4	4	0	1	18	0	26	0	0
March	15.9	SE.	55	NW.	7	7	2	4	22	5	3	3	16	0	8	12	11	10	9	7	0	1	5	0	20	0	0
April	13.3	NW.	55	NW.	2	12	8	3	11	6	1	4	15	0	13	12	5	4	4	2	0	1	0	1	19	2	2
May	13.6	SE.	51	SE.	2	6	4	8	22	10	3	3	6	0	9	18	4	13	9	0	2	1	0	0	0	5	0
June	10.1	SE.	37	NW.	0	12	3	12	11	6	4	4	8	0	8	18	4	8	7	0	0	0	0	1	0	7	0
July	10.0	S.	42	S.	1	8	8	6	10	21	2	1	6	0	12	17	2	11	7	0	2	0	0	6	0	12	0
August	10.6	SE.	58	S.	1	7	4	7	17	10	5	3	8	1	6	19	6	14	10	0	0	2	0	2	0	11	0
September	12.6	SE.	44	S.	1	10	4	2	20	2	3	4	15	0	19	6	5	2	2	0	0	0	0	1	4	2	0
October	9.1	NW.	28	S.	0	5	7	4	16	6	0	5	19	0	16	10	5	6	5	2	0	2	0	0	11	3	0
November	11.1	NW.	40	SE.	1	13	1	1	15	9	4	4	13	0	12	6	12	4	2	2	0	1	3	0	25	0	0
December	12.3	SE.	61	SE.	3	12	7	2	18	6	1	2	14	0	10	7	14	9	7	9	0	0	26	0	31	0	0
Year	11.7	SE.	58	S.	18	104	52	52	192	94	31	45	158	2	131	157	77	91	67	29	4	10	65	11	107	42	2

INDEPENDENCE, CAL.

[H=3,910 ft.; h_t=51 ft.; h_r=43 ft.; h_a=58 ft.]

January	7.5	NW.	48	W.	2	9	0	1	16	1	3	14	18	0	12	18	1	1	1	0	0	0	1	0	19	0	0
February	7.4	S.	48	W.	2	6	0	0	15	14	2	8	11	0	10	13	5	3	3	0	0	0	0	0	20	0	0
March	11.4	N.	56	W.	2	15	1	0	7	9	4	10	16	0	15	16	0	3	3	0	0	0	0	0	8	0	0
April	10.0	NW.	48	SE.	2	10	1	2	5	5	1	16	20	0	17	13	0	3	2	0	1	0	0	0	1	1	0
May	10.0	NW.	40	NW.	1	8	0	0	13	6	2	10	23	0	20	11	0	1	1	0	0	0	0	0	0	0	0
June	8.8	NW.	36	NW.	0	6	0	2	15	4	1	5	26	1	28	2	0	1	0	0	0	0	0	0	17	1	0
July	8.5	NW.	52	NW.	1	0	0	0	21	8	4	5	22	2	24	5	2	1	1	0	0	0	0	0	20	0	2
August	7.4	NW.	38	E.	0	2	3	0	19	10	4	7	17	0	21	7	3	4	2	0	0	0	0	0	8	0	0
September	7.7	NW.	44	NW.	2	3	2	2	14	5	3	6	25	0	19	5	6	0	0	0	0	0	0	0	12	0	1
October	6.4	NW.	36	SE.	0	0	1	4	19	9	6	9	14	0	23	6	2	1	1	0	0	0	0	0	0	0	0
November	7.6	NW.	31	S.	0	2	4	2	9	6	2	3	32	0	15	7	8	4	3	3	0	0	0	0	12	0	0
December	5.7	NW.	32	SW.	0	5	1	1	12	6	5	9	23	0	13	11	7	1	1	0	0	0	0	0	21	0	0
Year	8.2	NW.	56	W.	12	66	13	14	165	83	37	102	247	3	217	114	34	23	18	3	1	0	1	57	81	10	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

INDIANAPOLIS, IND.

[λ=39° 46′ N.; φ=86° 10′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	29.252	29.923	28.715	24.2	30.7	35.2	21.4	28.3	56	1	20	22	83	69	.112	.120	.76	.34	5.2	4.2	5.3
February	29.109	29.942	27.924	17.2	25.6	30.3	15.0	22.6	54	— 5	12	18	79	72	.087	.104	.54	.21	5.4	4.2	5.6
March	29.088	29.623	28.395	37.8	45.6	50.6	35.2	42.9	69	10	31	35	77	68	.188	.225	3.08	.92	6.7	6.1	6.3
April	29.101	29.419	28.654	44.0	54.5	60.1	40.7	50.4	84	24	35	39	72	57	.215	.247	1.60	1.18	5.1	4.8	5.1
May	29.144	29.343	28.890	60.3	69.7	76.1	56.0	66.0	89	41	48	56	67	63	.353	.469	3.66	1.38	4.7	4.8	5.5
June	29.060	29.335	28.550	64.7	73.5	78.7	60.3	69.5	93	49	58	59	78	62	.491	.502	7.52	2.29	5.5	5.5	5.3
July	29.160	29.376	28.985	71.2	79.0	85.4	66.3	75.8	92	56	68	66	64	66	.490	.650	3.67	1.14	3.5	4.8	4.3
August	29.117	29.344	28.883	65.7	75.7	80.6	62.5	71.6	91	51	59	62	79	64	.508	.567	2.09	1.18	4.3	5.3	4.9
September	29.134	29.485	28.680	57.7	67.1	73.6	55.2	64.4	85	39	50	55	77	66	.376	.443	5.33	1.88	5.4	4.8	5.5
October	29.180	29.583	28.792	50.9	59.7	66.4	48.4	57.4	77	35	46	47	82	63	.316	.328	2.36	2.12	5.3	1.7	4.7
November	29.163	29.444	28.639	45.3	51.4	56.8	43.7	50.2	74	26	41	43	85	76	.266	.293	3.03	.72	6.8	5.2	6.3
December	29.198	29.653	28.234	26.3	31.1	36.3	23.1	29.7	53	5	23	26	86	83	.180	.151	4.06	.76	7.3	7.3	7.6
Year	29.143	29.923	27.924	47.1	55.3	60.8	44.0	52.4	93	— 5	40	44	77	67	.294	.342	37.70	2.29	5.4	4.9	5.5

JACKSONVILLE, FLA.

[λ=30° 20′ N.; φ=81° 39′ W.]

January	30.122	30.407	29.613	44.5	52.7	62.2	42.2	52.2	77	27	40	41	86	68	.270	.276	.08	.04	3.0	2.5	4.0
February	29.902	30.218	29.361	44.6	52.4	59.7	41.5	50.6	77	30	38	39	78	63	.254	.259	3.64	1.61	4.7	3.5	4.9
March	29.986	30.329	29.549	57.1	62.1	71.1	53.7	62.4	83	37	50	51	78	69	.390	.402	4.20	1.32	4.3	2.9	4.6
April	29.969	30.197	29.705	61.8	67.6	77.1	57.4	67.2	86	46	53	52	75	60	.431	.411	2.02	.86	2.4	2.4	2.9
May	29.969	30.141	29.722	74.6	76.0	86.4	69.2	77.8	93	64	66	66	74	72	.633	.645	1.82	1.26	2.4	3.6	3.2
June	29.901	30.177	29.659	78.0	79.8	89.0	71.6	80.3	98	65	70	70	77	72	.741	.727	3.65	1.05	2.8	4.3	3.8
July	30.002	30.164	29.895	79.0	81.5	92.4	73.7	83.0	101	69	72	72	79	72	.780	.772	6.69	2.50	3.7	5.5	4.6
August	29.928	30.054	29.760	77.7	80.5	88.8	73.8	81.0	98	66	73	72	85	76	.807	.786	4.74	1.84	3.3	3.8	4.4
September	29.938	30.048	29.759	74.7	75.8	84.0	70.9	77.4	91	65	71	72	89	88	.766	.778	12.78	3.02	5.5	6.1	6.8
October	29.955	30.337	29.666	68.0	71.7	78.7	65.1	71.9	87	47	63	64	84	78	.599	.618	5.90	2.71	6.0	5.2	5.8
November	30.004	30.229	29.599	61.9	65.8	72.8	59.0	65.9	81	36	59	61	91	84	.519	.547	4.18	1.64	5.9	3.6	6.3
December	30.060	30.313	29.590	51.6	57.9	65.5	48.7	57.1	79	24	47	48	84	72	.363	.373	5.82	4.22	3.6	3.0	4.3
Year	29.978	30.407	29.361	64.5	68.6	77.3	60.5	68.9	101	24	58	59	82	73	.546	.549	55.52	4.22	4.0	3.9	4.6

JUPITER, FLA.

[λ=26° 57′ N.; φ=80° 7′ W.]

January	30.097	30.302	29.661	57.2	61.6	70.5	55.1	62.8	77	38	52	55	84	80	.418	.458	.98	.76	5.1	3.5	4.5
February	29.944	30.186	29.544	57.2	62.0	70.2	53.7	62.0	82	38	52	55	84	77	.412	.440	4.64	2.84	4.0	3.8	4.7
March	30.016	30.309	29.766	67.4	68.4	76.2	63.1	69.6	88	40	61	61	79	78	.550	.556	.97	.43	4.3	3.3	4.0
April	29.988	30.198	29.762	70.9	71.7	79.5	64.9	72.2	86	49	61	63	72	74	.550	.580	.97	.71	3.8	2.8	3.4
May	29.975	30.121	29.768	78.3	76.8	84.6	71.1	77.8	92	66	69	68	73	75	.705	.698	4.88	2.27	4.4	3.3	4.0
June	29.929	30.078	29.732	80.5	79.4	85.6	75.3	80.4	90	71	74	73	81	82	.845	.825	3.92	2.57	5.4	5.5	5.1
July	30.038	30.188	29.945	82.2	80.3	87.8	75.3	81.6	90	70	75	74	79	81	.871	.837	4.73	1.39	4.4	4.7	5.0
August	29.956	30.063	29.794	81.9	80.9	89.2	76.0	82.6	96	73	75	74	80	79	.832	.833	1.91	.49	3.4	4.0	4.1
September	29.957	30.066	29.844	80.8	79.2	87.6	74.8	81.2	93	72	74	74	81	83	.848	.830	6.01	2.07	4.6	4.4	5.3
October	29.929	30.204	29.693	78.0	77.9	85.0	73.2	79 1	94	61	72	71	82	81	.798	.776	13.74	4.95	5.5	5.6	5.6
November	29.988	30.145	29.760	72.8	74.1	79.5	69.1	74.3	84	49	66	66	80	77	.651	.650	2.88	.68	5.5	3.9	5.6
December	30.054	30.281	29.822	65.3	67.9	75.4	62.7	69.0	86	39	58	59	79	75	.514	.534	.71	.55	3.8	2.7	3.6
Year	29.989	30.309	29.544	72.7	73.4	80.9	67.9	74.4	96	38	66	66	80	78	.665	.667	45.79	4.95	4.5	4.0	4.6

KALISPELL, MONT.

[λ=48° 10′ N.; φ=114° 25′ W.]

January	27.061	27.454	26.669	19.4	24.2	28.5	15.5	22.0	55	—18	16	19	88	80	.105	.115	.77	.18	6.2	7.0	6.4
February	26.827	27.132	26.149	23.1	30.8	34.5	19.8	27.2	50	—13	21	25	90	80	.116	.140	1.67	.42	7.9	8.5	6.7
March	26.800	27.221	26.397	27.3	39.0	43.0	26.0	34.5	53	6	22	25	80	58	.119	.137	.46	.14	5.7	7.0	5.2
April	26.846	27.142	26.413	31.7	48.2	51.9	30.5	41.2	61	23	27	26	80	45	.143	.143	.59	.20	6.8	7.2	4.4
May	26.798	27.120	26.419	42.7	58.5	61.8	41.3	51.6	83	31	38	39	84	54	.233	.240	4.50	1.23	6.8	7.3	5.4
June	26.877	27.232	26.517	44.4	62.7	66.6	42.3	54.4	83	32	39	39	83	45	.244	.241	1.51	.69	5.6	5.8	4.0
July	26.899	27.187	26.496	48.4	69.9	72.8	46.9	59.8	89	38	42	42	81	42	.278	.276	2.65	1.64	4.2	5.9	3.6
August	26.930	27.180	26.637	47.9	73.5	76.0	47.0	61.5	88	35	42	43	80	36	.268	.286	.95	.51	3.0	4.1	2.5
September	26.935	27.299	26.489	40.2	60.9	64.0	37.6	50.8	81	30	34	36	78	42	.193	.213	.76	.31	4.3	4.3	4.3
October	26.958	27.155	26.664	35.9	52.6	58.3	34.2	46.2	71	27	33	38	87	59	.186	.229	.16	.11	4.8	6.0	4.4
November	26.823	27.271	26.444	29.2	33.9	38.1	26.6	32.4	48	11	26	28	87	79	.140	.152	2.95	1.16	6.8	8.1	7.8
December	26.911	27.248	26.365	23.1	26.5	30.6	19.0	24.8	40	6	20	23	88	87	.107	.123	2.24	.66	8.1	7.9	9.0
Year	26.889	27.454	26.149	34.4	48.4	52.2	32.2	42.2	89	—18	30	32	84	59	.177	.191	19.21	1.64	5.8	6.5	5.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

INDIANAPOLIS, IND.

[H=822 ft.; h_t=154 ft.; h_r=146 ft.; h_a=164 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	10.8	NW.	37	NW.	0	8	6	1	6	9	6	9	17	0	10	12	9	5	5	5	0	0	10	0	28	0	0
February	10.8	N.	44	S.	2	15	5	2	5	3	9	10	7	0	9	8	11	8	6	6	0	0	19	0	23	0	0
March	13.5	SE.	47	S.	4	5	10	2	15	6	3	13	8	0	7	11	13	12	11	2	0	0	4	0	11	2	0
April	12.4	NW.	56	SW.	5	5	4	4	1	7	8	10	21	0	8	15	7	7	5	1	0	2	0	0	4	3	0
May	9.9	S.	49	S.	1	4	11	3	4	18	9	4	9	0	4	24	3	12	10	0	1	0	0	0	0	9	0
June	6.9	S.	37	SW.	0	6	5	3	4	16	4	5	17	0	9	13	8	13	10	0	0	0	0	2	0	10	0
July	8.8	S.	40	W.	1	8	6	0	2	22	9	3	12	0	10	18	3	11	9	0	0	0	0	7	0	8	0
August	7.6	N.	44	W.	1	18	11	2	5	6	8	6	6	0	10	18	3	9	5	0	0	0	0	1	0	3	0
September	8.6	S.	36	SW.	0	9	0	2	11	18	8	4	8	0	8	13	9	10	8	0	1	1	0	0	0	1	0
October	10.0	S.	48	SE.	1	6	7	3	8	15	10	6	7	0	9	17	5	4	4	0	1	1	0	0	0	3	0
November	10.4	S.	38	S.	0	9	3	2	10	17	7	4	8	0	6	10	14	14	11	2	0	1	0	0	3	2	0
December	12.7	S.	48	SW.	2	7	5	1	7	14	11	13	4	0	5	3	23	17	12	8	1	1	10	0	24	1	0
Year	10.2	S.	56	SW.	17	100	73	25	78	151	92	87	124	0	95	162	108	122	95	24	4	6	43	10	93	42	0

JACKSONVILLE, FLA.

[H=43 ft.; h_t=101 ft.; h_r=88 ft.; h_a=129 ft.]

January	7.2	NE.	40	SW.	1	3	18	3	4	6	5	8	15	0	15	8	8	3	1	0	0	6	0	0	2	0	0
February	9.3	W.	55	S.	1	3	7	2	5	2	8	12	17	0	10	9	9	9	8	0	1	1	0	0	2	3	0
March	8.8	SE.	32	W.	0	2	12	4	14	6	6	8	10	0	11	12	8	14	12	0	0	0	0	0	0	6	0
April	7.4	NW.	31	SW.	0	4	8	7	12	5	7	5	12	0	19	9	2	6	6	0	0	1	0	0	0	5	0
May	7.2	SE.	27	N.	0	4	10	14	18	2	8	3	3	0	16	14	1	8	4	0	0	1	0	0	4	9	0
June	8.1	SW.	42	SW.	1	1	3	11	19	5	12	5	4	0	12	15	3	11	10	0	0	0	0	12	0	11	0
July	6.7	SW.	36	S.	0	2	1	5	17	13	18	4	2	0	10	16	5	16	10	0	0	1	0	23	0	20	0
August	9.4	SW.	41	NW.	1	8	11	3	6	4	22	4	4	0	13	12	6	15	11	0	0	1	0	13	0	13	0
September	8.8	NE.	38	S.	0	11	14	9	5	5	11	5	0	0	3	13	14	17	15	0	0	0	0	1	0	13	0
October	10.5	N.	36	SW.	0	20	14	5	5	1	4	7	6	0	7	14	10	11	9	0	0	0	0	0	0	2	0
November	9.2	N.	40	SW.	1	18	13	2	5	7	3	1	11	0	5	13	12	12	8	0	0	1	0	0	0	1	0
December	9.1	NW.	45	SW.	1	13	6	2	5	7	5	6	18	0	14	9	8	5	3	0	0	1	0	0	3	3	0
Year	8.5	SW.	55	S.	6	89	117	67	115	63	109	68	102	0	135	144	86	127	97	0	2	12	0	53	7	86	0

JUPITER, FLA.

[H=28 ft.; h_t=10 ft.; h_r=3 ft.; h_a=48 ft.]

January	11.7	NW.	33	W.	0	11	5	4	5	10	4	5	18	0	11	16	4	5	3	0	0	0	0	0	0	0	0
February	13.3	NW.	48	W.	2	10	1	2	3	6	8	10	16	0	9	15	4	7	6	0	0	0	0	0	0	4	0
March	14.2	S.	36	W.	0	10	1	7	11	19	3	6	5	0	15	16	0	7	6	0	0	0	0	0	0	1	0
April	11.4	SE.	27	NE.	0	11	6	8	14	9	3	2	7	0	16	14	0	5	3	0	0	0	0	0	0	5	0
May	11.6	SE.	48	NW.	1	0	4	20	21	6	5	5	1	0	10	20	1	7	7	0	0	0	0	2	0	7	0
June	12.3	E.	48	SW.	1	1	1	23	12	8	6	6	3	0	10	14	6	10	9	0	0	0	0	1	0	8	0
July	8.0	SE.	34	SW.	0	2	5	4	21	10	9	5	6	0	7	18	6	11	9	0	0	0	0	1	0	16	0
August	7.0	W.	30	W.	0	3	10	9	7	6	6	17	4	0	14	16	1	13	6	0	0	0	0	5	0	11	0
September	6.0	S.	25	SW.	0	0	6	6	7	16	9	13	3	0	5	21	4	20	15	0	0	0	0	3	0	11	0
October	8.9	NE.	32	NE.	0	9	11	9	6	6	9	4	8	0	6	19	6	17	15	0	0	0	0	2	0	10	0
November	11.0	E.	36	NE.	0	8	7	16	12	1	4	8	4	0	6	19	5	14	11	0	0	0	0	0	0	3	0
December	10.8	NW.	30	S.	0	4	10	10	2	9	2	12	13	0	16	14	1	3	3	0	0	1	0	0	0	1	0
Year	10.5	SE.	48	SW.	4	69	67	118	121	106	68	93	88	0	125	202	38	119	93	0	0	1	0	14	0	77	0

KALISPELL, MONT.

[H=2,965 ft.; h_t=45 ft.; h_r=37 ft.; h_a=51 ft.]

January	4.3	W.	23	SW.	0	4	1	1	6	6	9	26	9	0	7	7	17	12	6	9	0	1	17	0	27	0	0
February	3.7	W.	17	NW.	0	1	2	2	4	3	4	29	11	0	8	5	15	16	13	14	0	2	10	0	25	0	0
March	5.6	W.	32	NW.	0	3	0	5	12	5	13	19	5	0	7	18	6	10	8	8	0	0	1	0	25	0	0
April	6.3	W.	34	SW.	0	2	0	3	11	3	15	17	9	0	10	17	3	13	6	3	1	0	0	0	19	0	0
May	5.9	SE.	27	N.	0	3	1	3	20	4	5	18	8	0	10	10	11	17	14	1	0	0	0	0	1	3	0
June	6.0	W.	25	W.	0	3	4	1	8	3	6	24	10	1	12	17	1	9	7	0	3	1	0	0	1	3	0
July	5.7	W.	42	SW.	1	4	1	5	12	2	11	22	5	0	17	8	6	6	5	0	0	0	0	0	0	2	0
August	5.9	W.	28	NW.	0	1	0	5	14	1	10	21	10	0	23	6	2	8	3	0	1	0	0	0	0	2	0
September	5.9	W.	33	SW.	0	4	1	1	11	1	9	26	7	0	13	10	7	7	4	0	0	0	0	0	4	1	0
October	4.6	W.	24	SW.	0	2	0	5	11	6	8	19	11	0	11	13	7	2	2	0	0	1	0	0	13	0	0
November	4.7	W.	25	SW.	0	0	0	0	1	9	11	21	18	0	3	9	18	15	12	9	0	1	3	0	23	0	0
December	3.8	W.	27	SW.	0	1	0	1	4	2	6	35	12	1	1	4	26	17	10	15	0	1	14	0	31	0	0
Year	5.2	W.	42	SW.	1	28	10	32	114	45	107	277	115	2	122	124	119	132	85	59	5	7	45	0	169	11	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

KANSAS CITY, MO.

[λ=39° 5′ N.; φ=94° 37′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.169	29.684	28.659	24.6	33.4	39.1	22.4	30.8	64	− 7	18	22	74	63	.103	.122	.77	.41	4.3	3.5	3.9
February	29.027	29.457	27.930	18.7	27.0	30.8	16.1	23.4	55	− 7	15	18	83	67	.092	.105	.97	.44	6.0	4.9	5.4
March	28.932	29.501	28.370	38.0	49.1	53.5	36.1	44.8	72	10	30	33	73	55	.179	.203	2.74	.91	6.0	4.8	5.4
April	28.978	29.282	28.445	46.3	58.8	64.3	43.7	54.0	90	29	36	37	69	48	.227	.239	1.02	.39	5.1	4.8	4.6
May	28.930	29.196	28.469	63.2	73.7	78.4	60.4	69.4	90	48	57	59	81	62	.480	.511	5.77	2.63	6.9	5.7	6.0
June	28.905	29.238	28.480	65.2	74.1	78.3	62.6	70.4	95	50	59	60	81	64	.509	.528	4.20	1.26	6.5	4.8	6.0
July	28.981	29.287	28.773	71.3	81.5	86.2	69.0	77.6	95	59	66	68	84	65	.646	.689	9.63	3.62	3.7	3.6	4.3
August	28.956	29.240	28.670	69.4	79.8	85.1	67.3	76.2	96	58	64	66	84	66	.602	.653	3.77	.87	6.0	3.3	5.0
September	28.973	29.371	28.608	56.6	66.5	73.0	54.7	63.8	85	40	50	52	79	63	.372	.408	5.23	2.30	3.6	4.5	4.4
October	29.003	29.254	28.430	52.5	63.8	70.5	51.6	61.0	82	36	46	48	79	58	.317	.347	2.49	1.71	3.2	2.5	2.6
November	28.992	29.255	28.687	44.2	50.3	56.7	41.4	49.0	75	24	41	43	87	76	.274	.300	2.04	1.16	6.0	4.9	6.8
December	29.083	29.615	28.286	25.8	30.8	35.6	22.5	29.0	56	0	22	25	85	79	.126	.140	1.89	.91	6.0	6.1	6.3
Year	28.994	29.684	27.930	48.0	57.4	62.6	45.6	54.1	96	− 7	42	44	80	64	.327	.354	40.52	3.62	5.3	4.4	5.1

KEOKUK, IOWA.

[λ=40° 22′ N.; φ=91° 26′ W.]

January	29.503	30.144	28.997	21.2	28.8	35.5	19.5	27.5	57	−10	16	22	81	74	.096	.121	.44	.14	3.5	3.0	3.7
February	29.371	29.775	28.110	14.0	24.3	29.2	12.9	21.0	52	− 6	9	17	90	74	.073	.104	1.02	.68	3.7	3.6	3.9
March	29.284	29.809	28.546	36.7	44.2	49.4	34.9	42.2	71	6	32	35	83	70	.199	.221	2.24	1.52	5.4	5.6	6.1
April	29.310	29.593	28.659	43.6	55.9	62.1	40.9	51.5	89	26	36	41	76	60	.221	.272	3.13	2.12	2.6	3.3	3.5
May	29.292	29.563	28.921	61.9	71.0	77.1	58.3	67.7	92	45	56	59	80	66	.460	.507	3.63	1.29	5.0	3.9	4.6
June	29.242	29.548	28.768	68.9	77.4	76.9	59.8	68.4	93	46	59	61	83	71	.503	.551	7.59	1.76	4.9	5.3	6.0
July	29.315	29.597	29.145	71.7	79.5	85.5	67.6	76.6	94	54	66	67	82	68	.641	.674	4.87	2.13	4.1	2.7	4.1
August	29.309	29.530	29.047	65.9	74.7	80.9	63.4	72.2	96	52	61	64	85	70	.546	.607	6.93	1.74	5.9	3.4	5.0
September	29.314	29.678	28.925	55.3	63.8	71.5	53.3	62.4	85	36	51	54	86	72	.384	.426	1.82	.58	3.6	4.4	4.5
October	29.347	29.661	28.742	49.4	59.6	67.6	48.3	58.0	80	32	46	50	88	70	.314	.366	2.38	1.03	3.1	2.3	3.0
November	29.342	29.599	29.055	44.2	48.3	56.5	41.0	48.2	76	27	40	41	87	78	.266	.276	2.60	1.13	7.1	5.1	6.4
December	29.429	30.003	28.580	23.1	27.7	32.8	21.1	27.0	56	− 2	19	23	84	83	.112	.132	2.21	.89	6.5	6.2	6.6
Year	29.338	30.144	28.110	45.9	54.1	60.3	43.4	51.9	96	−10	41	44	83	71	.318	.355	38.86	2.13	4.6	4.1	4.8

KEY WEST, FLA.

[λ=24° 34′ N.; φ=81° 49′ W.]

January	30.102	30.294	29.843	63.3	64.6	69.2	61.3	65.2	78	50	58	59	82	81	.484	.504	.15	.15	4.5	2.7	4.3
February	29.971	30.186	29.578	65.6	66.1	70.2	62.1	66.2	80	53	59	60	80	80	.520	.524	3.88	2.99	4.0	3.5	4.1
March	30.007	30.285	29.774	71.4	71.6	76.9	68.2	72.6	83	53	64	65	78	79	.615	.623	.22	.17	3.6	1.9	3.3
April	29.984	30.157	29.803	73.8	74.1	79.0	70.8	74.9	83	63	65	64	74	71	.620	.605	.82	.23	2.4	1.4	3.2
May	29.960	30.096	29.863	79.5	78.7	84.0	76.1	80.0	87	72	69	68	71	71	.718	.697	.28	.12	3.3	2.3	3.7
June	29.904	30.046	29.692	80.6	80.4	84.7	77.0	80.8	88	70	74	73	80	79	.827	.814	9.59	5.20	6.4	6.3	6.2
July	30.020	30.144	29.942	83.2	82.8	87.4	78.9	83.2	89	71	73	73	72	72	.804	.803	1.57	.81	4.2	3.3	4.1
August	29.958	30.070	29.846	84.0	83.7	88.3	78.6	83.4	91	73	74	73	71	71	.827	.819	5.85	2.30	4.0	3.9	4.5
September	29.946	30.048	29.854	82.5	82.5	87.5	78.3	82.9	90	72	73	73	73	73	.811	.814	3.37	.80	4.3	3.3	3.2
October	29.930	30.157	29.766	80.6	80.4	85.4	76.2	80.8	90	70	71	72	74	76	.774	.783	6.36	2.64	4.7	3.3	4.5
November	29.972	30.132	29.822	74.9	75.4	79.7	72.5	76.1	86	62	68	68	80	80	.694	.699	4.90	3.54	4.2	3.1	4.9
December	30.050	30.231	29.865	69.1	70.4	75.9	66.9	70.4	83	52	63	64	80	79	.587	.600	2.12	1.36	4.5	3.2	4.4
Year	29.984	30.294	29.578	75.7	75.9	80.5	72.2	76.4	91	50	68	68	76	76	.690	.690	38.61	5.20	4.2	3.2	4.2

KITTYHAWK, N. C.[a]

[λ=36° 0′ N.; φ=75° 42′ W.]

January						46.8	34.5	40.6	66	24							3.93	1.80			4.6
February						41.8	32.4	37.1	60	20							5.19	1.20			4.9
March						55.5	41.6	48.6	74	26							1.86	.98			4.8
April						61.6	47.7	54.6	81	39							2.28	1.20			3.1
May						75.9	59.4	67.6	88	53							1.24	.77			3.5
June						81.5	66.5	74.0	94	58							1.68	.70			3.4
July						86.1	73.8	80.0	96	68							4.28	2.05			2.3
August						82.0	70.5	76.2	92	63							6.88	1.58			3.4
September						76.6	68.1	72.3	88	62							4.79	1.05			3.7
October						71.3	62.2	66.8	78	47							4.96	1.90			2.8
November						64.3	54.2	59.2	73	40							5.73	2.10			4.9
December						52.2	38.4	45.3	68	22							5.13	2.12			4.7
Year						66.3	58.1	60.2	96	20							47.45	2.12			3.8

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

KANSAS CITY, MO.

[H=963 ft.; h_t=78 ft.; h_r=81 ft.; h_a=95 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.8	NW.	28	NW.	0	10	3	7	4	9	10	4	15	0	16	9	6	6	5	6	0	0	8	0	26	0	0
February	7.3	NW.	30	NW.	0	10	7	6	8	5	1	5	13	1	9	9	10	4	4	3	0	3	18	0	24	0	0
March	10.1	SE.	34	NW.	0	5	4	3	15	11	4	2	17	1	12	6	13	11	9	3	0	1	1	0	10	3	0
April	9.6	SE.	38	S.	0	10	6	9	10	9	5	2	9	0	13	8	9	7	5	0	2	2	0	0	2	3	0
May	8.9	S.	36	S.	0	6	8	8	13	19	5	0	8	0	7	14	10	15	11	0	1	0	0	0	0	9	0
June	8.4	S.	30	S.	0	12	6	4	15	14	3	1	5	0	7	10	13	14	12	0	0	0	0	3	0	10	0
July	8.0	S.	27	S.	0	6	2	1	11	30	4	3	5	0	15	11	5	12	9	0	0	0	0	6	0	9	0
August	7.3	SE.	55	NW.	1	7	8	10	17	10	5	0	4	1	12	9	10	13	10	0	0	1	0	10	0	12	0
September	8.3	SE.	28	NW.	0	11	1	0	20	8	5	8	7	0	16	3	11	12	9	0	0	0	0	0	0	6	0
October	8.6	S.	27	S.	0	4	7	1	22	11	2	4	11	0	21	6	4	5	5	0	1	1	0	0	0	1	0
November	8.7	S.	28	S.	0	11	1	1	14	18	1	2	12	0	6	8	16	8	6	0	0	3	0	0	4	0	0
December	7.6	NW.	28	NW.	0	8	7	2	8	12	8	3	14	0	9	4	18	7	6	4	0	2	12	0	25	0	0
Year	8.4	S.	55	NW.	1	100	60	52	157	156	53	34	115	3	143	97	125	114	91	16	4	13	39	19	91	53	0

KEOKUK, IOWA.

[H=614 ft.; h_t=63 ft.; h_r=56 ft.; h_a=78 ft.]

January	7.6	NW.	20	NW.	0	5	4	6	3	5	14	8	17	0	17	6	8	6	6	6	0	1	11	0	28	0	0
February	7.0	NW.	30	NW.	0	3	10	3	3	5	10	6	15	1	15	6	7	6	3	3	0	2	20	0	25	0	0
March	10.2	SE.	38	W.	0	8	3	11	13	4	7	6	9	1	6	11	14	10	8	1	0	4	4	0	9	1	0
April	9.7	NW.	48	SW.	3	4	3	9	7	3	11	8	14	1	14	12	4	7	6	0	1	1	0	0	3	5	0
May	7.8	SE.	32	W.	0	4	7	9	14	4	14	1	8	1	12	11	8	12	9	0	1	0	0	1	0	8	0
June	7.0	N.	36	N.	0	12	6	2	11	5	11	4	7	2	4	16	10	15	13	0	1	0	0	2	0	11	0
July	6.5	SW.	25	W.	0	6	4	1	5	7	30	4	5	0	13	14	4	11	11	0	1	0	0	8	0	12	0
August	6.0	E.	26	W.	0	4	11	14	9	2	7	2	13	0	11	16	4	10	10	0	0	0	0	1	0	10	0
September	7.4	NW.	28	W.	0	3	2	6	10	10	10	3	15	1	14	5	11	10	10	0	0	1	0	0	0	3	0
October	7.2	SW.	30	W.	0	6	5	6	9	4	19	3	9	1	22	2	7	8	7	0	0	1	0	0	0	2	0
November	8.2	SW.	34	SW.	0	7	4	2	5	13	16	2	11	0	7	9	14	11	9	3	0	2	0	0	7	1	0
December	8.7	SW.	32	NW.	0	11	5	4	5	7	16	2	12	0	8	6	17	9	8	4	0	2	12	0	26	0	0
Year	7.8	SW.	48	SW.	3	73	64	73	94	69	165	49	135	8	143	114	108	115	100	17	4	14	47	12	98	53	0

KEY WEST, FLA.

[H=22 ft.; h_t=43 ft.; h_r=34 ft.; h_a=50 ft.]

January	11.7	NE.	30	NW.	0	16	17	15	5	0	1	0	8	0	10	18	3	2	1	0	0	0	0	0	0	0	0
February	11.0	NW.	36	NE.	0	8	7	4	8	7	0	4	18	0	15	9	4	6	6	0	0	1	0	0	0	2	0
March	10.9	SE.	36	NW.	0	6	12	13	19	4	1	2	5	0	22	6	3	3	1	0	0	0	0	0	0	0	0
April	10.4	E.	31	NW.	0	6	8	24	7	2	2	2	9	0	17	12	1	5	5	0	0	0	0	0	0	4	0
May	8.6	E.	26	NE.	0	6	15	29	7	1	0	0	4	0	16	13	2	4	3	0	0	0	0	0	0	3	0
June	9.6	E.	26	NE.	0	3	6	34	5	6	6	0	0	0	8	9	13	13	11	0	0	0	0	0	0	2	0
July	7.1	E.	24	NE.	0	1	8	33	17	3	0	0	0	0	13	15	3	8	6	0	0	0	0	0	0	5	0
August	5.6	E.	30	NW.	0	1	7	23	14	3	4	5	5	0	12	16	3	10	10	0	0	0	0	2	0	6	0
September	5.7	E.	26	W.	0	1	5	22	18	3	6	4	1	0	16	13	1	11	9	0	0	0	0	0	0	2	0
October	7.7	NE.	28	NW.	0	0	21	13	8	4	7	3	6	0	11	17	3	13	12	0	0	0	0	1	0	5	0
November	11.2	NE.	32	NW.	0	7	24	17	4	2	1	0	4	1	11	14	5	7	6	0	0	0	0	0	0	1	0
December	11.4	NE.	33	NW.	0	13	22	12	7	2	0	0	6	0	16	8	7	7	4	0	0	0	0	0	0	1	0
Year	9.2	E.	36	NE.	0	68	152	239	119	37	28	20	66	1	167	150	48	89	74	0	0	1	0	3	0	31	0

KITTYHAWK, N. C.

[H=8 ft.; h_t=12 ft.; h_r=2 ft.; h_a=30 ft.]

January	15.1	NW.	....	.....	....	3	7	1	1	1	6	5	7	0	15	6	10	6	6	0	0	0	1	0	8	0	0
February	13.7	NW.	....	.....	....	4	8	0	3	0	1	2	10	0	15	3	10	7	7	1	0	1	1	0	13	0	0
March	15.4	NE.	....	.....	....	2	10	1	5	3	5	2	3	0	13	10	8	5	5	0	0	0	0	0	1	0	0
April	15.1	NE.	....	.....	....	0	8	0	6	1	7	5	3	0	22	0	8	4	4	0	0	0	0	0	0	0	0
May	12.9	SW.	....	.....	....	2	7	0	4	5	10	3	0	0	21	6	4	3	3	0	0	0	0	0	0	1	0
June	13.2	SW.	....	.....	....	0	5	2	6	5	9	1	2	0	20	5	5	5	5	0	0	0	0	1	0	0	0
July	11.4	SW.	....	.....	....	2	6	1	5	3	7	6	1	0	25	5	1	6	6	0	0	0	0	0	4	0	0
August	12.0	SW.	....	.....	....	2	8	1	3	3	9	2	3	0	21	6	4	9	9	0	0	0	0	2	0	0	0
September	13.9	NE.	....	.....	....	3	13	0	3	2	7	2	0	0	19	6	5	8	8	0	0	0	0	0	0	0	0
October	12.8	NE.	....	.....	....	0	12	1	3	4	6	1	4	0	23	3	5	7	7	0	0	0	0	0	0	0	0
November	12.8	SW.	....	.....	....	1	9	3	3	1	10	0	3	0	14	5	11	6	6	0	0	0	2	0	0	0	0
December	16.8	NE.	....	.....	....	2	10	1	3	2	6	1	6	0	14	7	10	7	7	0	0	0	0	0	6	0	0
Year	13.8	NE.	....	.....	....	21	103	11	45	30	83	30	42	0	222	62	81	73	73	1	0	3	2	7	28	6	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

KNOXVILLE, TENN.

[λ=35° 36′ N.; φ=83° 58′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.082	29.514	28.506	31.1	38.9	45.3	28.5	36.9	62	16	27	30	86	71	.153	.174	3.71	.95	5.8	4.4	6.2
February	28.904	29.280	28.097	29.4	35.8	40.7	26.8	33.8	61	10	24	27	80	70	.141	.162	3.53	1.84	8.5	4.6	7.1
March	28.957	29.377	28.409	42.2	52.0	58.5	39.0	48.8	75	15	37	40	82	64	.235	.260	6.37	2.70	6.5	5.8	6.1
April	28.953	29.172	28.790	49.5	59.9	66.2	45.6	55.9	87	30	43	45	81	61	.293	.308	1.79	.62	6.3	4.7	5.5
May	29.001	29.197	28.793	65.4	73.9	82.6	59.9	71.2	91	45	58	56	78	57	.499	.477	2.09	.62	4.8	4.1	4.2
June	28.931	29.271	28.614	69.8	76.3	86.7	63.1	74.9	99	52	62	60	77	61	.565	.586	5.45	2.65	4.7	4.5	4.7
July	29.025	29.188	28.914	72.8	79.4	89.0	67.2	78.1	98	57	67	67	82	66	.659	.665	3.73	1.38	5.0	4.7	4.2
August	28.946	29.176	28.836	70.0	77.1	87.8	65.7	76.8	96	59	65	65	84	69	.620	.633	2.39	.87	4.8	4.3	5.3
September	28.985	29.216	28.670	61.4	69.1	77.9	57.9	67.9	87	42	58	61	91	76	.507	.549	8.04	2.48	5.8	4.0	5.6
October	29.046	29.462	28.641	50.1	61.2	71.6	48.2	59.9	82	30	49	52	96	72	.356	.403	.99	.74	2.5	2.6	3.9
November	29.032	29.348	28.393	45.9	55.2	64.1	43.9	54.0	77	29	44	47	94	75	.300	.334	4.03	2.08	4.3	3.7	6.4
December	29.061	29.350	28.399	35.7	40.6	47.0	32.1	39.6	65	15	32	33	88	75	.197	.198	3.46	1.02	5.9	5.4	7.5
Year	28.994	29.514	28.097	51.9	60.0	68.1	48.2	58.2	99	10	47	49	85	68	.377	.392	45.58	2.70	5.4	4.4	5.6

LA CROSSE, WIS.[a]

[λ=43° 49′ N.; φ=91° 15′ W.]

January	29.377	30.072	28.776	15.6	.....	28.2	12.5	20.4	47	−24	11	....	80	....	.079	.....	.63	.38	4.9	.....	4.7
February	29.260	29.749	27.937	9.7	.....	26.1	8.0	17.0	53	−13	6	....	83	....	.069	.....	.73	.46	5.5	.....	4.9
March	29.167	29.723	28.259	32.0	.....	46.2	29.7	38.0	64	− 4	26	....	77	....	.146	.....	1.05	.60	6.9	.....	6.7
April	29.189	29.559	28.634	39.5	.....	57.4	36.1	46.8	87	20	31	....	72	....	.180	.....	.81	.49	4.0	.....	5.6
May	29.217	29.615	28.860	56.2	.....	71.3	52.7	62.0	88	33	49	....	78	....	.366	.....	8.25	2.55	6.1	.....	5.6
June	29.151	29.412	28.695	59.9	.....	73.0	55.5	64.2	81	44	54	....	80	....	.423	.....	2.63	.92	5.7	.....	5.4
July	29.197	29.562	28.996	66.3	.....	82.5	62.8	72.6	91	53	62	....	86	....	.557	.....	5.75	1.23	5.6	.....	5.0
August	29.236	29.465	28.906	61.6	.....	77.0	58.6	67.8	89	47	58	....	86	....	.489	.....	2.30	1.43	4.1	.....	3.8
September	29.198	29.533	28.786	52.6	.....	67.9	49.6	58.8	81	32	48	....	84	....	.342	.....	2.97	.78	5.2	.....	4.8
October	29.256	29.602	28.882	44.2	.....	61.6	42.2	51.9	74	32	39	....	81	....	.242	.....	1.35	.79	4.5	.....	5.2
November	29.215	29.546	28.832	37.2	.....	47.7	34.3	41.0	67	19	33	....	86	....	.199	.....	1.76	1.02	7.5	.....	7.6
December	29.316	29.877	28.783	16.7	.....	26.7	12.8	19.8	44	−10	14	....	86	....	.089	.....	2.03	.67	6.0	.....	7.1
Year	29.232	30.072	27.937	41.0	.....	55.5	37.9	46.7	91	−24	36	....	82	....	.265	.....	30.26	2.55	5.5	.....	5.5

LANDER, WYO.

[λ=42° 50′ N.; φ=108° 45′ W.]

January	24.678	25.069	24.329	10.8	22.1	31.4	6.4	18.9	51	−30	7	15	82	73	.065	.093	.18	.08	3.2	3.3	3.7
February	24.527	24.789	23.986	19.9	35.0	42.5	15.8	29.2	58	−16	15	22	79	59	.087	.117	.20	.12	4.7	6.3	5.4
March	24.486	24.875	24.053	22.0	38.9	43.3	18.7	31.0	54	− 3	17	20	79	48	.096	.109	.77	.46	5.4	5.6	5.6
April	24.558	24.778	24.220	31.2	50.9	56.0	27.6	41.8	77	16	24	25	74	41	.126	.136	1.43	1.00	5.7	6.1	5.7
May	24.542	24.907	24.069	48.0	64.5	68.5	39.1	53.8	83	23	35	32	73	32	.205	.180	1.23	.55	4.1	5.5	4.8
June	24.588	24.933	24.265	49.6	73.1	77.5	45.7	61.6	91	31	39	35	68	28	.242	.215	.93	.80	4.1	5.8	4.9
July	24.669	25.002	24.277	50.6	76.2	80.4	46.4	63.4	94	35	39	42	67	33	.243	.278	.29	.16	2.8	5.0	3.8
August	24.692	24.930	24.429	50.9	77.4	82.9	48.3	65.6	94	36	41	42	70	30	.258	.271	.06	.06	2.9	5.0	3.8
September	24.683	24.968	24.291	41.1	65.1	71.3	37.1	54.2	85	24	33	36	74	38	.188	.213	.75	.71	3.2	3.8	3.8
October	24.691	24.927	24.413	33.0	52.8	62.1	30.2	46.2	75	21	27	31	77	46	.145	.177	1.10	.63	3.0	3.2	3.2
November	24.553	24.879	24.172	25.1	36.5	46.3	19.3	32.8	65	6	16	24	67	59	.090	.126	.06	.06	2.5	3.2	3.7
December	24.605	24.886	24.217	14.2	24.9	35.8	9.5	22.6	53	− 8	9	16	78	68	.065	.091	.25	.25	1.6	2.7	3.4
Year	24.606	25.069	23.936	32.6	51.4	58.2	28.7	43.4	94	−30	25	28	74	46	.151	.167	7.25	1.00	3.6	4.6	4.3

LEWISTON, IDAHO.[a]

[λ=46° 25′ N.; φ=117° 2′ W.]

January	29.415	29.748	28.918	30.0	.....	39.2	26.5	32.8	58	1	26	....	84	....	.152	.....	.83	.22	7.8	.....	7.1
February	29.133	29.683	28.540	33.9	.....	46.7	31.6	39.2	58	− 5	30	....	85	....	.173	.....	1.72	.55	7.6	.....	7.5
March	29.140	29.550	28.579	37.6	.....	54.6	36.2	45.4	72	26	31	....	78	....	.174	.....	.92	.41	6.9	.....	6.5
April	29.147	29.523	28.458	42.6	.....	63.7	41.3	52.5	75	29	34	....	74	....	.201	.....	.76	.33	5.4	.....	5.8
May	29.078	29.333	28.830	50.3	.....	70.5	49.1	59.8	90	41	45	....	83	....	.303	.....	2.72	.60	5.6	.....	6.2
June	29.123	29.320	28.903	53.4	.....	79.3	52.0	65.6	95	42	44	....	71	....	.291	.....	.65	.47	3.8	.....	3.9
July	29.130	29.415	28.824	58.3	.....	84.1	57.2	70.6	104	47	48	....	70	....	.335	.....	1.19	1.09	2.6	.....	2.6
August	29.148	29.374	28.918	59.2	.....	88.2	58.5	73.4	102	46	48	....	68	....	.342	.....	.69	.63	1.9	.....	2.1
September	29.199	29.485	28.838	50.0	.....	78.3	48.5	63.4	94	35	40	....	71	....	.256	.....	.34	.21	2.1	.....	3.0
October	29.223	29.481	28.945	44.6	.....	67.4	42.6	55.0	82	36	41	....	89	....	.261	.....	.54	.25	4.7	.....	4.0
November	29.170	29.646	28.757	39.0	.....	48.8	36.8	42.8	58	28	35	....	85	....	.203	.....	1.90	.52	6.0	.....	7.1
December	29.254	29.628	28.803	34.3	.....	41.5	32.3	36.9	51	23	30	....	83	....	.164	.....	1.70	.37	8.0	.....	8.2
Year	29.180	29.748	28.458	44.4	.....	63.5	42.7	53.1	104	− 5	38	....	78	....	.238	.....	13.96	1.09	5.2	.....	5.3

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

KNOXVILLE, TENN.

[H=1,004 ft.; h_t=10 ft.; h_r=3 ft.; h_a=88 ft.]

Month.	Wind.														Number of days.												
	By self-registers.				Number of winds, 8 a. m. and 8 p. m.													Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction.a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.8	SW.	31	NW.	0	8	9	5	1	4	19	3	13	0	8	9	14	11	10	1	0	1	2	0	20	0	0
February	8.3	NW.	48	S.	2	8	12	2	1	2	10	9	12	0	7	4	17	9	9	2	0	1	7	0	19	0	0
March	8.5	NE.	42	W.	3	7	16	3	0	5	13	8	7	3	10	8	13	14	9	2	0	3	1	0	9	4	0
April	8.7	SW.	42	SW.	2	14	5	2	0	3	22	10	4	0	13	2	15	11	7	0	0	2	0	0	2	0	0
May	6.5	SW.	46	NW.	1	11	14	0	1	5	20	5	3	0	15	12	4	11	6	0	0	1	0	2	0	6	0
June	7.5	SW.	52	W.	5	14	14	2	0	3	18	3	5	1	11	13	6	11	8	0	0	1	0	9	0	12	0
July	5.2	N.	42	NW.	1	22	8	0	0	9	13	6	4	0	14	14	3	6	6	0	0	0	0	13	0	5	0
August	5.4	SW.	48	NW.	2	12	13	2	2	5	17	2	7	2	8	15	8	16	10	0	0	1	0	11	0	11	0
September	5.0	NE.	36	W.	0	7	16	4	1	3	13	7	8	1	7	16	7	14	12	0	0	4	0	0	0	3	0
October	5.0	SW.	36	NW.	0	9	12	2	2	4	16	7	8	2	17	5	9	3	2	0	0	8	0	0	1	0	0
November	5.3	SW.	34	SW.	0	10	11	7	1	3	13	8	4	3	7	10	13	11	9	1	0	7	0	0	2	0	0
December	7.9	SW.	48	SW.	1	10	3	0	0	0	20	11	17	1	4	7	20	10	8	0	0	2	3	0	16	0	0
Year	6.8	SW.	52	W.	17	132	133	29	9	49	194	79	92	13	121	115	129	127	96	6	0	31	13	35	69	41	0

LA CROSSE, WIS.

[H=714 ft.; h_t=71 ft.; h_r= 63 ft.; h_a=87 ft.]

January	7.2	S.	26	NW.	0	4	1	0	3	10	3	4	5	1	10	13	8	7	4	7	0	1	17	0	31	0	0
February	6.1	S.	20	SW.	0	4	3	0	2	10	3	3	3	0	8	15	5	6	3	5	0	0	18	0	26	0	0
March	8.9	S.	32	W.	0	3	6	1	7	7	0	4	3	0	2	18	11	8	5	3	0	1	5	0	13	3	0
April	9.6	S.	40	W.	1	5	1	0	2	12	1	3	5	1	8	11	11	8	4	0	0	1	0	0	11	4	0
May	8.1	S.	36	W.	0	1	2	3	7	10	1	2	5	0	8	12	11	19	16	1	0	0	0	0	0	11	0
June	7.3	S.	34	NW.	0	6	3	0	3	8	3	2	5	0	8	15	7	14	9	0	0	2	0	0	0	7	0
July	6.7	S.	30	SW.	0	3	2	1	1	22	1	1	0	0	12	11	8	13	9	0	1	3	0	2	0	7	0
August	5.7	S.	29	NW.	0	5	3	1	3	9	1	2	7	0	15	13	3	8	7	0	0	5	0	0	0	4	0
September	8.3	S.	26	NW.	0	5	2	1	1	15	0	2	4	0	12	9	9	10	8	0	0	1	0	0	0	3	0
October	7.6	S.	28	NW.	0	7	2	1	5	10	0	2	4	0	9	14	8	4	3	0	0	1	0	0	1	2	0
November	8.1	S.	25	SE.	0	3	4	0	1	13	2	1	6	0	2	9	19	7	6	1	0	0	1	0	12	1	0
December	8.3	S.	27	NE.	0	8	2	2	1	9	4	1	4	0	4	12	15	12	7	8	0	1	21	0	28	0	0
Year	7.7	S.	40	W.	1	54	31	10	36	135	19	27	51	2	98	152	115	116	81	25	1	16	62	2	122	42	0

LANDER, WYO.

[H=5,372 ft.; h_t=26 ft.; h_r=17 ft.; h_a=36 ft.]

January	2.8	SW.	15	SE.	0	5	8	10	9	10	13	6	1	0	15	11	5	4	2	4	0	0	13	0	31	0	0
February	3.3	SW.	30	SW.	0	5	6	9	7	8	10	7	4	0	4	21	3	3	3	3	0	0	4	0	27	0	0
March	4.5	NW.	42	SW.	1	5	12	0	10	7	12	4	12	0	7	15	9	7	5	7	0	0	4	0	29	0	0
April	4.7	SW.	30	SW.	0	4	6	3	6	5	14	14	8	0	6	17	7	6	5	4	0	0	0	0	21	0	0
May	5.1	SW.	42	SW.	1	2	3	3	9	6	18	10	11	0	8	19	4	5	4	1	0	0	0	0	3	3	0
June	4.6	SW.	35	NE.	0	7	5	3	2	4	16	14	9	0	9	18	3	4	3	0	0	0	0	1	0	1	0
July	4.1	SW.	32	S.	0	2	7	4	4	8	16	12	9	0	11	20	0	6	4	0	0	0	0	7	0	2	0
August	3.6	SW.	30	NW.	0	6	8	1	4	9	20	5	9	0	12	19	0	1	1	0	0	0	0	2	0	2	0
September	3.5	NE.	27	NE.	0	8	13	2	2	10	9	11	5	0	14	13	3	3	2	0	0	0	0	0	7	0	0
October	2.6	SW.	24	SW.	0	5	6	1	4	10	21	9	6	0	14	16	1	3	3	0	0	0	0	0	20	0	0
November	4.2	SW.	30	SW.	0	3	3	3	10	16	10	9	6	0	12	16	2	1	1	1	0	0	1	0	27	0	0
December	3.1	NE.	30	E.	0	5	16	2	6	13	10	4	6	0	19	11	1	1	1	1	0	0	12	0	31	0	0
Year	3.8	SW.	42	SW.	2	57	93	41	73	106	169	105	86	0	131	196	38	44	34	21	1	0	34	10	196	8	0

LEWISTON, IDAHO.

[H=757 ft.; h_t=52 ft.; h_r=45 ft.; h_a=61 ft.]

January	3.4	E.	32	NW.	0	0	4	10	7	1	3	5	0	1	7	4	20	9	6	5	0	0	8	0	18	0	0
February	3.3	E.	21	W.	0	1	4	9	5	4	5	0	0	0	5	2	21	12	8	1	0	0	2	0	9	0	0
March	4.3	E.	28	W.	0	0	1	13	8	2	3	2	1	1	4	15	12	12	4	2	0	0	0	0	4	0	0
April	4.3	E.	34	NW.	0	0	2	18	5	0	6	1	1	2	5	18	7	12	4	0	1	0	0	0	1	2	0
May	3.8	E.	27	W.	0	1	1	18	2	2	1	4	1	1	6	10	15	16	11	0	0	0	0	0	0	2	0
June	4.4	E.	33	NW.	0	0	2	21	3	2	0	0	1	1	15	7	8	4	2	0	0	0	0	0	4	2	0
July	4.2	E.	44	SW.	1	0	1	23	3	0	2	1	0	1	23	2	6	5	2	0	0	0	0	10	0	1	0
August	3.7	E.	33	NW.	0	0	2	24	3	0	1	1	0	0	25	3	3	3	2	0	0	0	0	16	0	3	0
September	3.8	E.	30	W.	0	0	2	14	6	1	0	6	0	1	19	6	5	3	3	0	0	0	0	5	0	0	0
October	2.1	S.	23	NW.	0	0	0	7	4	7	6	5	1	1	14	12	5	5	4	0	0	0	0	0	0	0	0
November	3.8	E.	26	W.	0	0	0	11	4	2	7	6	0	0	6	8	16	15	10	0	0	2	0	0	6	0	0
December	3.7	E.	26	W.	0	1	3	12	2	4	2	6	0	1	2	7	22	12	9	3	0	0	2	0	12	0	0
Year	3.7	E.	44	SW.	1	3	22	175	52	25	36	37	5	10	131	94	140	108	65	11	2	2	12	35	50	10	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

LEXINGTON, KY.[a]

[λ=38° 2′ N.; φ=84° 33′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.084	29.696	28.497	27.1	.....	39.8	24.8	32.3	60	8	23	....	84	....	.126	.....	4.77	1.87	5.7	.....	5.7
February	28.929	29.277	27.912	20.5	.....	31.5	18.5	25.0	57	3	17	....	85	....	.105	.....	.90	.34	5.6	.....	5.4
March	28.933	29.427	28.383	39.5	.....	52.8	36.6	44.7	71	10	33	....	77	....	.198	.....	2.92	.80	6.4	.....	5.8
April	28.933	29.247	28.646	47.0	.....	62.0	43.1	52.6	85	22	38	....	71	....	.237	.....	1.27	.58	4.5	.....	4.3
May	29.000	29.188	28.863	62.5	.....	78.3	58.1	68.2	89	40	53	....	73	....	.433	.....	2.43	.75	3.6	.....	3.1
June	28.919	29.234	28.680	66.8	.....	80.1	62.2	71.2	92	50	59	....	76	....	.507	.....	5.19	1.25	5.4	.....	4.6
July	29.016	29.166	28.902	72.0	.....	86.2	67.3	76.8	96	58	63	....	74	....	.588	.....	2.33	1.56	3.3	.....	3.6
August	28.954	29.156	28.866	67.6	.....	83.6	64.0	73.8	93	55	60	....	78	....	.532	.....	1.89	.66	3.6	.....	4.0
September	28.967	29.276	28.619	60.2	.....	76.3	57.8	67.0	86	43	54	....	81	....	.435	.....	2.60	.97	5.0	.....	4.8
October	29.022	29.421	28.694	51.4	.....	68.6	49.5	59.0	80	34	46	....	81	....	.322	.....	2.11	1.24	4.1	.....	4.1
November	29.019	29.305	28.503	47.8	.....	59.9	45.2	52.6	75	28	42	....	80	....	.272	.....	3.09	1.20	7.0	.....	6.5
December	29.035	29.401	28.634	31.6	.....	40.8	27.7	34.2	60	9	30	....	86	....	.164	.....	6.60	1.75	7.5	.....	7.9
Year	28.984	29.696	28.383	49.5	.....	63.3	46.2	54.8	96	3	43	....	79	....	.327	.....	36.10	1.87	5.1	.....	5.0

LINCOLN, NEBR.

[λ=40° 49′ N.; φ=96° 45′ W.]

January	28.882	29.395	28.328	19.5	28.8	36.1	16.6	26.4	60	−11	14	18	80	65	.088	.102	1.02	.47	3.1	3.5	3.7
February	28.750	29.228	27.725	17 6	24.9	30.7	14.3	22.5	59	−11	15	18	87	76	.092	.108	.14	.08	6.0	5.1	5.4
March	28.615	29.215	28.093	34.3	46.6	53.0	32.0	42.5	73	4	27	30	74	53	.154	.173	.37	.12	5.4	4.6	5.0
April	28.672	29.091	28.005	42.7	58.1	64.3	38.7	51.5	95	19	32	33	65	42	.187	.206	.67	.26	5.4	4.9	4.8
May	28.621	28.976	28.105	58.7	71.0	76.4	55.2	65.3	92	42	52	54	80	58	.406	.429	3.65	.82	7.2	4.7	5.0
June	28.614	28.989	28.293	61.5	71.9	76.1	57.6	66.8	96	43	56	58	84	65	.468	.501	8.83	2.99	6.7	5.8	5.5
July	28.669	29.088	28.343	68.3	79.4	84.2	64.7	74.4	96	55	64	66	85	64	.593	.640	11.35	2.59	4.6	4.4	3.8
August	28.680	28.974	28.289	65.4	76.9	81.0	63.8	72.4	96	48	62	66	88	70	.573	.642	4.35	1.60	7.2	4.5	6.0
September	28.684	29.070	28.353	54.0	66.0	72.2	51.0	61.6	87	35	47	48	78	57	.336	.358	4.10	2.67	5.1	4.2	4.0
October	28.716	28.988	28.333	47.9	60.0	68.2	46.1	57.2	83	29	42	46	80	61	.275	.319	2.81	1.60	3.1	2.4	3.1
November	28.709	29.002	28.353	36.9	42.7	50.4	33.0	41.7	73	17	33	35	84	75	.199	.218	1.97	1.04	5.9	4.7	5.2
December	28.803	29.351	28.093	19.1	22.9	29.5	14.6	22.0	52	− 7	16	18	85	80	.093	.102	1.96	.60	6.1	5.3	6.3
Year	28.701	29.395	27.725	43.8	54.0	60.1	40.6	50.4	96	−11	38	41	81	64	.289	.316	41.22	2.99	5.5	4.5	4.8

LITTLE ROCK, ARK.

[λ=34° 45′ N.; φ=92° 6′ W.]

January	29.813	30.217	29.296	33.6	42.1	47.0	31.3	39.2	69	16	26	29	74	68	.150	.170	7.13	3.11	5.8	4.5	5.6
February	29.639	30.118	28.561	31.6	39.3	42.2	30.0	36.1	65	16	27	29	82	67	.154	.168	2.16	1.32	5.2	5.5	5.6
March	29.591	30.168	29.098	47.7	58.6	62.7	45.7	54.2	76	26	40	41	74	54	.273	.280	4.90	1.92	5.5	4.8	5.0
April	29.621	29.867	29.354	55.6	67.9	71.7	53.7	62.7	88	41	46	46	71	50	.328	.341	2.92	1.05	5.2	5.1	4.5
May	29.592	29.755	29.194	68.5	78.5	83.0	66.1	74.6	94	55	62	63	81	60	.572	.585	4.76	1.33	5.8	5.5	5.5
June	29.585	29.811	29.161	72.6	82.9	87.6	69.7	78.6	96	57	65	67	78	59	.625	.661	4.08	2.65	3.5	3.3	3.4
July	29.649	29.771	29.497	74.3	84.4	88.6	72.3	80.4	96	64	68	67	82	57	.697	.657	7.46	6.22	5.1	5.6	4.2
August	29.585	29.758	29.409	74.0	85.8	90.5	72.4	81.4	97	67	69	71	85	61	.713	.752	.19	.16	3.1	2.6	3.1
September	29.614	29.999	29.377	62.0	73.4	78.5	60.9	69.7	90	46	57	59	85	64	.483	.532	5.75	1.92	4.6	4.1	4.4
October	29.689	30.007	29.353	55.5	67.5	73.5	54.3	63.9	82	42	50	53	84	61	.381	.418	2.34	1.88	4.1	2.8	3.8
November	29.667	29.902	29.148	52.7	59.9	64.5	51.0	57.8	78	33	48	50	84	70	.352	.377	7.03	2.98	6.7	5.1	6.4
December	29.752	30.176	28.955	37.6	44.5	48.3	35.1	41.7	66	17	34	34	86	68	.208	.207	5.27	2.74	6.1	5.2	6.1
Year	29.646	30.217	28.561	55.5	65.4	69.8	53.5	61.7	97	16	49	51	80	61	.411	.429	53.99	6.22	5.1	4.5	4.8

LOS ANGELES, CAL.

[λ=34° 3′ N.; φ=118° 15′ W.]

January	29.691	29.899	29.451	48.9	59.6	67.6	44.1	55.8	87	32	33	42	60	56	.196	.277	1.62	1.32	2.4	3.0	4.0
February	29.715	29.914	29.501	47.6	57.5	64.2	44.8	54.5	77	37	44	49	88	74	.293	.347	3.35	1.62	4.6	4.8	5.3
March	29.655	29.990	29.436	47.3	59.7	65.3	44.6	55.0	81	37	41	44	80	59	.259	.293	2.98	.95	2.4	3.8	4.3
April	29.642	29.778	29.493	49.7	61.6	68.1	47.5	57.8	80	42	46	50	89	66	.318	.358	.16	.06	5.1	3.3	4.4
May	29.576	29.715	29.192	52.4	64.6	70.9	50.5	60.7	80	43	48	50	86	63	.337	.375	.03	.03	4.7	1.6	4.4
June	29.484	29.668	29.359	57.0	69.6	77.0	55.9	66.4	94	48	54	57	90	65	.418	.460	T.	T.	7.0	0.7	3.6
July	29.556	29.670	29.388	59.4	71.6	78.5	58.4	68.4	93	52	56	59	90	66	.457	.501	T.	T.	7.4	1.5	4.6
August	29.572	29.744	29.440	60.1	71.5	79.4	58.8	69.1	94	52	56	60	88	67	.458	.511	T.	T.	7.5	1.1	3.8
September	29.529	29.674	29.370	59.6	70.2	80.1	58.2	69.2	93	52	57	60	92	71	.469	.517	T.	T.	5.1	1.2	3.7
October	29.610	29.742	29.433	55.5	64.7	72.9	53.4	63.2	79	47	51	56	87	75	.382	.458	.40	.39	5.2	3.0	4.5
November	29.618	29.844	29.321	50.8	60.8	68.8	47.6	58.2	86	39	41	48	72	66	.270	.343	2.08	1.95	1.6	2.7	3.0
December	29.690	29.852	29.432	49.1	57.5	65.9	46.1	56.0	80	39	36	46	65	69	.226	.325	2.50	1.56	2.6	3.5	3.9
Year	29.612	29.990	29.192	53.1	64.1	71.6	50.8	61.2	94	32	47	52	82	66	.340	.397	13.12	1.95	4.6	2.5	4.1

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

LEXINGTON, KY.

[H=989 ft.; h_t=75 ft.; h_r=68 ft.; h_a=102 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurora.
	Miles.		*Mi.*																								
January	11.3	NW.	31	NW.	0	1	4	1	2	9	3	2	9	0	9	11	11	9	6	4	0	0	6	0	27	0	0
February	10.9	W.	50	W.	1	1	5	2	2	1	3	11	3	0	8	10	10	10	6	4	0	0	17	0	23	1	0
March	13.8	S.	55	W.	3	0	5	6	4	4	3	4	5	0	7	14	10	11	11	3	1	0	2	0	9	1	0
April	12.6	W.	45	W.	1	1	4	1	4	4	4	9	3	0	12	14	4	10	6	1	0	0	0	0	4	1	0
May	10.0	SW.	40	N.	1	0	5	3	2	7	9	2	3	0	18	13	0	12	8	0	0	0	0	0	0	9	0
June	8.7	SE.	40	NW.	1	3	2	3	7	7	4	1	3	0	13	13	4	12	9	0	0	0	0	2	0	10	0
July	7.0	SW.	38	W.	0	1	4	0	6	7	7	5	2	0	14	17	0	7	5	0	1	1	0	11	0	9	0
August	7.5	NE.	52	W.	1	0	7	5	3	3	8	2	2	1	13	16	2	7	7	0	0	0	0	3	0	7	0
September	7.8	SE.	35	NW.	0	0	2	3	8	9	4	2	2	0	10	13	7	10	8	0	0	2	0	0	0	2	0
October	9.4	SW.	30	W.	0	2	4	1	2	15	2	3	2	0	15	7	9	6	5	0	0	0	0	0	0	2	0
November	10.0	S.	32	S.	0	1	5	1	5	7	8	3	0	0	4	14	12	12	11	2	0	1	0	0	2	0	0
December	11.6	SW.	40	S.	1	0	4	2	5	5	7	4	4	0	3	7	21	17	11	5	0	3	5	0	19	2	0
Year	10.0	SW.	55	W.	9	10	51	28	49	78	62	48	38	1	126	149	90	123	93	19	2	7	30	16	84	42	0

LINCOLN, NEBR.

[H=1,189 ft.; h_t=75 ft.; h_r=4 ft.; h_a=84 ft.]

January	9.4	S.	33	NW.	0	13	4	4	7	14	7	5	8	0	17	9	5	5	4	5	0	0	11	0	30	0	0
February	9.9	NW.	47	NW.	2	9	9	2	9	12	0	2	12	1	9	10	9	4	2	3	0	0	18	0	26	0	0
March	15.9	SE.	49	SE.	5	7	5	1	25	3	2	3	15	1	10	12	9	8	4	3	0	0	3	0	12	4	0
April	12.7	N.	65	W.	2	14	5	4	12	9	3	3	9	1	14	11	5	8	5	0	0	0	0	1	7	4	0
May	11.9	SE.	40	SE.	1	8	7	6	19	13	5	2	1	1	13	10	8	15	12	0	0	0	0	1	0	9	0
June	10.4	S.	45	N.	2	11	12	6	8	17	2	0	4	0	10	11	9	14	13	0	0	1	0	3	0	10	0
July	10.0	S.	50	N.	1	8	4	7	6	28	5	2	1	1	17	10	4	15	14	0	0	0	0	4	0	16	0
August	8.6	SE.	36	NE.	0	6	14	9	14	7	4	1	6	1	6	13	12	16	8	0	0	0	0	2	0	8	0
September	11.9	SE.	32	NW.	0	12	9	0	14	11	0	5	8	1	16	7	7	11	7	0	0	0	0	0	0	4	0
October	9.9	S.	36	NW.	0	18	9	6	5	18	3	3	4	1	22	4	5	5	4	0	0	1	0	0	1	3	0
November	11.1	S.	37	NW.	0	11	3	1	7	20	5	1	11	1	11	9	10	11	7	2	1	0	0	0	12	1	0
December	11.0	NW.	36	NW.	0	5	7	1	6	13	7	1	22	0	10	3	18	11	7	8	0	0	15	0	29	0	0
Year	11.1	S.	65	W.	13	117	88	47	132	165	43	28	101	9	155	109	101	123	87	21	2	2	47	11	117	59	0

LITTLE ROCK, ARK.

[H=357 ft.; h_t=93 ft.; h_r=85 ft.; h_a=100 ft.]

January	8.0	NW.	33	NW.	0	9	10	4	3	4	14	6	12	0	10	7	14	13	10	2	0	2	2	0	16	1	0
February	8.7	NE.	36	SE.	0	9	14	7	5	3	5	6	7	0	9	8	11	5	5	1	1	1	3	0	17	2	0
March	9.7	SE.	37	NW.	0	3	5	12	9	8	8	8	9	0	11	11	9	9	8	0	0	0	0	0	1	8	0
April	8.4	S.	35	W.	0	5	11	4	8	15	3	3	11	0	11	12	7	10	9	0	0	0	0	0	0	8	0
May	6.9	S.	29	SW.	0	4	7	3	16	15	11	1	4	1	6	17	8	9	7	0	0	0	0	3	0	4	0
June	7.4	S.	46	SW.	1	7	8	4	5	19	14	1	2	0	17	13	0	10	8	0	1	0	0	11	0	11	0
July	6.4	S.	25	S.	0	1	9	4	6	17	16	2	7	0	12	15	4	5	4	0	0	0	0	15	0	5	0
August	5.5	SW.	26	NW.	0	4	11	4	2	10	16	3	10	2	16	14	1	3	2	0	0	1	0	18	0	4	0
September	6.0	NE.	32	W.	0	8	9	9	11	3	1	10	9	0	13	9	8	11	9	0	0	0	0	0	0	4	0
October	5.9	NE.	25	S.	0	6	10	4	13	10	5	6	8	0	16	9	6	5	5	0	0	1	0	0	0	1	0
November	6.4	SE.	29	NW.	0	4	6	6	14	10	0	6	12	2	8	12	10	13	12	0	0	1	0	0	0	1	0
December	7.6	NW.	31	NW.	0	6	7	6	6	8	8	10	11	0	12	5	14	10	9	1	0	2	1	0	11	1	0
Year	7.2	S.	46	SW.	1	66	107	67	98	122	101	62	102	5	141	132	92	103	88	4	2	8	6	47	45	50	0

LOS ANGELES, CAL.

[H=338 ft.; h_t=116 ft.; h_r=108 ft.; h_a=123 ft.]

January	3.9	NE.	15	SW.	0	3	25	1	1	2	5	20	3	2	12	16	3	4	4	0	0	0	0	0	0	0	0
February	4.2	W.	20	NW.	0	6	14	5	1	0	6	20	3	1	5	17	6	7	6	0	0	3	0	0	0	0	0
March	5.2	W.	21	E.	0	7	13	8	2	3	9	16	3	1	13	14	4	9	7	0	0	0	0	0	0	0	0
April	4.7	W.	22	W.	0	4	10	5	1	0	15	24	1	0	8	19	3	4	3	0	0	3	0	0	0	0	0
May	5.4	W.	24	NW.	0	4	7	6	1	5	17	18	2	2	8	22	1	1	0	0	0	0	0	0	0	0	0
June	4.3	W.	15	W.	0	0	3	3	7	6	11	25	3	2	10	19	1	0	0	0	0	0	0	1	0	2	0
July	4.4	W.	13	SW.	0	1	1	4	4	3	12	31	4	2	9	19	3	0	0	0	0	2	0	2	0	0	0
August	4.6	W.	15	W.	0	0	4	3	4	5	9	36	0	1	12	19	0	0	0	0	0	1	0	1	0	0	0
September	4.1	W.	14	W.	0	3	4	5	2	1	6	36	2	1	11	18	1	0	0	0	0	6	0	1	0	0	0
October	4.0	W.	19	W.	0	5	13	1	2	3	6	29	2	1	11	14	6	2	1	0	0	2	0	0	0	0	0
November	5.0	NE.	22	NE.	0	7	18	5	1	2	14	11	2	0	15	13	2	3	3	0	0	1	0	0	0	0	0
December	5.1	NE.	30	NW.	0	2	27	3	1	2	6	17	3	1	13	13	5	6	5	0	0	2	0	0	0	0	0
Year	4.6	W.	30	NW.	0	42	139	49	27	32	116	283	28	14	127	203	35	36	29	0	0	20	0	5	0	2	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

LOUISVILLE, KY.

[λ=38° 15′ N.; φ=85° 45′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.591	30.245	28.970	28.9	36.2	41.1	26.1	33.6	62	9	24	26	81	68	.134	.148	4.67	1.86	5.7	5.3	5.4
February	29.451	29.841	28.351	21.8	29.5	33.5	20.0	26.8	56	4	17	23	82	74	.105	.131	.62	.21	5.2	5.5	5.5
March	29.436	29.978	28.820	41.5	49.9	55.3	38.5	46.9	74	12	35	37	77	62	.216	.238	2.10	.50	5.8	6.1	6.5
April	29.437	29.744	29.061	48.0	58.6	64.6	44.7	54.6	86	26	38	40	70	51	.241	.256	2.05	.88	4.5	5.4	5.5
May	29.464	29.640	29.206	64.6	74.1	81.0	60.1	70.6	91	44	56	59	74	63	.477	.534	6.41	3.58	4.1	4.2	4.8
June	29.383	29.672	28.928	68.3	77.8	83.1	63.8	73.4	97	53	60	60	75	57	.530	.548	6.51	2.19	5.2	5.2	4.9
July	29.478	29.657	29.326	72.9	84.0	89.8	68.7	79.2	98	59	64	65	74	55	.603	.632	1.87	.54	2.6	3.6	3.6
August	29.422	29.646	29.237	68.3	79.5	86.0	65.7	75.8	99	57	62	63	80	59	.557	.595	2.74	.77	3.8	5.5	3.9
September	29.445	29.774	29.069	59.8	70.8	78.4	57.8	68.1	91	40	55	57	85	63	.454	.479	4.03	1.29	5.5	5.0	5.8
October	29.514	29.923	29.171	52.4	63.2	70.9	50.3	60.6	84	37	46	50	81	63	.325	.370	1.15	.63	3.4	2.8	4.4
November	29.504	29.794	28.960	48.8	55.6	61.4	46.5	54.0	79	32	44	45	82	69	.293	.312	3.85	1.26	7.2	4.0	5.9
December	29.550	29.978	28.720	33.1	36.6	41.1	28.6	34.8	65	9	28	29	82	72	.164	.171	5.65	2.07	7.0	7.3	8.0
Year	29.473	30.245	28.351	50.7	59.6	65.5	47.6	56.5	99	4	44	46	79	63	.342	.368	41.65	3.53	5.0	5.0	5.4

LYNCHBURG, VA.

[λ=37° 25′ N.; φ=79° 9′ W.]

January	29.358	29.905	28.641	29.7	35.2	43.1	25.4	34.2	58	13	23	26	77	68	.128	.141	3 91	1.54	5.0	4 2	5.3
February	29.162	29.628	28.455	28.1	34.3	40.0	25.7	32.8	68	14	21	27	74	72	.125	.152	5.67	1.78	5.5	4.4	5.9
March	29.259	29.655	28.727	42.0	50.4	57.8	38.1	48.0	77	21	33	34	71	56	.203	.213	4.09	1.43	4.7	4.5	5.2
April	29.219	29.543	28.726	49.3	58.4	65.6	44.1	54.8	87	33	38	39	66	51	.235	.250	2.92	1.23	4.6	4.2	5.0
May	29.296	29.600	29.015	63.7	70.3	79.5	56.8	68.2	94	42	54	55	71	60	.431	.452	2.27	.76	4.5	5.5	5.2
June	29.215	29.714	28.796	68.9	75.8	83.7	61.3	72.5	96	49	58	58	69	57	.493	.502	3.89	2.29	4.4	5.0	5.1
July	29.300	29.544	29.096	74.3	79.8	89.6	67.4	78.5	99	58	64	65	72	62	.606	.622	1.66	.78	3.1	4.6	4.2
August	29.244	29.509	29.046	69.4	75.7	85.1	64.3	74.7	94	56	62	65	79	68	.575	.616	3.69	1.09	3.5	3.8	4.5
September	29.308	29.574	28.866	61.0	68.8	78.1	56.5	67.3	91	42	56	58	86	70	.470	.496	2.48	.56	4.4	3.4	4.1
October	29.343	29.822	28.755	52.3	59.1	70.2	47.8	59.0	84	31	47	52	82	77	.330	.396	9.86	7.18	3.3	2.5	3.5
November	29.343	29.745	28.739	46.1	53.9	64.4	43.0	53.7	78	28	42	46	85	77	.275	.330	4.32	1.46	4.4	3.6	5.1
December	29.352	29.850	28.806	34.5	38.6	46.4	30.4	38.4	67	19	29	30	80	72	.164	.173	4.03	.97	6.1	4.1	5.3
Year	29.283	29.905	28.455	51.6	58.4	67.0	46.7	56.8	99	13	44	46	76	66	.336	.362	48.79	7.18	4.5	4.2	4.9

MACON, GA.[a]

[λ=32° 50′ N.; φ=83° 38′ W.]

January	29.761	30.120	29.224	36.5	.....	54.3	33.8	44.0	68	23	32	....	85	....	.194	.....	1.13	.64	5.2	.....	5.7
February	29.560	29.872	28.898	36.6	.....	51.5	34.5	43.0	70	22	32	....	85	....	.194	.....	5.15	1.68	6.8	.....	6.7
March	29.636	30.004	29.283	49.1	.....	64.7	46.1	55.4	77	26	44	....	82	....	.303	.....	7.65	2.14	6.6	.....	6.0
April	29.632	29.827	29.429	54.7	.....	73.0	50.9	62.0	88	38	50	....	84	....	.370	.....	1.45	.60	3.9	.....	5.0
May	29.650	29.839	29.452	70.3	.....	86.4	65.3	75.8	93	55	62	....	78	....	.674	.....	1.97	.66	4.9	.....	4.5
June	29.576	29.924	29.289	74.4	.....	90.1	69.8	80.0	99	62	69	....	84	....	.714	.....	2.16	1.56	3.7	.....	4.4
July	29.673	29.827	29.616	76.7	.....	91.6	71.1	81.4	101	64	71	....	83	....	.760	.....	5.15	2.02	4.2	.....	5.3
August	29.591	29.781	29.479	74.4	.....	89.6	70.7	80.2	100	66	69	....	84	....	.707	.....	1.84	.65	5.1	.....	5.5
September	29.633	29.772	29.477	68.0	.....	82.1	64.7	73.4	91	53	62	....	83	....	.573	.....	2.38	.70	7.1	.....	6.5
October	29.671	30.115	29.256	58.1	.....	74.4	54.2	64.3	85	38	53	....	84	....	.422	.....	2.97	1.50	4.1	.....	4.3
November	29.691	29.967	29.233	51.9	.....	68.7	49.3	59.0	78	30	48	....	88	....	.353	.....	3.31	1.26	5.6	.....	6.3
December	29.733	30.016	29.264	41.1	.....	56.3	38.2	47.2	71	17	38	....	89	....	.247	.....	2.84	.92	6.2	.....	5.8
Year	29.651	30.120	28.898	57.6	.....	73.6	54.0	63.8	101	17	52	....	84	....	.451	.....	38.00	2.14	5.3	.....	5.5

MARQUETTE, MICH.

[λ=46° 34′ N.; φ=87° 24′ W.]

January	29.247	29.909	28.773	18.3	21.3	25.5	14.2	19.8	37	—14	13	15	77	75	.083	.092	1.75	.41	7.9	6.4	7.5
February	29.123	29.677	27.912	18.3	23.1	26.5	16.6	21.6	45	— 6	12	16	74	72	.079	.097	1.24	.63	5.9	6.2	7.3
March	29.165	29.637	28.105	31.1	33.9	38.7	27.9	33.3	60	3	23	25	70	70	.126	.137	.67	.18	5.8	6.6	6.4
April	29.134	29.553	28.508	36.9	38.9	43.8	32.5	38.2	72	16	27	28	68	66	.150	.154	3.38	1.82	7.1	6.2	6.7
May	29.225	29.645	28.882	48.3	49.5	58.0	42.0	50.0	90	27	39	40	72	71	.251	.260	2.14	.70	6.5	6.7	6.8
June	29.103	29.449	28.736	53.0	55.4	62.1	46.2	54.2	78	35	44	44	73	68	.293	.305	2.98	.76	5.1	5.5	6.0
July	29.149	29.439	28.902	64.9	67.7	75.0	55.1	66.6	90	50	54	56	70	68	.429	.461	2.14	.57	4.5	5.7	5.6
August	29.201	29.413	28.715	60.8	63.1	70.3	54.8	62.6	87	45	50	51	70	66	.374	.379	2.17	1.06	4.9	6.1	5.6
September	29.145	29.545	28.751	52.5	54.7	61.9	47.7	54.8	75	39	44	46	75	74	.301	.323	1.20	.48	6.2	6.7	6.4
October	29.199	29.603	28.718	44.1	45.6	53.1	40.3	46.7	70	32	35	35	70	67	.206	.206	1.97	.47	6.6	6.6	7.1
November	29.155	29.593	28.605	35.4	38.2	42.6	33.0	37.8	58	14	28	30	73	74	.156	.174	3.39	1.43	7.6	6.7	8.4
December	29.282	29.785	28.737	22.1	24.0	28.0	18.5	23.2	42	4	16	17	77	72	.092	.094	3.79	.83	8.1	7.7	8.2
Year	29.173	29.909	27.912	40.5	43.0	48.8	36.0	42.4	90	—14	32	34	72	70	.212	.224	26.77	1.82	6.4	6.4	6.8

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

LOUISVILLE, KY.

[H=525 ft.; h_t=114 ft.; h_r=107 ft.; h_a=136 ft.]

Month.	Wind.														Number of days.												
	By self-registers.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.		Minimum temperature below 32°.	Electricity.	
	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.		Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.9	S.	28	W.	0	9	4	5	5	10	10	6	12	1	14	5	12	6	5	3	0	1	6	0	23	1	0
February	9.5	N.	44	SW.	1	9	7	1	3	3	11	11	10	1	11	5	12	11	6	7	1	0	14	0	23	1	0
March	10.3	SE.	41	SW.	1	7	7	8	10	9	7	9	5	0	6	11	14	13	10	3	0	0	1	0	9	1	0
April	9.5	N.	53	SW.	1	11	5	4	1	8	9	12	10	0	9	11	10	12	9	0	0	0	0	0	3	4	0
May	8.3	SW.	36	NE.	0	10	6	6	9	14	8	4	5	0	13	7	11	12	11	0	1	0	0	5	0	9	0
June	7.8	S.	58	NW.	2	10	3	6	6	11	10	4	9	1	10	10	10	13	12	0	1	0	0	6	0	12	0
July	5.9	SW.	38	W.	0	11	3	3	9	15	10	3	7	1	15	11	5	8	8	0	0	0	0	18	0	10	0
August	6.4	N.	48	W.	1	19	3	3	7	5	11	3	11	0	15	11	5	7	5	0	0	1	0	8	0	6	0
September	6.3	SW.	32	NW.	0	13	2	7	10	5	11	7	2	3	11	5	14	11	9	0	0	1	0	1	0	1	0
October	7.1	S.	28	NW.	0	13	1	4	8	18	10	4	3	1	16	5	10	10	5	0	0	3	0	0	0	2	0
November	7.4	S.	25	S.	0	10	2	9	10	11	6	8	3	1	9	8	13	11	10	1	0	1	0	0	0	0	0
December	9.9	SW.	40	S.	1	8	3	5	8	7	15	10	5	1	4	5	22	12	10	1	0	3	5	0	18	1	0
Year	8.1	S.	58	NW.	7	130	46	61	86	116	118	81	82	10	133	94	138	126	100	15	3	10	26	38	76	48	0

LYNCHBURG, VA.

[H=681 ft.; h_t=83 ft.; h_r=77 ft.; h_a=88 ft.]

January	4.8	NW.	34	NW.	0	1	3	8	1	3	10	5	25	6	9	13	9	8	7	3	0	1	3	0	27	0	0
February	6.6	NW.	36	NW.	0	4	7	4	2	2	3	8	26	0	8	8	12	9	8	3	0	1	5	0	23	1	0
March	6.6	NW.	34	NW.	0	0	5	7	5	10	8	7	20	0	12	9	10	8	7	1	0	1	0	0	8	0	0
April	5.9	NW.	26	NW.	0	3	9	2	4	1	10	12	18	1	11	13	6	6	6	0	1	0	0	0	0	2	0
May	4.5	SW.	40	NW.	1	2	7	8	12	6	14	2	9	2	7	19	5	11	8	0	0	1	0	4	0	8	0
June	4.7	NW.	28	NW.	0	1	4	2	7	7	15	7	17	0	6	17	7	6	5	0	0	0	0	4	0	7	0
July	4.0	SW.	24	NW.	0	1	5	12	3	2	16	7	16	0	11	18	2	8	3	0	0	0	0	14	0	7	0
August	3.3	E.	27	W.	0	1	9	15	11	9	6	5	3	3	12	13	6	8	8	0	1	0	0	4	0	6	0
September	3.5	SE.	19	NW.	0	1	6	5	20	4	8	3	11	2	15	7	8	11	7	0	0	0	0	1	0	0	0
October	3.2	NE.	23	NW.	0	3	12	4	1	3	8	3	11	17	21	5	5	7	7	0	0	0	0	0	1	1	0
November	3.2	SW.	21	NW.	0	3	10	5	4	7	13	6	6	6	13	6	11	6	6	0	0	0	0	0	1	0	0
December	5.0	NW.	23	NW.	0	2	12	1	2	5	15	11	14	0	10	11	10	11	11	0	0	0	3	0	18	0	0
Year	4.6	NW.	40	NW.	1	22	89	73	72	59	126	76	176	37	135	139	91	99	83	7	2	4	11	27	78	82	0

MACON, GA.

[H=370 ft.; h_t=93 ft.; h_r=86 ft.; h_a=99 ft.]

January	6.3	NW.	28	NW.	0	2	4	2	2	4	5	3	6	3	10	7	14	10	4	0	0	1	0	0	12	0	0
February	8.8	NW.	36	SE.	0	3	1	2	1	1	1	2	17	0	6	5	17	9	9	0	0	0	0	0	13	1	0
March	8.0	NW.	32	S.	0	2	2	4	4	5	3	2	8	1	9	8	14	14	12	0	0	2	0	0	2	3	0
April	6.3	NW.	30	N.	0	7	1	0	1	9	2	2	7	1	12	8	10	5	4	0	0	0	0	0	0	4	0
May	5.4	S.	34	NW.	0	5	1	3	4	9	4	2	3	0	13	9	9	11	6	0	0	0	0	9	0	10	0
June	6.8	SW.	34	NW.	0	2	4	4	5	7	4	4	0	0	13	13	4	7	6	0	0	0	0	19	0	5	0
July	4.7	S.	55	S.	1	5	2	3	5	4	4	5	3	0	11	10	10	11	10	0	1	0	0	19	0	13	0
August	5.0	S.	34	S.	0	1	2	5	2	5	9	4	2	1	8	14	9	8	5	0	0	0	0	17	0	10	0
September	6.2	NE.	30	W.	0	5	9	2	2	5	2	1	3	1	8	5	17	10	7	0	0	0	0	2	0	3	0
October	6.7	NE.	30	SE.	0	14	5	1	0	3	2	2	3	1	16	3	12	7	6	0	0	0	0	0	0	0	0
November	5.4	N.	26	W.	0	13	4	1	2	2	2	2	4	0	8	6	16	7	5	0	0	2	0	0	1	0	0
December	6.6	NW.	30	SW.	0	5	2	1	3	3	2	1	13	1	10	6	15	10	6	0	0	0	0	0	7	1	0
Year	6.4	NW.	55	S.	1	64	37	28	31	57	40	30	69	9	124	94	147	109	80	0	1	5	0	66	35	50	0

MARQUETTE, MICH.

[H=734 ft.; h_t=79 ft.; h_r=69 ft.; h_a=116 ft.]

January	13.3	NW.	43	SW.	3	2	1	1	5	7	9	22	15	0	5	4	22	16	10	16	0	0	25	0	31	0	0
February	11.3	NW.	38	SW.	0	2	1	4	6	5	14	22	0	2	11	15	10	4	10	0	0	17	0	26	0	0	0
March	11.6	NW.	42	S.	2	6	3	4	6	12	5	4	22	0	8	8	15	9	6	5	0	1	6	0	17	0	2
April	11.7	NW.	36	SW.	0	5	6	3	6	5	5	5	25	0	6	11	13	15	11	9	0	1	1	0	9	2	0
May	9.1	NW.	44	NW.	1	12	8	1	8	6	5	5	17	0	2	16	13	10	9	0	0	3	0	0	2	1	0
June	9.6	NW.	40	NW.	1	11	4	6	9	6	3	5	15	1	4	16	10	14	12	0	0	3	0	0	0	2	0
July	8.5	NW.	44	SW.	1	5	5	5	9	9	7	9	11	2	10	13	8	14	9	0	1	2	0	1	0	7	0
August	9.6	NW.	53	W.	1	9	6	4	4	8	9	3	19	0	10	12	9	8	5	0	0	1	0	0	0	0	0
September	11.8	NW.	39	SW.	0	2	1	3	6	14	11	9	14	0	5	14	11	14	7	0	0	2	0	0	0	0	0
October	12.6	NW.	38	SW.	0	5	1	3	7	8	7	16	15	0	5	7	19	19	12	4	0	0	0	0	0	1	0
November	11.1	NW.	35	SW.	0	8	2	1	6	13	6	10	14	0	2	6	22	12	10	6	0	1	4	0	12	0	2
December	12.3	NW.	38	NW.	0	6	5	2	7	6	6	16	14	0	2	8	21	19	15	19	0	0	21	0	30	0	0
Year	11.0	NW.	53	W.	9	73	44	34	77	100	78	118	203	3	61	126	178	160	110	69	1	14	74	1	127	13	4

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

MEMPHIS, TENN.

[λ=35° 9′ N.; φ=90° 3′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.775	30.215	29.251	34.7	42.1	47.4	32.3	39.8	68	15	27	29	74	62	.155	.168	6.00	2.99	5.1	4.3	5.3
February	29.611	30.070	28.537	30.3	37.2	41.0	28.8	34.9	67	16	26	28	82	70	.145	.164	2.16	1.45	5.3	5.8	6.7
March	29.577	30.103	29.005	47.7	57.2	61.8	45.7	53.8	74	26	42	42	79	59	.289	.290	5.96	1.82	5.2	5.3	5.5
April	29.603	29.788	29.342	55.1	66.4	70.2	52.8	61.5	87	38	47	50	75	59	.339	.381	2.69	.72	4.4	4.7	5.2
May	29.584	29.720	29.260	69.5	78.3	83.3	66.2	74.8	93	53	63	62	80	66	.592	.636	4.49	1.98	3.9	4.2	5.2
June	29.522	29.769	29.248	73.5	82.4	86.8	69.8	78.3	96	57	66	68	77	63	.641	.695	5.27	3.50	3.1	3.6	3.6
July	29.623	29.751	29.496	75.9	85.1	89.0	73.2	81.1	96	65	70	76	83	74	.742	.890	1.10	1.55	3.4	3.9	4.1
August	29.550	29.718	29.420	73.9	83.1	87.6	72.2	79.9	95	64	70	77	88	82	.741	.939	4.51	3.34	4.5	3.3	4.5
September	29.579	29.943	29.318	63.9	73.3	78.5	61.8	70.2	88	46	59	66	85	78	.522	.646	2.67	.88	4.9	4.0	4.5
October	29.659	30.010	29.367	56.3	67.5	72.6	55.5	64.0	83	42	50	56	80	68	.379	.466	3.23	2.63	3.9	2.4	4.0
November	29.646	29.896	29.022	52.9	60.0	65.0	50.9	58.0	79	31	48	52	84	76	.351	.413	4.15	2.02	6.1	4.9	6.3
December	29.720	30.121	28.895	38.8	43.9	48.5	35.8	42.2	66	15	34	35	81	72	.211	.219	8.09	4.33	5.5	4.5	5.9
Year	29.621	30.215	28.537	56.0	64.7	69.3	53.8	61.5	96	15	50	53	81	69	.426	.492	50.32	4.33	4.6	4.2	5.1

MERIDIAN, MISS.[a]

[λ = 32° 21′ N.; φ = 88° 40′ W.]

January	29.786	30.055	29.393	36.6	.....	55.6	33.1	44.4	71	20	32	....	84	....	.191	.....	2.93	1.14	5.5	.....	5.8
February	29.591	30.012	28.871	35.8	.....	50.6	33.6	42.1	69	20	31	....	81	....	.180	.....	4.38	1.42	7.1	.....	5.9
March	29.603	30.030	29.126	49.7	.....	66.3	46.7	56.5	79	27	44	....	81	....	.315	.....	9.90	5.24	6.7	.....	5.5
April	29.621	29.802	29.421	56.4	.....	74.6	52.0	63.3	85	36	50	....	84	....	.387	.....	2.42	2.02	6.2	.....	4.7
May	29.615	29.767	29.460	68.6	.....	85.7	64.4	75.0	93	52	63	....	83	....	.590	.....	2.55	.96	5.9	.....	5.1
June	29.560	29.786	29.392	74.2	.....	92.7	68.5	80.6	97	52	65	....	74	....	.626	.....	.22	.15	2.2	.....	2.1
July	29.659	29.801	29.570	74.7	.....	93.4	70.1	81.8	102	64	69	....	82	....	.704	.....	3.10	1.32	4.1	.....	5.1
August	29.573	29.682	29.498	74.7	.....	93.0	71.3	82.2	99	64	70	....	85	....	.728	.....	3.47	2.34	4.5	.....	4.5
September	29.586	29.877	29.403	67.3	.....	82.1	63.8	73.0	89	43	64	....	90	....	.624	.....	7.14	3.06	5.9	.....	5.6
October	29.668	30.044	29.502	55.1	.....	74.2	53.1	63.6	85	35	51	....	88	....	.395	.....	4.28	2.74	3.7	.....	3.7
November	29.663	29.914	29.186	51.4	.....	67.5	48.5	58.0	81	28	48	....	90	....	.348	.....	4.27	1.42	6.5	.....	5.8
December	29.722	30.064	29.148	42.1	.....	56.0	37.6	46.8	72	16	38	....	87	....	.257	.....	5.40	1.94	6.6	.....	6.7
Year	29.637	30.064	28.871	57.1	.....	74.3	53.6	63.9	102	16	52	....	84	....	.445	.....	50.06	5.24	5.4	.....	5.0

MILES CITY, MONT.

[λ = 46° 25′ N.; φ = 105° 49′ W.]

January	27.594	28.001	27.154	14.7	25.0	32.2	13.1	22.6	54	−22	13	21	94	87	.092	.130	.05	.03	1.5	3.3	2.6
February	27.415	27.945	26.663	16.9	24.8	31.4	14.2	22.8	58	−18	15	21	93	89	.097	.128	.31	.06	7.0	5.3	6.2
March	27.351	27.900	26.928	25.5	38.6	42.8	24.1	33.4	62	− 8	22	32	88	80	.124	.191	1.15	.52	5.3	6.4	5.8
April	27.407	27.751	26.947	35.7	53.2	57.5	34.3	45.9	82	18	32	45	86	74	.178	.307	.67	.42	3.5	4.7	4.1
May	27.318	27.808	26.689	51.4	67.0	71.9	48.1	60.0	90	34	44	57	78	71	.298	.473	2.86	1.20	4.5	4.2	4.5
June	27.386	27.811	27.014	64.4	71.2	75.2	50.1	62.6	95	36	49	61	82	72	.351	.556	2.21	.44	5.0	4.3	4.7
July	27.391	27.793	27.010	61.0	82.0	85.3	57.5	71.4	98	48	52	68	74	65	.398	.708	1.12	.66	2.4	3.4	3.0
August	27.437	27.735	27.151	59.5	80.8	85.3	57.6	71.4	96	48	52	70	77	70	.390	.742	1.34	.66	3.2	3.5	3.4
September	27.437	27.826	26.910	45.9	66.9	72.4	44.6	58.5	90	30	39	59	79	76	.248	.515	.47	.14	3.6	4.4	4.1
October	27.473	27.800	27.174	36.6	57.7	64.3	35.7	50.0	80	24	32	50	84	77	.180	.374	.10	.08	3.4	3.3	3.4
November	27.364	27.727	27.066	25.5	35.9	43.3	24.0	33.6	62	8	22	30	89	80	.121	.170	.10	.06	4.8	4.0	4.5
December	27.477	28.026	26.980	10.3	18.3	26.3	5.8	16.0	54	− 6	9	16	97	90	.066	.088	.22	.08	4.6	2.5	3.6
Year	27.422	28.026	26.663	36.4	51.8	57.3	34.1	45.7	98	−22	32	44	85	78	.212	.365	10.60	1.20	4.1	4.1	4.2

MILWAUKEE, WIS.

[λ=43° 2′ N.; φ=87° 54′ W.]

January	29.384	30.127	28.870	20.2	25.5	30.7	16.7	23.7	47	−10	17	18	86	72	.099	.105	.51	.25	4.8	4.2	5.6
February	29.246	29.721	28.044	16.1	23.8	28.6	14.8	21.7	51	− 8	11	18	78	75	.081	.104	1.13	.97	4.2	4.2	4.9
March	29.228	29.771	28.289	33.2	37.0	43.9	30.7	37.3	65	2	30	29	86	72	.170	.166	1.91	1.27	6.3	5.6	6.8
April	29.214	29.585	28.433	39.7	46.6	53.4	36.4	44.9	84	19	33	35	77	64	.192	.208	.67	.43	5.3	6.0	5.7
May	29.282	29.627	28.950	52.1	56.8	65.0	46.1	55.6	83	33	45	45	78	68	.316	.319	4.60	.86	6.2	6.1	6.7
June	29.199	29.478	28.691	58.5	62.0	70.9	52.8	61.8	85	46	52	53	80	74	.397	.415	4.71	1.23	4.7	6.8	6.1
July	29.257	29.552	29.001	66.9	72.8	80.4	61.8	71.1	91	53	61	62	82	70	.540	.564	4.82	1.44	5.5	5.5	5.6
August	29.287	29.512	28.901	62.7	68.1	74.7	59.5	67.1	86	53	58	58	84	70	.488	.482	.53	.30	5.3	4.4	4.9
September	29.277	29.503	28.897	54.0	60.0	66.9	51.0	59.0	81	39	50	50	87	72	.369	.364	4.27	1.34	5.1	5.1	6.4
October	29.293	29.698	28.778	48.1	54.5	60.5	45.8	53.2	75	33	43	45	84	71	.286	.305	1.81	1.58	6.7	4.3	5.5
November	29.267	29.559	28.920	41.5	45.2	51.9	37.9	44.9	70	24	38	39	88	78	.238	.252	1.85	1.21	7.4	6.0	7.0
December	29.325	29.818	28.664	24.7	26.2	31.3	20.4	25.8	44	− 2	21	22	84	83	.119	.122	1.82	.94	7.3	7.3	7.5
Year	29.272	30.127	28.044	43.1	48.2	54.8	39.5	47.2	91	−10	38	40	83	72	.275	.284	28.63	1.53	5.6	5.5	6.1

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

MEMPHIS, TENN.

[H=397 ft.; h_t=140 ft.; h_r=134 ft.; h_a=154 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	10.6	NW.	36	NW.	0	8	7	3	7	13	7	2	15	0	10	9	12	11	10	1	0	3	3	0	15	0	0
February	10.8	NW.	42	W.	2	11	8	3	7	4	2	3	18	0	4	12	12	9	6	1	0	1	5	0	18	3	0
March	12.7	NW.	45	NW.	3	5	4	12	15	5	2	4	15	0	10	8	13	10	9	1	1	1	0	0	2	5	0
April	9.8	NW.	52	W.	1	7	11	6	6	9	5	3	12	1	10	10	10	9	8	0	0	2	0	0	0	6	0
May	9.2	S.	34	W.	0	5	8	7	12	17	10	0	3	0	9	16	6	8	7	0	0	0	0	2	0	9	0
June	9.4	SW.	40	SW.	1	7	11	3	7	7	18	3	4	0	17	7	6	7	5	0	0	0	0	0	0	5	0
July	7.4	SW.	28	NE.	0	6	7	2	4	8	15	9	10	1	16	10	5	7	2	0	0	0	0	16	0	3	0
August	7.6	SW.	39	NW.	0	7	13	6	3	7	17	1	3	0	14	10	7	7	2	0	0	0	0	11	0	3	0
September	8.5	N.	35	W.	0	15	8	3	11	5	4	5	8	1	16	5	9	10	7	0	0	0	0	0	0	1	0
October	8.9	NE.	32	W.	0	3	14	2	13	10	9	3	8	0	13	14	4	8	3	0	0	0	0	0	0	0	0
November	9.0	SE.	31	NW.	0	7	6	4	17	11	5	4	6	0	6	10	14	11	9	0	0	2	0	0	1	0	0
December	10.7	NW.	52	SW.	1	5	12	4	6	10	10	4	10	1	12	1	18	9	8	0	0	2	0	0	8	1	0
Year	9.6	NW.	52	SW.	8	86	109	55	108	106	104	41	117	4	137	112	116	96	81	3	1	9	10	38	44	36	0

MERIDIAN, MISS.

[H=375 ft.; h_t=84 ft.; h_r=3 ft.; h_a=93 ft.]

January	5.9	N.	29	W.	0	6	5	3	0	3	5	3	6	0	10	8	13	11	9	1	0	3	0	0	14	0	0
February	7.1	NW.	26	E.	0	6	5	3	1	0	2	4	7	0	9	6	13	10	7	0	0	0	0	0	13	3	0
March	7.9	N.	38	E.	0	6	5	2	5	4	2	1	5	1	9	12	10	15	13	0	0	1	0	0	4	8	0
April	5.8	NE.	25	N.	0	4	8	0	0	5	7	2	4	0	10	15	5	6	4	0	0	0	0	0	0	4	0
May	4.8	SW.	24	SW.	0	2	5	3	5	5	9	1	1	0	10	13	8	9	8	0	0	0	0	2	0	6	0
June	5.7	SW.	28	SE.	0	3	7	4	0	3	10	1	1	1	23	5	2	2	2	0	0	0	0	24	0	3	0
July	4.3	SW.	28	SW.	0	3	1	0	1	3	16	4	2	1	10	14	7	9	9	0	0	0	0	25	0	14	0
August	4.5	SW.	22	SW.	0	4	1	4	1	3	11	4	2	1	10	19	2	10	5	0	0	0	0	24	0	11	0
September	5.1	NE.	24	W.	0	4	7	7	3	1	7	1	0	0	9	10	11	10	9	0	0	1	0	0	0	2	0
October	4.7	E.	32	W.	0	5	7	10	1	0	1	1	4	2	17	9	5	6	5	0	0	0	0	0	0	2	0
November	4.9	E.	28	NW.	0	4	6	7	2	1	2	4	3	1	9	10	11	8	5	0	0	2	0	0	2	0	0
December	5.8	SE.	28	W.	0	4	6	3	8	1	2	3	2	2	4	12	15	9	7	0	0	0	0	0	9	1	0
Year	5.5	SW.	38	E.	0	51	63	46	27	29	74	29	37	9	130	133	102	105	83	1	0	7	0	75	42	54	0

MILES CITY, MONT.

[H=2,371 ft.; h_t=42 ft.; h_r=33 ft.; h_a=50 ft.]

January	5.3	S.	30	NW.	0	8	4	0	3	19	13	8	6	1	22	8	1	2	0	2	0	0	11	0	31	0	0
February	5.2	N.	25	NW.	0	7	12	1	3	3	7	11	9	3	8	6	14	9	6	6	0	0	15	0	26	0	0
March	7.5	N.	40	NW.	2	10	9	2	4	9	3	6	19	0	9	12	10	10	6	5	0	0	5	0	23	0	0
April	8.2	W.	40	W.	2	7	4	11	9	7	0	15	7	0	12	15	3	4	2	1	0	0	0	0	10	0	0
May	8.0	W.	34	W.	0	6	5	5	11	6	6	11	8	4	12	13	6	8	6	0	0	0	0	0	0	6	0
June	5.6	W.	48	W.	1	10	7	8	4	5	3	15	8	0	12	10	8	10	9	0	0	0	0	2	0	4	0
July	5.6	E.	40	W.	1	5	7	14	3	10	2	13	7	1	21	9	1	7	7	0	0	0	0	12	0	2	0
August	5.8	W.	34	W.	0	10	2	8	6	8	1	14	13	0	18	10	3	7	6	0	0	0	0	11	0	4	0
September	6.9	S.	44	NW.	1	2	0	3	4	21	5	10	15	0	15	11	4	4	4	0	0	0	0	1	1	0	0
October	4.2	NW.	30	SW.	0	10	4	3	9	9	8	6	12	1	19	10	2	2	1	0	0	0	0	0	6	0	0
November	5.9	S.	60	N.	1	12	2	3	9	16	2	8	8	0	13	11	6	3	1	3	0	0	2	0	26	0	0
December	4.6	S.	27	NW.	0	11	5	2	5	15	11	5	8	0	15	12	4	7	3	7	0	0	21	0	31	0	0
Year	6.1	S.	60	N.	8	98	61	60	70	128	61	122	120	10	176	127	62	73	51	24	0	0	84	26	154	16	0

MILWAUKEE, WIS.

[H=681 ft.; h_t=124 ft.; h_r=116 ft.; h_a=142 ft.]

January	10.8	W.	34	SE.	0	7	1	0	3	6	11	22	12	0	11	7	13	4	3	4	0	0	17	0	30	0	0
February	9.6	W.	33	E.	0	7	1	3	0	7	5	24	9	0	12	6	10	6	3	4	0	2	19	0	24	0	0
March	11.8	N.	43	SW.	1	12	8	4	6	8	9	8	7	0	6	6	19	14	6	7	0	1	3	0	10	1	0
April	11.3	W.	52	SW.	2	8	6	2	8	7	6	12	11	0	8	10	12	9	5	1	0	1	0	0	8	2	0
May	10.7	NE.	38	W.	0	7	20	6	7	2	8	8	4	0	6	10	15	14	10	1	0	2	0	0	0	11	0
June	9.5	W.	38	S.	0	6	15	2	5	5	5	12	6	0	6	13	11	14	14	0	2	4	0	0	0	7	0
July	9.3	SW.	44	SW.	1	5	2	5	6	5	20	14	5	0	11	9	11	17	16	0	1	1	0	2	0	12	0
August	9.1	NE.	30	SE.	0	12	11	6	11	1	9	6	5	1	12	8	11	8	3	0	0	0	0	0	0	3	0
September	11.6	W.	38	SE.	0	7	10	1	4	8	13	11	5	1	6	9	15	11	10	0	0	4	0	0	0	2	0
October	12.3	W.	34	E.	0	3	12	3	6	3	13	19	3	0	9	11	11	7	6	1	0	0	0	0	0	2	0
November	11.8	SW.	39	SW.	0	8	4	1	3	7	22	7	8	0	7	4	19	7	5	1	0	0	0	0	5	0	0
December	13.9	W.	43	NE.	3	5	9	6	3	1	14	19	5	0	6	4	21	11	9	7	0	2	13	0	28	0	0
Year	11.0	W.	52	SW.	7	87	99	39	63	63	135	162	80	2	100	97	168	117	90	25	3	17	52	2	105	40	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

MINNEAPOLIS, MINN.[a]

[λ=44° 59′ N.; φ=93° 18′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January					21.5	27.2	10.2	18.7	46	−17							.44	.26			
February					21.3	26.3	10.1	18.2	52	−15							.47	.30			
March					39.0	45.1	27.2	36.2	63	7							.30	.09			
April					49.4	56.0	33.1	44.6	84	16							2.70	2.49			
May					63.7	69.0	51.3	60.2	86	34							4.33	1.10			
June					68.8	73.1	55.1	64.1	86	44							2.00	.70			
July					74.8	80.9	62.2	71.6	88	54							6.05	2.28			
August					70.1	75.3	57.7	66.5	86	48							5.94	2.97			
September					59.9	66.3	48.2	57.2	82	36		49		70		.367	4.03	2.20			
October					52.4	58.6	40.6	49.6	74	30		47		84		.335	1.40	.53			
November					36.8	41.5	30.6	36.0	62	17		34		88		.202	1.74	.54			
December					18.0	23.0	8.1	15.6	39	−20		15		85		.093	2.61	.74			
Year					48.0	53.5	36.2	44.9	88	−20							32.01	2.97			

MOBILE, ALA.

[λ=30° 41′ N.; φ=88° 02′ W.]

January	30.115	30.380	29.722	43.9	52.2	59.1	40.7	49.9	69	27	38	43	82	72	.255	.297	2.79	2.42	3.5	3.9	5.2
February	29.925	30.326	29.042	42.1	49.8	56.2	40.0	48.1	73	28	36	39	79	68	.232	.261	8.82	2.78	6.8	5.5	6.4
March	29.958	30.358	29.530	55.4	61.0	67.3	53.3	60.3	79	35	50	52	82	76	.394	.426	6.52	3.20	6.0	5.2	5.8
April	29.980	30.166	29.781	60.4	67.2	73.5	57.2	65.4	83	44	56	57	85	73	.464	.489	2.07	.82	4.2	2.7	3.7
May	29.953	30.111	29.721	72.6	78.1	84.2	69.8	77.0	95	60	68	67	84	71	.680	.677	3.00	.93	3.5	3.5	3.8
June	29.889	30.118	29.638	77.5	82.8	90.1	74.0	82.0	98	64	69	70	77	66	.726	.732	.53	.37	1.2	3.0	2.2
July	29.998	30.151	29.860	77.9	82.2	89.5	74.3	81.9	96	70	72	71	82	70	.785	.762	2.65	.73	4.4	5.6	4.5
August	29.915	30.041	29.752	78.1	83.4	90.2	75.8	83.0	97	72	73	73	84	71	.808	.807	3.30	1.17	3.1	5.0	5.0
September	29.912	30.135	29.759	72.5	77.5	83.7	70.1	76.9	90	52	68	69	86	77	.708	.735	4.60	.90	4.6	5.0	6.0
October	29.988	30.359	29.670	60.8	69.2	76.1	58.4	67.2	85	44	56	59	84	72	.469	.527	4.50	1.75	4.4	2.6	4.0
November	30.003	30.232	29.531	56.9	64.5	71.0	54.4	62.7	81	39	52	55	85	72	.405	.452	2.53	1.28	5.0	2.7	4.9
December	30.077	30.344	29.516	47.4	53.2	60.0	44.3	52.2	72	23	42	44	84	72	.302	.316	7.35	3.25	6.2	3.6	4.9
Year	29.976	30.380	29.042	62.1	68.4	75.1	53.4	67.2	98	23	57	58	83	72	.519	.540	48.66	3.25	4.4	4.0	4.7

MODENA, UTAH.

[λ=37° 48′ N.; φ=113° 54′ W.]

January	24.637	24.935	24.077	18.2	32.8	40.9	13.3	27.1	60	−18	9	14	67	46	.069	.085	.33	.16	4.6	4.8	4.9
February	24.581	24.838	24.160	26.0	43.1	48.3	21.5	34.9	65	0	16	18	65	38	.092	.100	.32	.25	3.8	5.5	6.2
March	24.516	24.938	24.103	25.5	42.2	45.8	21.4	33.6	61	8	16	16	68	37	.088	.091	.54	.33	4.0	4.7	5.6
April	24.529	24.680	24.132	34.5	59.6	63.3	30.4	46.8	76	23	18	13	50	17	.099	.079	.13	.09	3.2	5.0	3.8
May	24.496	24.696	24.093	39.8	66.8	70.5	37.3	53.9	85	26	19	17	42	18	.101	.097	.19	.14	2.6	3.6	3.7
June	24.535	24.706	24.362	52.0	82.4	85.7	49.4	67.6	95	31	18	16	25	10	.099	.094	.02	.02	0.9	1.4	1.3
July	24.615	24.772	24.322	53.1	82.0	85.8	50.8	68.3	96	31	24	21	34	12	.140	.119	T.	T.	1.8	3.0	2.6
August	24.648	24.761	24.486	54.6	80.0	84.5	52.7	68.6	97	41	34	28	48	17	.211	.169	1.58	.98	2.9	3.5	3.2
September	24.639	24.832	24.267	47.7	74.1	79.2	45.3	62.2	92	28	24	24	42	19	.139	.139	.76	.74	1.5	2.8	1.9
October	24.644	24.817	24.413	35.4	60.9	66.9	33.0	50.0	76	22	17	18	48	21	.098	.105	.04	.04	2.0	2.9	2.5
November	24.580	24.891	24.171	27.5	37.8	46.1	23.2	34.6	64	3	19	20	72	55	.110	.114	.89	.31	4.1	4.5	4.0
December	24.645	24.826	24.314	21.7	31.7	40.1	19.2	29.6	56	2	16	21	76	65	.093	.117	.29	.19	3.2	4.0	4.1
Year	24.588	24.938	24.077	36.3	57.8	63.1	33.1	48.1	97	−18	19	19	53	30	.112	.109	5.09	.98	2.9	3.8	3.6

MONTGOMERY, ALA.

[λ=32° 23′ N.; φ=86° 18′ W.]

January	29.936	30.240	29.431	39.9	49.9	55.8	36.5	46.2	68	23	34	37	79	63	.216	.245	3.73	1.66	5.5	4.6	5.4
February	29.736	30.154	28.845	38.2	47.1	52.4	36.1	44.2	69	21	30	35	74	65	.189	.223	8.72	4.51	6.9	5.6	6.3
March	29.781	30.164	29.318	50.8	60.2	65.8	48.8	57.3	77	30	46	51	85	74	.339	.400	8.60	1.76	5.3	4.1	5.3
April	29.789	29.980	29.602	56.5	69.1	74.3	53.6	64.0	86	41	50	52	81	58	.382	.405	2.09	1.45	4.6	2.8	4.5
May	29.778	29.974	29.582	70.5	79.2	86.7	67.4	77.0	95	57	62	61	77	58	.580	.554	5.62	2.69	3.3	5.0	4.6
June	29.703	29.996	29.436	75.3	86.8	93.1	71.3	82.2	99	60	66	62	74	45	.658	.559	1.57	.98	2.8	3.2	3.2
July	29.808	29.970	29.674	77.0	86.0	94.4	73.5	84.0	101	68	69	66	76	52	.704	.634	.43	.17	4.6	6.0	5.0
August	29.722	29.882	29.513	76.3	84.6	92.7	73.8	83.2	100	71	71	68	84	60	.764	.688	2.53	.76	4.8	6.2	5.5
September	29.753	29.972	29.542	69.2	77.3	84.6	66.2	75.4	93	48	64	64	83	66	.618	.624	2.94	.88	6.0	4.7	5.6
October	29.821	30.234	29.532	57.7	68.7	75.2	55.4	65.3	88	39	54	54	87	62	.435	.447	3.24	2.52	3.6	2.5	3.9
November	29.831	30.107	29.321	52.8	63.0	69.3	50.6	60.0	80	30	49	51	88	67	.366	.391	3.69	1.03	4.6	2.9	4.9
December	29.898	30.160	29.253	42.2	50.7	56.7	39.5	48.1	72	17	38	40	86	66	.248	.269	5.46	3.55	5.4	4.5	6.0
Year	29.796	30.240	28.845	58.9	68.6	75.1	56.1	65.6	101	17	53	53	81	62	.456	.453	48.62	4.51	4.8	4.3	5.0

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

MINNEAPOLIS, MINN.

[H=—— ft.; h_t=99 ft.; h_r=95 ft.; h_a=208 ft.]

Month.	Wind.														Number of days.											
	By self-registers.					Number of winds, 8 p. m.												Precipitation.				Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction.a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																							
January	12.2	NW.	44	NW.	2	4	0	1	4	6	1	7	8	0	8	16	7	8	4	8	0	0	16	0	31	0	0
February	11.3	NW.	36	NW.	0	0	2	1	2	7	1	7	8	0	12	7	9	4	4	3	0	0	18	0	26	0	0
March	14.2	SE.	50	S.	4	2	2	1	10	4	3	4	5	0	7	13	11	8	3	2	0	1	5	0	16	1	0
April	14.0	SE.	45	NW.	2	4	1	0	8	3	3	4	7	0	4	16	10	6	4	2	0	0	0	0	11	3	0
May	13.1	SE.	50	SE.	3	3	3	4	7	6	3	3	2	0	3	10	18	15	11	0	3	0	0	0	0	8	0
June	11.3	W.	40	W.	1	1	3	4	3	3	5	6	5	0	1	14	15	12	6	0	1	1	0	0	0	5	0
July	10.5	S.	46	E.	1	8	2	0	3	10	3	1	4	0	3	14	14	14	11	0	0	0	0	0	0	10	0
August	10.1	S.	42	S.	1	6	4	1	6	8	2	0	4	0	3	17	11	12	10	0	1	0	0	0	0	6	0
September	13.5	S.	34	SE.	0	4	2	0	7	7	0	5	5	0	8	9	13	11	8	0	0	0	0	0	0	5	0
October	11.7	SE.	58	NW.	2	4	5	3	5	5	1	5	3	0	11	7	13	11	9	0	0	2	0	0	1	4	0
November	12.1	NW.	42	SW.	2	4	0	1	5	4	2	6	8	0	4	5	21	9	8	4	0	0	2	0	15	0	0
December	12.2	NW.	42	N.	1	4	1	1	3	8	1	4	9	0	5	10	16	12	9	13	0	0	24	0	30	0	0
Year	12.2	S.	58	NW.	19	44	25	17	63	71	25	52	68	0	69	133	158	122	87	32	5	4	65	0	130	42	0

MOBILE, ALA.

[H=57 ft.; h_t=88 ft.; h_r=78 ft.; h_a=96 ft.]

January	7.5	N.	32	N.	0	20	4	2	9	11	4	1	11	0	13	3	15	9	8	0	0	3	0	0	4	0	0
February	9.3	N.	46	SW.	1	16	6	2	4	8	4	4	12	0	9	4	15	10	9	0	0	1	0	0	6	4	0
March	9.7	SE.	30	N.	0	10	5	4	14	14	3	2	10	0	11	6	14	14	12	0	0	3	0	0	0	3	0
April	7.3	S.	24	NW.	0	9	6	5	5	21	7	3	4	0	19	4	7	7	5	0	0	0	0	0	0	2	0
May	7.2	S.	26	W.	0	9	3	5	9	20	8	3	5	0	16	9	6	8	6	0	0	0	0	2	0	6	0
June	7.8	SW.	26	S.	0	6	4	5	2	13	17	5	8	0	26	4	0	5	3	0	0	0	0	14	0	4	0
July	6.0	NW.	40	SE.	1	5	5	5	3	10	11	4	18	1	15	9	7	15	13	0	0	0	0	11	0	11	0
August	6.2	SW.	30	SE.	0	5	2	4	5	8	16	13	9	0	11	15	5	9	9	0	0	0	0	17	0	7	0
September	6.5	N.	26	N.	0	15	8	7	5	11	6	2	6	0	6	13	11	15	13	0	0	0	0	0	0	4	0
October	6.7	N.	24	NW.	0	29	10	3	4	4	3	2	7	0	16	8	7	7	6	0	0	0	0	0	0	3	0
November	6.0	N.	24	SE.	0	17	8	5	7	5	3	4	11	0	12	8	10	5	5	0	0	0	0	0	0	0	0
December	7.9	N.	31	SE.	0	26	3	1	7	7	5	4	8	1	12	8	11	10	10	0	0	2	0	0	3	1	0
Year	7.3	N.	46	SW.	2	167	64	48	74	132	87	47	109	2	166	91	108	114	99	0	1	9	0	44	13	45	0

MODENA, UTAH.

[H=5,479 ft.; h_t=10 ft.; h_r=2 ft.; h_a=38 ft.]

January	7.1	W.	32	W.	0	3	8	12	4	2	10	22	1	0	10	11	10	6	3	6	0	0	7	0	31	0	0
February	10.3	W.	54	NW.	2	1	5	1	0	5	12	26	6	0	4	12	12	3	2	3	0	0	1	0	27	0	0
March	10.6	W.	43	SW.	2	4	6	5	1	9	13	17	7	0	8	14	9	6	3	6	0	0	1	0	30	0	0
April	12.4	SW.	62	S.	6	2	3	2	0	10	22	12	9	0	13	14	3	2	2	1	2	0	0	0	21	1	0
May	11.5	W	56	S.	3	2	4	1	2	6	19	25	3	0	15	12	4	3	2	2	1	0	0	0	10	1	0
June	12.0	SW.	43	S.	4	1	1	1	3	3	26	21	3	1	27	0	3	1	0	0	0	0	0	7	1	2	0
July	11.7	SW.	58	S.	2	1	4	4	1	2	28	19	3	0	20	9	2	0	0	0	0	0	0	9	1	5	0
August	11.6	SW.	36	SW.	0	3	4	2	1	6	26	16	4	0	19	9	3	5	4	0	0	0	0	8	0	10	0
September	10.6	SW.	47	S.	3	7	3	9	1	3	18	17	2	0	22	7	1	2	1	0	0	0	0	3	3	3	0
October	9.6	W.	36	S.	0	1	6	7	1	4	18	23	2	0	22	5	4	1	1	0	0	0	0	3	13	2	0
November	8.7	W.	40	S.	1	3	7	7	2	2	18	19	1	1	15	8	7	6	5	4	0	2	5	0	23	0	0
December	7.9	W.	28	NE.	0	5	9	5	4	0	16	19	4	0	14	11	6	5	2	4	0	0	9	0	29	0	0
Year	10.3	W.	58	S.	23	33	60	56	20	52	226	236	45	2	189	112	64	40	26	26	5	2	23	27	189	24	0

MONTGOMERY, ALA.

[H=223 ft.; h_t=100 ft.; h_r=70 ft.; h_a=112 ft.]

January	6.8	N.	31	W.	0	14	4	7	11	2	6	8	8	2	10	9	12	8	7	0	0	2	0	0	9	2	0
February	8.7	NW.	46	E.	1	10	1	5	9	4	5	4	18	0	7	7	14	10	8	0	0	1	0	0	7	3	0
March	8.8	E.	42	SW.	2	5	6	12	10	10	3	4	12	0	11	9	11	15	12	0	0	0	0	0	2	7	0
April	6.7	NE.	30	N.	0	6	14	1	5	8	11	9	6	0	13	9	8	6	4	0	0	0	0	0	0	2	0
May	5.6	SE.	34	SW.	0	7	6	5	17	9	7	6	5	0	16	9	6	9	6	0	0	0	0	9	0	16	0
June	7.1	SW.	33	NE.	0	11	5	7	7	7	18	4	1	0	20	8	2	5	5	0	0	0	0	22	0	5	0
July	5.9	SW.	28	SW.	0	3	4	6	6	11	16	12	4	0	10	14	7	7	4	0	0	0	0	27	0	13	0
August	6.1	SW.	32	NW.	0	5	3	5	9	12	19	5	4	0	11	6	14	10	9	0	0	0	0	23	0	9	0
September	6.9	E.	40	W.	1	6	14	17	6	7	6	4	0	0	9	11	10	11	10	0	0	0	0	2	0	8	0
October	6.3	E.	26	E.	0	14	12	16	0	2	4	7	7	0	15	9	7	8	5	0	0	0	1	0	0	1	0
November	5.5	E.	27	W.	0	12	7	17	9	2	2	9	2	0	11	8	11	4	4	0	0	0	0	0	1	0	0
December	7.2	N.	44	W.	1	12	7	10	10	2	3	6	12	0	9	7	15	7	7	0	0	0	0	0	3	2	0
Year	6.8	E.	46	E.	5	105	83	108	99	76	100	78	79	2	142	106	117	100	81	0	1	6	0	83	22	57	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

MOORHEAD, MINN.

[λ=46° 52′ N.; φ=96° 44′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.126	29.742	28.545	7.9	15.5	21.8	2.7	12.2	43	−28	6	13	91	90	.066	.092	.56	.30	3.0	2.8	4.0
February	29.016	29.448	28.152	8.6	17.8	22.8	5.1	14.0	48	−20	7	15	91	89	.078	.100	.62	.28	6.4	4.8	5.9
March	28.869	29.468	28.022	26.5	34.5	40.2	23.7	32.0	57	−10	24	29	91	82	.142	.174	2.26	.82	7.1	6.2	6.9
April	28.974	29.422	28.395	33.2	45.4	51.2	30.7	41.0	72	18	30	34	87	66	.167	.196	3.62	2.00	5.2	5.1	5.8
May	28.918	29.385	28.338	50.9	62.7	67.2	47.3	57.2	86	31	46	50	86	66	.330	.376	5.56	1.68	5.4	5.3	5.6
June	28.919	29.212	28.585	54.3	65.4	70.0	49.6	59.8	92	36	50	51	87	62	.373	.388	3.22	1.16	5.8	5.5	6.4
July	28.911	29.328	28.562	61.7	76.4	80.3	57.2	68.8	93	46	58	60	87	59	.484	.529	2.82	1.08	4.4	3.9	3.9
August	28.967	29.196	28.624	57.1	70.4	75.6	54.1	64.6	85	39	54	57	91	63	.428	.470	3.42	1.06	5.4	4.5	6.0
September	28.921	29.338	28.437	44.0	59.2	66.2	42.1	54.2	88	28	40	43	85	58	.250	.289	.74	.36	3.9	4.5	4.9
October	28.992	29.375	28.598	36.0	49.3	55.7	34.1	44.9	76	26	33	38	88	66	.189	.229	4.74	2.30	5.5	4.4	5.5
November	28.950	29.449	28.557	26.3	31.0	36.2	23.3	29.8	58	8	25	27	93	84	.138	.148	.54	.26	6.5	6.4	6.4
December	29.098	29.668	28.640	6.4	11.4	18.5	.8	9.6	36	−23	5	9	93	90	.061	.072	1.02	.38	5.1	3.4	5.1
Year	28.972	29.742	28.022	34.4	44.9	50.5	30.9	40.7	93	−26	32	36	89	73	.226	.255	29.12	2.30	5.3	4.7	5.5

MOUNT TAMALPAIS, CAL.

[λ=37° 56′ N.; φ=122° 35′ W.]

January	27.628	27.846	27.302	44.2	46.0	50.1	40.0	45.0	64	26	26	27	56	55	.148	.156	2.02	.68	3.1	4.0	4.6
February	27.536	27.724	27.122	43.7	45.2	47.8	40.9	44.4	55	34	42	43	95	93	.275	.283	12.78	1.69	5.3	5.1	8.2
March	27.541	27.906	26.902	41.8	46.0	50.8	39.0	44.9	64	30	29	35	68	71	.168	.208	4.29	1.27	1.0	4.0	4.5
April	27.563	27.757	27.209	44.9	49.5	53.4	42.3	47.8	71	35	35	40	75	74	.213	.256	2.79	.62	4.4	3.4	5.2
May	27.509	27.627	27.281	47.1	52.1	57.0	43.6	50.3	78	36	38	40	78	67	.233	.251	1.30	.65	1.9	2.4	3.8
June	27.459	27.682	27.301	60.9	67.7	72.6	57.3	65.0	84	40	34	37	42	37	.207	.235	.00	.00	.4	.3	.5
July	27.515	27.643	27.335	62.7	69.4	74.9	59.7	67.3	100	42	38	42	49	44	.239	.275	.03	.02	.3	.7	1.9
August	27.519	27.638	27.381	62.9	68.0	73.4	58.2	65.8	91	47	44	47	57	52	.300	.332	T.	T.	1.7	1.5	2.5
September	27.497	27.599	27.323	67.6	71.3	77.5	61.7	69.6	93	45	30	36	30	32	.174	.219	.00	.00	1.0	.9	1.9
October	27.534	27.719	27.165	53.4	56.3	61.7	50.8	56.2	78	44	41	44	71	69	.270	.291	2.61	1.10	2.0	2.8	4.1
November	27.558	27.767	27.173	46.1	47.0	51.5	43.2	47.4	62	37	38	40	77	81	.236	.258	3.82	1.23	3.4	3.7	5.2
December	27.604	27.750	27.337	43.0	44.7	48.4	40.3	44.4	60	33	38	39	83	82	.234	.244	3.27	1.22	3.6	4.2	5.7
Year	27.539	27.906	26.902	51.5	55.3	59.9	48.1	54.0	100	26	36	39	65	63	.225	.251	32.86	1.69	2.8	2.8	4.0

NANTUCKET, MASS.

[λ=41° 17′ N.; φ=70° 6′ W.]

January	30.040	30.634	29.213	28.1	30.3	35.0	24.6	29.8	49	9	22	22	75	70	.126	.128	2.75	.76	6.8	4.0	6.6
February	29.756	30.235	28.678	27.9	30.8	34.6	25.5	30.0	48	16	22	24	78	74	.128	.135	2.87	1.12	5.4	4.4	6.2
March	29.920	30.522	29.283	39.9	40.1	44.8	36.0	40.4	57	26	36	35	86	84	.218	.213	4.55	1.34	7.1	5.6	6.7
April	29.906	30.299	29.229	45.0	44.5	50.9	41.1	46.0	65	34	40	39	82	82	.246	.243	2.23	.61	5.3	5.3	5.9
May	29.994	30.476	29.517	52.0	50.0	56.7	47.1	51.9	65	39	46	44	81	82	.317	.298	.74	.19	6.5	5.6	6.1
June	29.876	30.534	29.334	60.4	59.0	66.0	55.3	60.6	73	47	54	54	81	84	.431	.424	6.34	1.90	4.3	5.4	5.2
July	29.985	30.303	29.707	64.9	63.2	69.7	60.1	64.9	78	52	60	60	86	89	.528	.516	1.76	.52	6.0	6.8	6.3
August	29.982	30.236	29.622	66.7	65.1	72.3	61.1	66.7	80	56	60	60	81	86	.528	.535	.27	.06	3.7	4.2	4.9
September	30.058	30.385	29.702	63.1	61.7	67.3	58.9	63.1	77	51	58	58	84	88	.491	.489	2.35	.86	5.6	4.6	6.1
October	30.041	30.491	29.361	55.1	54.0	59.4	49.5	54.4	68	38	48	47	79	79	.360	.344	4.25	1.39	5.4	2.4	5.7
November	30.054	30.432	29.407	48.2	48.6	53.3	44.5	48.9	62	31	44	44	86	84	.295	.299	1.96	.74	6.9	5.3	7.3
December	30.029	30.694	29.077	32.3	34.6	39.4	27.9	33.6	51	−1	27	28	81	77	.158	.169	5.90	1.07	7.5	5.8	7.3
Year	29.966	30.694	28.678	48.6	48.5	54.1	44.3	49.2	80	−1	43	43	82	82	.319	.316	35.97	1.90	5.9	5.0	6.2

NARRAGANSETT PIER, R. I.[a]

[λ=41° 19′ N.; φ=71° 17′ W.]

January						34.5	19.5	27.0	50	4							1.92	.85			
February						35.6	20.1	27.8	52	9							7.01	1.81			
March						47.1	33.8	40.4	59	22							6.18	1.86			
April						53.8	37.4	45.6	70	29							3.37	1.80			
May						62.2	45.6	53.9	71	34							1.01	.22			
June						71.6	53.9	62.8	83	43							3.60	1.15			
July						74.8	60.1	67.4	88	49							3.25	1.01			
August						76.0	57.5	66.8	82	41							1.81	.71			
September						70.8	55.7	63.2	78	43							3.77	.98			
October						62.3	45.2	53.8	76	26							4.54	1.29			
November						55.0	37.0	46.0	70	22							1.59	.88			
December						38.7	20.2	29.4	54	−5							6.37	.80			
Year						56.9	40.5	48.7	88	−5							44.42	1.86			

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

MOORHEAD, MINN.

[H=935 ft.; h_t=54 ft.; h_r=44 ft.; h_a=60 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. [a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.9	NW.	32	NW.	0	8	0	1	14	6	6	10	17	0	17	7	7	8	5	8	0	0	21	0	31	0	1
February	8.9	NW.	34	NW.	0	7	4	3	8	4	8	8	14	0	8	9	11	5	5	4	0	0	18	0	26	0	0
March	12.3	SE.	38	SE.	0	6	3	2	19	10	4	3	15	0	8	4	19	11	9	6	0	0	6	0	21	2	0
April	11.0	NW.	40	NE.	1	5	11	2	18	1	3	0	20	0	8	12	10	8	4	3	0	0	1	0	15	2	0
May	11.1	SE.	52	SE.	2	6	9	2	25	0	9	1	10	0	14	5	12	16	15	1	0	0	0	0	1	7	0
June	8.4	NW.	34	W.	0	7	7	0	15	1	7	6	17	0	7	8	15	16	12	0	0	0	0	1	0	6	0
July	7.8	SE.	36	NW.	0	9	4	1	18	5	13	3	9	0	15	9	7	9	9	0	1	0	0	1	0	6	0
August	8.4	SE.	35	SE.	0	6	6	1	25	1	5	3	14	1	10	8	13	12	9	0	0	0	0	0	0	6	0
September	10.8	NW.	40	SE.	1	6	3	2	21	0	1	5	22	0	13	10	7	5	5	0	0	0	0	0	3	0	0
October	8.6	SE.	36	SE.	0	10	7	2	18	6	4	3	12	0	13	4	14	8	7	0	1	0	0	0	11	2	0
November	10.2	NW.	40	SE.	1	8	2	2	19	4	1	6	18	0	11	4	15	6	3	3	0	0	10	0	25	0	0
December	10.9	NW.	38	SE.	0	4	7	1	17	2	5	3	23	0	14	6	11	8	6	8	0	0	26	0	31	0	0
Year	9.9	NW.	52	SE.	5	82	63	19	217	40	66	51	191	1	138	86	141	112	89	33	2	0	82	2	164	31	1

MOUNT TAMALPAIS, CAL.

[H=2,375 ft.; h_t=11 ft.; h_r=5 ft.; h_a=18 ft.]

January	17.6	NW.	55	NW.	8	16	6	3	4	5	4	4	20	0	11	13	7	10	9	0	1	11	0	0	5	0	0
February	21.9	S.	60	SW.	18	0	1	0	14	14	15	5	7	0	1	7	20	23	21	0	1	24	0	0	0	0	0
March	21.1	NW.	80	NW.	19	6	3	0	6	3	9	5	30	0	12	12	7	13	11	0	4	11	0	0	1	1	0
April	18.4	NW.	75	SW.	15	3	1	0	6	5	6	16	23	0	11	8	11	12	11	0	1	14	0	0	0	0	0
May	21.7	NW.	86	NW.	20	2	0	0	2	3	6	14	35	0	16	12	3	6	6	0	1	12	0	0	0	0	0
June	19.8	NW.	65	NW.	18	4	1	0	0	0	2	12	41	0	29	1	0	0	0	0	0	3	0	0	0	0	0
July	18.4	NW.	69	NW.	16	2	1	0	0	0	12	15	32	0	24	3	4	2	0	0	0	5	0	3	0	0	0
August	11.2	NW.	63	NW.	4	3	2	0	1	3	14	18	21	0	19	11	1	0	0	0	0	10	0	1	0	0	0
September	15.9	NW.	75	NW.	11	7	5	0	0	2	7	13	26	0	22	6	2	0	0	0	0	3	0	4	0	0	0
October	14.9	SW.	56	SW.	9	6	3	1	10	5	18	4	15	0	16	6	9	8	8	0	0	12	0	0	0	0	0
November	18.1	NW.	70	NW.	18	12	5	1	4	3	6	5	24	0	10	11	9	10	9	0	0	12	0	0	0	0	0
December	18.2	SW.	56	SW.	10	9	5	5	9	3	15	6	10	0	11	7	13	11	9	0	1	13	0	0	0	0	0
Year	18.1	NW.	86	NW.	161	70	33	10	56	46	114	117	284	0	182	97	86	95	84	0	9	130	0	8	6	1	0

NANTUCKET, MASS.

[H=12 ft.; h_t=43 ft.; h_r=38 ft.; h_a=85 ft.]

January	15.4	NW.	47	SE.	3	5	6	5	4	5	5	12	20	0	6	12	13	9	8	4	0	2	8	0	27	0	0
February	19.2	W.	64	E.	8	3	3	8	5	1	2	19	15	0	8	8	12	13	9	10	0	4	8	0	22	0	0
March	17.4	NW.	48	N.	4	11	4	4	7	6	14	4	12	0	6	12	13	15	12	3	1	6	0	0	5	0	0
April	14.7	SW.	48	E.	3	4	6	2	4	9	19	9	7	0	6	16	8	12	9	1	0	2	0	0	0	1	0
May	14.0	SW.	42	NW.	1	6	7	0	5	14	19	7	4	0	7	15	9	10	9	0	0	7	0	0	0	1	0
June	14.0	SW.	37	NE.	0	3	4	1	7	3	22	11	9	0	9	18	3	12	9	0	0	10	0	0	0	2	0
July	11.2	SW.	35	NW.	0	4	12	5	4	6	22	4	5	0	5	14	12	9	8	0	0	10	0	0	0	3	0
August	10.0	SW.	36	NW.	0	5	8	4	5	8	17	6	9	0	9	20	2	6	5	0	0	11	0	0	0	6	0
September	13.2	E.	36	SE.	0	4	12	12	2	10	2	6	6	0	7	10	13	13	7	0	0	9	0	0	0	1	0
October	16.2	SW.	48	NE.	2	10	9	2	9	6	9	10	7	0	10	12	9	7	7	0	0	5	0	0	0	0	0
November	15.6	N.	51	E.	3	12	13	3	1	7	12	6	6	0	3	9	18	11	10	0	0	9	0	0	2	0	0
December	18.2	W.	62	N.	7	8	9	4	2	2	3	22	12	0	3	8	20	18	16	8	0	1	4	0	19	0	0
Year	14.8	SW.	64	E.	31	75	98	50	65	69	154	112	112	0	79	154	132	135	109	26	1	76	20	0	75	14	0

NARRAGANSETT PIER, R. I.

[H= = ft.; h_t=10 ft.; h_r=1 ft.; h_a= 38 ft.]

January	.....	NW.	....	.....	0	2	4	0	3	2	5	6	9	0	17	6	8	11	9	5	0	1	9	0	28	0	0
February	.....	NW.	....	.....	8	2	7	1	3	0	2	6	7	0	13	5	10	8	8	5	0	1	7	0	26	0	0
March	.....	S.	....	.....	1	2	5	1	4	11	2	4	2	0	11	8	12	11	10	2	0	3	0	0	12	0	0
April	.....	S.	....	.....	0	4	2	0	4	10	4	6	0	0	14	6	10	6	6	0	0	2	0	0	4	2	0
May	.....	SW.	....	.....	0	0	0	2	4	6	18	3	3	0	22	1	8	10	6	0	0	2	0	0	0	1	0
June	.....	S.	....	.....	0	1	1	1	1	12	10	4	0	0	19	7	4	12	10	0	0	3	0	0	0	2	0
July	.....	SW.	....	.....	0	1	4	3	1	8	8	6	0	0	14	7	10	14	9	0	0	3	0	0	0	1	0
August	.....	W.	....	.....	0	1	0	3	5	7	5	8	2	0	21	6	4	6	3	0	0	4	0	0	0	4	0
September	.....	S.	....	.....	0	2	7	2	3	7	5	4	0	0	13	3	14	13	12	0	0	3	0	0	0	2	0
October	.....	SW.	....	.....	1	2	6	1	3	2	11	2	4	0	18	3	10	8	7	0	0	0	0	0	2	0	0
November	.....	SW.	....	.....	1	6	7	0	1	1	9	4	2	0	14	1	15	7	7	0	0	4	0	0	6	0	0
December	.....	W.	....	.....	1	7	2	1	3	0	6	7	5	0	12	8	11	16	16	7	1	0	7	0	26	0	0
Year	.....	SW.	....	.....	7	30	45	15	35	66	80	60	34	0	188	61	116	122	103	19	1	26	23	0	104	12	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

NASHVILLE, TENN.

[λ=36° 10′ N.; φ=86° 47′ W.]

Month.	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.602	30.094	29.036	31.7	40.0	46.3	28.7	37.5	69	16	26	30	77	69	.144	.174	4.68	1.27	5.1	5.3	5.4
February	29.445	29.860	28.444	27.5	34.2	38.7	25.4	32.0	62	10	22	25	78	70	.126	.142	2.20	.88	6.2	5.9	6.9
March	29.439	29.961	28.797	44.1	53.3	58.9	41.3	50.1	74	17	38	38	78	58	.243	.247	6.96	3.67	5.7	5.3	6.1
April	29.446	29.698	29.192	51.1	63.0	67.9	47.9	57.9	88	30	43	42	74	48	.291	.278	3.08	.90	4.5	5.4	4.6
May	29.459	29.612	29.205	66.9	77.1	81.9	62.8	72.4	92	47	60	60	79	58	.533	.532	4.36	2.35	4.1	4.9	4.3
June	29.384	29.690	29.059	70.9	80.1	86.9	65.9	76.4	98	53	62	62	73	57	.564	.580	2.77	.99	3.6	4.9	4.6
July	29.482	29.634	29.362	74.4	85.0	91.8	69.7	80.8	101	60	65	62	73	48	.623	.568	1.89	.60	3.4	3.8	3.7
August	29.412	29.608	29.300	71.9	81.4	89.3	67.9	78.6	98	60	65	63	79	56	.626	.594	2.69	1.80	3.2	4.0	3.9
September	29.448	29.742	29.072	62.3	72.4	79.5	58.9	69.2	91	41	57	56	82	59	.478	.472	2.82	1.02	4.9	3.4	4.7
October	29.521	29.928	29.232	52.9	65.7	72.6	50.5	61.6	83	34	48	49	85	56	.349	.360	1.83	1.05	4.3	2.2	3.3
November	29.509	29.807	28.920	48.9	57.7	63.6	46.5	55.0	78	30	45	45	86	65	.308	.309	4.04	1.88	6.5	4.0	5.4
December	29.560	29.947	28.749	36.8	40.9	46.7	33.4	40.0	67	12	32	33	81	75	.191	.206	6.58	2.97	7.0	5.7	6.5
Year	29.475	30.094	28.444	53.3	62.6	68.7	49.9	59.3	101	10	47	47	79	60	.373	.372	43.90	3.67	4.9	4.6	4.9

NEAH BAY, WASH.

[λ=48° 22′ N.; φ=124° 32′ W.]

January	30.055	30.424	29.495	40.7	41.9	44.4	37.3	40.8	57	20	37	38	88	86	.228	.235	9.13	2.40	6.7	7.1	6.7
February	29.662	30.096	28.804	43.4	45.4	47.4	40.6	44.0	56	33	40	42	90	88	.256	.266	25.75	3.84	8.9	8.8	8.7
March	29.861	30.364	29.219	40.6	45.4	46.9	38.2	42.6	58	33	37	38	88	78	.222	.233	12.74	2.34	7.5	6.7	7.5
April	29.912	30.414	29.173	44.1	47.5	50.8	40.6	45.7	58	33	40	42	88	81	.252	.264	5.15	.69	8.2	8.6	8.6
May	29.913	30.092	29.652	48.3	53.5	55.4	45.9	50.6	63	41	46	48	92	81	.309	.330	4.46	1.02	8.3	7.7	7.8
June	29.968	30.166	29.675	51.2	57.3	59.9	49.0	54.4	78	42	48	48	88	74	.331	.339	3.43	1.34	7.4	6.1	6.7
July	30.002	30.211	29.681	53.3	60.1	63.1	51.4	57.2	77	45	51	51	92	73	.375	.379	1.37	.64	6.5	5.0	5.6
August	30.021	30.226	29.765	53.4	61.1	64.8	51.3	58.0	82	46	52	53	94	76	.382	.404	1.10	.60	4.4	3.3	3.8
September	30.009	30.286	29.612	50.1	55.9	59.8	47.3	53.6	77	38	48	49	93	79	.335	.344	3.96	2.70	4.8	3.6	4.5
October	29.924	30.215	29.586	50.0	52.5	54.9	47.6	51.2	62	43	48	50	94	90	.336	.354	7.02	1.41	6.4	6.0	6.2
November	a29.710	a30.210	a29.256	b44.8	c45.5	c48.8	c41.0	c44.9	c 55	c 35	b42	c43	b92	c91	b.274	c.278	b12.47	b1.75	b7.2	c9.0	b8.2
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

NEW HAVEN, CONN.

[λ=41° 18′ N.; φ=72° 56′ W.]

January	29.955	30.589	29.179	23.8	28.6	34.5	19.5	27.0	49	6	16	20	72	68	.099	.116	1.83	.82	5.1	4.3	4.7
February	29.704	30.132	28.761	23.8	28.8	34.6	20.6	27.6	50	11	16	19	71	66	.099	.115	3.58	1.34	4.2	3.5	4.4
March	29.832	30.403	29.127	39.1	41.6	43.3	34.8	42.0	65	22	32	34	77	74	.192	.200	4.63	1.63	5.6	5.2	4.6
April	29.796	30.125	29.233	45.1	48.7	55.6	40.2	47.9	80	32	36	37	72	66	.216	.230	3.40	1.25	4.3	4.1	4.3
May	29.881	30.357	29.483	56.0	57.5	66.9	48.1	57.5	85	36	44	45	65	64	.304	.312	1.61	.51	3.8	4.6	3.8
June	29.774	30.401	29.192	63.3	64.7	74.1	55.5	64.8	89	47	53	54	70	71	.416	.436	4.35	1.07	3.6	5.6	4.4
July	29.879	30.188	29.624	67.9	69.5	77.8	61.8	69.8	90	53	60	61	78	76	.531	.552	3.26	.96	5.8	5.9	5.6
August	29.832	30.151	29.509	66.5	68.7	77.6	59.8	68.7	87	52	58	60	74	75	.492	.529	2.14	.66	4.0	4.6	3.2
September	29.945	30.270	29.584	60.5	63.3	71.2	54.9	63.0	84	45	55	58	84	84	.454	.494	6.84	1.96	5.7	5.0	5.5
October	29.937	30.411	29.265	51.2	54.6	62.0	45.4	53.7	74	31	45	47	79	77	.317	.338	6.41	2.41	4.5	4.1	4.3
November	29.958	30.382	29.333	43.6	47.5	54.9	38.5	46.7	67	26	37	41	79	79	.228	.269	.79	.42	5.2	4.9	5.8
December	29.951	30.572	29.250	25.9	29.8	36.6	21.1	28.8	53	− 5	19	22	73	72	.111	.129	6.49	2.12	4.9	4.0	4.4
Year	29.870	30.589	28.761	47.2	50.3	57.9	41.7	49.8	90	− 5	39	42	74	73	.288	.310	44.33	2.41	4.7	4.6	4.6

NEW ORLEANS, LA.

[λ=29° 58′ N.; φ=90° 4′ W.]

January	30.110	30.370	29.778	48.0	55.2	61.5	43.4	53.4	77	33	43	45	83	71	.294	.330	.97	.48	5.3	4.5	5.5
February	29.933	30.315	29.079	45.3	52.8	57.5	42.9	50.2	76	32	40	42	81	69	.265	.280	3.33	1.38	6.0	6.6	6.2
March	29.933	30.362	29.507	58.4	64.5	70.8	56.1	63.4	84	38	52	52	82	66	.438	.422	4.07	3.11	6.2	5.8	5.2
April	29.967	30.182	29.744	63.1	70.4	77.0	61.1	69.0	85	51	58	57	84	65	.499	.487	3.71	3.25	5.0	3.4	4.9
May	29.936	30.084	29.666	74.0	79.1	86.5	70.5	78.5	94	66	68	68	84	71	.702	.696	1.56	.47	4.5	5.6	5.7
June	29.889	30.066	29.681	78.9	83.7	91.0	74.8	82.9	95	69	71	70	77	64	.760	.734	1.46	.69	1.9	3.0	3.1
July	29.994	30.129	29.877	79.4	82.5	90.8	75.2	83.0	95	69	74	71	83	70	.828	.769	4.24	2.10	6.2	7.0	7.1
August	29.922	30.0a8	29.760	79.3	83.8	92.4	76.3	84.4	98	71	74	73	85	71	.848	.814	2.93	1.37	5.8	6.5	6.2
September	29.901	30.138	29.778	73.9	78.8	85.9	71.6	78.8	94	55	69	70	87	76	.742	.739	6.68	3.01	7.6	6.5	6.5
October	29.981	30.340	29.739	64.1	70.5	76.8	62.4	69.6	89	51	59	60	84	71	.516	.538	2.42	.92	4.8	3.4	4.0
November	29.990	30.218	29.586	60.7	66.5	73.2	59.1	66.2	84	40	58	59	90	76	.495	.509	3.65	1.74	5.9	5.5	6.2
December	30.072	30.369	29.573	49.8	55.3	61.2	46.8	54.0	78	28	45	47	84	74	.324	.346	6.09	1.76	4.3	5.6	5.7
Year	29.969	30.370	29.079	64.6	70.3	77.0	61.8	69.4	98	28	59	60	84	70	.559	.555	41.61	3.25	5.3	5.3	5.5

a For 20½ days. b For 21 days. c For 20 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

NASHVILLE, TENN.

[H=546 ft.; h_t=122 ft.; h_r=115 ft.; h_a=134 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurorae.
	Miles.		*Mi.*																								
January	7.6	NW.	34	S.	0	6	10	4	4	8	8	6	16	0	11	9	11	12	11	2	0	0	3	0	19	0	0
February	8.0	NW.	38	SW.	0	6	7	2	6	2	5	0	28	0	7	11	10	8	6	3	0	1	8	0	20	0	0
March	9.2	NW.	48	S.	1	5	7	4	10	12	3	3	17	1	10	8	13	12	7	1	0	0	1	0	7	4	0
April	7.8	NW.	36	S.	0	10	8	2	4	11	4	4	17	0	13	10	7	8	8	0	0	0	0	0	1	6	0
May	6.5	S.	30	NE.	0	8	9	8	9	11	7	8	2	0	16	9	6	9	7	0	0	0	0	4	0	6	0
June	6.6	N.	37	SW.	0	8	10	3	7	8	8	6	10	0	12	13	5	12	9	0	0	0	0	10	0	11	0
July	5.4	SW.	33	NW.	0	8	7	4	6	7	11	6	13	0	18	9	4	8	7	0	0	1	0	17	0	7	0
August	5.4	W.	35	NW.	0	8	5	5	6	6	12	13	7	0	15	12	4	9	7	0	0	1	0	13	0	8	0
September	5.8	SE.	29	NW.	0	6	7	6	11	11	2	6	11	0	14	7	9	13	11	0	0	1	0	1	0	2	0
October	5.4	S.	25	SW.	0	8	3	2	12	14	8	6	9	0	18	8	5	2	2	0	0	1	0	0	0	1	0
November	5.6	S.	27	S.	0	8	4	2	10	19	5	3	8	1	10	8	12	10	9	2	0	0	0	0	2	0	0
December	7.9	NW.	38	SW.	0	8	5	6	7	10	10	4	12	0	9	6	16	12	9	1	0	0	2	0	14	0	0
Year	6.8	NW.	48	S.	1	89	82	48	92	119	83	65	150	2	153	110	102	115	93	9	0	5	14	45	63	45	0

NEAH BAY, WASH.

[H=50 ft.; h_t=7 ft.; h_r=2 ft.; h_a=50 ft.]

January	10.8	E.	54	E.	3	0	1	37	9	4	8	3	0	0	8	6	17	18	17	4	0	0	1	0	7	0	0
February	11.6	E.	56	E.	5	0	0	39	5	4	6	2	0	0	3	0	25	25	25	1	0	0	0	0	0	1	0
March	9.7	E.	44	W.	2	0	2	19	6	3	16	14	1	1	6	5	20	26	24	2	1	0	0	0	0	1	0
April	8.5	SW.	41	SW.	1	0	2	16	11	2	19	10	0	0	1	4	25	19	19	2	0	0	0	0	0	0	0
May	8.4	SW.	36	W.	0	2	1	7	7	2	23	16	4	0	5	6	20	16	15	0	0	0	0	0	0	0	0
June	8.8	W.	32	E.	0	0	2	6	8	5	13	18	8	0	7	5	18	13	13	0	0	0	0	0	0	0	0
July	10.0	SW.	36	SW.	0	0	0	3	2	1	34	10	10	2	7	15	9	8	5	0	0	0	0	0	0	0	0
August	8.8	W.	28	W.	0	0	1	5	2	3	11	35	3	2	16	8	7	6	5	0	0	4	0	0	0	0	0
September	8.5	W.	36	SW.	0	1	0	16	4	0	13	21	3	2	15	5	10	10	9	0	0	1	0	0	0	0	0
October	7.8	E.	30	SW.	0	0	0	33	3	1	21	4	0	0	11	3	17	14	14	0	0	4	0	0	0	0	0
November	[c]11.4	[b]SW.	[b]56	NE.	[b]2	[b]0	[b]0	[b]15	[b]2	[b]3	[b]20	[b]1	[b]0	[b]0	[d]1	[d]5	[d]14	[c]17	[c]16	[c]0	[c]3	[c]0	[d]0	[d]0	[d]0	.....	.....
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

NEW HAVEN, CONN.

[H=106 ft.; h_t=117 ft.; h_r=110 ft.; h_a=140 ft.]

January	9.8	NW.	42	E.	2	17	2	2	3	3	8	11	16	0	14	7	10	13	7	9	0	0	11	0	31	0	0
February	13.0	W.	52	W.	3	15	4	3	2	1	3	17	10	1	17	3	8	8	8	4	0	1	10	0	25	1	0
March	11.4	N.	45	NE.	2	18	5	4	3	7	11	4	10	0	15	6	10	13	9	3	0	0	1	0	9	0	0
April	9.9	S.	36	NE.	0	5	5	1	7	17	10	7	8	0	14	10	6	9	6	0	1	0	0	0	1	1	0
May	9.2	SW.	36	NW.	0	13	1	1	7	7	16	7	10	0	19	4	8	9	7	0	0	2	0	0	0	3	0
June	8.7	SW.	32	NW.	0	9	2	0	1	13	13	13	9	0	12	14	4	12	9	0	0	1	0	0	0	5	0
July	7.2	SW.	27	N.	0	10	6	4	6	11	16	2	7	0	11	7	13	17	13	0	0	2	0	0	0	9	0
August	7.2	NW.	26	SE.	0	16	2	3	5	7	12	5	12	0	18	9	4	11	5	0	0	0	0	0	0	7	0
September	8.4	N.	32	SE.	0	21	6	2	7	5	9	1	9	0	11	5	14	14	12	0	0	1	0	0	0	2	0
October	8.2	N.	57	NE.	1	14	8	2	2	4	14	9	9	0	14	8	9	7	7	0	0	0	0	0	2	1	0
November	9.4	N.	34	N.	0	23	7	0	3	4	19	2	2	0	10	8	12	9	6	0	0	4	0	0	2	0	0
December	10.8	N.	38	N.	0	19	4	1	1	0	12	10	15	0	16	4	11	17	14	9	0	2	11	0	27	0	0
Year	9.4	N.	57	NE.	8	180	52	23	47	79	143	88	117	1	171	85	109	139	103	25	1	13	33	0	97	29	0

NEW ORLEANS, LA.

[H=51 ft.; h_t=88 ft.; h_r=78 ft.; h_a=121 ft.]

January	8.8	NE.	29	NW.	0	10	14	6	9	5	2	1	15	0	10	15	6	6	3	0	0	2	0	0	0	0	0
February	10.1	N.	35	SE.	0	13	15	1	6	3	4	3	11	0	7	11	10	8	5	0	1	3	0	0	0	4	0
March	11.6	SE.	38	S.	0	11	8	2	18	11	7	3	4	0	12	10	9	8	6	0	0	3	0	0	0	4	0
April	8.4	S.	33	NW.	0	6	9	1	12	21	3	3	3	2	11	13	6	4	4	0	0	0	0	0	0	4	0
May	8.0	SE.	33	NE.	0	5	5	2	30	9	3	7	1	0	5	19	7	9	6	0	0	0	0	2	0	7	0
June	8.4	S.	30	SE.	0	0	7	1	15	19	5	6	7	0	21	7	2	7	4	0	0	0	0	21	0	5	0
July	6.0	S.	41	SW.	1	2	5	3	12	16	10	5	8	1	1	12	18	10	8	0	1	0	0	21	0	19	0
August	6.9	SW.	30	NW.	0	0	2	2	7	6	18	22	5	0	4	18	9	10	7	0	0	0	0	24	0	13	0
September	7.5	NE.	28	NW.	0	4	18	3	16	7	6	2	3	1	5	9	16	14	12	0	0	0	0	2	0	11	0
October	9.0	NE.	42	NE.	1	11	31	3	8	2	0	1	6	0	19	5	7	7	6	0	0	0	0	0	0	1	0
November	7.8	SE.	36	SE.	0	7	16	1	21	4	2	4	5	0	6	13	11	4	4	0	0	0	0	0	0	1	0
December	9.4	NE.	36	S.	0	18	13	4	13	3	4	5	2	0	9	10	12	10	9	0	0	4	0	0	1	3	0
Year	8.5	SE.	42	NE.	2	87	141	29	167	106	64	62	70	4	110	142	113	97	74	0	2	12	0	70	1	72	0

[a] By eye observations when there is no self-register at station. [b] For 20½ days. [c] For 21 days. [d] For 20 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

NEW YORK, N. Y.

[λ=40° 43′ N.; φ=74° 0′ W.]

Month.	Pressure.			Temperature.							Moisture.											Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.							
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.				8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*						
January	29.734	30.362	28.996	26.5	30.5	35.5	22.9	29.2	49	12	20	21	74	67	.112	.121	2.28	.82				5.8	4.6	5.5
February	29.488	29.884	28.639	25.6	30.1	33.6	23.4	28.5	54	11	20	21	77	68	.116	.125	5.78	2.37				6.3	4.7	5.8
March	29.613	30.156	28.788	40.8	44.3	50.8	37.1	44.0	65	21	33	34	73	67	.195	.206	4.32	1.25				6.4	5.7	5.6
April	29.574	29.979	29.043	46.6	51.9	57.6	43.6	50.6	84	36	36	38	68	62	.222	.241	3.51	1.76				5.9	5.6	6.4
May	29.671	30.132	29.267	56.7	61.3	68.2	52.1	60.2	88	38	46	46	68	60	.328	.336	1.23	.62				4.9	4.1	5.1
June	29.567	30.168	29.008	64.2	69.2	76.9	59.6	68.2	89	51	55	58	72	68	.440	.488	5.91	1.77				4.0	5.7	5.1
July	29.667	29.942	29.411	70.1	73.5	80.9	66.3	73.6	91	61	62	63	76	71	.562	.577	3.12	.88				6.5	6.5	6.8
August	29.623	29.913	29.315	67.4	72.5	78.7	64.2	71.4	86	56	59	62	75	70	.512	.561	3.29	1.13				4.4	4.5	4.8
September	29.716	30.003	29.345	63.6	66.8	72.0	59.8	65.9	86	50	58	59	82	77	.495	.511	3.59	1.02				6.1	5.6	6.2
October	29.726	30.191	29.073	53.2	57.7	63.8	50.5	56.9	73	35	47	48	80	71	.334	.349	6.66	2.36				5.0	4.0	5.1
November	29.743	30.171	29.139	47.1	51.2	56.3	43.8	50.0	68	32	41	43	79	74	.262	.289	1.19	.69				6.1	5.9	6.4
December	29.784	30.352	28.902	29.9	33.4	38.2	26.1	32.2	54	8	24	25	77	69	.137	.144	6.19	1.84				5.7	4.5	5.7
Year	29.655	30.362	28.639	49.3	53.5	59.3	45.8	52.6	91	8	42	43	75	69	.310	.329	47.07	2.37				5.5	5.1	5.7

NORFOLK, VA.

[λ=36° 51′ N.; φ=76° 17′ W.]

January	30.031	30.641	29.285	34.4	37.9	44.5	30.3	37.4	64	22	28	27	76	66	.162	.155	2.15	1.02				5.2	4.3	5.1
February	29.805	30.305	29.236	32.0	36.0	42.2	29.5	35.8	66	18	25	28	74	72	.154	.165	4.66	1.52				4.7	3.5	4.5
March	29.916	30.381	29.247	46.7	50.1	59.1	41.6	50.4	76	22	42	41	82	73	.285	.277	2.44	1.45				5.0	4.5	4.7
April	29.874	30.195	29.243	53.0	55.8	64.5	47.4	56.0	85	35	47	46	81	73	.337	.334	1.79	.62				4.0	3.4	4.2
May	29.951	30.271	29.598	64.2	65.2	76.0	57.2	66.6	90	50	59	57	83	76	.509	.481	3.16	1.69				4.1	2.9	3.8
June	29.854	30.363	29.296	72.6	73.6	83.5	65.5	74.5	94	54	65	66	79	79	.636	.652	2.88	.71				3.7	3.2	3.7
July	29.942	30.171	29.731	76.7	78.2	88.0	71.1	79.6	98	65	69	69	78	74	.722	.715	3.74	1.31				2.7	3.0	3.4
August	29.881	30.126	29.648	72.8	74.0	83.7	68.2	76.0	96	58	66	66	81	78	.657	.650	4.51	1.48				3.1	3.1	3.7
September	29.943	30.193	29.545	68.4	69.5	77.3	63.7	70.5	87	54	62	63	82	81	.582	.588	4.82	1.55				4.7	3.5	4.9
October	29.990	30.496	29.495	60.5	63.7	72.0	56.4	64.2	81	44	56	55	84	75	.456	.457	2.86	1.10				3.7	2.3	3.5
November	30.000	30.409	29.423	53.7	57.1	65.0	49.7	57.4	80	37	51	50	90	78	.382	.373	3.05	1.28				5.7	4.0	5.8
December	30.026	30.521	29.405	39.9	44.1	50.7	35.9	43.3	70	20	33	37	76	75	.208	.234	2.42	.68				6.0	3.9	6.0
Year	29.934	30.641	29.236	56.2	58.8	67.2	51.4	59.3	98	18	50	50	80	75	.424	.423	38.48	1.69				4.4	3.5	4.4

NORTHFIELD, VT.

[λ=44° 10′ N.; φ=72° 41′ W.]

January	29.074	29.658	28.166	8.7	14.5	24.1	2.0	13.0	44	−15	6	10	85	83	.064	.075	2.09	1.23				7.2	5.4	6.5
February	28.848	29.293	27.864	11.4	19.4	27.6	6.6	17.1	51	−15	7	13	82	74	.072	.086	2.37	1.20				6.8	5.9	6.8
March	28.988	29.566	27.933	31.1	35.2	43.5	24.9	34.2	60	5	27	31	86	84	.159	.180	4.97	1.64				7.3	6.5	7.0
April	28.933	29.322	28.283	40.5	44.8	52.3	34.0	43.2	76	24	35	38	80	78	.206	.237	3.84	.84				6.6	7.5	7.5
May	29.027	29.541	28.607	49.5	52.7	62.5	39.3	50.9	84	22	39	43	70	69	.261	.291	3.42	1.11				6.4	7.0	6.7
June	28.916	29.483	28.382	58.0	60.5	69.2	46.6	57.9	84	34	50	52	75	75	.372	.404	3.84	1.24				6.4	7.5	7.3
July	29.053	29.291	28.733	63.8	65.4	73.8	53.5	63.6	88	42	57	58	78	76	.464	.480	2.91	.63				6.7	7.9	7.1
August	29.020	29.374	28.733	58.3	60.6	71.4	48.9	60.2	84	39	55	56	88	84	.436	.449	4.06	1.30				6.3	6.1	6.5
September	29.138	29.490	28.681	54.3	56.9	67.3	46.2	56.8	84	31	51	53	89	86	.389	.411	3.31	1.03				6.4	5.8	6.5
October	29.083	29.566	28.593	42.3	44.7	54.6	33.7	44.2	69	18	37	38	82	77	.237	.242	3.01	1.44				7.4	6.9	7.8
November	29.106	29.571	28.470	33.5	38.0	47.5	28.2	37.8	66	6	30	31	84	77	.168	.183	1.06	.38				7.7	6.1	7.1
December	29.084	29.784	28.542	13.1	16.9	26.2	5.1	15.6	44	−19	7	12	77	80	.069	.087	3.45	1.19				6.9	5.9	7.1
Year	29.022	29.784	27.864	38.7	42.5	51.7	30.8	41.2	88	−19	33	36	81	79	.241	.260	38.33	1.64				6.8	6.5	7.0

NORTH HEAD, WASH.

[λ=46° 16′ N.; φ=124° 4′ W.]

January																								
February																								
March																								
April																								
May																								
June																								
July																								
August	29.871	30.118	29.683	55.4	60.0	62.3	54.2	58.2	74	49	53	54	92	82	.404	.419	.43	.21				4.7	3.6	5.6
September	29.851	30.093	29.501	53.4	55.0	60.5	50.0	55.2	80	45	51	50	92	84	.375	.355	2.48	.88				2.8	3.4	6.7
October	29.769	30.064	29.423	53.6	55.7	59.4	51.2	55.3	79	46	51	51	93	87	.360	.376	2.52	.56				5.6	6.1	7.1
November	29.691	30.264	29.086	46.8	49.0	51.5	43.9	47.7	58	36	45	46	95	92	.306	.318	8.65	1.60				7.6	8.2	8.8
December	29.717	30.126	29.248	43.5	44.7	48.3	40.1	44.2	55	34	42	42	94	92	.271	.274	10.80	1.84				7.8	9.4	9.0
Year																								

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

NEW YORK, N. Y.

[H=314 ft.; h_t=108 ft.; h_r=305 ft.; h_a=350 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	17.1	NW.	74	NW.	10	5	7	4	2	7	4	11	22	0	11	9	11	13	11	8	0	1	10	0	28	0	0
February	22.7	NW.	74	W.	15	5	10	1	3	1	3	13	20	0	8	9	11	10	8	7	0	0	12	0	24	0	0
March	18.2	NW.	74	NW.	13	7	2	7	4	7	9	6	20	0	10	7	14	14	8	4	0	0	0	0	6	0	0
April	16.7	W.	58	W.	11	3	4	2	9	11	7	10	14	0	5	16	9	10	8	0	0	0	0	0	0	1	0
May	12.5	NW.	64	NW.	4	4	8	4	7	10	10	9	10	0	11	11	9	8	5	0	0	0	0	0	0	1	0
June	13.1	NW.	72	NW.	4	3	4	4	5	10	10	6	18	0	9	16	5	12	10	0	0	0	0	0	0	8	0
July	10.7	NW.	52	W.	4	3	5	8	8	9	8	9	12	0	6	8	17	14	11	0	1	0	0	1	0	9	0
August	10.4	NW.	56	NW.	3	2	8	4	3	7	12	8	18	0	12	13	6	10	8	0	0	0	0	0	0	6	0
September	11.9	NE.	58	NW.	1	8	11	8	7	7	3	6	10	0	9	4	17	17	11	0	0	1	0	0	0	0	0
October	14.6	NW.	52	NW.	5	5	11	5	2	5	8	13	13	0	14	5	12	8	7	0	0	0	0	0	0	0	0
November	13.2	SW.	60	NW.	4	7	9	4	3	3	15	8	11	0	7	8	15	8	6	0	0	2	0	0	1	0	0
December	16.0	W.	56	N.	6	3	7	4	2	0	7	18	21	0	11	6	14	16	13	7	0	1	7	0	22	0	0
Year	14.8	NW.	74	NW.	80	55	86	55	55	77	96	117	189	0	113	112	140	140	106	26	1	5	29	1	81	25	0

NORFOLK, VA.

[H=91 ft.; h_t=102 ft.; h_r=96 ft.; h_a=111 ft.]

January	9.4	N.	36	SE.	0	12	12	4	7	11	5	4	7	0	14	8	9	8	5	1	1	0	1	0	19	1	0
February	11.4	NW.	38	S.	0	7	4	3	10	2	5	6	19	0	15	5	8	10	9	3	0	2	3	0	21	1	0
March	11.9	S.	42	NW.	1	7	5	4	14	11	5	5	11	0	13	9	9	8	7	0	0	0	0	0	2	0	0
April	11.1	S.	37	NW.	0	5	9	4	12	12	9	5	4	0	13	12	5	10	8	0	0	2	0	0	0	1	0
May	9.5	S.	44	NW.	1	6	9	7	14	16	7	2	1	0	18	8	5	11	9	0	1	0	0	0	0	7	0
June	10.0	S.	49	W.	2	5	4	6	11	20	9	1	3	1	16	11	3	10	10	0	0	0	3	0	0	7	0
July	8.3	S.	28	N.	0	9	6	2	17	14	8	2	4	0	18	11	2	7	7	0	0	0	0	11	0	8	0
August	7.3	S.	54	NW.	1	8	12	4	9	15	10	3	1	0	18	10	3	11	8	0	0	1	0	5	0	7	0
September	8.2	S.	33	NW.	0	13	12	3	10	16	1	1	3	1	12	10	8	11	10	0	0	0	0	0	0	2	0
October	8.3	S.	33	NW.	0	7	10	6	13	12	5	4	5	0	18	6	7	9	8	0	0	2	0	0	0	0	0
November	8.7	S.	28	N.	0	10	10	5	4	15	5	5	6	0	10	9	11	10	7	0	0	7	0	0	0	0	0
December	10.2	N.	52	SW.	1	12	11	0	7	8	10	7	7	0	10	10	11	12	9	1	0	0	1	0	10	0	0
Year	9.5	S.	54	NW.	6	101	104	48	128	152	79	45	71	2	175	109	81	117	97	5	2	14	5	19	52	34	0

NORTHFIELD, VT.

[H=876 ft.; h_t=16 ft.; h_r=3 ft.; h_a=60 ft.]

January	7.3	S.	38	NW.	0	14	0	1	5	23	8	1	10	0	8	7	16	14	5	12	0	1	23	0	31	0	0
February	7.5	S.	36	NW.	0	11	1	1	3	27	4	2	7	0	5	10	13	8	7	7	0	1	20	0	28	0	0
March	10.5	N.	38	N.	0	26	1	1	1	19	6	1	7	0	5	7	19	16	13	4	0	1	5	0	24	0	0
April	9.6	S.	36	NW.	0	15	1	0	7	23	3	1	10	0	2	10	18	14	11	2	0	1	0	0	13	3	0
May	9.6	N.	36	N.	0	22	8	0	4	14	5	1	8	0	5	11	15	13	8	1	0	0	0	0	7	3	0
June	8.8	S.	34	NW.	0	14	5	2	1	21	7	2	8	0	3	10	17	16	12	0	1	0	0	0	0	5	0
July	7.7	S.	34	NW.	0	15	1	0	3	35	2	3	3	0	2	14	15	12	10	0	0	0	0	0	0	7	0
August	6.3	S.	36	SW.	0	8	9	1	3	28	2	2	9	0	3	17	11	16	10	0	0	0	0	0	0	4	0
September	7.0	S.	30	SE.	0	6	7	1	5	31	7	0	3	0	6	10	14	15	11	0	0	1	0	0	2	4	0
October	9.4	S.	35	SE.	0	10	1	0	5	30	3	1	12	0	1	10	20	18	13	1	0	0	0	0	16	3	1
November	8.1	S.	34	NW.	0	13	2	1	2	30	5	0	7	0	4	10	16	10	5	2	0	0	1	0	19	0	1
December	8.0	S.	40	NW.	1	14	1	0	3	24	13	1	6	0	8	3	20	17	13	16	0	0	18	0	31	0	0
Year	8.3	S.	40	NW.	1	168	37	8	42	305	65	15	90	0	52	119	194	169	118	45	1	5	67	0	171	29	2

NORTH HEAD, WASH.

[H=211 ft.; h_t=11 ft.; h_r=3 ft.; h_a=56 ft.]

January																											
February																											
March																											
April																											
May																											
June																											
July																											
August	14.9	NW.	37	SE.	0	10	1	1	3	3	1	5	38	0	11	8	12	3	3	0	0	9	0	0	0	0	0
September	13.4	NW.	60	S.	1	16	4	2	9	4	2	0	23	0	7	6	17	8	5	0	0	6	0	0	0	0	0
October	14.0	SE.	61	SE.	6	9	3	19	20	10	5	0	5	0	7	5	19	13	11	0	0	6	0	0	0	0	0
November	21.2	SE.	73	SE.	20	4	1	8	16	7	9	3	12	0	1	5	24	23	21	0	0	1	0	0	0	0	0
December	23.9	SE.	74	SE.	16	2	1	18	20	5	8	3	5	0	1	2	28	23	20	0	0	0	0	0	0	0	0
Year																											

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

NORTH PLATTE, NEBR.

[λ=41° 08′ N.; φ=100° 45′ W.]

Month.	Pressure.			Temperature.							Moisture.									
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	27.190	27.593	26.741	17.2	23.8	37.8	14.5	26.2	60	−19	12	16	79	60	.083	.095	.40	.24	2.3	3.1	3.7
February	27.033	27.471	26.306	19.8	30.0	36.8	16.4	26.6	60	−14	16	21	86	69	.098	.118	.35	.12	5.7	6.0	6.4
March	26.941	27.459	26.343	29.9	45.1	51.5	28.0	39.8	70	2	24	27	76	50	.131	.148	1.42	.86	4.6	5.0	5.6
April	27.034	27.366	26.489	38.6	57.8	62.4	36.2	49.3	93	25	31	35	75	45	.179	.207	.92	.36	4.7	5.2	5.1
May	26.980	27.368	26.335	54.5	69.6	73.2	52.3	62.8	88	38	49	51	84	54	.361	.385	7.98	2.94	4.9	5.5	5.3
June	27.006	27.357	26.654	58.8	73.0	76.5	56.2	66.4	102	40	53	56	81	57	.410	.459	3.46	1.76	5.6	6.0	5.5
July	27.061	27.466	26.747	63.4	78.7	84.1	60.8	72.4	100	51	57	59	81	52	.475	.504	4.56	1.46	3.6	3.9	4.2
August	27.079	27.219	26.806	63.8	77.7	83.5	62.1	72.8	101	50	60	61	86	60	.521	.549	1.74	.62	6.2	5.7	5.5
September	27.071	27.458	26.732	49.1	66.6	73.7	46.1	59.9	97	30	41	44	75	48	.270	.300	3.34	2.00	4.4	2.9	3.7
October	27.098	27.333	26.788	42.3	58.5	67.5	41.1	54.3	84	29	39	43	87	58	.242	.278	1.32	.82	3.9	3.1	4.0
November	27.037	27.393	26.710	30.5	41.2	51.1	27.5	39.3	75	13	26	29	82	63	.143	.164	T.	T.	4.4	4.7	5.1
December	27.092	27.540	26.550	17.7	23.1	31.0	13.3	22.2	59	−1	15	17	88	76	.087	.091	.78	.51	5.4	5.2	5.8
Year	27.052	27.593	26.306	40.5	54.2	60.8	37.9	49.3	102	−19	35	38	82	58	.250	.275	26.27	2.94	4.6	4.7	5.0

OKLAHOMA, OKLA.

[λ=35° 26′ N.; φ=97° 33′ W.]

January	28.864	29.202	28.299	28.4	39.8	46.4	25.2	35.8	70	0	23	23	79	54	.128	.131	.44	.19	5.0	3.2	4.4
February	28.687	29.216	27.751	26.4	41.5	46.6	24.3	35.4	72	5	22	28	81	61	.122	.161	.20	.14	4.6	4.2	5.2
March	28.645	29.196	28.208	42.6	55.5	60.8	41.1	51.0	79	22	37	41	80	61	.233	.276	4.90	2.64	5.7	5.0	4.7
April	28.653	28.972	28.288	52.7	66.9	72.4	50.2	61.3	93	38	48	53	83	65	.343	.414	3.37	1.53	4.9	5.1	4.8
May	28.617	28.840	28.125	63.9	73.8	78.4	61.9	70.2	88	51	60	63	88	72	.522	.596	11.99	3.25	6.1	5.8	5.4
June	28.564	28.948	28.307	69.8	81.8	86.6	67.5	77.0	99	50	62	64	77	56	.561	.602	.65	.22	4.6	3.6	4.4
July	28.703	28.957	28.512	71.8	82.7	87.9	69.9	78.9	95	65	67	66	84	59	.654	.632	1.85	1.10	5.6	5.3	5.6
August	28.654	28.911	28.441	72.6	89.7	95.3	71.0	83.2	101	58	65	62	79	42	.626	.566	2.99	1.08	2.7	2.8	2.4
September	28.695	29.078	28.457	59.5	70.6	78.0	56.9	67.4	94	45	54	55	82	61	.437	.453	3.92	1.41	5.3	3.3	4.3
October	28.736	28.992	28.322	53.7	65.8	73.8	52.3	63.0	84	39	48	52	80	62	.338	.392	1.90	.92	3.4	2.5	3.1
November	28.706	28.959	28.352	48.2	53.8	60.3	45.8	53.0	75	28	46	49	94	86	.341	.378	7.25	2.78	6.0	5.5	7.2
December	28.798	29.221	28.024	31.1	38.3	44.4	28.4	36.4	70	12	27	32	82	77	.151	.184	1.68	1.37	4.6	4.0	5.6
Year	28.695	29.221	27.751	51.7	63.4	69.2	49.5	59.4	101	0	47	49	82	63	.371	.399	41.14	3.25	4.9	4.2	4.8

OMAHA, NEBR.

[λ=41° 16′ N.; φ=95° 56′ W.]

January	28.974	29.504	28.408	20.1	29.4	34.9	18.2	26.6	59	−12	16	23	83	76	.095	.131	.71	.31	3.0	3.2	4.4
February	28.846	29.311	27.730	16.4	24.0	28.9	13.7	21.3	58	−11	12	18	84	78	.088	.108	.13	.10	5.9	5.9	6.0
March	28.721	29.309	28.136	34.7	45.4	51.1	32.5	41.8	71	2	27	29	74	54	.159	.172	.70	.22	6.4	7.0	5.9
April	28.774	29.190	28.009	42.9	57.8	63.7	40.7	52.2	92	22	32	37	65	48	.190	.229	.85	.30	5.6	4.4	5.0
May	28.737	29.072	28.242	59.5	70.7	75.2	56.8	66.0	92	43	52	54	78	59	.408	.434	2.88	.79	7.2	5.2	5.8
June	28.722	29.069	28.374	62.1	71.2	75.6	59.0	67.3	95	46	56	58	81	65	.480	.494	7.32	1.92	7.1	5.4	6.0
July	28.773	29.175	28.470	69.2	79.2	83.7	65.8	74.8	96	56	64	66	83	66	.591	.641	7.28	1.91	5.3	4.9	5.0
August	28.784	29.066	28.417	66.0	76.3	80.0	64.9	72.4	94	51	61	64	84	68	.544	.618	2.86	.92	5.9	4.8	6.4
September	28.789	29.152	28.410	54.2	65.7	71.3	52.6	62.0	86	39	46	49	75	58	.325	.366	1.52	.36	5.2	4.4	4.9
October	28.814	29.082	28.422	48.9	61.1	67.3	48.0	57.6	82	32	42	44	76	56	.278	.308	2.13	1.31	3.8	3.9	4.6
November	28.805	29.095	28.469	37.3	42.6	48.3	33.9	41.4	72	17	33	35	84	76	.202	.216	1.88	.49	5.3	5.2	6.4
December	28.905	29.458	28.164	18.6	22.6	28.6	14.4	21.5	50	− 8	16	18	89	82	.096	.103	2.72	.96	5.9	5.9	7.0
Year	28.804	29.504	27.730	44.2	53.8	59.1	41.7	50.4	96	−12	38	41	80	66	.285	.318	30.48	1.92	5.6	5.0	5.6

OSWEGO, N. Y.

[λ=43° 29′ N.; φ=76° 35′ W.]

January	29.680	30.350	28.996	20.8	23.8	29.2	15.6	22.4	41	1	17	19	84	82	.097	.106	2.49	1.23	9.3	7.5	8.8
February	29.490	29.944	28.832	20.2	24.4	28.4	15.6	22.5	46	− 4	18	20	90	80	.101	.109	1.78	.76	7.9	7.2	7.8
March	29.594	30.052	28.901	35.8	37.9	44.1	30.7	37.4	65	14	30	31	78	75	.173	.179	3.80	.95	6.2	5.8	6.6
April	29.525	29.916	28.978	43.1	45.5	51.8	38.0	44.9	77	28	35	35	74	68	.209	.208	2.21	.63	6.7	6.4	6.4
May	29.633	30.038	29.342	49.4	53.4	60.6	43.0	51.8	88	27	42	42	77	68	.285	.290	3.02	.78	7.1	6.2	6.1
June	29.507	29.988	29.072	57.7	59.5	66.4	51.3	58.8	83	42	51	52	80	77	.391	.395	4.54	.86	5.8	6.1	6.2
July	29.603	29.871	29.334	65.6	68.6	74.6	60.6	67.6	85	53	60	60	82	75	.520	.523	6.48	1.64	5.3	5.0	4.8
August	29.586	29.860	29.305	64.3	66.8	71.7	59.0	65.4	86	50	58	58	79	74	.485	.486	2.23	.74	5.5	4.6	5.0
September	29.655	29.969	29.108	59.1	62.6	70.2	53.1	61.6	81	41	53	54	80	74	.411	.424	2.57	.86	5.1	3.9	5.1
October	29.657	30.083	29.156	48.2	51.2	56.6	42.5	49.6	72	31	41	42	75	71	.266	.278	2.24	.67	7.7	6.4	7.5
November	29.670	30.130	29.120	42.8	44.6	51.6	37.0	44.8	64	23	37	38	81	77	.233	.235	1.78	.53	7.2	5.5	7.1
December	29.685	30.352	29.043	28.1	25.6	30.7	17.9	24.3	48	−12	20	21	89	82	.115	.117	4.73	.85	8.8	8.0	8.2
Year	29.607	30.352	28.832	44.2	47.0	53.0	38.8	45.9	88	−12	38	39	81	75	.274	.279	37.87	1.64	6.9	6.0	6.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

NORTH PLATTE, NEBR.

[H=2,821 ft.; h_t=43 ft.; h_r=35 ft.; h_a=52 ft.]

Month.	Wind.														Number of days.											
	By self-registers.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																							
January	7.4	W.	35	NW.	0	2	3	3	6	3	6	20	19	0	18	10	3	2	2	2	0	0	10	0	29	0	0
February	7.9	W.	37	NW.	0	5	3	3	13	7	2	15	8	0	4	18	6	5	4	5	0	0	11	0	28	0	0
March	12.8	NW.	48	NW.	3	6	6	4	11	6	5	6	18	0	8	18	5	2	2	0	0	0	1	0	19	1	0
April	10.1	SE.	43	NW.	2	2	3	6	16	8	0	10	15	0	6	21	3	5	5	2	0	0	0	1	8	2	0
May	10.0	SE.	40	SE.	1	1	5	11	15	11	6	6	7	0	9	15	7	9	9	0	0	0	0	0	0	8	0
June	9.2	SE.	33	NE.	0	3	7	11	16	11	6	2	4	0	8	13	9	10	10	0	0	0	0	3	0	8	0
July	8.2	SE.	34	NE.	0	2	7	9	19	8	6	6	5	0	13	16	2	10	8	0	1	0	0	5	0	9	0
August	8.4	SE.	36	NE.	0	6	8	10	18	7	2	8	3	0	7	19	5	8	6	0	1	0	0	5	0	8	0
September	9.3	NW.	34	NW.	0	8	7	2	9	7	7	7	13	0	15	13	2	4	4	0	0	0	0	1	1	0	0
October	6.1	W.	24	NW.	0	7	6	6	10	5	5	16	7	0	17	10	4	6	4	0	1	1	0	0	1	1	0
November	7.7	NW.	36	NW.	0	4	7	3	8	9	9	10	10	0	9	17	4	0	0	0	0	0	0	0	24	0	0
December	8.0	W.	30	NW.	0	4	5	5	9	6	4	19	10	0	10	10	11	8	4	7	0	0	20	0	31	0	0
Year	8.8	SE.	48	NW.	6	50	67	73	150	88	58	125	119	0	124	180	61	69	58	16	3	1	42	15	141	37	0

OKLAHOMA, OKLA.

[H=1,214 ft.; h_t=79 ft.; h_r=71 ft.; h_a=86 ft.]

January	10.2	S.	36	NW.	0	13	6	5	5	14	7	4	5	3	15	10	6	5	3	3	0	2	5	0	22	0	0
February	11.1	N.	35	S.	0	17	7	6	4	14	0	2	6	0	11	9	8	2	2	1	0	3	3	0	21	0	0
March	12.6	S.	40	NW.	1	15	3	3	10	15	2	2	12	0	13	10	8	7	5	0	2	1	0	0	5	3	0
April	11.4	NE.	40	S.	1	8	14	8	8	16	2	1	3	0	12	12	6	9	8	0	1	0	0	1	0	5	0
May	10.8	S.	38	NE.	0	3	4	9	9	34	1	0	1	1	8	16	7	14	12	0	3	0	0	0	0	11	0
June	11.5	S.	34	S.	0	5	9	4	9	30	1	0	1	1	9	19	2	6	3	0	0	0	0	7	0	6	0
July	11.0	S.	38	S.	0	4	3	6	16	26	5	1	1	0	6	15	10	7	5	0	0	1	0	11	0	5	0
August	10.7	S.	36	NW.	0	3	3	7	12	29	6	0	1	1	21	9	1	5	4	0	0	0	0	27	0	6	0
September	11.8	S.	43	N.	1	8	9	5	11	16	2	2	7	0	15	5	10	8	6	0	0	0	0	1	0	4	0
October	11.8	S.	36	S.	0	10	4	2	11	26	3	1	5	0	20	6	5	3	3	0	0	0	0	0	0	0	0
November	11.7	S.	40	N.	1	18	3	4	7	17	1	3	7	0	5	8	17	9	8	0	0	4	0	0	4	3	0
December	11.2	N.	38	SW.	0	18	5	3	8	15	4	4	4	1	10	10	11	8	4	3	0	4	3	0	20	0	0
Year	11.3	S.	43	N.	4	122	70	62	110	252	84	20	53	7	145	129	91	83	63	7	6	15	11	47	72	43	0

OMAHA, NEBR.

[H=1,105 ft.; h_t=115 ft.; h_r=107 ft.; h_a=121 ft.]

January	7.8	NW.	35	N.	0	11	4	4	7	12	8	4	11	1	16	9	6	3	3	3	0	0	11	0	27	0	0
February	8.0	NW.	30	NW.	0	10	6	3	10	8	5	4	10	0	6	12	10	4	1	4	0	0	18	0	26	0	0
March	11.4	SE.	37	NW.	0	7	5	10	14	4	2	8	12	0	7	15	9	8	4	3	1	0	3	0	12	5	0
April	9.9	SE.	52	NW.	1	9	7	9	7	8	6	2	12	0	9	16	5	9	7	0	1	0	0	1	4	3	0
May	9.2	SE.	30	SW.	0	6	5	9	17	8	14	0	3	0	7	12	12	13	12	0	2	0	0	1	0	11	0
June	8.2	SE.	36	NW.	0	12	11	4	19	6	2	0	5	1	5	13	12	16	13	0	1	0	0	3	0	9	0
July	7.2	S.	46	NE.	1	9	3	4	10	17	11	3	4	1	13	11	7	13	10	0	0	0	0	4	0	16	0
August	7.0	SE.	30	N.	0	11	9	4	21	6	4	2	4	1	5	15	11	11	10	0	0	1	0	1	0	11	0
September	9.2	S.	32	N.	0	8	7	3	7	17	5	2	11	0	12	8	10	9	7	0	0	1	0	0	0	5	0
October	7.8	SW.	30	N.	0	12	4	3	8	15	8	4	8	0	14	8	9	4	4	0	0	2	0	0	1	3	0
November	9.6	N.	31	SW.	0	14	2	0	6	17	13	0	8	0	7	10	13	8	6	4	0	3	1	0	9	1	0
December	9.3	N.	31	NW.	0	13	3	4	6	13	9	1	13	0	6	9	16	11	9	8	0	1	19	0	28	0	0
Year	8.7	SE.	52	NW.	2	122	66	57	132	131	87	30	101	4	107	138	120	109	86	22	5	8	52	10	107	64	0

OSWEGO, N. Y.

[H=335 ft.; h_t=76 ft.; h_r=68 ft.; h_a=91 ft.]

January	12.9	SE.	42	NW.	1	3	3	1	17	14	8	3	13	0	1	4	26	20	11	19	0	0	21	0	31	0	0
February	14.0	SE.	52	NW.	2	5	3	2	16	4	7	5	14	0	2	5	21	14	7	18	0	4	20	0	26	0	0
March	12.3	S.	33	N.	0	9	5	2	10	13	2	11	10	0	7	5	19	14	12	5	1	1	4	0	18	0	0
April	11.1	W.	31	W.	0	3	3	4	11	11	5	19	4	0	4	13	13	11	8	2	0	0	0	0	3	3	0
May	9.5	W.	30	W.	0	6	2	2	11	6	8	22	4	1	8	10	13	15	11	0	0	3	0	0	2	5	0
June	9.5	W.	28	W.	0	2	1	0	9	13	5	26	4	0	4	14	12	18	15	0	1	2	0	0	0	8	0
July	7.7	S.	28	NW.	0	6	1	0	13	15	9	13	5	0	13	9	9	17	14	0	1	3	0	0	0	9	0
August	7.9	S.	24	W.	0	3	7	1	13	15	1	10	12	0	9	17	5	9	7	0	0	0	0	0	0	3	0
September	9.7	S.	31	S.	0	2	2	3	19	20	3	7	4	0	11	11	8	13	9	0	0	2	0	0	0	2	0
October	11.5	S.	34	S.	0	4	3	6	5	20	5	3	16	0	2	12	17	14	11	0	0	1	0	0	1	5	0
November	11.0	S.	32	NW.	0	5	2	3	12	19	5	6	8	0	5	6	19	11	10	2	0	2	0	0	9	0	0
December	13.9	SE.	35	NW.	0	9	8	0	15	11	6	5	8	0	2	6	23	19	17	15	0	1	16	0	29	0	0
Year	10.9	S.	52	NW.	3	57	40	24	151	161	64	130	102	1	68	112	185	175	132	56	3	19	61	0	119	35	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

PALESTINE, TEX.

[λ=31° 45′ N.; φ=95° 40′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.638	29.909	29.244	39.6	49.0	55.0	36.8	45.9	71	18	35	36	84	64	.220	.229	1.56	.84	5.7	4.2	5.9
February	29.455	29.931	28.613	40.7	51.3	56.0	38.7	47.4	72	26	35	37	80	60	.216	.229	1.83	1.12	6.9	5.9	6.8
March	29.437	29.908	28.946	51.6	62.9	68.7	50.0	59.4	83	32	46	49	84	66	.339	.387	3.31	1.20	4.3	4.0	5.0
April	29.435	29.756	29.200	60.1	72.7	78.2	58.3	68.2	87	43	56	60	88	65	.466	.525	2.13	.96	5.5	4.9	4.8
May	29.404	29.569	28.929	69.5	77.3	83.4	66.5	75.0	90	56	66	67	90	72	.653	.672	2.02	.90	6.9	4.8	5.6
June	29.362	29.630	28.896	73.3	87.0	91.2	70.8	81.0	97	59	68	66	84	51	.691	.638	1.57	1.21	3.3	2.6	3.3
July	29.489	29.611	29.340	74.1	80.9	88.3	71.3	79.8	94	67	71	70	90	71	.754	.728	10.03	3.77	6.2	6.5	6.6
August	29.429	29.574	29.285	75.1	88.3	92.5	73.6	83.0	96	72	72	72	89	58	.771	.773	T.	T.	2.5	1.6	2.3
September	29.435	29.807	29.210	65.5	76.1	83.3	64.1	73.7	93	48	63	67	91	74	.594	.675	5.14	1.89	4.6	4.2	5.0
October	29.515	29.760	29.226	58.6	70.2	77.2	57.2	67.2	83	45	54	58	87	66	.439	.490	3.42	1.96	3.1	2.0	3.7
November	29.490	29.683	29.087	56.9	62.6	68.4	55.0	61.7	80	36	54	55	92	77	.450	.456	7.08	2.13	6.9	6.8	7.3
December	29.587	29.907	28.967	43.4	52.0	56.9	41.5	49.2	73	26	40	41	86	69	.259	.283	1.67	.80	5.7	4.9	6.2
Year	29.473	29.931	28.613	59.0	69.2	74.9	57.0	66.0	97	18	55	56	87	66	.488	.507	39.76	3.77	5.1	4.3	5.2

PARKERSBURG, W. VA.

[λ=39° 16′ N.; φ=81° 36′ W.]

January	29.468	30.147	28.885	26.6	32.8	38.0	23.3	30.6	55	10	23	28	87	82	.124	.155	2.42	.88	6.5	6.3	6.6
February	29.323	29.777	28.384	21.9	28.7	32.7	19.5	26.1	63	4	19	24	86	83	.112	.136	1.83	1.13	7.6	6.5	7.4
March	29.344	29.757	28.756	38.2	47.2	54.1	35.2	44.6	75	12	32	37	78	69	.188	.231	3.52	1.17	6.1	6.1	6.0
April	29.310	29.644	28.940	45.8	54.5	61.2	42.2	51.7	88	30	39	43	78	68	.248	.290	2.85	1.34	5.7	5.6	5.5
May	29.377	29.666	29.174	60.5	69.7	78.5	55.6	67.0	91	38	52	58	74	68	.410	.507	3.42	2.26	4.1	5.2	4.7
June	29.291	29.655	28.744	65.5	73.0	79.7	59.9	69.8	93	49	58	60	77	66	.493	.540	4.72	1.23	5.4	5.2	5.8
July	29.381	29.602	29.216	79.6	79.4	86.5	64.8	75.6	96	56	65	66	82	65	.618	.641	1.85	.66	3.7	4.0	3.8
August	29.331	29.526	29.151	65.4	75.2	82.7	61.4	72.0	92	50	59	64	82	69	.516	.603	1.58	.73	3.1	4.2	4.8
September	29.364	29.671	28.970	59.7	69.0	76.7	55.6	66.2	89	40	54	59	83	73	.434	.516	2.03	.70	5.0	3.7	6.3
October	29.422	29.857	29.027	50.2	59.5	68.2	47.3	57.8	79	32	46	49	84	69	.317	.360	1.43	.74	3.8	3.9	5.4
November	29.417	29.751	28.756	45.8	53.2	60.7	42.6	51.6	75	29	40	43	82	71	.257	.292	2.61	1.23	6.0	5.2	7.7
December	29.438	29.805	28.718	31.9	34.6	40.5	27.8	34.2	62	13	28	28	85	78	.160	.163	4.45	1.03	8.5	7.6	9.1
Year	29.372	30.147	28.384	48.5	56.4	63.3	44.6	53.9	96	4	43	47	82	72	.323	.370	32.71	2.26	5.5	5.3	6.1

PENSACOLA, FLA.[a]

[λ=30° 25′ N.; φ=87° 13′ W.]

January	30.110	30.364	29.723	46.3	.....	59.5	43.8	51.6	70	28	39	....	77	....	.266	.....	.63	.36	3.8	.....	4.8
February	29.926	30.299	29.247	43.8	.....	57.0	41.6	49.3	72	28	37	....	78	....	.243	.....	5.74	2.51	7.1	.....	6.0
March	29.959	30.333	29.563	57.4	.....	67.1	54.9	61.0	79	36	50	....	78	....	.402	.....	8.06	5.47	5.5	.....	5.6
April	29.984	30.173	29.814	64.1	.....	72.4	60.0	66.2	80	46	55	....	75	....	.465	.....	1.55	1.38	4.4	.....	4.1
May	29.960	30.113	29.824	76.0	.....	83.3	71.2	77.2	93	65	67	....	74	....	.669	.....	1.75	.63	4.1	.....	3.8
June	29.898	30.123	29.677	79.6	.....	87.5	75.7	81.6	96	68	70	....	73	....	.741	.....	1.41	1.41	3.1	.....	3.4
July	30.007	30.158	29.906	80.9	.....	88.3	75.8	82.0	92	71	73	....	77	....	.806	.....	2.01	.80	4.3	.....	4.9
August	29.922	30.060	29.803	80.4	.....	88.4	76.9	82.6	97	72	73	....	80	....	.823	.....	3.16	1.25	4.1	.....	4.5
September	29.917	30.097	29.803	74.8	.....	83.3	72.1	77.7	91	58	69	....	82	....	.724	.....	8.04	1.70	5.8	.....	6.4
October	29.982	30.367	29.644	64.0	.....	76.0	61.9	69.0	85	49	56	....	77	....	.479	.....	2.69	1.07	5.1	.....	5.1
November	29.999	30.230	29.551	59.9	.....	71.0	57.3	64.2	77	41	54	....	80	....	.431	.....	2.91	1.54	4.8	.....	4.6
December	30.073	30.326	29.580	49.5	.....	61.5	46.0	53.8	72	24	44	....	80	....	.316	.....	3.59	1.18	5.4	.....	5.0
Year	29.978	30.367	29.247	64.7	.....	74.6	61.4	68.0	97	24	57	....	78	....	.530	.....	41.54	5.47	4.8	.....	4.8

PHILADELPHIA, PA.

[λ=39° 57′ N.; φ=75° 9′ W.]

January	29.983	30.641	29.314	27.9	31.8	38.5	24.0	31.2	54	15	22	22	77	68	.121	.125	2.77	1.06	6.4	4.9	6.0
February	29.749	30.215	29.008	26.4	30.8	35.6	23.8	29.7	60	12	21	23	78	71	.119	.136	5.49	1.62	6.3	4.4	6.0
March	29.858	30.369	29.210	42.0	46.8	54.7	37.8	46.2	74	20	35	36	76	68	.214	.225	3.97	1.23	5.7	5.1	5.4
April	29.814	30.227	29.324	48.8	53.8	60.9	44.3	52.6	85	36	39	40	69	61	.243	.256	3.29	1.46	5.8	6.2	5.3
May	29.908	30.324	29.540	58.6	64.2	72.3	52.8	62.6	90	49	47	48	67	59	.346	.364	2.01	1.14	5.6	5.6	5.0
June	29.795	30.400	29.327	66.9	71.4	79.9	60.8	70.4	94	53	55	57	68	62	.460	.475	6.08	1.97	4.8	5.9	5.1
July	29.892	30.159	29.639	72.2	76.4	84.0	67.2	75.6	95	60	64	64	75	66	.597	.603	3.51	1.39	5.8	5.6	5.9
August	29.848	30.185	29.574	68.6	73.9	81.4	64.5	73.0	89	56	60	60	75	68	.533	.530	2.84	1.17	4.8	3.7	4.9
September	29.933	30.226	29.577	64.0	67.2	74.7	59.5	67.1	88	50	57	57	80	72	.491	.482	4.97	2.08	4.7	5.6	5.8
October	29.956	30.437	29.372	53.5	58.1	65.8	50.3	58.0	77	38	46	47	76	68	.327	.339	6.66	1.86	4.5	3.8	4.4
November	29.975	30.391	29.353	47.3	51.6	58.1	43.7	50.9	74	32	42	45	84	78	.280	.305	2.04	.84	6.2	5.6	6.0
December	29.980	30.602	29.090	32.0	33.9	40.0	27.4	33.7	60	17	27	26	80	73	.152	.151	6.63	2.03	6.0	4.2	5.4
Year	29.891	30.641	29.008	50.7	55.0	62.2	46.3	54.2	95	12	43	44	75	67	.324	.333	49.76	2.08	5.6	5.0	5.4

[a] 8 a. m. observations.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

PALESTINE, TEX.

[H=510 ft.; H_t=73 ft.; h_r=68 ft.; h_a=79 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.9	N.	36	W.	0	13	12	8	5	11	3	3	7	0	12	4	15	8	6	3	0	1	1	0	9	0	0
February	9.7	S.	35	S.	0	11	7	7	2	14	5	1	9	0	6	6	16	7	6	1	0	1	0	0	7	1	0
March	10.4	N.	36	N.	0	16	7	5	12	9	4	3	6	0	13	7	11	7	5	0	1	3	0	0	0	4	0
April	9.5	S.	42	NW.	1	4	12	7	4	28	3	0	1	1	10	16	4	7	3	0	0	0	0	0	0	6	0
May	8.6	S.	48	SW.	1	4	8	8	12	24	5	0	0	1	5	19	7	8	5	0	0	0	0	0	0	6	0
June	9.3	S.	39	S.	0	0	6	3	12	26	12	0	1	0	18	10	2	3	3	0	0	0	0	20	0	1	0
July	6.8	SE.	25	SW.	0	0	7	10	18	18	5	1	1	2	2	19	10	17	16	0	0	1	0	14	0	14	0
August	5.2	SW.	11	S.	0	0	0	1	5	25	30	1	0	0	24	7	0	0	0	0	0	0	0	28	0	1	0
September	5.8	NE.	18	N.	0	9	18	5	10	10	2	2	4	0	11	10	9	13	10	0	0	3	0	3	0	7	0
October	5.7	NE.	24	NE.	0	7	13	11	12	12	3	0	3	1	17	10	4	4	4	0	0	3	0	0	0	3	0
November	7.5	SE.	27	NW.	0	1	10	9	15	12	2	2	9	0	2	13	15	14	10	0	0	2	0	0	0	4	0
December	6.8	S.	23	SW.	0	7	11	5	7	14	1	5	12	0	10	6	15	9	5	1	0	2	0	0	5	1	0
Year	7.7	S.	48	SW.	2	72	111	79	114	203	75	18	53	5	130	127	108	97	73	5	1	16	1	65	21	48	0

PARKERSBURG, W. VA.

[H=638 ft.; h_t=77 ft.; h_r=69 ft.; h_a=84 ft.]

January	7.1	S.	30	NW.	0	8	6	5	4	13	4	10	12	0	8	6	17	10	8	8	0	1	6	0	28	0	0
February	7.4	W.	31	NW.	0	10	4	4	2	6	5	12	12	1	4	6	18	13	6	8	0	0	16	0	23	0	0
March	7.8	W.	40	W.	1	7	5	9	6	10	2	12	11	0	9	8	14	14	10	4	2	0	2	0	13	3	0
April	7.5	W.	33	NW.	0	5	5	5	6	7	4	17	11	0	8	12	10	11	7	1	0	1	0	0	1	1	0
May	5.0	NW.	30	N.	0	10	5	4	9	5	9	9	10	1	14	11	6	6	5	0	0	0	0	2	0	9	0
June	5.2	S.	49	W.	1	6	3	1	12	13	9	8	8	0	9	10	11	18	12	0	0	1	0	3	0	9	0
July	4.3	SW.	28	N.	0	8	2	1	10	11	15	7	8	0	15	12	4	7	5	0	0	2	0	11	0	9	0
August	4.1	N.	27	NW.	0	20	4	5	13	5	4	7	3	1	11	15	5	6	5	0	0	1	0	3	0	6	0
September	4.0	SE.	34	NW.	0	9	1	9	15	6	5	9	2	4	6	11	13	12	9	0	0	1	0	0	0	4	0
October	5.2	S.	26	SW.	0	6	7	1	7	19	3	2	12	5	11	8	12	8	6	0	0	3	0	0	0	2	0
November	4.9	SE.	32	NW.	0	4	9	5	12	11	8	8	8	0	3	7	20	10	9	1	0	1	0	0	3	0	0
December	7.0	W.	32	NW.	0	4	5	4	6	8	11	12	11	1	1	3	27	16	12	5	0	0	8	0	21	9	0
Year	5.8	S.	49	W.	2	97	56	53	102	114	79	113	108	13	99	109	157	131	94	27	3	10	32	19	89	43	0

PENSACOLA, FLA.

[H=56 ft.; h_t=79 ft.; h_r=74 ft.; h_a=96 ft.]

January	9.9	NE.	40	NW.	1	6	9	4	2	3	0	1	6	0	12	9	10	6	3	0	0	1	0	0	2	0	0
February	11.6	NW.	52	SW.	3	5	7	2	2	0	1	4	7	0	8	6	14	9	8	0	0	1	0	0	4	4	0
March	12.0	N.	38	SE.	0	6	4	3	6	3	3	2	3	1	12	5	14	12	10	0	0	3	0	0	0	6	0
April	9.8	N.	30	SW.	0	8	5	2	1	4	7	0	2	1	14	11	5	4	4	0	0	0	0	0	0	2	0
May	9.4	SE.	34	E.	0	5	4	3	7	4	4	2	2	0	15	12	4	11	5	0	0	0	0	2	0	8	0
June	11.0	SW.	34	SW.	0	4	3	6	0	3	8	2	4	0	16	14	0	1	1	0	0	0	0	5	0	8	0
July	8.0	N.	40	E.	1	11	6	1	3	0	2	3	5	0	10	17	4	11	8	0	0	0	0	4	0	16	0
August	9.0	W.	38	SW.	0	4	1	2	2	1	5	9	7	0	12	16	3	10	7	0	0	0	0	9	0	15	0
September	9.4	NE.	37	S.	0	2	13	5	1	3	5	0	1	0	6	12	12	13	13	0	0	0	0	1	0	7	0
October	9.9	NE.	29	NW.	0	5	15	4	0	0	2	1	4	0	13	9	9	11	6	0	0	0	0	0	0	2	0
November	9.4	NE.	42	SW.	1	7	12	4	1	0	2	1	3	0	12	11	7	5	4	0	0	0	0	0	0	2	0
December	10.3	N.	45	SW.	2	7	7	4	1	3	0	3	5	1	11	11	9	9	8	0	0	1	0	0	2	3	0
Year	10.0	NE.	52	SW.	8	70	86	40	26	24	39	28	49	3	141	133	91	102	77	0	0	6	0	21	8	73	0

PHILADELPHIA, PA.

[H=117 ft.; h_t=168 ft.; h_r=166 ft.; h_a=184 ft.]

January	11.4	NW.	40	E.	1	10	8	3	3	6	9	6	17	0	9	6	16	10	10	4	0	2	6	0	28	0	0
February	13.9	NW.	40	SE.	1	5	10	1	3	3	2	8	24	0	9	7	12	10	8	5	0	1	9	0	24	1	0
March	13.0	NW.	42	NW.	1	6	6	2	5	11	5	2	25	0	11	11	9	13	12	2	0	0	0	0	6	3	0
April	11.6	NW.	44	S.	2	3	3	4	10	11	5	8	16	0	12	8	10	10	7	0	0	0	0	0	0	1	0
May	10.6	SW.	28	NW.	0	7	8	5	6	6	16	7	7	0	13	7	11	6	5	0	0	0	0	0	0	3	0
June	10.8	SW.	36	N.	0	6	2	7	2	14	11	7	11	0	12	10	8	12	10	0	0	0	0	0	2	8	0
July	9.7	SW.	29	SW.	0	6	8	5	5	9	14	10	5	0	8	10	13	13	8	0	0	0	0	0	3	13	0
August	8.7	S.	31	NW.	0	11	3	5	2	14	9	11	7	0	11	15	5	8	4	0	0	2	0	0	0	9	0
September	9.2	NE.	32	S.	0	5	14	5	12	6	6	6	6	0	10	7	13	13	12	0	0	1	0	0	0	0	0
October	10.8	NW.	38	NE.	0	11	8	6	4	7	8	6	12	0	16	6	9	8	8	0	0	0	0	0	0	1	0
November	10.4	SW.	32	NW.	0	9	15	1	6	3	12	7	6	1	8	9	13	9	8	0	0	3	0	0	0	0	0
December	12.0	NW.	52	N.	1	8	10	4	1	3	10	10	16	0	11	7	13	16	15	5	0	0	7	0	22	0	0
Year	11.0	NW.	52	N.	6	87	95	48	59	93	107	88	152	1	130	103	132	128	107	16	0	9	22	5	80	39	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

PHOENIX, ARIZ.

[λ=33° 28′ N.; φ=112° 00′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	28.857	29.095	28.545	40.9	61.7	67.0	38.0	52.5	81	30	26	28	56	31	.139	.153	.79	.64	2.9	4.1	4.1
February	28.830	29.001	28.545	44.0	67.7	71.1	41.6	56.4	81	31	30	27	59	22	.167	.145	.10	.10	1.7	3.5	3.6
March	28.771	29.175	28.515	45.4	67.5	71.0	43.8	57.4	83	36	28	24	51	22	.151	.134	.46	.44	2.6	4.2	4.1
April	28.700	28.905	28.399	54.6	83.5	85.9	53.6	69.8	95	45	28	25	36	12	.151	.135	T.	T.	2.1	2.2	2.2
May	28.627	28.775	28.192	60.8	87.9	90.4	60.0	75.2	102	48	30	30	33	13	.169	.166	T.	T.	2.5	2.5	2.7
June	28.566	28.746	28.356	70.6	101.3	103.4	69.5	86.4	116	55	30	31	24	9	.181	.175	.12	.12	.9	.7	.8
July	28.651	28.786	28.417	75.4	100.8	103.0	74.2	88.6	111	65	48	44	40	15	.362	.298	.32	.27	1.6	1.2	1.2
August	28.670	28.902	28.503	78.0	99.1	102.3	76.8	89.6	113	69	56	51	50	22	.472	.392	.56	.34	3.7	4.0	3.6
September	28.668	28.827	28.439	71.6	93.5	97.7	69.4	83.6	109	54	53	49	55	24	.434	.367	1.46	.52	2.4	2.1	2.5
October	28.742	28.926	28.444	60.2	84.3	89.6	58.3	74.0	98	49	37	39	43	21	.224	.242	T.	T.	1.5	2.2	2.0
November	28.776	28.980	28.475	47.6	63.7	70.7	45.4	58.0	84	34	37	38	69	43	.225	.235	2.01	1.21	2.1	3.2	2.9
December	28.870	29.078	28.535	41.9	58.4	64.2	39.5	51.8	78	32	34	36	74	45	.200	.222	1.06	1.04	1.9	3.6	3.7
Year	28.727	29.175	28.192	57.6	80.8	84.7	55.8	70.3	116	30	36	35	49	23	.240	.222	6.88	1.21	2.2	2.8	2.8

PIERRE, S. DAK.

[λ=44° 22′ N.; φ=100° 21′ W.]

January	28.479	28.941	27.944	16.2	25.6	33.2	13.2	23.2	60	−16	10	14	75	60	.080	.094	.37	.31	2.8	3.5	4.0
February	28.342	28.861	27.498	13.9	21.2	26.8	10.9	18.8	62	−22	8	14	76	74	.075	.097	.83	.32	5.6	6.4	7.2
March	28.195	28.850	27.566	29.3	38.2	43.1	26.9	35.0	70	− 4	23	26	76	62	.132	.149	1.38	.42	5.5	6.4	6.6
April	28.293	28.684	27.781	36.7	54.4	58.1	35.1	46.6	86	19	28	30	71	40	.155	.171	1.47	.98	4.4	4.9	4.9
May	28.201	28.711	27.493	54.6	70.6	75.2	51.7	63.4	89	39	46	46	74	43	.324	.318	.81	.31	5.7	5.1	5.4
June	28.244	28.622	27.795	58.0	71.6	75.4	55.1	65.2	100	38	49	49	74	48	.361	.363	5.60	1.17	6.5	5.9	6.0
July	28.243	28.672	27.871	65.7	83.1	87.2	62.9	75.0	108	54	57	52	74	37	.468	.398	1.18	.36	4.3	4.2	3.6
August	28.287	28.522	27.926	62.3	76.2	80.8	60.5	70.6	93	44	56	57	82	55	.464	.476	4.82	1.33	5.8	4.5	5.5
September	28.282	28.706	27.803	47.7	67.0	74.0	46.8	60.4	96	31	39	39	72	38	.242	.248	.70	.47	3.6	2.7	3.1
October	28.328	28.650	28.003	38.3	56.8	65.7	36.8	51.2	92	25	33	36	82	48	.193	.216	.50	.28	3.8	2.6	3.6
November	28.278	28.674	27.881	28.2	37.1	46.2	25.9	36.0	64	12	21	23	73	56	.111	.122	.17	.15	4.3	3.1	5.2
December	28.405	29.015	27.886	11.9	16.3	22.2	8.7	15.4	44	−14	7	10	79	75	.062	.070	2.21	1.20	4.6	3.9	5.7
Year	28.298	29.015	27.493	38.6	51.5	57.3	36.2	46.7	108	−22	31	33	76	53	.222	.227	20.04	1.33	4.7	4.4	5.1

PITTSBURG, PA.

[λ=40° 32′ N.; φ=80° 02′ W.]

January	29.179	29.885	28.582	26.7	31.6	36.8	24.0	30.4	52	8	21	24	77	74	.111	.138	1.49	.37	6.8	5.7	7.3
February	29.015	29.500	28.195	22.3	28.7	33.5	19.9	26.7	64	2	18	21	82	71	.111	.122	1.45	.48	7.1	4.6	6.6
March	29.070	29.433	28.418	38.6	46.6	53.0	35.4	44.2	74	12	31	33	74	62	.184	.202	4.15	1.50	6.3	6.9	6.1
April	29.033	29.371	28.597	46.4	52.4	58.6	42.4	50.5	86	29	37	36	70	57	.226	.220	2.70	1.27	6.5	5.7	6.2
May	29.126	29.423	28.880	58.5	68.4	75.2	53.8	64.5	91	37	49	50	71	53	.366	.381	2.30	.59	3.7	4.2	4.9
June	29.035	29.449	28.518	64.9	71.5	77.4	59.5	68.4	90	49	55	56	70	59	.442	.457	5.79	1.12	4.9	6.0	5.5
July	29.132	29.376	28.912	71.3	78.0	84.1	66.6	75.4	93	56	64	64	77	63	.593	.600	2.94	.66	4.1	4.6	4.2
August	29.095	29.312	28.867	64.9	74.0	80.4	61.5	71.0	90	51	59	59	81	60	.502	.506	1.61	.59	4.0	4.5	4.2
September	29.128	29.402	28.695	60.5	68.9	75.2	57.2	66.2	86	44	53	54	78	61	.416	.434	2.21	.52	4.7	3.6	4.6
October	29.166	29.608	28.767	52.1	58.9	65.7	49.4	57.6	76	37	46	47	78	66	.314	.334	2.79	1.14	5.3	2.9	5.0
November	29.167	29.547	28.503	47.7	52.9	59.2	43.2	51.2	73	24	40	44	76	71	.265	.296	1.08	.30	6.2	4.6	7.2
December	29.171	29.633	28.514	30.6	32.8	38.5	25.9	32.2	60	11	25	26	79	74	.145	.145	3.71	.69	7.8	6.4	8.1
Year	29.110	29.885	28.195	48.7	55.4	61.5	44.9	53.2	91	2	42	43	76	64	.306	.320	32.22	1.50	5.6	5.0	5.8

POCATELLO, IDAHO.

[λ=42° 52′ N.; φ=112° 29′ W.]

January	25.569	25.869	24.939	18.2	28.4	34.2	14.8	24.5	54	−19	14	22	83	77	.091	.125	.86	.62	3.1	5.4	5.7
February	25.431	25.706	24.890	31.2	37.8	42.2	28.0	35.1	54	−11	27	31	85	78	.158	.180	2.07	.75	6.9	8.5	8.4
March	25.376	25.856	25.002	30.1	38.4	41.6	27.5	34.6	54	14	25	26	80	62	.133	.142	.82	.22	5.6	6.5	5.8
April	25.396	25.663	24.935	38.0	51.3	54.9	35.1	45.0	73	24	28	28	69	44	.156	.155	2.44	.67	5.6	6.0	5.5
May	25.361	25.617	24.972	45.2	63.7	67.3	43.0	55.2	85	29	35	32	68	35	.208	.187	1.67	.65	4.6	5.4	4.6
June	25.399	25.607	25.140	51.7	75.2	77.5	48.7	63.1	94	37	36	38	57	28	.218	.234	.60	.32	2.5	4.8	3.5
July	25.467	25.718	25.084	54.4	76.5	82.0	52.0	67.0	95	38	38	41	56	30	.235	.264	.34	.15	1.9	3.1	2.7
August	25.480	25.644	25.264	54.8	81.9	84.6	52.5	68.6	95	38	35	37	48	21	.207	.227	.17	.13	1.5	2.7	2.4
September	25.493	25.727	25.169	47.7	71.4	74.4	45.0	59.7	91	28	29	29	50	22	.157	.163	.21	.17	1.9	3.2	2.7
October	25.519	25.698	25.212	41.2	58.4	64.0	37.5	50.8	78	21	27	27	57	33	.143	.148	.14	.06	3.1	2.8	3.1
November	25.450	25.822	25.064	32.4	38.6	43.7	28.3	36.0	64	12	24	25	71	59	.130	.128	1.14	.59	5.0	6.0	5.6
December	25.516	25.752	25.189	27.3	32.6	37.2	22.5	29.8	53	7	21	24	76	71	.114	.130	.98	.28	4.5	5.3	5.7
Year	25.455	25.869	24.890	39.4	54.7	58.6	36.2	47.4	95	−19	28	30	67	47	.162	.174	11.44	.75	3.8	5.0	4.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

PHOENIX, ARIZ.

[H=1,108 ft.; h_t=50 ft.; h_r=40 ft.; h_a=56 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	3.5	E.	24	SW.	0	1	2	23	5	1	5	14	7	4	16	5	10	5	3	0	1	1	0	0	5	0	0
February	4.4	E.	32	W.	0	0	2	16	8	0	3	15	10	2	16	4	8	1	1	0	0	0	0	0	1	0	0
March	5.0	E.	26	W.	0	2	3	19	5	0	14	14	4	1	14	11	6	4	2	0	0	0	0	0	0	0	0
April	4.9	E.	24	SW.	0	2	3	19	6	0	7	10	13	0	21	6	3	0	0	0	0	0	0	4	0	0	0
May	5.0	E.	24	SW.	0	1	1	22	6	1	5	18	8	0	19	10	2	0	0	0	0	0	0	18	0	0	0
June	4.8	E.	19	S.	0	2	2	18	10	0	1	13	14	0	28	2	0	1	1	0	0	0	0	29	0	1	0
July	5.2	W.	34	E.	0	4	3	10	14	2	2	19	8	0	26	4	1	4	3	0	0	0	0	31	0	5	0
August	4.5	SE.	36	SE.	0	5	2	12	14	4	4	13	7	1	15	13	3	6	5	0	0	0	0	31	0	5	0
September	4.0	E.	32	W.	0	3	4	14	10	3	6	10	6	4	19	10	1	7	6	0	0	0	0	27	0	6	0
October	3.6	E.	15	SE.	0	2	5	22	5	3	4	12	9	0	22	9	0	0	0	0	0	0	0	14	0	0	0
November	3.8	E.	17	W.	0	4	7	19	6	1	3	9	11	0	19	9	2	5	4	0	0	0	0	0	0	0	0
December	3.1	W.	29	N.	0	3	7	11	11	2	3	17	7	1	18	9	4	2	1	0	0	0	0	0	1	0	0
Year	4.3	E.	36	SE.	0	29	41	205	100	17	57	164	104	18	233	92	40	35	26	0	1	1	0	154	7	17	0

PIERRE, S. DAK.

[H=1,572 ft.; h_t=43 ft.; h_r=37 ft.; h_a=50 ft.]

January	6.1	N.	31	N.	0	19	3	4	12	4	4	4	12	0	16	7	8	5	1	5	0	0	11	0	30	0	0
February	7.3	E.	42	N.	1	12	2	12	9	2	6	2	9	2	5	5	18	9	3	9	0	0	18	0	27	0	0
March	10.8	N.	46	NW.	2	14	4	14	8	4	4	3	11	0	6	10	15	11	10	7	1	0	5	0	22	0	0
April	9.8	SE.	42	NW.	1	11	6	8	14	3	8	3	7	0	11	14	5	6	5	2	0	0	0	0	10	4	0
May	9.3	E.	43	SW.	2	10	6	12	11	7	8	3	5	0	12	6	13	8	4	0	0	0	0	0	0	5	0
June	8.7	SE.	67	NW.	2	4	8	11	17	7	6	0	7	0	5	18	12	15	13	0	0	0	0	2	0	12	0
July	7.4	SE.	42	W.	1	12	5	5	21	3	5	7	4	0	20	7	4	12	9	0	1	0	0	11	0	12	0
August	8.3	SE.	40	N.	1	8	7	9	19	8	2	5	4	0	10	11	10	16	14	0	1	0	0	4	0	14	0
September	8.8	SE.	37	NW.	0	10	3	8	18	3	6	3	12	2	19	7	4	4	2	0	0	0	0	1	1	1	0
October	5.6	NW.	30	S.	0	11	2	13	7	3	6	5	14	1	19	6	6	2	2	0	0	0	0	0	9	0	0
November	7.0	E.	30	NW.	0	12	4	14	8	4	4	4	10	0	12	7	11	2	1	2	0	0	1	0	24	0	0
December	7.7	E.	36	SE.	0	14	1	16	13	1	2	5	10	0	9	10	12	8	6	8	0	0	27	0	31	0	0
Year	8.1	SE.	67	NW.	10	137	51	121	157	49	61	44	105	5	144	103	118	98	70	33	3	0	62	18	154	48	0

PITTSBURG, PA.

[H=842 ft.; h_t=116 ft.; h_r=101 ft.; h_a=123 ft.]

January	6.7	NW.	27	NW.	0	8	5	0	7	8	12	5	17	0	5	10	16	11	7	8	0	0	7	0	25	0	0
February	7.7	NW.	31	NW.	0	7	4	1	7	5	3	1	28	0	5	10	13	16	8	12	0	0	14	0	22	0	0
March	7.3	NW.	36	SW.	0	6	10	0	12	7	9	5	13	0	9	9	13	12	10	3	0	0	2	0	12	2	0
April	7.3	NW.	33	NW.	0	9	9	2	5	8	6	8	13	0	7	13	10	12	7	2	0	0	0	0	3	3	0
May	5.1	NE.	23	NW.	0	10	14	6	6	2	7	7	10	0	9	17	5	10	7	0	1	0	0	1	0	8	0
June	5.8	NW.	24	S.	0	6	7	0	7	3	13	9	15	0	7	16	7	13	13	0	0	0	0	0	0	6	0
July	5.2	NW.	22	NW.	0	6	7	1	4	4	10	15	15	0	13	15	3	16	13	0	0	0	0	5	0	11	0
August	4.4	N.	26	NW.	0	11	15	2	5	4	7	8	10	0	14	12	5	9	7	0	0	0	0	0	0	5	0
September	5.1	NW.	22	NW.	0	3	7	2	12	10	11	1	14	0	13	7	10	11	10	0	0	0	0	0	0	2	0
October	5.9	NW.	26	W.	0	6	8	1	7	5	11	10	14	0	10	14	7	10	6	0	0	1	0	0	0	0	0
November	5.4	NW.	20	SW.	0	2	4	1	16	3	13	11	10	0	5	8	17	12	7	2	0	0	0	0	4	0	0
December	7.4	NW.	23	NW.	0	2	5	1	13	1	10	4	26	0	3	7	21	16	13	9	0	0	8	0	22	0	0
Year	6.1	NW.	36	SW.	0	76	95	17	101	60	112	84	185	0	100	138	127	148	108	36	1	4	31	6	88	37	0

POCATELLO, IDAHO.

[H=4,482 ft.; h_t=46 ft.; h_r=37 ft.; h_a=54 ft.]

January	6.9	SE.	30	SE.	0	1	2	1	21	3	5	15	14	0	11	7	13	6	3	5	0	0	10	0	29	0	0
February	10.3	SE.	36	S.	0	4	0	1	29	5	8	4	5	0	2	4	22	12	10	5	0	0	3	0	15	0	0
March	11.0	SE.	29	S.	0	2	1	2	21	6	17	11	1	1	5	20	6	11	6	11	0	0	2	0	27	0	0
April	8.6	SE.	33	SW.	0	1	1	2	15	7	19	11	4	0	5	18	7	11	8	5	0	0	0	0	9	0	0
May	8.5	SE.	41	SW.	1	1	0	0	22	14	10	11	8	1	11	15	5	12	7	2	0	0	0	0	1	2	0
June	8.6	SE.	35	W.	0	2	0	2	17	6	11	18	3	1	14	15	1	3	3	0	0	0	0	3	0	1	0
July	8.3	SE.	34	SW.	0	3	1	3	22	3	8	18	4	0	18	11	2	6	3	0	0	0	0	8	0	3	0
August	7.9	SE.	34	W.	0	1	1	1	22	4	8	21	2	2	20	10	1	3	1	0	0	0	0	6	0	5	0
September	9.6	SE.	35	W.	0	5	1	6	17	4	5	17	6	0	15	14	1	3	1	1	0	0	0	0	3	0	0
October	6.6	SE.	24	S.	0	2	0	5	20	5	8	16	4	2	16	14	1	4	2	0	0	0	0	0	5	0	0
November	10.6	SE.	36	SE.	0	2	0	6	19	9	14	7	2	1	7	14	9	9	5	7	0	0	2	0	21	0	0
December	10.2	E.	38	SW.	0	0	0	0	23	15	6	12	4	2	0	7	14	10	8	7	5	0	0	11	0	25	0	0
Year	8.9	SE.	41	SW.	1	24	7	51	240	72	125	153	50	8	131	156	78	88	56	41	0	0	28	17	135	11	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

POINT REYES LIGHT, CALIFORNIA.[a]

[λ=38° 11′ N.; φ=122° 51′ W.]

Month.	Pressure.			Temperature.							Moisture.									Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.					
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.		8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*				
January	.....	.....	.....	.....	49.2	55.0	43.0	49.0	61	36	....	43	....	81	.....	.282	1.87	.64	.....	3.5	4.8	
February	.....	.....	.....	.....	51.6	58.9	47.8	50.8	59	42	....	49	....	91	.....	.346	6.84	2.06	.....	5.7	7.8	
March	29.478	29.852	28.735	.....	50.7	54.7	44.5	49.6	64	37	....	44	....	80	.....	.293	2.15	1.14	.....	3.9	3.6	
April	29.516	29.738	29.115	.....	52.7	56.8	46.8	51.8	70	44	....	47	....	81	.....	.320	2.00	.79	.....	3.9	5.4	
May	29.458	29.590	29.204	.....	53.8	56.6	48.0	52.3	62	41	....	48	....	81	.....	.337	1.28	.75	.....	3.5	5.0	
June	29.361	29.660	29.137	.....	54.9	56.6	48.0	52.3	65	46	....	49	....	80	.....	.345	.00	.00	.....	.7	2.5	
July	29.413	29.516	29.208	.....	56.3	58.2	49.9	54.0	66	47	....	51	....	82	.....	.372	.00	.00	.....	1.3	4.1	
August	29.416	29.561	29.236	.....	59.2	61.9	53.2	57.6	70	50	....	54	....	84	.....	.417	T.	T.	.....	3.6	6.7	
September	29.376	29.457	29.212	.....	58.9	63.6	54.3	59.0	78	50	....	52	....	80	.....	.388	.00	.00	.....	4.6	6.7	
October	29.436	29.686	29.068	.....	56.8	60.7	52.2	56.4	70	48	....	53	....	86	.....	.399	3.68	2.04	.....	3.8	5.7	
November	29.487	29.695	29.059	.....	53.9	57.2	49.9	53.6	63	44	....	48	....	82	.....	.337	2.88	1.33	.....	4.5	5.7	
December	29.540	29.689	29.251	.....	51.6	55.0	47.3	51.2	59	40	....	45	....	78	.....	.300	2.48	1.13	.....	4.5	5.9	
Year	.....	.....	.....	.....	54.1	57.5	48.7	53.1	78	36	....	49	....	82	.....	.345	23.18	2.06	.....	3.6	5.3	

PORT CRESCENT, WASH.[a]

[λ=48° 08′ N.; φ=123° 41′ W.]

January	29.847	30.176	29.291	.....	40.0	42.8	32.1	37.4	58	12	....	38	....	92	.....	.232	5.57	1.29	.....	6.7	7.4	
February	29.471	29.803	28.666	.....	44.7	46.9	35.5	41.2	54	26	....	42	....	91	.....	.271	10.50	3.70	.....	8.3	8.7	
March	29.669	30.160	29.161	.....	44.6	47.1	35.0	41.0	55	26	....	40	....	85	.....	.251	4.06	1.10	.....	7.2	7.4	
April	29.710	30.176	29.245	.....	48.1	51.3	36.2	43.8	59	30	....	44	....	86	.....	.287	2.28	.61	.....	7.7	6.9	
May	29.706	29.852	29.427	.....	54.8	57.6	43.7	50.6	76	35	....	50	....	84	.....	.357	2.19	.41	.....	6.8	6.9	
June	29.776	29.933	29.483	.....	57.8	61.0	45.0	53.0	78	35	....	52	....	82	.....	.387	.67	.17	.....	5.3	5.3	
July	29.814	30.100	29.455	.....	61.2	64.6	47.4	56.0	86	38	....	55	....	80	.....	.432	.79	.30	.....	4.4	4.8	
August	29.818	30.004	29.560	.....	62.7	66.7	46.8	56.8	90	38	....	58	....	84	.....	.477	.57	.25	.....	3.0	3.1	
September	29.810	30.052	29.439	.....	58.6	62.5	42.7	52.6	78	32	....	54	....	85	.....	.418	2.28	1.07	.....	3.0	4.2	
October	29.720	29.988	29.329	.....	54.4	57.5	42.3	49.9	71	33	....	51	....	90	.....	.379	1.90	.40	.....	3.5	5.8	
November	29.589	30.070	29.121	.....	44.2	48.0	37.0	42.5	53	29	....	42	....	92	.....	.268	8.90	1.86	.....	8.3	8.1	
December	29.650	30.120	29.077	.....	40.2	43.7	33.2	38.4	56	27	....	38	....	90	.....	.226	12.99	3.36	.....	8.2	8.7	
Year	29.715	30.176	28.666	.....	50.9	54.1	39.7	46.9	90	12	....	47	....	87	.....	.332	52.70	3.70	.....	6.2	6.4	

PORT HURON, MICH.

[λ=43° 00′ N.; φ=82° 26′ W.]

January	29.403	30.146	28.933	19.9	24.0	29.1	16.0	22.6	39	− 3	16	19	84	81	.093	.107	.52	.12	6.6	7.0	6.4	
February	29.258	29.751	28.805	17.2	22.3	28.4	13.9	21.2	57	− 4	15	18	89	81	.091	.101	.76	.46	5.6	4.9	5.4	
March	29.293	29.712	28.506	33.8	37.3	43.5	29.1	36.3	68	9	28	32	80	80	.166	.190	2.05	.82	6.2	4.8	6.0	
April	29.245	29.595	28.556	41.9	45.6	53.5	36.1	44.8	80	27	34	36	75	71	.202	.216	1.25	.76	6.0	5.3	6.6	
May	29.356	29.669	29.018	52.4	56.3	64.6	45.2	54.9	85	33	44	46	74	71	.304	.343	4.53	1.63	5.8	4.7	5.5	
June	29.244	29.590	28.682	58.4	61.7	69.8	51.1	60.4	83	41	52	54	80	77	.397	.432	5.30	.94	6.7	5.9	6.7	
July	29.324	29.566	29.065	68.7	71.1	80.6	61.3	71.0	90	46	63	64	83	78	.590	.593	5.29	1.29	4.7	5.9	5.3	
August	29.330	29.560	28.963	62.8	66.7	73.5	55.7	64.6	84	48	56	58	79	73	.456	.479	4.05	2.00	4.4	3.6	3.6	
September	29.321	29.598	28.938	56.9	60.5	68.7	51.9	60.3	81	37	53	54	88	80	.412	.423	6.27	1.61	6.0	5.0	6.5	
October	29.358	29.812	28.767	46.7	50.1	59.1	41.1	50.1	75	31	41	43	83	78	.269	.289	2.57	1.22	6.9	5.3	5.7	
November	29.345	29.693	28.846	42.6	45.3	52.4	38.5	45.4	68	19	38	39	84	79	.240	.260	1.75	.52	8.1	5.3	6.3	
December	29.367	29.915	28.698	24.6	26.1	31.3	20.5	25.9	47	5	21	22	84	84	.116	.122	1.43	.35	7.3	7.6	7.9	
Year	29.320	30.146	28.305	43.8	47.2	54.5	38.4	46.5	90	− 4	38	40	82	78	.278	.295	35.77	2.00	6.2	5.4	6.0	

PORTLAND, ME.

[λ=43° 39′ N.; φ=70° 15′ W.]

January	29.893	30.490	28.904	18.4	23.5	29.7	14.6	22.2	46	4	13	13	78	64	.088	.084	2.73	1.00	5.0	3.1	5.3	
February	29.634	30.213	28.533	21.9	27.1	32.1	19.0	25.6	55	6	16	20	75	72	.096	.112	3.34	1.91	5.1	3.7	5.2	
March	29.785	30.422	28.877	36.4	39.1	46.3	32.9	39.6	67	21	30	32	77	78	.174	.191	3.76	2.12	6.8	6.2	6.6	
April	29.764	30.156	29.114	42.6	44.1	51.1	37.3	44.2	69	31	34	36	74	75	.200	.214	3.97	1.19	5.7	5.2	5.4	
May	29.818	30.311	29.351	52.2	52.5	60.9	44.3	52.6	89	30	39	42	63	69	.257	.280	2.17	.70	4.9	4.5	5.0	
June	29.706	30.324	29.232	59.3	59.7	67.7	51.2	59.4	88	44	49	50	71	72	.362	.362	3.78	1.15	4.3	5.5	5.5	
July	29.848	30.172	29.543	65.0	65.1	72.9	58.0	65.4	90	51	56	56	74	75	.457	.458	2.21	.85	6.0	4.0	5.0	
August	29.798	30.168	29.460	62.9	63.2	70.6	56.5	63.6	79	50	54	54	74	75	.428	.436	4.36	1.83	5.4	3.5	5.4	
September	29.959	30.291	29.608	57.4	59.2	65.1	52.8	59.0	82	42	52	52	84	80	.399	.404	4.08	2.20	5.6	3.9	6.1	
October	29.897	30.457	29.205	47.0	50.2	56.7	41.8	49.2	72	29	39	40	74	70	.258	.267	4.95	1.68	5.6	5.2	5.6	
November	29.987	30.347	29.160	37.1	41.5	47.5	33.5	40.5	58	26	33	35	84	78	.192	.216	.86	.25	5.2	5.2	6.8	
December	29.913	30.604	29.313	20.0	23.9	30.9	16.8	23.4	51	− 14	14	16	77	71	.094	.102	6.54	1.73	5.3	4.5	5.5	
Year	29.829	30.604	28.533	43.4	45.8	52.6	38.1	45.4	90	− 14	36	37	75	73	.250	.260	47.75	2.20	5.4	4.5	5.6	

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

POINT REYES LIGHT, CALIFORNIA.

[H=490 ft.; h_t=7 ft.; h_r=2 ft.; h_a=50 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurora.
	Miles.		*Mi.*																								
January	12.8	NW.	72	NW.	6	10	3	0	4	0	2	0	12	0	14	8	9	12	9	0	0	6	0	0	0	1	0
February	24.1	SE.	98	SE.	16	0	0	0	11	6	4	1	6	0	5	4	19	19	18	0	0	14	0	0	0	2	0
March	28.6	NW.	108	SW.	23	3	0	0	1	2	5	0	20	0	19	2	10	11	9	0	0	0	0	0	0	0	0
April	24.3	NW.	84	S.	17	1	0	0	1	5	3	0	20	0	11	6	13	8	6	0	0	8	0	0	0	0	0
May	28.3	NW.	110	NW.	17	1	0	0	0	3	3	1	23	0	14	4	13	7	5	0	0	8	0	0	0	0	0
June	34.8	NW.	80	NW.	23	0	0	0	2	0	0	0	28	0	22	5	3	0	0	0	0	10	0	0	0	0	0
July	28.3	NW.	90	NW.	21	4	0	0	3	2	3	1	18	0	18	3	10	0	0	0	0	13	0	0	0	0	0
August	16.8	NW.	56	NW.	8	2	0	0	1	4	7	3	14	0	9	4	18	0	0	0	0	19	0	0	0	0	0
September	15.3	NW.	69	NW.	7	3	1	0	1	1	4	2	18	0	10	1	19	0	0	0	0	13	0	0	0	0	0
October	18.2	NW.	65	SE.	10	1	2	0	6	1	6	2	13	0	10	8	13	8	7	0	0	11	0	0	0	1	0
November	20.5	NW.	82	SE.	14	0	2	0	3	2	2	2	18	1	10	7	13	11	8	0	0	9	0	0	0	0	0
December	16.4	SE.	58	NW.	5	4	2	1	8	3	5	1	7	0	10	5	16	11	9	0	0	8	0	0	0	0	0
Year	22.4	NW.	110	NW.	167	29	10	1	41	29	44	13	197	1	152	57	156	87	71	0	0	119	0	0	0	4	0

PORT CRESCENT, WASH.

[H=259 ft.; h_t=13 ft.; h_r=2 ft.; h_a=20 ft.]

January	3.2	E.	36	SW.	0	0	2	17	0	0	9	2	0	1	2	13	16	14	13	4	0	0	2	0	15	0	0
February	3.0	SW.	16	SW.	0	0	0	11	2	0	13	2	0	0	1	7	20	20	19	1	0	0	0	0	5	0	0
March	4.2	W.	28	W.	0	0	0	11	0	0	9	11	0	0	3	11	17	22	18	0	0	0	0	0	7	0	0
April	4.5	W.	30	SW.	0	0	0	9	1	0	8	12	0	0	0	22	8	20	18	1	0	0	0	0	4	0	0
May	4.8	W.	20	W.	0	0	0	7	1	0	7	15	1	0	2	16	13	15	13	0	0	1	0	0	0	0	0
June	4.9	W.	22	W.	0	0	0	4	1	0	4	21	0	0	4	19	7	10	7	0	0	1	0	0	0	0	0
July	5.3	W.	30	SW.	0	0	0	4	0	0	2	24	1	0	14	11	6	5	5	0	0	0	0	0	0	0	0
August	4.7	W.	22	W.	0	0	0	3	1	0	0	25	2	0	19	7	5	4	3	0	0	2	0	1	0	0	0
September	4.3	W.	16	W.	0	0	0	11	0	0	1	16	2	0	18	3	9	8	8	0	0	2	0	0	1	0	0
October	3.2	E.	16	W.	0	0	0	14	3	0	7	7	0	0	10	5	13	11	9	0	0	2	0	0	0	0	0
November	3.9	SW.	24	SW.	0	0	0	10	4	0	14	2	0	0	1	9	20	22	21	1	0	0	0	0	2	0	0
December	3.7	SW.	20	SW.	0	0	0	5	11	0	13	2	0	0	1	6	24	23	23	1	0	0	0	0	11	0	0
Year	4.1	W.	36	SW.	0	0	2	106	24	0	87	139	6	1	75	129	161	174	152	8	0	8	2	1	45	0	0

PORT HURON, MICH.

[H=638 ft.; h_t=70 ft.; h_r= 63 ft.; h_a=120 ft.]

January	13.7	NW.	41	NW.	5	5	4	2	2	6	19	6	18	0	4	14	13	9	5	9	0	2	20	0	31	0	0
February	12.2	NW.	43	SW.	1	14	3	1	4	8	6	13	7	0	11	8	9	10	4	9	0	0	21	0	26	0	0
March	13.8	N.	45	W.	2	13	5	2	11	5	13	4	9	0	10	8	13	14	8	1	0	1	6	0	17	0	0
April	13.2	SW.	49	SW.	4	5	9	3	5	7	9	10	12	0	7	8	15	11	7	2	0	0	0	0	8	2	0
May	11.1	NE.	41	W.	1	9	11	6	7	5	10	5	9	0	7	15	9	12	12	0	0	0	0	0	0	9	0
June	11.0	N.	35	NW.	0	16	5	2	4	9	9	9	6	0	4	12	14	18	12	0	0	2	0	0	0	5	0
July	8.4	SW.	60	SW.	1	6	7	3	6	7	20	7	6	0	8	14	9	18	15	0	0	1	0	0	0	11	0
August	8.6	NE.	25	NW.	0	15	15	3	4	6	7	5	7	0	18	9	4	6	4	0	0	0	0	0	0	3	0
September	10.2	S.	35	NW.	0	5	7	4	9	12	8	6	9	0	6	10	14	13	11	0	0	3	0	0	0	2	0
October	12.2	SW.	40	W.	1	3	8	6	2	9	13	8	13	0	12	3	16	9	7	0	0	1	0	0	1	4	0
November	12.4	SW.	38	W.	0	1	8	2	5	12	16	5	11	0	8	3	14	12	8	2	0	0	0	0	6	0	0
December	14.6	SW.	40	NE.	1	3	4	8	5	4	19	7	12	0	5	5	21	12	9	8	0	0	15	0	28	0	0
Year	11.8	SW.	60	SW.	16	95	86	42	64	90	149	85	119	0	100	114	151	144	102	31	0	10	62	0	117	36	0

PORTLAND, ME.

[H=103 ft.; h_t=81 ft.; h_r=75 ft.; h_a=117 ft.]

January	9.4	NW.	37	NW.	0	8	3	2	1	2	8	15	23	0	11	11	9	8	4	7	0	3	19	0	29	0	0
February	10.6	NW.	40	W.	1	10	3	2	2	1	7	14	17	0	11	8	9	7	5	6	0	2	13	0	25	1	0
March	11.6	N.	44	S.	2	21	4	2	4	17	4	2	8	0	8	7	16	17	15	4	1	3	0	0	13	0	0
April	10.3	S.	42	NE.	1	7	7	1	7	12	6	10	10	0	11	8	11	8	6	1	0	3	0	0	1	1	0
May	9.5	S.	40	W.	1	6	6	2	3	14	14	6	11	0	15	4	12	11	9	0	0	4	0	0	1	2	0
June	8.7	SW.	36	NW.	0	4	3	3	5	10	17	10	8	0	11	8	11	17	13	0	0	4	0	0	0	3	0
July	7.5	SW.	28	S.	0	4	5	3	6	17	12	6	9	0	9	14	8	7	6	0	0	4	0	0	1	2	0
August	7.0	NW.	28	N.	0	7	3	5	8	9	11	11	13	0	12	7	12	11	9	0	0	6	0	0	0	3	0
September	7.7	S.	36	SE.	0	5	5	7	8	9	9	3	14	0	10	5	15	12	9	0	0	9	0	0	0	1	0
October	9.9	SW.	40	SE.	1	10	4	2	2	9	14	10	11	0	10	9	12	9	8	0	0	2	0	0	4	1	0
November	9.0	N.	34	NE.	0	17	4	2	1	10	10	8	8	0	8	6	16	8	7	1	0	8	0	0	13	0	0
December	11.1	NW.	40	SE.	1	12	1	1	3	5	11	8	21	0	11	9	11	18	17	12	0	0	16	0	30	0	0
Year	9.4	NW.	44	S.	7	111	48	32	45	115	123	103	153	0	127	96	142	133	108	31	1	48	48	1	116	14	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

PORTLAND, OREG.

[λ=45° 32′ N.; φ=122° 43′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	30.017	30.440	29.472	36.1	40.3	43.7	33.2	38.4	61	13	33	35	87	81	.197	.216	3.11	0.96	7.0	7.0	7.3
February	29.686	30.058	28.902	41.9	47.1	49.9	39.4	44.6	66	25	39	40	89	78	.240	.254	8.66	1.42	8.2	8.6	8.6
March	29.844	30.270	29.189	41.0	48.5	50.5	39.5	45.0	62	30	37	39	87	72	.222	.241	5.79	1.85	9.1	8.7	8.4
April	29.856	30.316	29.217	43.6	54.1	56.7	41.4	49.0	72	34	41	42	91	66	.259	.274	3.71	0.78	7.8	7.7	7.5
May	29.826	30.039	29.603	49.8	61.5	63.5	49.0	56.2	90	41	46	45	86	59	.311	.308	2.19	0.83	8.6	7.7	7.5
June	29.857	30.057	29.536	52.7	69.2	71.0	51.7	61.4	86	43	47	47	82	48	.321	.326	0.80	0.45	7.0	6.0	6.0
July	29.881	30.098	29.623	55.8	74.0	75.2	55.1	65.2	95	46	51	50	84	47	.373	.375	1.76	1.35	4.9	3.8	3.8
August	29.877	30.143	29.640	56.3	78.1	78.8	54.8	66.8	97	44	51	52	84	43	.380	.397	0.44	0.42	3.0	2.2	3.0
September	29.873	30.108	29.537	53.7	70.5	72.8	51.2	62.0	87	39	48	49	88	49	.333	.348	1.75	0.74	2.9	3.2	4.1
October	29.838	30.126	29.481	50.1	62.6	64.7	48.4	56.6	82	42	48	50	92	67	.330	.366	1.72	0.57	4.6	5.7	6.2
November	29.812	30.374	29.283	43.7	48.2	50.9	41.3	46.1	62	31	42	43	92	83	.266	.279	9.94	2.05	7.8	8.6	8.7
December	29.864	30.248	29.418	39.1	41.6	44.5	36.2	40.4	58	30	36	37	88	83	.213	.222	10.28	1.65	7.4	9.0	8.4
Year	29.853	30.440	28.902	47.0	58.0	60.2	45.1	52.6	97	13	43	44	87	65	.287	.300	50.15	2.05	6.5	6.5	6.6

PUEBLO, COLO.

[λ=38° 18′ N.; φ=104° 36′ W.]

January	25.314	25.670	24.688	17.4	36.9	45.0	12.7	28.8	70	−10	10	19	69	49	.069	.102	.14	.11	2.1	2.7	4.2
February	25.173	25.486	24.620	26.1	44.1	52.2	21.9	37.0	69	−10	16	22	66	44	.093	.119	.35	.24	4.1	5.5	5.2
March	25.116	25.549	24.646	29.1	48.5	53.8	25.3	39.6	69	9	16	19	58	33	.093	.106	.58	.48	3.1	5.2	4.4
April	25.194	25.438	24.836	38.7	61.8	66.0	36.1	51.0	86	20	26	24	61	30	.138	.133	.24	.17	3.9	5.4	4.5
May	25.176	25.497	24.589	50.1	70.7	76.7	47.9	62.3	88	36	37	33	64	32	.232	.209	2.57	2.27	3.9	5.4	4.8
June	25.208	25.522	24.887	58.0	79.2	84.2	55.3	69.8	100	47	46	42	67	32	.316	.285	1.04	.68	4.3	5.1	4.6
July	25.298	25.611	24.992	59.7	81.6	87.3	57.5	72.4	100	50	46	43	64	30	.324	.290	.95	.61	2.6	4.4	3.5
August	25.306	25.602	25.051	61.5	82.6	88.1	60.1	74.1	104	54	50	48	69	34	.372	.341	2.67	.94	3.7	4.9	4.0
September	25.300	25.622	24.944	48.2	71.0	77.0	46.4	61.7	95	32	36	39	65	33	.217	.239	.48	.28	2.5	2.8	3.2
October	25.324	25.551	24.993	41.6	61.5	68.9	38.0	53.4	84	29	29	33	62	37	.159	.189	.44	.39	3.8	2.9	3.9
November	25.225	25.601	24.849	32.0	45.5	54.5	26.5	40.5	75	8	20	23	61	46	.108	.132	.39	.38	4.1	2.9	5.2
December	25.251	25.616	24.790	25.2	35.4	46.0	18.5	32.2	71	0	13	20	62	55	.079	.106	.52	.43	3.2	3.1	4.0
Year	25.240	25.670	24.589	40.6	59.9	66.6	37.2	51.9	104	−10	29	30	64	38	.183	.188	10.37	2.27	3.4	4.2	4.3

RALEIGH, N. C.

[λ=35° 45′ N.; φ=78° 37′ W.]

January	29.744	30.279	29.076	33.3	39.1	46.4	28.9	37.6	67	17	27	25	76	59	.152	.144	2.39	1.39	5.8	4.1	5.5
February	29.511	29.959	28.927	31.0	38.2	43.8	28.2	36.0	69	17	26	25	81	60	.154	.153	7.08	1.89	5.8	4.8	5.1
March	29.618	30.028	29.053	45.6	54.0	61.2	40.7	51.0	78	20	40	42	79	66	.260	.288	2.14	.57	6.0	4.9	5.2
April	29.583	29.847	29.182	51.8	60.6	68.1	47.1	57.6	86	32	42	44	71	57	.279	.302	3.10	1.38	5.0	3.9	5.0
May	29.651	29.940	29.367	64.7	72.1	80.9	60.5	70.7	92	47	56	58	79	64	.494	.505	2.00	.65	5.3	3.9	4.1
June	29.562	30.043	29.152	71.8	78.4	86.5	66.3	76.4	96	57	64	64	78	64	.615	.615	3.04	.93	5.5	4.9	4.2
July	29.644	29.860	29.465	75.7	81.1	91.0	70.4	80.7	101	64	68	66	76	63	.678	.653	3.39	.96	4.4	5.2	5.0
August	29.575	29.822	29.376	70.8	77.7	87.3	66.8	77.0	97	59	65	65	82	67	.623	.631	2.76	.82	5.4	4.7	5.3
September	29.640	29.872	29.224	64.9	71.1	79.8	60.7	70.2	90	49	59	60	83	70	.527	.533	2.92	1.37	4.7	3.6	4.8
October	29.679	30.160	29.102	56.5	64.8	73.9	52.0	63.0	82	38	49	53	78	66	.373	.413	3.07	.97	3.8	2.9	3.8
November	29.692	30.051	29.122	50.3	58.2	66.1	46.9	56.5	78	31	46	48	85	70	.326	.350	4.12	1.50	5.0	4.3	5.8
December	29.719	30.165	29.199	37.3	43.6	51.3	33.6	42.4	69	17	30	34	76	71	.184	.218	3.15	.89	6.6	4.3	5.8
Year	29.635	30.279	28.927	54.5	61.6	69.7	50.2	59.9	101	17	48	49	79	65	.389	.400	39.16	1.89	5.3	4.3	5.0

RAPID CITY, S. DAK.

[λ=44° 04′ N.; φ=103° 12′ W.]

January	26.681	27.077	26.286	20.1	26.6	36.7	13.9	25.3	65	−22	14	16	78	65	.089	.099	.18	.13	3.2	2.6	3.5
February	26.523	26.948	25.824	20.6	26.8	34.3	15.0	24.6	58	−15	16	20	84	77	.101	.117	.14	.06	6.3	5.3	6.3
March	26.446	26.905	26.037	28.6	38.2	44.4	24.5	34.4	64	− 8	23	26	80	64	.131	.144	3.34	2.32	5.4	5.6	5.5
April	26.556	26.823	26.151	35.8	48.4	54.4	31.8	43.1	82	16	30	33	79	58	.163	.190	2.49	1.07	3.8	6.2	5.5
May	26.490	26.960	25.810	52.2	64.4	69.1	46.7	57.9	83	33	44	44	77	50	.296	.302	2.97	1.37	3.0	4.7	4.5
June	26.546	26.855	26.164	55.3	67.1	71.1	49.9	60.5	91	35	48	49	77	56	.397	.364	2.96	1.34	4.4	5.3	4.8
July	26.583	26.949	26.241	62.3	75.7	80.9	56.6	68.8	102	48	51	49	68	43	.379	.357	3.59	2.45	3.4	4.7	4.0
August	26.602	26.867	26.310	61.6	75.8	80.7	57.5	69.1	92	45	51	52	70	46	.389	.399	.72	.19	3.9	3.2	3.5
September	26.592	26.962	26.183	49.4	65.3	73.5	45.1	59.3	94	32	34	35	57	36	.198	.206	.48	.34	2.4	3.0	2.6
October	26.621	26.892	26.334	43.2	54.6	64.1	37.8	51.0	78	24	31	33	65	46	.176	.189	.21	.21	1.9	2.2	2.0
November	26.522	26.911	26.174	29.2	36.5	47.4	24.1	35.8	66	13	22	25	74	62	.119	.130	.68	.50	3.3	3.3	3.3
December	26.574	27.054	26.143	21.3	23.3	33.3	13.4	23.4	62	− 3	16	16	81	74	.092	.091	.80	.41	5.9	4.8	5.5
Year	26.561	27.077	25.810	40.0	50.2	57.5	34.7	46.1	102	−22	32	33	74	56	.206	.216	18.51	2.45	3.9	4.2	4.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

PORTLAND, OREG.

[H=154 ft.; h_1=68 ft.; h_2=63 ft.; h_3=96 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.2	E.	43	S.	1	3	9	13	8	9	2	2	16	0	4	8	19	18	14	7	0	4	5	0	11	0	0
February	9.5	SE.	44	S.	4	1	5	7	16	15	3	3	6	0	1	5	22	23	21	1	0	0	0	0	5	0	0
March	10.1	S.	42	S.	1	1	0	4	9	20	14	3	11	0	1	9	21	24	18	2	0	1	0	0	1	0	0
April	8.7	S.	42	S.	2	0	1	3	17	10	8	5	15	1	4	8	18	22	15	0	0	1	0	0	0	0	0
May	8.0	NW.	32	W.	0	3	0	3	10	11	11	8	16	0	4	7	20	19	12	0	1	0	0	0	0	1	0
June	5.9	NW.	32	S.	0	2	1	5	5	18	5	9	19	1	8	12	10	11	5	0	0	0	0	0	0	0	0
July	5.7	NW.	29	SW.	0	3	1	0	7	9	8	7	27	0	18	7	6	8	8	0	0	0	0	3	0	2	0
August	5.4	NW.	19	NW.	0	7	6	3	2	5	4	1	34	0	22	5	4	2	1	0	0	1	0	5	0	1	0
September	5.4	NW.	24	NE.	0	3	2	2	3	7	3	4	34	2	18	7	5	6	5	0	0	2	0	0	0	0	0
October	4.6	NW.	25	NE.	0	3	2	7	11	8	6	2	22	1	9	6	16	12	9	0	0	7	0	0	0	0	0
November	6.6	S.	34	SW.	0	3	0	3	16	21	7	4	6	0	0	8	22	22	20	0	1	1	0	0	1	0	0
December	5.8	SE.	26	SW.	0	5	4	12	10	10	9	6	4	2	3	4	24	21	18	2	0	2	0	0	5	0	0
Year	7.0	NW.	44	S.	8	34	31	62	114	138	80	54	210	7	92	86	187	188	146	12	2	19	5	8	23	4	0

PUEBLO, COLO.

[H=4,685 ft.; h_1=80 ft.; h_2=71 ft.; h_3=86 ft.]

January	5.5	NW.	34	N.	0	9	3	4	17	1	3	6	18	1	15	12	4	3	1	3	0	0	7	0	31	0	0
February	7.4	NW.	38	NW.	0	6	6	4	10	2	2	9	16	1	6	19	3	7	3	6	0	0	1	0	22	0	0
March	9.0	NW.	50	NW.	3	7	6	6	9	1	6	10	17	0	14	14	3	5	2	1	0	0	2	0	24	1	0
April	7.9	SE.	46	W.	1	10	5	9	18	0	4	4	9	1	12	14	4	3	2	1	0	0	0	0	8	0	0
May	7.9	SE.	41	SW.	1	7	3	9	15	0	9	8	11	0	13	12	6	6	4	0	0	0	0	0	0	7	0
June	7.6	SE.	46	NW.	1	2	8	13	16	1	2	3	12	3	9	18	3	6	6	0	1	0	0	9	0	9	0
July	7.1	SE.	38	NW.	0	12	9	5	18	1	2	5	15	0	14	17	0	5	3	0	0	0	0	12	0	7	0
August	6.5	SE.	44	N.	4	9	5	5	16	0	3	4	19	1	16	13	2	9	7	0	1	0	0	13	0	14	0
September	7.3	SE.	36	NE.	0	10	6	9	18	0	3	2	12	0	20	5	5	2	2	0	0	0	0	2	0	1	0
October	5.8	NW.	42	NW.	1	11	6	5	18	1	2	5	13	1	15	14	2	3	2	0	0	0	0	0	4	1	0
November	6.0	NW.	36	NW.	0	13	3	6	10	1	4	4	19	0	8	17	5	3	1	1	0	1	0	0	22	0	0
December	6.7	NW.	40	W.	1	9	4	6	13	1	3	7	17	2	15	12	4	3	3	3	0	1	4	0	29	0	0
Year	7.1	NW.	50	NW.	12	105	64	81	173	9	43	67	178	10	157	167	41	55	36	15	2	2	14	36	140	40	0

RALEIGH, N. C.

[H=376 ft.; h_1=93 ft.; h_2=85 ft.; h_3=101 ft.]

January	5.9	SW.	29	NW.	0	12	9	3	1	2	13	9	8	5	11	8	12	9	8	0	0	2	2	0	19	0	0
February	7.6	NW.	30	SW.	0	13	3	3	2	2	5	10	18	0	11	7	10	11	8	3	0	0	0	0	21	1	0
March	7.8	NW.	32	SW.	0	6	4	6	4	10	11	5	15	1	12	8	11	14	9	1	0	0	0	0	6	1	0
April	7.8	SW.	29	SW.	0	6	8	5	2	8	10	13	7	1	14	7	9	10	7	0	0	1	0	0	0	2	0
May	6.2	SW.	20	S.	0	2	9	7	5	10	18	5	5	1	15	13	3	8	7	0	0	1	0	3	0	7	0
June	6.7	SW.	26	SW.	0	10	4	3	10	6	14	9	4	0	17	8	5	12	10	0	0	0	0	9	0	9	0
July	5.4	SW.	25	NW.	0	8	6	2	9	8	12	6	11	0	12	9	10	11	7	0	0	0	0	15	0	10	0
August	5.1	SW.	30	NW.	0	9	9	7	6	7	15	6	3	0	8	15	8	9	8	0	0	1	0	9	0	9	0
September	5.5	NE.	22	NW.	0	10	18	5	3	7	10	3	4	0	13	7	10	10	8	0	0	0	0	1	0	5	0
October	5.2	SW.	25	SW.	0	5	14	5	4	3	15	3	13	0	18	5	8	7	7	0	0	0	0	0	0	0	0
November	5.5	SW.	22	N.	0	11	8	3	6	5	12	6	7	2	10	5	15	9	5	0	0	4	0	0	1	0	0
December	6.8	NE.	30	SW.	0	11	11	2	4	6	12	5	10	1	11	7	13	13	13	0	0	0	1	0	12	0	0
Year	6.3	SW.	32	SW.	0	103	103	51	56	74	147	80	105	11	152	99	114	123	97	4	0	9	3	37	59	44	0

RAPID CITY, S. DAK.

[H=3,224 ft.; h_1=46 ft.; h_2=35 ft.; h_3=50 ft.]

January	7.4	W.	34	NW.	0	9	2	2	8	2	0	27	12	0	16	9	6	5	1	5	0	0	12	0	28	0	0
February	7.0	NW.	37	SE.	0	9	3	3	12	2	0	9	16	2	8	8	12	7	1	7	0	0	9	0	25	0	0
March	10.2	NW.	40	NW.	1	12	0	6	11	2	1	6	24	0	10	12	9	11	7	6	0	0	5	0	22	1	0
April	9.3	W.	42	W.	1	8	5	3	11	5	1	14	13	0	10	14	6	9	6	5	0	0	0	0	16	1	0
May	8.1	SE.	36	SW.	0	5	4	5	17	3	5	11	11	1	16	9	6	12	7	0	0	0	0	0	0	5	0
June	8.1	NW.	42	S.	1	7	9	7	10	8	0	7	12	0	13	8	9	12	9	0	0	0	0	1	0	6	0
July	7.5	SE.	46	W.	1	3	5	2	20	1	3	17	11	0	14	13	4	9	8	0	1	0	0	5	0	8	0
August	7.6	SE.	36	NW.	0	8	5	5	15	2	2	13	11	1	18	13	0	8	6	0	0	0	0	1	0	5	0
September	10.9	NW.	38	NW.	0	7	2	4	9	4	2	13	19	0	22	6	2	3	3	0	0	0	0	2	1	0	0
October	7.1	W.	30	NW.	0	9	3	3	9	1	3	21	12	1	25	3	3	2	2	0	0	0	0	0	5	0	0
November	7.3	NW.	42	NW.	1	7	4	4	8	5	0	11	21	0	18	6	6	3	2	1	0	2	2	0	27	0	0
December	8.0	W.	35	NW.	0	9	5	2	7	0	4	18	17	0	12	5	14	7	2	7	0	1	13	0	30	0	0
Year	8.1	NW.	46	W.	5	98	47	46	137	35	21	167	179	5	182	106	77	88	54	31	1	3	41	9	154	26	0

[a] By eye observations when there is no self-register at station

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

RED BLUFF, CAL.

[λ=40° 10′ N.; φ=122° 15′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.808	30.036	29.374	37.7	48.7	51.8	36.3	44.0	70	28	35	35	90	64	.209	.217	1.99	0.82	3.6	4.4	6.1
February	29.643	29.936	29.087	46.8	53.6	55.2	45.3	50.2	65	33	45	46	95	78	.308	.319	12.16	2.39	8.0	8.0	8.4
March	29.678	30.121	29.200	44.5	58.6	60.8	42.3	51.6	71	33	37	34	78	44	.224	.205	3.94	1.44	3.2	4.5	3.9
April	29.666	29.937	29.314	49.0	63.5	65.2	48.1	56.6	80	41	44	43	84	52	.287	.287	2.85	0.84	5.9	5.8	5.9
May	29.596	29.756	29.379	52.0	72.2	73.9	51.1	62.5	95	41	44	41	75	36	.290	.268	1.12	0.54	4.2	4.0	4.1
June	29.472	29.786	29.227	64.0	89.7	90.8	63.3	77.0	100	60	40	42	44	20	.254	.274	0.00	0.00	1.0	1.9	1.4
July	29.523	29.701	29.261	66.6	93.1	94.3	65.6	80.0	115	55	42	44	45	22	.286	.312	0.00	0.00	0.7	1.3	0.9
August	29.527	29.710	29.325	65.8	91.6	93.1	64.2	78.6	111	58	54	56	68	32	.434	.456	T.	T.	1.1	2.0	1.6
September	29.522	29.691	29.373	63.3	89.4	91.9	60.7	76.3	108	50	49	52	62	31	.358	.410	0.00	0.00	0.4	1.1	0.8
October	29.615	29.888	29.278	54.2	71.9	73.9	52.0	63.0	89	47	44	46	72	44	.297	.313	3.44	1.46	2.3	3.7	3.3
November	29.685	29.942	29.261	46.1	55.6	58.7	43.9	51.3	68	35	42	44	87	67	.274	.296	6.64	3.30	3.9	4.9	5.0
December	29.764	29.957	29.409	41.1	49.7	51.5	39.0	45.2	59	29	38	41	91	74	.241	.264	3.39	1.02	3.5	5.5	5.7
Year	29.624	30.121	29.087	52.6	69.8	80.1	51.0	61.4	115	28	43	44	74	47	.288	.302	35.53	3.30	3.2	3.9	3.9

RICHMOND, VA.[a]

[λ=37° 32′ N.; φ=77° 27′ W.]

January	29.973	30.554	29.260	31.5	.....	44.3	28.0	36.2	59	18	24	....	74	....	.137	.....	3.26	1.73	6.4	.....	6.3
February	29.762	30.241	29.215	29.4	.....	41.8	27.5	34.6	65	15	23	....	75	....	.136	.....	4.84	1.23	5.6	.....	5.6
March	29.863	30.275	29.275	43.8	.....	59.9	40.2	50.0	76	19	37	....	78	....	.242	.....	1.89	0.54	5.7	.....	5.5
April	29.821	30.161	29.198	50.4	.....	66.3	45.3	55.8	90	33	41	....	72	....	.268	.....	3.12	1.52	5.0	.....	5.6
May	29.902	30.199	29.588	62.9	.....	78.6	57.1	67.8	91	46	55	....	76	....	.449	.....	3.42	1.29	5.2	.....	5.1
June	29.813	30.320	29.434	71.8	.....	84.7	63.9	74.3	96	52	[b]60	....	[b]66	....	[b].528	.....	4.81	2.88	4.6	.....	4.9
July	29.881	30.119	29.722	75.7	.....	89.6	68.3	79.0	98	62	64	....	69	....	.613	.....	6.21	3.59	4.3	.....	5.1
August	29.833	30.090	29.650	71.4	.....	84.9	65.1	75.0	96	56	63	....	74	....	.579	.....	3.10	1.33	4.5	.....	4.7
September	29.901	30.156	29.565	66.0	.....	78.0	59.2	68.6	88	48	59	....	79	....	.521	.....	4.91	1.79	5.5	.....	5.5
October	29.938	30.431	29.465	56.7	.....	71.6	51.5	61.6	81	35	49	....	77	....	.370	.....	4.81	2.07	3.8	.....	3.6
November	29.957	30.338	29.360	49.8	.....	64.5	45.2	54.8	79	32	43	....	78	....	.289	.....	4.83	2.77	6.0	.....	5.4
December	29.971	30.521	29.369	36.1	.....	48.1	32.1	40.1	68	20	28	....	72	....	.164	.....	4.12	1.33	6.5	.....	6.2
Year	29.885	30.554	29.198	53.8	.....	67.7	48.6	58.2	98	15	46	....	74	....	.358	.....	49.32	3.59	5.3	.....	5.3

ROCHESTER, N. Y.

[λ=43° 08′ N.; φ=77° 42′ W.]

January	29.480	30.170	28.823	21.8	24.3	30.0	17.0	23.5	42	2	17	19	80	78	.096	.105	2.50	.84	9.4	6.1	6.9
February	29.306	29.769	28.703	19.6	23.4	28.6	16.1	22.4	55	3	15	18	81	80	.094	.108	2.51	1.07	7.6	5.4	5.6
March	29.400	29.799	28.710	36.9	39.8	46.5	32.4	39.4	66	15	30	32	76	73	.177	.187	1.48	.38	6.7	6.1	5.8
April	29.335	29.711	28.834	44.0	45.8	54.6	37.9	46.2	84	28	36	37	75	73	.218	.227	2.48	.71	6.1	5.6	5.6
May	29.447	29.806	29.136	52.8	56.8	64.3	46.0	55.2	88	29	43	45	72	67	.305	.327	1.67	.64	5.8	4.5	4.7
June	29.327	29.778	28.882	60.3	62.7	70.5	53.5	62.0	85	41	52	53	75	73	.402	.419	4.08	.91	5.9	5.1	5.7
July	29.421	29.686	29.182	68.0	71.3	79.4	62.2	70.8	91	52	61	62	79	74	.547	.563	4.43	1.11	5.1	6.8	5.7
August	29.412	29.678	29.182	63.9	66.8	74.8	57.7	66.2	89	49	57	57	79	71	.472	.470	1.90	.75	4.8	4.1	5.3
September	29.458	29.755	28.994	59.6	63.1	72.8	53.7	63.2	84	41	53	53	79	72	.413	.418	1.99	.70	5.8	3.7	5.7
October	29.466	29.910	28.946	47.8	50.2	58.5	42.1	50.3	72	30	42	43	82	77	.281	.290	2.22	.83	7.9	4.6	7.2
November	29.471	29.918	28.936	44.0	46.2	53.5	38.4	46.0	72	23	38	39	80	76	.241	.245	1.01	.38	7.2	5.4	7.3
December	29.481	30.143	28.823	25.6	26.8	32.7	20.6	26.6	53	6	21	23	82	84	.117	.126	3.46	1.05	9.2	8.2	8.7
Year	29.417	30.170	28.703	45.4	48.1	55.5	39.8	47.6	91	2	39	40	78	75	.280	.290	29.73	1.11	6.8	5.4	6.2

ROSEBURG, OREG.

[λ=43° 13′ N.; φ=123° 20′ W.]

January	29.595	29.874	29.199	37.4	44.0	45.9	35.6	40.8	63	19	35	39	92	88	.211	.242	2.24	.43	6.2	5.7	6.0
February	29.305	29.612	28.557	43.8	51.6	54.9	40.9	47.9	74	29	40	41	89	70	.257	.258	7.67	1.49	7.0	8.5	7.8
March	29.475	29.813	28.721	40.0	50.3	52.7	38.4	45.6	69	30	37	37	89	64	.219	.224	3.22	.72	7.5	8.3	7.9
April	29.464	29.861	29.027	42.4	55.7	58.8	41.4	50.1	75	34	40	40	92	58	.253	.259	3.86	1.32	7.9	7.8	7.8
May	29.441	29.662	29.183	47.8	63.0	64.9	47.3	56.1	88	37	45	44	90	53	.308	.296	2.43	.78	7.5	6.7	7.1
June	29.447	29.648	29.166	49.0	71.6	72.9	48.5	60.7	89	42	46	50	91	49	.317	.375	.88	.22	5.1	3.5	4.3
July	29.476	29.690	29.265	52.1	76.1	77.8	51.5	64.6	96	42	49	49	88	42	.346	.354	.79	.50	4.1	2.5	3.3
August	29.453	29.671	29.234	52.8	80.5	81.5	52.0	66.8	99	44	48	48	86	34	.344	.342	T.	T.	3.7	2.3	3.1
September	29.455	29.659	29.217	48.4	74.6	76.4	46.6	61.5	90	36	45	45	88	38	.301	.311	.34	.17	2.0	2.3	2.1
October	29.433	29.780	28.962	45.7	63.7	65.4	44.8	55.1	85	38	44	48	95	60	.294	.334	1.06	.29	2.7	5.3	4.0
November	29.456	29.927	28.799	42.9	48.9	51.5	41.0	46.2	64	33	40	42	92	77	.256	.267	2.49	2.51	8.1	8.9	8.7
December	29.478	29.851	29.113	39.6	44.9	47.6	37.2	42.4	68	24	37	40	91	83	.228	.246	8.10	2.25	7.8	8.0	7.9
Year	29.456	29.927	28.557	45.2	60.4	62.5	43.8	53.2	99	19	42	44	90	59	.277	.292	39.58	2.51	5.8	5.8	5.8

[a] 8 a. m. observation.

[b] For 29 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

RED BLUFF, CAL.

[H=332 ft.; h_t=50 ft.; h_r=40 ft.; h_a=56 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	4.8	N.	30	N.	0	24	0	6	17	2	1	3	9	0	7	11	13	7	6	0	0	12	0	0	6	0	0
February	10.0	SE.	40	SE	1	3	1	0	39	4	1	5	3	0	2	6	20	23	21	0	0	1	0	0	0	0	0
March	7.8	N.	35	SE.	0	25	4	0	15	6	1	5	6	0	14	13	4	8	8	1	1	0	0	0	0	0	0
April	6.5	SE.	36	SE.	0	9	3	0	25	10	1	4	7	1	8	10	12	12	10	0	0	0	0	0	0	1	0
May	6.1	SE.	38	NW.	0	16	0	2	28	8	2	0	6	0	14	10	7	6	5	0	0	0	0	1	0	0	0
June	5.5	N.	25	N.	0	23	2	2	21	4	2	0	4	2	26	4	0	0	0	0	0	0	0	20	0	0	0
July	5.9	N.	35	NW.	0	29	1	1	20	3	1	2	2	3	28	2	1	0	0	0	0	0	0	19	0	0	0
August	4.1	SE.	24	SE.	0	11	1	3	25	7	3	0	10	2	26	5	0	0	0	0	0	0	0	22	0	0	0
September	4.9	SE.	34	N.	0	21	1	2	22	2	1	1	8	2	28	2	0	0	0	0	0	0	0	16	0	0	0
October	5.2	SE.	27	N.	0	20	2	3	22	4	0	2	6	3	21	3	7	6	6	0	0	0	0	0	0	1	0
November	6.4	SE.	32	N.	0	14	0	1	17	3	2	2	17	4	12	6	12	10	9	0	0	0	0	0	0	0	0
December	5.0	N.	24	SE.	0	22	0	1	19	5	1	2	10	2	7	13	11	13	9	0	0	3	0	0	4	0	0
Year	6.0	SE.	40	SE.	1	217	15	21	270	58	16	26	88	19	193	85	87	85	74	1	1	16	0	78	10	2	0

RICHMOND, VA.

[H=144 ft.; h_t=82 ft.; h_r=76 ft.; h_a=90 ft.]

January	5.5	N.	23	SW.	0	15	9	1	6	5	8	11	7	0	7	9	15	7	6	3	0	2	1	0	20	0	0
February	6.6	N.	38	SW.	0	18	4	5	2	1	5	8	13	0	10	7	11	9	9	4	0	0	0	0	21	1	0
March	7.4	NW.	30	SW.	0	10	8	2	10	11	8	1	12	0	8	10	13	10	8	0	1	0	0	0	6	2	0
April	7.3	SW.	40	S.	1	6	6	3	9	8	14	7	6	1	11	8	11	6	5	0	0	0	0	0	2	2	0
May	5.7	SW.	29	SW.	0	7	8	5	8	12	13	5	4	0	10	12	9	12	9	0	1	1	0	2	0	8	0
June	6.3	SW.	34	SW.	0	5	5	3	10	10	17	5	5	0	11	10	9	7	7	0	0	0	0	5	0	8	0
July	5.2	S.	28	NW.	0	7	4	7	8	14	11	6	3	0	8	16	7	13	10	0	0	1	0	14	0	11	0
August	4.4	N.	26	NW.	0	16	11	4	11	8	9	2	1	0	12	13	6	7	5	0	0	4	0	4	0	6	0
September	4.3	N.	25	SW.	0	15	6	5	13	12	2	4	3	0	11	7	12	8	7	0	0	1	0	0	0	3	0
October	4.4	N.	21	SW.	0	18	3	3	7	12	4	7	7	1	20	2	9	8	8	0	0	2	0	0	0	0	0
November	4.6	N.	21	NW.	0	14	4	4	12	5	11	4	4	2	11	5	14	6	5	0	0	3	0	0	0	0	0
December	5.6	N.	24	SW.	0	12	7	3	4	9	12	6	8	1	10	7	14	14	13	1	0	1	1	0	16	0	0
Year	5.6	N.	40	S.	1	143	75	45	100	107	114	66	75	5	129	106	130	107	92	8	2	15	2	25	63	41	0

ROCHESTER, N. Y.

[H=523 ft.; h_t=81 ft.; h_r=78 ft.; h_a=102 ft.]

January	10.3	SW.	36	W.	0	0	2	0	11	9	14	16	10	0	3	13	15	18	10	13	0	0	17	0	30	0	0
February	11.4	SW.	42	W.	1	3	6	2	7	7	13	15	3	0	8	11	9	11	9	10	0	2	18	0	25	0	0
March	9.8	W.	36	SW.	0	1	9	2	5	9	10	17	9	0	7	19	11	13	11	3	0	0	4	0	12	0	0
April	10.7	W.	48	SW.	2	2	5	4	5	6	13	17	8	0	7	15	8	16	10	3	0	0	0	0	4	2	0
May	9.1	W.	36	NW.	0	0	7	7	5	8	12	15	8	0	11	16	4	11	8	0	0	0	0	0	2	3	0
June	9.5	SW.	35	W.	0	1	5	2	8	2	15	16	11	0	5	17	8	16	13	0	0	0	0	0	0	7	0
July	7.2	SW.	30	W.	0	4	7	4	4	6	17	13	7	0	9	11	11	17	15	0	0	0	0	1	0	8	0
August	6.8	W.	23	W.	0	1	10	2	3	3	16	15	12	0	8	14	9	10	7	0	0	0	0	0	0	2	0
September	7.4	SW.	29	W.	0	0	5	2	11	14	15	7	6	0	11	7	12	12	9	0	0	1	0	0	0	1	0
October	9.0	SW.	34	W.	0	0	1	3	8	6	16	16	12	0	4	9	18	14	8	1	0	0	0	0	2	4	0
November	8.6	SW.	32	SW.	0	0	2	5	6	14	16	10	7	0	4	8	18	10	9	3	0	0	0	0	6	0	0
December	10.9	SW.	36	SW.	0	3	4	6	6	5	15	16	7	0	2	4	25	17	12	13	0	0	14	0	28	0	0
Year	9.2	SW.	48	SW.	3	15	63	39	79	89	172	173	100	0	79	138	148	160	121	46	0	3	53	1	109	27	0

ROSEBURG, OREG.

[H=518 ft.; h_t=56 ft.; h_r=48 ft.; h_a=67 ft.]

January	2.7	NW.	22	NW.	0	1	12	3	6	6	5	8	11	10	7	12	12	19	11	2	0	9	1	0	7	0	0
February	4.2	SE.	24	SW.	0	0	7	4	19	18	4	2	3	4	0	14	14	22	20	0	0	5	0	0	1	0	0
March	4.1	SW.	22	SW.	0	0	3	5	7	4	18	2	16	7	1	11	19	19	15	0	0	3	0	0	2	0	0
April	3.6	NW.	27	SW.	0	0	3	1	4	1	18	8	17	8	0	14	16	21	16	0	1	1	0	0	0	1	0
May	4.0	NW.	24	SW.	0	5	4	5	1	1	16	12	13	5	4	10	17	16	12	0	0	0	0	0	0	1	0
June	4.8	N.	17	NE.	0	22	6	6	1	1	1	3	17	3	13	14	3	4	2	0	0	0	0	0	0	0	0
July	4.4	N.	28	SW.	0	20	12	8	0	0	5	2	6	9	17	9	5	4	4	0	0	0	0	3	0	0	0
August	4.0	N.	20	N.	0	21	6	6	1	0	0	0	13	15	17	10	4	0	0	0	0	0	0	6	0	0	0
September	2.8	N.	19	NW.	0	22	2	2	1	1	1	3	7	21	22	6	2	3	3	0	0	3	0	3	0	0	0
October	2.0	W.	14	SE.	0	8	1	10	7	1	2	11	8	14	14	11	6	8	7	0	0	12	0	0	0	0	0
November	3.2	S.	17	SW.	0	2	1	4	10	10	13	5	7	8	2	4	24	23	19	0	0	4	0	0	0	0	0
December	2.8	SW.	24	SW.	0	0	3	8	8	11	16	2	9	5	3	6	22	22	19	0	0	5	0	0	6	0	0
Year	3.5	N.	28	SW.	0	101	60	62	65	49	99	58	127	109	100	121	144	161	128	2	1	42	1	12	16	2	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SACRAMENTO, CAL.

[λ=38° 35′ N.; φ=121° 30′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.				Extremes.			Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	30.084	30.273	29.780	39.7	47.4	48.7	37.9	43.8	59	29	34	39	90	74	.222	.241	0.95	0.42	5.5	5.7	6.8
February	29.975	30.195	29.496	47.8	56.3	57.9	46.2	52.0	72	32	45	48	90	75	.301	.341	6.52	1.11	6.8	8.2	7.7
March	29.953	30.397	29.425	45.9	58.6	60.2	44.1	52.2	73	33	42	42	85	56	.264	.269	1.99	.97	2.5	5.0	4.5
April	29.961	30.189	29.700	48.8	64.9	65.5	47.3	56.4	77	41	45	46	87	53	.299	.318	1.36	.64	5.4	5.2	5.4
May	29.868	30.043	29.648	50.4	68.6	70.6	49.5	60.0	89	42	45	47	84	47	.308	.329	.45	.23	3.2	3.9	3.7
June	29.740	30.067	29.545	56.8	83.3	85.2	56.0	70.6	99	46	50	52	78	35	.357	.392	.01	.01	1.5	1.7	1.3
July	29.792	29.954	29.523	59.3	85.7	87.9	58.5	73.2	107	53	51	53	77	35	.379	.418	.00	.00	1.5	1.5	1.3
August	29.803	29.988	29.621	58.1	83.5	85.4	57.3	71.4	101	52	53	55	83	39	.400	.436	T.	T.	2.0	1.8	1.6
September	29.781	29.904	29.592	57.5	82.2	85.2	56.2	70.7	102	50	48	52	72	38	.341	.409	.00	.00	.8	1.3	1.0
October	29.887	30.111	29.580	52.6	70.2	72.5	51.2	61.8	85	46	47	48	84	50	.329	.344	1.67	.65	2.0	3.5	3.2
November	29.967	30.209	29.554	45.4	57.4	59.9	43.0	51.4	70	30	42	44	87	64	.268	.299	2.02	1.58	3.5	4.7	4.9
December	30.046	30.233	29.770	42.7	51.0	52.9	40.9	46.9	66	32	40	43	92	76	.258	.286	2.91	1.30	3.2	5.0	5.9
Year	29.904	30.397	29.425	50.4	67.4	69.3	49.0	59.2	107	29	45	47	84	54	.310	.340	17.88	1.58	3.2	4.0	3.9

ST. LOUIS, MO.

[λ=38° 38′ N.; φ=90° 12′ W.]

January	29.570	30.180	29.096	28.5	34.5	39.1	25.8	32.4	63	0	21	23	71	63	.117	.130	1.18	.50	3.4	2.9	3.8
February	29.430	29.854	28.258	21.3	29.7	33.2	19.7	26.4	56	— 1	16	20	78	66	.098	.118	.88	.46	5.4	4.1	5.6
March	29.360	29.965	28.701	42.0	49.5	53.9	39.7	46.8	74	17	36	40	78	71	.232	.273	4.50	1.63	5.8	6.3	6.5
April	29.390	29.661	28.851	48.7	59.3	64.2	46.5	55.4	89	31	39	44	70	59	.245	.306	2.49	.92	3.7	3.7	3.9
May	29.368	29.571	29.040	66.1	74.9	80.9	62.6	71.8	93	52	61	64	84	71	.553	.616	3.04	1.77	4.8	4.4	5.2
June	29.311	29.597	28.844	69.6	77.0	82.9	65.6	74.2	98	53	61	65	74	68	.543	.621	7.86	4.80	5.3	5.4	5.3
July	29.406	29.620	29.248	75.0	83.1	88.7	71.9	80.3	96	61	67	68	77	62	.677	.695	2.34	.80	3.0	3.4	4.2
August	29.371	29.688	29.179	71.1	79.6	84.5	68.2	76.4	97	58	63	65	76	62	.583	.618	5.20	2.12	5.4	4.1	5.7
September	29.381	29.740	29.003	60.1	68.6	74.8	58.0	66.4	86	45	54	55	81	66	.433	.455	1.98	.77	4.9	5.2	5.1
October	29.434	29.765	28.928	54.6	64.7	71.3	53.1	62.2	82	38	47	49	77	58	.338	.357	2.00	1.56	4.5	2.5	3.7
November	29.421	29.705	29.015	49.8	53.7	59.8	46.8	53.3	79	29	44	44	82	71	.307	.309	3.20	1.08	7.4	5.5	6.4
December	29.498	30.084	28.558	39.5	35.4	39.9	28.0	34.0	56	5	25	27	80	72	.143	.160	3.81	1.42	7.9	6.1	6.4
Year	29.412	30.180	28.258	51.4	59.2	64.4	48.8	56.6	98	— 1	44	47	77	66	.356	.388	38.43	4.80	5.1	4.5	5.2

ST. PAUL, MINN.

[λ=44° 58′ N.; φ=93° 08′ W.]

January	29.219	29.838	28.635	13.4	21.7	26.4	10.6	18.5	43	—18	10	15	85	73	.076	.091	.53	.32	3.9	4.3	4.3
February	29.099	29.571	27.939	12.2	22.3	25.5	10.1	17.8	51	—14	9	17	86	77	.076	.101	.68	.53	4.9	4.2	4.5
March	29.003	29.530	28.156	30.0	40.2	44.5	28.0	36.2	62	— 6	24	28	79	64	.138	.163	.58	.19	5.1	6.4	5.9
April	29.032	29.475	28.313	36.7	50.6	55.4	34.2	44.8	87	18	29	30	74	47	.167	.176	3.04	2.88	4.1	5.0	5.4
May	29.048	29.474	28.605	54.3	64.4	68.1	52.0	60.0	85	35	48	49	81	60	.356	.369	3.92	.79	5.3	7.0	6.0
June	29.001	29.261	28.644	58.5	69.3	72.2	56.0	64.1	84	45	52	52	79	56	.394	.414	2.49	.75	5.2	6.1	5.9
July	29.032	29.435	28.741	64.7	76.0	80.3	62.5	71.4	88	55	60	61	84	63	.515	.556	5.50	2.26	4.7	5.9	5.5
August	29.085	29.274	28.775	59.6	71.4	74.8	58.4	66.6	85	50	55	57	84	63	.432	.475	5.64	3.42	4.2	5.6	5.3
September	29.088	29.367	28.716	49.9	60.6	65.8	48.7	57.2	82	36	44	46	82	63	.299	.331	3.16	1.94	4.7	5.3	5.7
October	29.088	29.453	28.709	42.1	52.9	58.6	41.5	50.0	74	32	37	39	82	62	.224	.249	1.33	.55	3.8	4.5	4.8
November	29.051	29.461	28.646	34.0	38.0	42.1	32.5	37.3	63	18	30	30	84	72	.171	.168	2.40	.87	7.8	6.1	7.6
December	29.171	29.736	28.728	12.3	18.7	23.0	8.8	15.9	38	—17	10	14	89	79	.076	.089	2.48	.74	6.8	5.9	7.0
Year	29.072	29.837	27.989	39.0	48.8	53.1	36.9	45.0	88	—18	34	36	82	65	.244	.265	31.75	3.42	5.0	5.5	5.7

SALT LAKE CITY, UTAH.

[λ=40° 46′ N.; φ=111° 54′ W.]

January	25.702	26.007	25.046	24.7	29.0	32.9	22.1	27.5	43	— 4	21	24	84	82	.116	.134	.80	.30	4.5	4.1	5.8
February	25.592	25.865	25.114	35.2	42.3	46.5	31.4	39.0	62	12	26	27	68	56	.139	.150	1.17	.54	6.7	6.1	6.5
March	25.537	26.006	25.125	34.4	41.6	45.5	30.7	38.1	58	21	23	25	64	53	.124	.137	1.22	.40	6.7	5.8	6.0
April	25.540	25.784	25.051	44.0	55.1	59.9	40.6	50.2	78	32	29	29	56	40	.160	.164	2.69	1.11	5.2	5.4	5.5
May	25.493	25.753	25.095	52.1	66.3	69.7	48.7	59.2	88	35	35	34	54	33	.206	.200	.33	.14	4.3	3.5	3.9
June	25.517	25.698	25.216	60.4	79.9	82.1	56.6	69.4	98	42	36	34	42	21	.213	.201	.37	.24	2.1	2.7	2.8
July	25.584	25.812	25.175	64.4	82.2	85.1	59.9	72.5	96	43	34	33	35	19	.200	.191	.56	.45	2.2	2.7	2.6
August	25.605	25.764	25.363	65.4	83.7	86.3	63.0	74.6	98	52	37	34	36	19	.225	.201	.15	.12	2.5	2.0	3.1
September	25.623	25.847	25.161	55.3	72.1	76.6	51.6	64.1	92	35	31	30	42	23	.176	.168	.05	.03	2.2	2.6	2.9
October	25.646	25.851	25.351	48.6	60.9	66.4	43.9	55.2	81	36	28	30	47	34	.156	.168	.52	.18	2.5	3.7	3.0
November	25.602	25.974	25.188	37.7	43.3	49.0	33.0	41.0	70	21	24	27	59	54	.130	.147	1.24	.50	5.1	5.9	6.1
December	25.678	25.923	25.353	30.8	35.6	40.4	26.6	33.5	58	15	21	24	68	68	.115	.129	1.31	.79	4.9	5.4	5.9
Year	25.593	26.007	25.046	46.1	57.7	61.7	42.3	52.0	98	— 4	29	29	55	41	.163	.166	11.41	1.11	4.1	4.2	4.5

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SACRAMENTO, CAL.

[H=69 ft.; h_t=106 ft.; h_r=100 ft.; h_a=117 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.5	SE.	40	NW.	1	8	8	7	18	3	1	3	14	0	5	7	19	7	4	0	0	3	0	0	3	0	0
February	11.4	SE.	60	SE.	4	2	1	4	35	7	4	0	3	0	3	7	18	19	17	0	0	0	0	0	1	0	0
March	9.5	SE.	62	S.	2	5	4	7	12	14	6	2	12	0	12	13	6	8	6	0	0	0	0	0	0	0	0
April	8.9	SE.	46	S.	1	3	1	1	24	19	3	4	5	0	12	5	13	7	6	0	0	0	0	0	0	0	0
May	9.9	S.	45	NW.	1	1	0	3	23	21	6	2	6	0	17	6	8	4	4	0	0	0	0	0	0	0	0
June	8.5	S.	28	NW.	0	4	0	5	21	25	3	0	2	0	27	2	1	1	0	0	0	0	0	6	0	0	0
July	8.9	S.	30	NW.	0	2	1	3	18	27	4	0	7	0	28	2	1	0	0	0	0	0	0	0	0	0	0
August	8.5	S.	22	SW.	0	2	0	0	28	27	1	0	4	0	25	4	2	0	0	0	0	0	0	10	0	2	0
September	8.5	SE.	32	NW.	0	2	3	0	22	22	0	2	9	0	27	3	0	0	0	0	0	0	11	0	0	0	0
October	7.0	SE.	33	SW.	0	6	5	6	17	15	4	2	7	0	17	8	6	4	4	0	0	1	0	0	0	0	0
November	7.9	SE.	40	SE.	1	7	1	8	24	5	3	3	9	0	11	12	7	7	6	0	0	5	0	0	1	0	0
December	7.2	SE.	27	NW.	0	9	0	8	28	4	0	2	11	0	10	4	17	5	4	0	1	8	0	0	0	1	0
Year	8.6	SE.	62	S.	10	51	24	52	270	189	35	20	89	0	194	73	98	62	51	0	1	17	0	35	5	3	0

ST. LOUIS, MO.

[H=567 ft.; h_t=111 ft.; h_r=100 ft.; h_a=210 ft.]

January	10.4	NW.	31	W.	0	9	4	3	3	14	6	7	16	0	19	4	8	7	6	5	0	0	8	0	22	0	0
February	10.7	W.	35	SW.	0	8	7	3	3	7	4	12	11	1	8	9	11	6	4	0	0	0	14	0	22	0	0
March	9.9	S.	47	SW.	1	6	5	3	12	15	1	9	11	0	8	9	14	11	10	0	1	1	1	0	8	5	0
April	9.2	W.	38	W.	0	8	10	4	6	9	4	8	10	1	15	11	4	10	8	0	0	0	0	0	1	5	0
May	9.4	S.	52	SW.	2	8	5	5	5	25	6	5	3	0	10	13	8	11	8	0	1	0	0	0	2	9	0
June	8.8	S.	54	N.	1	10	2	4	5	25	6	1	7	0	10	12	8	14	10	0	1	0	0	2	0	9	0
July	7.7	S.	35	W.	0	3	3	1	6	25	16	3	5	0	13	15	3	11	9	0	0	0	6	0	0	9	0
August	7.6	S.	36	SE.	0	11	9	9	7	12	3	4	7	0	7	12	12	10	9	0	0	0	0	0	17	10	0
September	8.9	S.	43	N.	1	12	0	4	10	16	4	8	6	0	13	5	12	11	8	0	0	0	4	0	6	10	0
October	7.8	S.	29	W.	0	5	5	2	6	25	7	5	7	0	17	8	6	7	6	0	1	0	0	0	0	3	0
November	9.5	S.	45	SW.	1	8	4	2	5	28	3	3	7	0	8	8	14	13	11	1	0	0	0	0	3	4	0
December	11.5	S.	38	SW.	0	5	7	2	4	17	7	7	13	0	11	4	16	14	11	3	0	0	5	0	17	1	0
Year	9.2	S.	54	N.	6	93	61	42	72	218	67	72	103	2	139	110	116	125	100	18	4	7	28	31	73	58	0

ST. PAUL, MINN.

[H=837 ft.; h_t=102 ft.; h_r=93 ft.; h_a=122 ft.]

January	8.4	NW.	36	NW.	0	8	0	0	12	10	5	5	22	0	14	12	5	7	4	7	0	0	17	0	31	0	1
February	7.8	NW.	24	NW.	0	4	1	1	14	5	4	6	21	0	13	10	5	5	4	4	0	0	19	0	25	0	0
March	9.9	SE.	34	SE.	0	7	2	4	18	9	7	2	13	0	7	16	8	8	5	3	0	0	5	0	14	0	0
April	9.8	NW.	36	W.	0	5	3	4	13	7	5	3	20	0	5	20	5	7	4	1	0	0	0	0	11	2	0
May	8.6	SE.	33	SE.	0	5	5	4	20	11	6	2	9	0	6	15	10	14	11	0	1	0	0	0	0	8	0
June	7.7	NW.	33	NW.	0	6	3	3	8	6	17	4	13	0	5	14	11	9	7	0	0	0	0	0	0	3	0
July	6.6	SW.	48	NW.	1	10	1	2	14	13	11	3	8	0	9	15	7	15	11	0	1	0	0	0	0	11	0
August	6.2	SE.	24	NW.	0	8	4	5	17	14	2	2	10	0	6	18	7	12	10	0	1	0	0	0	0	5	0
September	8.5	NW.	28	S.	0	7	1	1	14	10	5	10	12	0	9	10	11	11	10	0	0	0	0	0	0	5	0
October	6.9	SE.	32	NW.	0	7	4	2	19	6	6	6	11	1	13	8	10	11	7	1	0	0	1	0	1	3	0
November	7.9	NW.	31	NW.	0	5	1	2	14	9	3	6	20	0	5	6	19	8	8	2	0	0	2	0	14	0	0
December	7.9	NW.	30	NW.	0	5	2	8	12	3	7	6	19	0	7	6	18	12	9	11	0	1	24	0	30	0	0
Year	8.0	NW.	48	NW.	1	77	27	36	175	103	78	55	178	1	99	150	116	119	90	29	3	2	67	0	126	37	1

SALT LAKE CITY, UTAH.

[H=4,366 ft.; h_t=105 ft.; h_r=97 ft.; h_a=110 ft.]

January	3.8	SE.	30	W.	0	10	1	5	21	5	2	8	10	0	10	6	15	5	5	4	0	8	13	0	30	0	0
February	5.5	SE.	34	N.	0	3	1	3	18	5	7	6	13	0	5	9	14	8	5	3	1	0	3	0	11	1	0
March	6.9	SE.	38	W.	0	3	3	4	28	3	3	2	16	0	9	7	15	12	7	10	0	0	1	0	18	0	0
April	6.7	SE.	46	NW.	2	9	4	6	19	6	1	2	12	1	10	10	10	9	7	3	0	0	0	0	1	1	0
May	7.1	SE.	36	S.	0	11	5	7	17	4	3	0	14	1	15	10	6	8	3	1	1	0	0	0	0	6	0
June	6.7	NW.	36	N.	0	12	11	8	7	4	3	2	13	0	19	9	2	4	2	0	0	0	0	0	0	4	0
July	6.7	SE.	35	NW.	0	6	4	6	24	0	2	3	17	0	22	5	4	4	3	0	0	0	0	15	0	4	0
August	6.5	SE.	36	N.	0	10	4	11	11	5	3	1	16	1	19	9	3	2	2	0	0	0	0	9	0	5	0
September	6.7	SE.	33	NW.	0	7	4	6	16	2	1	5	19	0	20	5	5	2	0	0	0	0	0	2	0	2	0
October	5.7	SE.	32	S.	0	11	4	3	23	3	4	1	13	0	21	5	5	4	4	0	0	0	0	0	0	1	0
November	6.0	SE.	40	NW.	1	10	4	6	20	9	2	1	8	0	9	4	17	8	5	5	0	0	0	0	15	0	0
December	4.7	SE.	38	N.	0	10	6	5	19	3	4	5	9	1	10	8	13	9	5	7	0	0	7	0	22	0	0
Year	6.1	SE.	46	NW.	3	102	51	70	223	49	35	36	160	4	169	87	109	75	48	33	3	8	24	32	97	24	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SAN ANTONIO, TEX.

[λ=29° 27′ N.; φ=98° 28′ W.]

Month.	Pressure.			Temperature.							Moisture.									Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.					
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.		8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*				
January	29.413	29.701	29.016	44.2	56.0	61.7	41.1	51.4	74	26	37	40	77	58	.235	.263	0.70	0.61		5.5	4.9	5.8
February	29.254	29.670	28.556	45.5	59.0	64.1	42.9	53.5	83	31	36	35	70	48	.225	.224	.55	.39		5.4	4.9	5.5
March	29.213	29.699	28.756	54.8	71.4	75.6	53.1	64.4	87	37	41	38	64	34	.288	.262	.12	.11		5.3	4.4	4.8
April	29.192	29.540	28.953	63.2	78.1	82.0	61.4	71.7	94	46	58	57	84	51	.508	.483	2.31	2.24		6.0	5.3	6.4
May	29.149	29.343	28.710	71.1	82.4	86.8	68.6	77.7	95	58	66	65	85	57	.650	.619	3.14	1.37		7.6	5.1	6.1
June	29.130	29.390	28.743	74.7	90.4	94.7	72.8	83.8	103	68	69	64	82	48	.700	.599	.02	.01		6.6	2.9	4.5
July	29.237	29.399	29.044	75.3	86.7	92.8	73.1	83.0	97	69	71	70	88	58	.767	.728	3.85	1.07		6.0	5.4	5.5
August	29.206	29.345	29.043	76.0	94.1	97.1	74.4	85.8	100	72	72	63	88	36	.794	.570	.00	.00		3.1	1.9	3.5
September	29.209	29.580	28.983	70.9	85.5	89.0	68.2	78.6	99	55	64	62	83	52	.622	.579	5.52	2.85		4.7	4.2	3.9
October	29.294	29.505	29.037	61.3	75.3	81.7	59.5	70.6	87	51	57	59	86	59	.475	.517	2.64	1.34		3.3	2.9	3.2
November	29.258	29.514	28.895	59.4	66.3	73.2	56.3	64.8	84	36	56	55	87	70	.475	.468	3.53	.87		6.3	5.3	6.0
December	29.369	29.697	28.927	47.2	56.2	62.4	43.9	53.2	73	33	40	44	78	66	.272	.316	2.51	1.47		4.6	5.4	5.5
Year	29.244	29.701	28.556	62.0	75.0	80.1	59.6	69.9	103	26	56	54	81	53	.500	.469	24.79	2.85		5.5	4.4	5.1

SAN DIEGO, CAL.

[λ=32° 43′ N.; φ=117° 10′ W.]

January	29.952	30.114	29.774	50.8	58.9	64.0	48.7	56.4	81	36	38	45	65	64	.236	.307	1.70	.54		3.5	3.7	3.5
February	29.984	30.149	29.778	49.9	57.1	61.0	48.6	54.8	71	39	46	49	86	75	.310	.350	1.57	1.16		4.6	4.9	3.4
March	29.928	30.155	29.748	50.3	58.7	61.3	48.3	54.8	76	43	43	46	78	64	.283	.310	1.86	.40		3.3	4.2	3.7
April	29.914	30.006	29.770	52.9	60.4	62.8	51.7	57.2	69	47	48	50	85	70	.342	.365	.21	.20		5.6	2.6	3.0
May	29.852	29.970	29.583	56.5	62.2	64.4	56.0	60.2	78	50	50	53	79	71	.362	.398	.06	.05		8.1	5.5	3.5
June	29.765	29.964	29.644	58.9	64.4	65.9	58.4	62.2	76	52	55	56	87	74	.435	.450	T.	T.		8.5	3.5	3.4
July	29.807	29.904	29.684	61.9	67.1	69.8	61.0	65.4	76	55	58	59	87	76	.482	.508	.92	.83		8.8	3.1	3.7
August	29.830	29.934	29.714	63.9	68.1	70.5	63.0	66.8	79	60	59	60	85	75	.504	.517	T.	T.		9.4	2.5	3.5
September	29.793	29.906	29.674	62.6	68.0	70.5	61.9	66.2	78	56	60	61	90	78	.510	.534	T.	T.		7.6	3.1	3.3
October	29.859	29.985	29.714	58.4	65.0	67.8	57.4	62.6	71	52	54	58	86	77	.421	.477	.06	.06		6.1	3.5	3.6
November	29.870	30.124	29.575	52.3	61.7	65.4	51.2	58.3	74	42	44	49	77	66	.298	.361	1.58	.98		4.2	3.3	3.2
December	29.958	30.105	29.684	49.9	58.1	63.0	48.7	55.8	74	40	39	49	70	74	.256	.358	3.58	1.76		3.3	4.1	3.3
Year	29.876	30.185	29.575	55.7	62.5	65.5	54.6	60.1	81	36	50	53	81	72	.370	.411	11.49	1.76		6.1	3.7	3.4

SANDUSKY, OHIO.[b]

[λ=41° 25′ N.; φ=82° 40′ W.]

January	29.418	30.166	29.004	23.6	.....	32.8	20.9	26.8	47	2	18	....	77	....	.099	.....	.60	.24		7.2	.....	6.8
February	29.268	29.746	28.214	18.1	.....	27.6	15.4	21.5	58	— 4	15	....	86	....	.095	.....	.30	.14		7.0	.....	6.9
March	29.280	29.711	28.585	36.5	.....	46.7	33.6	40.2	69	13	31	....	79	....	.181	.....	2.67	.84		6.9	.....	6.6
April	29.251	29.573	28.654	43.6	.....	53.8	39.9	46.8	84	27	35	....	74	....	.213	.....	1.42	.51		7.4	.....	6.6
May	29.362	29.629	29.113	56.3	.....	67.6	50.9	59.2	90	37	48	....	76	....	.368	.....	4.01	1.05		5.1	.....	4.1
June	29.240	29.576	28.863	62.4	.....	73.5	57.6	65.6	91	47	57	....	82	....	.470	.....	8.85	1.95		6.2	.....	4.0
July	29.329	29.566	29.105	71.7	.....	82.7	66.2	74.4	93	57	65	....	79	....	.621	.....	5.33	1.07		3.6	.....	3.2
August	29.325	29.554	29.177	66.4	.....	75.9	62.2	69.0	89	52	59	....	78	....	.513	.....	1.23	.49		4.1	.....	3.1
September	29.325	29.644	28.994	59.5	.....	71.5	55.6	63.6	85	40	54	....	82	....	.422	.....	6.20	1.95		5.2	.....	4.2
October	29.362	29.827	28.881	50.8	.....	61.6	46.9	54.2	79	37	46	....	85	....	.323	.....	1.80	.50		5.8	.....	4.1
November	29.364	29.699	28.794	46.0	.....	55.9	42.9	49.4	72	28	41	....	84	....	.269	.....	2.02	.69		6.9	.....	5.4
December	29.380	29.848	28.773	28.1	.....	34.7	23.6	29.2	53	8	24	....	82	....	.133	.....	2.40	.74		8.3	.....	7.1
Year	29.325	30.166	28.214	46.9	.....	57.0	43.0	50.0	93	— 4	41	....	80	....	.308	.....	36.83	1.95		6.1	.....	5.2

SAN FRANCISCO, CAL.

[λ=37° 48′ N.; φ=122° 26′ W.]

January	30.002	30.202	29.672	44.1	49.9	51.7	41.7	46.7	58	38	40	42	87	76	.252	.274	1.23	.40		4.1	4.7	4.5
February	29.905	30.117	29.393	50.2	55.6	57.3	48.5	52.9	65	40	49	49	95	80	.348	.354	7.27	1.96		6.9	7.9	8.1
March	29.908	30.318	29.320	47.7	53.6	57.6	45.6	51.6	68	41	45	45	90	74	.299	.301	2.65	.80		2.5	3.6	3.5
April	29.917	30.146	29.600	50.4	56.1	60.2	48.7	54.4	78	44	49	48	94	76	.346	.340	.98	.44		5.5	4.7	5.0
May	29.856	29.999	29.654	51.6	56.8	60.5	50.5	55.5	70	47	50	49	94	76	.360	.349	1.05	.58		4.8	4.0	4.1
June	29.750	30.054	29.563	51.3	58.9	63.6	50.2	56.9	73	48	50	51	95	76	.357	.374	.00	.00		2.2	.9	1.2
July	29.798	29.948	29.574	54.4	60.7	65.7	52.6	59.2	77	47	51	52	89	74	.376	.394	T.	T.		3.5	2.3	2.2
August	29.811	29.961	29.686	56.9	61.5	65.9	55.3	60.6	82	52	54	54	90	78	.417	.420	T.	T.		6.8	2.5	3.4
September	29.778	29.883	29.632	57.9	63.9	67.8	56.6	61.9	83	51	54	52	87	72	.415	.402	T.	T.		6.0	3.0	3.8
October	29.851	30.061	29.515	55.8	60.3	64.7	53.9	59.3	77	49	52	53	89	78	.396	.406	1.70	.69		5.2	3.8	4.2
November	29.910	30.146	29.470	52.0	56.5	59.5	50.1	54.8	67	45	48	49	86	76	.335	.350	1.98	1.39		4.1	4.4	4.7
December	29.972	30.120	29.704	48.6	52.2	55.3	46.0	50.6	62	39	44	45	86	76	.295	.309	2.32	.85		5.2	5.5	5.4
Year	29.871	30.318	29.320	51.7	57.2	60.8	49.9	55.4	83	38	49	49	90	76	.350	.356	19.18	1.39		4.7	4.0	4.2

[b] 8 a. m. observations.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SAN ANTONIO, TEX.

[H=701 ft.; h_t= 80 ft.; h_r=72 ft.; h_a=91 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.7	SE.	38	N.	0	16	13	7	16	2	3	0	5	0	11	5	15	8	3	0	0	4	0	0	5	0	0
February	9.0	NW.	48	NW.	1	10	7	4	11	4	6	1	13	0	9	11	8	7	3	0	0	2	0	0	2	0	0
March	9.7	SE.	43	NW.	3	10	11	7	15	4	2	2	10	1	11	14	6	2	1	0	0	1	0	0	0	1	0
April	8.8	SE.	46	NW.	1	2	9	11	34	3	0	0	1	0	5	11	14	4	2	0	0	0	0	0	0	3	0
May	9.0	SE.	65	W.	1	4	1	12	42	1	0	1	1	0	5	14	12	7	5	0	1	0	0	7	0	4	0
June	9.3	SE.	24	SE.	0	2	2	9	41	5	0	0	1	0	11	18	1	2	0	0	0	0	0	27	0	1	0
July	8.1	SE.	25	N.	0	1	4	9	45	1	1	0	0	1	6	18	7	14	11	0	0	0	0	26	0	11	0
August	6.7	SE.	24	SE.	0	0	0	6	54	1	0	0	0	1	18	11	2	0	0	0	0	0	0	31	0	0	0
September	7.2	SE.	32	N.	0	14	9	13	18	2	0	0	4	0	12	15	3	9	7	0	0	0	0	15	0	9	0
October	5.7	SE.	24	S.	0	10	8	13	19	4	2	1	4	1	15	13	3	4	3	0	0	3	0	0	0	2	0
November	7.6	SE.	30	NW.	0	5	3	9	26	3	1	3	10	0	9	6	15	14	10	0	0	4	0	0	0	5	0
December	7.0	SE.	35	NW.	0	12	10	7	9	6	8	1	8	1	11	6	14	8	5	0	0	4	0	0	0	0	0
Year	8.0	SE.	65	W.	6	86	77	107	330	36	23	9	57	5	123	142	100	79	50	0	1	18	0	111	7	36	0

SAN DIEGO, CAL.

[H=87 ft.; h_t=94 ft.; h_r=86 ft.; h_a=102 ft.]

January	5.7	NW.	33	S.	0	7	16	7	0	1	9	5	17	0	20	4	7	3	7	0	1	1	0	0	0	1	0
February	5.6	NW.	32	S.	0	6	15	3	2	2	5	5	18	0	18	7	3	8	4	0	0	5	0	0	0	0	0
March	6.8	NW.	27	NW.	0	5	10	7	2	1	10	11	16	0	17	8	6	7	7	0	0	1	0	0	0	0	0
April	6.2	NW.	24	W.	0	10	8	3	2	1	5	12	19	0	23	3	4	2	1	0	0	2	0	0	0	0	0
May	6.5	SW.	27	NW.	0	6	1	2	4	4	11	21	13	0	22	4	5	2	1	0	0	0	0	0	0	1	0
June	5.9	SW.	19	SW.	0	2	3	0	9	8	18	13	7	0	21	6	3	0	3	0	0	2	0	0	0	2	0
July	5.8	NW.	20	SW.	0	8	0	0	4	6	9	11	23	1	19	8	4	3	3	0	0	4	0	0	0	0	0
August	5.8	NW.	22	NW.	0	7	1	1	2	3	10	13	24	1	20	7	4	0	0	0	0	1	0	0	0	0	0
September	5.0	NW.	20	NW.	0	8	0	0	2	1	10	13	24	2	23	4	3	0	0	0	0	3	0	0	0	0	0
October	5.3	NW.	19	S.	0	19	2	4	1	2	5	7	22	0	21	6	4	1	1	0	0	1	0	0	0	0	0
November	5.7	NW.	24	E.	0	8	10	11	2	2	7	6	14	0	20	7	3	6	5	0	0	0	0	0	0	0	0
December	5.1	NW.	23	NW.	0	12	13	7	3	4	1	7	14	1	21	5	5	7	5	0	0	0	0	0	0	0	0
Year	5.8	NW.	33	S.	0	98	79	45	33	35	100	124	211	5	245	69	51	44	34	0	1	20	0	0	0	4	0

SANDUSKY, OHIO.

[H=629 ft.; h_t=62 ft.; h_r=55 ft.; h_a=70 ft.]

January	10.1	SW.	36	NW.	0	1	1	3	1	2	9	7	7	0	7	7	17	10	4	9	0	0	13	0	30	0	0
February	8.3	SW.	33	SW.	0	1	5	1	4	1	7	8	1	0	4	8	16	7	3	6	0	3	20	0	25	0	0
March	9.9	SW.	47	NW.	1	1	4	3	4	1	8	3	7	0	7	8	16	12	7	2	1	0	5	0	12	2	0
April	9.6	W.	38	NW.	0	2	4	0	4	2	6	8	4	0	8	5	17	8	6	1	0	0	0	0	6	0	0
May	9.1	E.	41	W.	1	3	5	6	2	3	6	3	3	0	15	8	8	13	9	0	1	0	0	0	0	6	0
June	8.6	SW.	32	NW.	0	2	4	3	2	6	4	5	4	0	14	11	5	15	14	0	0	0	0	1	0	7	0
July	7.1	SW.	25	NW.	0	2	1	2	0	3	15	6	2	0	19	9	3	14	12	0	0	0	0	7	0	11	0
August	6.5	NE.	23	NW.	0	8	5	3	2	5	6	1	1	0	20	8	3	10	7	0	0	1	0	0	0	3	0
September	6.9	S.	34	NW.	0	0	3	2	1	8	10	2	4	0	14	9	7	15	14	0	0	0	0	0	0	2	0
October	8.5	SW.	30	W.	0	1	3	3	1	4	13	4	2	0	16	8	7	11	10	0	1	0	0	0	0	1	0
November	8.8	SW.	34	NW.	0	1	4	2	1	4	12	2	4	0	12	5	13	13	7	1	0	0	0	0	4	0	0
December	10.7	SW.	31	NE.	0	1	5	3	0	3	10	6	3	0	6	7	18	17	14	10	0	0	18	0	26	0	0
Year	8.7	SW.	47	NW.	2	23	44	31	22	42	106	55	42	0	142	93	130	145	107	29	3	4	51	8	103	32	0

SAN FRANCISCO, CAL.

[H=155 ft.; h_t=161 ft.; h_r=154 ft.; h_a=167 ft.]

January	7.6	N.	32	SE.	0	19	5	2	6	2	4	8	16	0	13	13	5	9	7	0	0	2	0	0	0	0	0
February	10.0	SE.	49	S.	2	1	1	2	20	8	13	9	2	0	2	7	19	19	15	0	0	3	0	0	0	0	0
March	9.7	W.	60	S.	2	4	0	1	5	2	9	37	4	0	18	9	4	11	10	0	1	1	0	0	0	0	0
April	10.7	W.	42	SE.	1	2	1	1	3	3	11	37	1	1	10	11	9	10	8	0	0	0	0	0	0	0	0
May	12.9	W.	36	W.	0	2	1	1	1	1	11	41	4	0	14	9	8	6	3	0	0	0	0	0	0	0	0
June	13.9	W.	40	W.	1	0	0	0	0	1	14	43	0	2	27	3	0	0	0	0	0	2	0	0	0	0	0
July	13.1	W.	38	W.	0	0	0	0	0	1	19	41	1	0	23	6	2	0	0	0	0	0	0	0	0	1	0
August	12.2	W.	34	W.	0	0	0	0	0	2	31	29	0	0	19	9	3	0	0	0	0	0	0	0	0	0	0
September	10.8	W.	33	W.	0	0	0	1	3	2	13	39	2	0	13	13	4	0	0	0	0	0	0	0	0	1	0
October	8.5	W.	31	W.	0	0	0	2	9	9	6	35	1	0	16	8	7	6	6	0	1	0	0	0	0	0	0
November	8.9	W.	37	SE.	0	10	1	5	8	7	3	20	6	0	13	9	8	8	6	0	0	0	0	0	0	0	0
December	6.0	N.	28	S.	0	12	6	1	9	3	6	10	14	1	9	10	12	11	5	0	0	0	0	0	0	0	0
Year	10.3	W.	60	S.	6	50	15	16	64	41	140	349	51	4	177	107	81	80	60	0	2	8	0	0	0	2	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SAN LUIS OBISPO, CAL.

[λ=35° 18′ N.; φ=120° 39′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.906	30.086	29.607	44.4	58.3	65.5	40.7	53.1	83	26	34	38	71	49	.202	.234	1.46	.60	1.7	3.2	3.7
February	29.902	30.100	29.572	48.0	57.6	63.3	44.8	54.0	74	32	44	49	86	74	.290	.353	8.79	3.76	4.2	5.9	6.5
March	29.868	30.182	29.620	44.7	57.2	63.0	42.0	52.5	79	32	40	44	83	63	.246	.292	4.68	1.29	1.9	3.8	3.8
April	29.858	30.010	29.655	48.8	59.6	68.1	45.8	57.0	87	36	43	47	82	64	.279	.321	2.44	1.86	3.6	3.7	4.5
May	29.798	29.935	29.558	48.9	60.4	69.7	46.5	58.1	82	37	44	48	82	64	.286	.336	.03	.03	3.5	2.5	3.4
June	29.692	29.937	29.563	51.8	67.2	76.2	48.8	62.5	93	40	47	51	85	57	.323	.379	T.	T.	4.4	1.0	2.4
July	29.750	29.830	29.560	54.0	68.6	76.2	51.6	63.9	92	45	50	52	90	58	.370	.395	T.	T.	3.5	1.6	3.2
August	29.769	29.910	29.634	54.8	68.1	74.3	53.1	63.7	88	47	52	54	91	61	.393	.418	T.	T.	6.5	1.5	3.9
September	29.722	29.847	29.614	55.5	68.8	77.0	53.6	65.3	93	42	50	52	85	59	.373	.402	.00	.00	5.9	0.8	2.7
October	29.795	29.960	29.610	55.2	64.5	71.8	51.8	61.8	84	44	49	52	82	64	.351	.386	2.00	1.46	3.5	3.2	4.0
November	29.841	30.045	29.580	49.6	59.0	65.3	46.3	55.8	82	32	42	45	75	63	.270	.312	1.52	1.14	1.6	3.6	3.4
December	29.903	30.070	29.740	45.1	56.7	63.3	41.8	52.6	74	32	37	43	76	62	.228	.285	1.48	1.36	2.3	3.8	4.4
Year	29.817	30.182	29.580	50.0	62.2	69.5	47.2	58.4	93	26	44	48	82	62	.301	.343	22.40	3.76	3.6	2.9	3.8

SANTA FE, N. MEX.

[λ=35° 41′ N.; φ=105° 57′ W.]

January	23.231	23.512	22.808	27.0	35.3	43.6	23.8	33.7	54	9	16	21	60	55	.086	.110	.28	.18	3.1	2.6	3.5
February	23.161	23.349	22.712	27.5	41.0	46.6	25.2	35.9	59	8	14	20	56	42	.083	.105	.43	.37	2.2	2.9	2.5
March	23.112	23.447	22.760	28.3	41.8	46.4	25.9	36.2	56	16	16	20	58	40	.087	.103	1.13	.47	3.9	3.5	3.5
April	23.197	23.325	22.916	42.2	60.5	64.4	40.0	52.2	73	30	20	23	40	24	.108	.124	.02	.01	1.7	2.9	2.0
May	23.214	23.435	22.735	50.0	62.3	68.9	45.2	57.0	78	29	32	30	51	37	.183	.176	2.84	1.35	2.0	4.3	3.3
June	23.257	23.463	23.054	60.5	77.4	81.2	56.2	68.7	90	44	34	29	39	20	.201	.171	.34	.18	0.8	2.4	1.5
July	23.349	23.562	23.096	59.2	75.1	78.9	55.8	67.4	90	48	42	36	54	27	.271	.225	1.50	.94	2.1	4.1	3.2
August	23.367	23.496	23.194	59.4	74.2	79.3	57.4	68.4	91	51	45	43	62	37	.307	.287	2.47	.82	2.7	4.2	3.5
September	23.329	23.520	23.079	50.1	65.8	71.0	48.9	60.0	83	37	38	36	63	37	.232	.222	2.05	1.08	2.1	2.1	2.1
October	23.326	23.474	23.055	42.5	54.4	63.0	40.5	51.8	71	33	25	26	51	35	.157	.139	.59	.30	2.8	1.6	2.2
November	23.205	23.464	22.970	32.6	40.4	48.5	30.6	39.6	61	14	21	22	61	48	.117	.119	.93	.82	2.9	2.6	3.1
December	23.223	23.473	22.845	25.0	32.6	40.4	22.1	31.2	57	9	13	18	60	53	.079	.098	.78	.33	2.1	2.0	2.6
Year	23.248	23.562	22.712	42.0	55.1	61.0	39.3	50.2	91	8	26	27	55	38	.158	.157	13.36	1.35	2.4	2.9	2.8

SAULT STE. MARIE, MICH.

[λ=46° 30′ N.; φ=84° 21′ W.]

January	29.340	29.982	28.865	14.0	19.4	24.9	9.3	17.1	36	− 9	11	15	85	82	.079	.092	.98	.24	6.8	7.3	7.6
February	29.216	29.806	28.192	12.5	21.2	25.6	9.0	17.3	44	−10	10	16	88	79	.074	.094	.58	.31	6.6	5.1	5.4
March	29.289	29.760	28.346	28.0	33.4	40.3	24.0	32.2	54	− 6	22	26	78	74	.127	.142	.95	.31	4.8	5.5	4.7
April	29.218	29.621	28.507	35.1	40.6	48.0	31.4	39.7	73	13	30	32	82	71	.170	.183	2.00	1.17	7.0	5.8	6.3
May	29.336	29.727	28.859	46.1	52.0	59.2	40.5	49.8	79	30	39	40	76	66	.246	.261	2.60	1.26	7.1	6.4	4.9
June	29.197	29.618	28.694	52.6	54.6	61.4	44.9	53.2	75	36	46	44	78	71	.311	.302	3.04	.75	7.0	6.0	5.5
July	29.272	29.509	28.971	62.7	68.3	75.2	55.5	65.4	84	45	57	58	81	71	.465	.496	2.20	.72	6.3	5.8	5.5
August	29.306	29.546	28.921	58.8	62.8	69.6	53.6	61.6	81	43	53	51	81	67	.406	.387	1.54	.73	5.6	4.4	4.7
September	29.275	29.653	28.892	52.3	55.8	62.6	47.8	55.2	76	36	47	48	85	76	.334	.341	2.44	.66	6.5	7.0	6.3
October	29.313	29.740	28.627	39.5	44.4	50.2	35.5	42.8	63	26	35	34	85	69	.209	.203	4.42	1.27	7.0	6.6	6.7
November	29.277	29.666	28.730	35.7	38.2	42.7	32.8	37.8	58	15	30	31	79	76	.176	.185	3.54	1.47	8.4	7.7	8.4
December	29.332	29.918	28.939	18.0	21.7	26.2	13.1	19.6	42	− 5	13	16	79	76	.085	.093	1.71	.68	8.1	6.2	8.2
Year	29.281	29.982	28.192	37.9	42.7	48.8	33.1	41.0	84	−10	33	34	81	73	.224	.232	26.00	1.47	6.8	6.2	6.2

SAVANNAH, GA.

[λ=32° 05′ N.; φ=81° 05′ W.]

January	30.094	30.450	29.615	42.6	50.1	59.5	40.4	50.0	78	26	34	40	72	68	.216	.256	.30	.16	4.1	2.8	3.5
February	29.883	30.210	29.284	41.0	48.4	55.2	39.2	47.2	71	28	32	37	71	67	.202	.248	2.34	.75	6.3	4.1	5.4
March	29.984	30.381	29.507	53.6	58.7	66.7	50.6	58.6	83	34	47	51	78	76	.348	.388	5.22	2.30	6.4	4.3	4.7
April	29.956	30.179	29.630	59.3	64.4	73.9	56.0	65.0	86	40	53	58	80	81	.419	.494	2.47	1.42	2.8	5.9	3.1
May	29.979	30.191	29.715	72.7	73.8	84.9	68.2	76.6	96	63	66	68	80	83	.647	.696	2.51	.81	3.2	4.2	3.1
June	29.900	30.238	29.555	76.6	78.9	87.6	72.2	79.9	99	66	71	73	82	83	.751	.811	2.19	.72	3.3	4.3	3.6
July	29.987	30.160	29.855	78.8	81.3	91.6	74.1	82.8	101	70	72	76	81	85	.788	.899	9.28	3.32	3.8	5.4	4.2
August	29.913	30.093	29.701	76.5	79.2	89.2	73.1	81.2	101	69	72	75	87	87	.789	.860	6.80	1.85	3.7	4.5	4.4
September	29.947	30.067	29.686	71.4	74.7	83.4	69.3	76.4	90	62	67	71	87	88	.673	.757	3.83	1.48	5.1	3.6	4.9
October	29.983	30.414	29.615	63.6	68.8	76.9	60.8	68.8	86	44	58	62	82	80	.508	.572	4.72	2.84	5.1	3.5	4.6
November	30.016	30.288	29.517	58.1	63.5	72.0	56.0	64.0	79	34	54	57	87	81	.439	.486	4.96	2.88	5.0	3.2	5.0
December	30.062	30.366	29.489	47.2	54.5	62.1	45.2	53.6	76	24	41	46	81	73	.290	.335	3.23	2.44	5.5	2.5	4.4
Year	29.975	30.450	29.284	61.8	66.4	75.2	58.8	67.0	101	24	56	60	81	79	.506	.567	47.35	3.32	4.4	3.9	4.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SAN LUIS OBISPO, CAL.

[H=201 ft.; h_t=46 ft.; h_r=39 ft.; h_a=48 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	5.1	N.	26	N.	0	31	0	6	1	3	1	17	3	0	17	9	5	4	4	0	0	1	0	0	5	1	0
February	4.9	W.	26	S.	0	17	0	0	1	17	0	18	3	0	6	7	15	11	10	0	0	3	0	0	0	1	0
March	5.7	W.	26	S.	0	24	0	0	1	10	0	24	2	1	16	9	6	9	8	0	0	3	0	0	1	0	0
April	6.2	W.	23	W.	0	20	0	0	1	7	0	28	4	0	11	12	7	5	5	0	0	1	0	0	0	0	0
May	6.5	W.	28	W.	0	16	0	0	2	3	0	35	2	4	20	7	4	1	0	0	0	2	0	0	0	1	0
June	5.4	W.	18	W.	0	12	0	0	2	13	2	28	5	0	24	3	3	0	0	0	0	1	0	1	0	0	0
July	5.0	W.	18	N.	0	15	0	2	1	15	2	22	5	0	23	4	4	0	0	0	0	12	0	2	0	0	0
August	4.7	W.	20	W.	0	9	0	1	1	9	1	36	4	1	20	5	6	0	0	0	0	1	0	0	0	0	0
September	4.2	W.	22	N.	0	14	0	1	0	10	2	25	7	1	23	5	2	0	0	0	0	1	0	2	0	0	0
October	4.5	W.	18	S.	0	16	0	4	0	13	0	24	0	5	17	8	6	4	4	0	0	5	0	0	0	0	0
November	5.7	N.	20	S.	0	30	0	0	0	11	0	16	1	2	17	10	3	5	4	0	0	2	0	0	0	0	0
December	4.5	N.	21	N.	0	30	0	0	0	12	0	15	3	2	15	8	8	5	3	0	0	4	0	0	1	0	0
Year	5.2	W.	28	W.	0	234	0	14	10	123	8	286	39	16	209	87	69	44	38	0	0	36	0	5	7	3	0

SANTA FE, N. MEX.

[H=7,013 ft.; h_t=47 ft.; h_r=39 ft.; h_a=50 ft.]

January	5.9	SE.	38	S.	0	9	12	6	14	10	4	3	4	0	17	12	2	7	1	7	0	0	4	0	30	0	0
February	7.7	NW.	32	NW.	0	7	16	2	0	4	9	3	14	1	20	5	3	4	2	4	0	0	1	0	26	0	0
March	9.0	NW.	33	NW.	0	9	9	5	5	6	7	8	12	1	15	13	3	8	5	7	0	0	1	0	26	1	0
April	8.3	SW.	42	SW.	1	2	8	4	16	5	12	6	7	0	25	5	0	2	0	0	0	0	0	0	1	1	0
May	6.9	SW.	36	S.	0	6	7	9	15	11	11	0	2	1	17	11	3	11	10	2	2	0	0	0	1	9	0
June	7.3	SE.	28	SE.	0	2	3	11	15	7	11	5	4	2	26	4	0	3	2	0	1	0	0	1	0	4	0
July	6.5	SE.	33	NE.	0	3	7	15	14	6	9	1	6	1	18	12	1	7	3	0	1	0	0	0	0	16	0
August	5.6	SE.	25	SE.	0	4	7	9	14	13	9	3	2	1	18	8	5	14	6	0	0	0	0	2	0	11	0
September	6.1	SE.	25	NE.	0	6	2	8	14	11	10	3	4	2	23	6	1	8	4	0	1	0	0	0	0	5	0
October	5.0	SE.	24	E.	0	8	8	8	11	7	11	1	5	3	25	4	2	4	3	0	1	0	0	0	0	2	0
November	6.8	SE.	34	SE.	0	5	17	9	15	3	4	2	4	1	16	13	1	4	3	0	1	0	0	0	17	0	0
December	7.2	N.	35	NW.	0	16	19	1	10	4	1	1	6	4	23	4	4	6	5	5	0	0	5	0	30	0	0
Year	6.9	SE.	42	SW.	1	77	115	87	143	87	98	36	70	17	243	97	25	78	44	25	7	0	11	3	131	49	0

SAULT STE. MARIE, MICH.

[H=614 ft.; h_t=40 ft.; h_r=35 ft.; h_a=61 ft.]

January	8.8	SE.	47	NW.	2	4	2	7	23	1	7	7	11	0	6	4	21	17	6	17	0	4	26	0	31	0	0
February	8.1	NW.	30	W.	0	3	1	5	13	4	4	7	18	1	10	6	12	6	2	5	0	3	19	0	27	0	0
March	8.7	SE.	43	S.	2	3	6	10	14	4	3	10	12	0	15	4	12	9	7	4	0	2	5	0	25	0	0
April	10.4	NW.	46	NW.	1	1	3	11	6	1	7	12	19	0	7	10	13	11	8	1	0	0	1	0	17	0	1
May	9.0	NW.	49	NW.	1	3	1	13	14	3	6	10	12	0	11	14	6	12	8	1	0	2	0	0	3	2	0
June	9.7	NW.	40	NW.	1	1	2	11	9	1	4	11	21	0	9	12	9	13	11	0	0	1	0	0	0	2	0
July	6.2	W.	40	NW.	1	1	2	7	4	6	12	17	12	1	7	16	8	14	9	0	1	0	0	0	0	6	0
August	7.0	NW.	47	NW.	1	1	7	8	7	5	4	9	20	1	15	8	8	8	6	0	0	1	0	0	0	1	0
September	7.5	SE.	31	NW.	0	0	1	11	17	6	5	7	13	0	6	9	15	13	11	0	1	1	0	0	0	3	0
October	9.8	NW.	43	W.	2	9	5	11	9	2	4	7	15	0	8	6	17	15	10	1	3	3	0	0	6	0	0
November	10.2	SE.	47	NW.	2	2	6	9	14	4	8	7	10	0	3	5	22	16	12	5	0	1	3	0	12	0	0
December	9.9	E.	36	NW.	0	10	5	15	8	3	9	5	7	0	2	5	24	15	9	13	0	0	20	0	30	0	0
Year	8.8	NW.	49	NW.	13	38	41	118	138	40	73	109	170	3	99	99	167	149	99	47	5	18	74	0	151	14	1

SAVANNAH, GA.

[H=65 ft.; h_t=79 ft.; h_r=74 ft.; h_a=89 ft.]

January	8.4	W.	34	N.	0	6	11	5	0	2	13	15	10	0	15	13	3	2	2	0	0	1	0	0	5	1	0
February	9.6	W.	42	W.	1	7	5	3	2	5	5	16	13	0	10	10	8	9	8	0	1	1	0	0	5	2	0
March	9.4	SW.	34	NW.	0	4	4	13	4	7	13	6	11	0	12	13	6	13	9	0	0	0	0	0	3	0	0
April	8.6	SW.	33	W.	0	8	4	4	3	7	21	6	7	0	16	12	2	9	6	0	1	1	0	0	0	5	0
May	7.6	SW.	30	NE.	0	5	3	11	8	11	15	7	2	0	18	11	2	10	7	0	0	0	0	4	0	8	0
June	8.5	SW.	36	SW.	0	0	7	6	9	10	15	13	6	0	17	10	3	8	7	0	1	0	0	10	0	9	0
July	6.9	SW.	39	N.	0	2	6	8	4	3	18	14	7	0	12	17	2	11	9	0	0	0	0	20	0	20	0
August	7.1	SW.	36	NE.	0	6	11	8	5	2	19	9	2	0	12	16	3	13	12	0	0	0	0	16	0	10	0
September	6.8	NE.	24	N.	0	7	15	10	9	6	8	6	4	0	9	15	6	12	8	0	0	1	0	0	0	6	0
October	8.0	NE.	32	W.	0	11	20	10	4	1	4	3	9	0	11	15	5	10	7	0	0	1	0	0	0	1	0
November	6.6	NE.	32	W.	0	15	11	10	7	2	5	4	6	0	11	13	6	8	6	0	0	1	0	0	0	1	0
December	7.5	N.	40	SW.	1	18	11	5	4	2	6	5	11	0	15	7	9	6	4	0	0	1	0	0	3	2	0
Year	7.9	SW.	42	W.	2	89	108	93	59	58	137	104	82	0	158	152	55	111	85	0	3	7	0	50	13	68	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SCRANTON, PA.

[λ=41° 24′ N.; φ=75° 42′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.200	29.836	28.381	22.1	25.7	32.4	16.7	24.6	48	5	15	15	74	63	.095	.092	2.14	1.07	8.4	5.5	7.4
February	28.994	29.445	28.329	20.8	25.6	30.8	17.8	24.3	54	2	15	17	77	67	.094	.102	4.73	1.68	8.2	5.9	7.4
March	29.107	29.561	28.324	36.7	41.5	48.7	32.8	40.8	69	17	30	31	76	66	.177	.181	3.14	1.28	6.4	6.0	6.6
April	29.054	29.469	28.518	44.4	50.5	57.0	39.9	48.4	87	28	36	35	71	58	.215	.210	2.27	.76	7.2	6.3	7.1
May	29.161	29.553	28.857	54.3	60.9	68.9	47.7	58.3	89	32	43	43	66	55	.299	.307	1.61	.40	5.4	4.1	5.4
June	29.062	29.604	28.608	61.8	66.7	75.4	54.5	65.0	89	42	52	53	71	63	.401	.415	6.69	1.54	5.0	6.2	5.8
July	29.168	29.392	28.926	67.1	72.3	80.6	61.4	71.0	90	50	61	61	81	70	.544	.553	4.60	1.18	6.3	6.0	6.8
August	29.124	29.399	28.852	63.0	69.4	78.1	56.7	67.4	88	47	57	60	80	72	.465	.516	3.28	.99	5.5	4.4	5.6
September	29.194	29.500	28.844	58.0	63.8	71.9	52.1	62.0	88	35	53	54	84	72	.421	.436	6.23	2.73	5.3	4.5	5.7
October	29.208	29.623	28.731	48.2	53.0	59.7	43.3	51.5	74	26	42	44	80	71	.283	.300	4.94	1.98	5.5	5.0	6.0
November	29.222	29.646	28.650	40.4	47.3	55.1	36.2	45.6	72	23	36	38	85	72	.220	.242	1.06	.33	6.4	4.6	7.0
December	29.207	29.812	28.632	25.7	29.3	34.5	20.0	27.2	53	3	20	20	77	65	.112	.114	4.36	1.46	8.1	6.6	7.8
Year	29.141	29.835	28.324	45.2	50.5	57.8	39.9	48.8	90	2	38	39	77	66	.277	.289	45.05	2.73	6.5	5.4	6.6

SEATTLE, WASH.

[λ=47° 38′ N.; φ=122° 20′ W.]

January	30.041	30.411	29.523	37.5	41.7	44.4	35.2	39.8	58	13	34	36	88	81	.207	.224	5.25	1.38	5.9	6.5	7.0
February	29.692	30.096	28.861	43.4	48.1	51.6	41.1	46.4	63	30	38	40	83	74	.235	.248	8.10	1.89	8.0	8.2	7.4
March	29.848	30.308	29.214	40.8	48.2	50.8	39.3	45.0	66	31	37	36	86	64	.218	.211	4.19	1.05	7.2	7.7	6.9
April	29.878	30.328	29.113	44.2	54.1	57.4	42.6	50.0	68	34	40	39	85	59	.245	.243	2.20	.44	8.3	6.8	5.8
May	29.859	30.049	29.625	49.8	61.1	64.0	49.0	56.5	83	42	46	45	87	57	.311	.299	1.86	.55	8.0	7.1	6.5
June	29.910	30.094	29.648	53.0	66.4	68.8	52.4	60.6	84	44	47	44	80	48	.319	.299	1.71	.67	6.3	4.8	5.2
July	29.934	30.147	29.654	55.3	70.3	72.9	54.6	63.8	95	48	50	50	83	51	.364	.359	2.01	.95	5.6	3.4	4.5
August	29.951	30.195	29.717	55.8	72.8	74.1	54.7	64.4	90	49	51	52	85	60	.378	.391	.48	.28	3.5	2.7	2.9
September	29.956	30.236	29.622	51.9	64.1	66.5	50.3	58.4	80	41	47	46	84	56	.323	.319	2.15	.77	2.9	3.0	3.6
October	29.900	30.184	29.564	49.9	58.0	60.5	48.1	54.3	78	42	48	50	93	75	.336	.357	2.71	1.20	5.6	4.8	6.1
November	29.807	30.378	29.299	43.3	47.3	49.9	41.6	45.8	58	34	40	41	90	79	.253	.258	6.30	1.01	7.7	7.5	8.3
December	29.857	30.900	29.393	40.6	43.4	45.9	37.8	41.8	55	30	37	38	88	82	.220	.234	8.82	2.02	6.4	8.2	7.9
Year	29.886	30.411	28.861	47.1	56.3	58.9	45.6	52.2	95	13	43	43	86	65	.284	.287	45.78	2.02	6.3	5.9	6.0

SHREVEPORT, LA.

[λ=32° 30′ N.; φ=93° 40′ W.]

January	29.918	30.205	29.445	38.6	47.8	53.6	34.7	44.2	70	23	34	37	83	69	.206	.228	1.34	.50	6.1	4.8	5.9
February	29.725	30.212	28.785	39.1	49.5	53.9	36.9	45.4	68	23	35	38	84	66	.215	.245	2.27	1.57	5.1	5.8	6.1
March	29.700	30.245	29.148	51.3	62.2	67.2	49.0	58.1	84	33	47	51	85	68	.346	.397	7.88	3.52	4.6	5.3	5.2
April	29.714	30.018	29.470	58.9	72.2	77.5	57.8	67.6	88	45	55	61	88	69	.450	.546	2.93	1.68	4.9	4.0	4.6
May	29.690	29.839	29.294	69.3	78.6	84.9	66.8	75.8	93	56	67	68	91	72	.659	.691	3.10	1.19	5.7	5.3	5.2
June	29.640	29.898	29.347	73.8	87.8	92.6	70.8	81.7	100	58	68	68	84	53	.702	.685	8.34	8.00	2.7	1.6	2.3
July	29.766	29.888	29.637	74.5	81.8	89.4	72.3	80.8	95	68	72	72	91	73	.777	.760	8.02	8.23	4.9	6.8	5.5
August	29.692	29.827	29.538	77.2	89.0	94.8	75.6	85.2	98	71	73	72	86	59	.802	.797	.02	.02	2.1	2.8	2.8
September	29.702	30.067	29.480	66.1	75.6	83.1	64.2	73.6	93	50	62	64	88	70	.579	.622	4.33	1.24	4.1	3.0	4.8
October	29.794	30.092	29.532	57.0	69.6	76.5	55.9	66.2	86	45	54	56	90	68	.431	.467	3.40	3.08	2.6	1.5	3.7
November	29.769	29.997	29.312	55.7	62.6	68.6	54.0	61.3	80	35	53	54	91	74	.422	.427	5.48	1.80	6.4	5.4	6.5
December	29.864	30.202	29.149	42.4	50.6	55.3	40.5	47.9	70	25	38	39	83	65	.239	.256	2.77	1.35	6.7	4.8	6.0
Year	29.748	30.245	28.785	58.7	68.9	74.8	56.5	65.6	100	23	55	57	87	67	.486	.512	49.88	8.00	4.7	4.3	4.9

SIOUX CITY, IOWA.[a]

[λ=42° 29′ N.; φ=96° 24′ W.]

January	28.948	29.499	28.352	16.8	.....	31.4	14.1	22.8	51	−21	14	....	88	....	.091	.....	.83	.70	2.6	.....	3.4
February	28.814	29.283	27.750	14.5	.....	26.4	11.3	18.8	51	−14	12	....	91	....	.086	.....	.30	.20	5.6	.....	5.5
March	28.668	29.254	28.091	30.9	.....	47.6	29.2	38.4	70	− 2	26	....	82	....	.147	.....	.50	.10	5.7	.....	5.9
April	28.758	29.165	27.921	39.2	.....	60.1	36.0	48.0	85	17	31	....	73	....	.180	.....	1.29	.76	5.2	.....	4.7
May	28.712	29.071	28.166	56.7	.....	74.8	53.2	64.0	87	38	51	....	82	....	.387	.....	1.27	.59	6.2	.....	5.8
June	28.705	29.042	28.378	59.5	.....	75.2	55.9	65.6	94	41	54	....	83	....	.430	.....	2.22	.51	6.2	.....	5.8
July	28.727	29.159	28.466	66.9	.....	82.9	64.0	73.4	92	50	62	....	86	....	.566	.....	5.03	1.60	4.8	.....	4.8
August	28.767	29.009	28.534	63.1	.....	78.7	60.9	69.8	95	46	59	....	88	....	.514	.....	2.19	.78	5.8	.....	6.7
September	28.750	29.131	28.448	51.2	.....	70.9	48.9	59.9	86	30	46	....	82	....	.318	.....	4.49	2.70	4.7	.....	4.8
October	28.784	29.046	28.439	45.4	.....	65.3	43.7	54.5	80	27	40	....	81	....	.254	.....	.63	.39	3.9	.....	5.0
November	28.762	29.075	28.418	32.7	.....	45.5	29.5	37.5	62	10	30	....	87	....	.171	.....	.16	.05	4.3	.....	6.2
December	28.862	29.392	28.216	14.8	.....	24.7	10.7	17.7	46	−15	12	....	88	....	.060	.....	1.43	.64	6.0	.....	6.5
Year	28.771	29.499	27.750	41.0	.....	57.0	38.1	47.5	95	−21	36	....	84	....	.269	.....	20.34	2.70	5.1	.....	5.4

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SCRANTON, PA.

[H=805 ft.; h_t=111 ft.; h_r=102 ft.; h_a=119 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.7	SW.	31	NE.	0	7	9	8	4	5	14	2	13	0	4	12	15	10	8	7	0	0	11	0	30	0	0
February	9.8	NE.	48	NW.	2	8	19	3	1	1	6	7	11	0	4	9	15	13	7	10	0	0	17	0	24	1	0
March	9.1	N.	35	W.	0	19	14	2	3	6	13	1	4	0	5	9	17	13	12	5	0	2	3	0	13	0	0
April	9.2	SW.	42	W.	1	7	13	3	5	0	17	7	8	0	4	10	16	12	9	2	0	0	0	0	3	0	0
May	7.9	SW.	30	NW.	0	14	9	4	2	7	18	2	6	0	9	15	7	10	8	0	0	0	0	0	0	4	0
June	7.4	NW.	39	SW.	0	10	12	2	1	5	12	6	12	0	7	14	9	19	13	0	1	0	0	0	0	7	0
July	6.0	SW.	32	SW.	0	9	6	1	4	6	23	6	7	0	5	12	14	16	13	0	2	0	0	0	0	11	0
August	5.5	NE.	31	N.	0	12	14	3	2	4	15	2	7	3	7	15	9	10	8	0	1	0	0	0	0	6	0
September	6.3	NE.	32	NW.	0	8	18	8	3	6	12	3	1	1	10	7	13	12	10	0	0	0	0	0	0	0	0
October	7.2	SW.	30	SW.	0	7	14	7	0	5	18	4	7	0	10	7	14	11	8	1	0	1	0	0	3	0	0
November	6.6	SW.	32	NW.	0	7	18	7	5	2	16	1	3	1	4	11	15	7	7	1	0	5	0	0	9	0	0
December	8.3	SW.	32	W.	0	8	14	2	2	4	19	8	5	0	5	6	20	13	12	10	0	1	11	0	26	0	0
Year	7.6	SW.	48	NW.	3	116	160	50	32	51	183	49	84	5	74	127	164	146	115	36	4	9	42	0	108	29	0

SEATTLE, WASH.

[H=123 ft.; h_t=114 ft.; h_r=107 ft.; h_a=151 ft.]

January	6.8	SE.	40	NW.	1	8	12	4	13	17	3	0	5	0	6	8	17	20	15	4	0	3	3	0	9	0	0
February	7.9	SE.	35	SW.	0	7	1	3	18	16	4	5	2	0	2	10	16	21	18	1	0	1	0	0	1	0	0
March	8.9	S.	34	SW.	0	5	2	5	15	17	13	1	4	0	3	14	14	19	15	1	1	0	0	0	1	0	0
April	7.4	S.	46	SW.	1	8	2	5	6	17	8	8	6	0	4	18	8	16	9	1	0	0	0	0	0	2	0
May	6.7	S.	37	SW.	0	11	3	3	6	26	4	4	4	1	2	20	9	17	13	0	0	0	0	0	0	2	0
June	6.6	S.	24	W.	0	5	6	7	9	11	6	7	8	1	7	16	7	9	7	0	1	0	0	0	0	1	0
July	6.5	N.	48	W.	1	12	12	4	6	9	2	10	6	1	13	9	9	9	7	0	0	0	0	0	1	2	0
August	5.9	N.	22	N.	0	10	8	5	12	2	3	1	21	0	20	6	5	4	4	0	0	0	0	0	0	0	0
September	5.8	SE.	31	S.	0	9	6	9	12	3	1	1	18	1	17	7	6	9	7	0	0	5	0	0	0	0	0
October	5.1	SE.	26	S.	0	7	6	5	19	6	3	7	8	1	7	10	14	15	13	0	0	4	0	0	0	0	0
November	8.9	SE.	38	SE.	0	5	3	10	30	8	0	2	2	0	0	10	20	21	20	0	1	2	0	0	0	1	0
December	8.7	SE.	36	SE.	0	6	4	9	29	9	1	2	2	0	2	10	19	23	17	1	0	1	0	0	2	0	0
Year	7.1	SE.	48	W.	3	93	65	69	175	141	48	48	86	5	83	138	144	183	145	8	3	17	3	1	13	8	0

SHREVEPORT, LA.

[H=249 ft.; h_t=77 ft.; h_r=77 ft.; h_a=84 ft.]

January	7.2	SE.	36	W.	0	5	10	2	14	9	5	4	13	0	9	9	13	10	8	0	0	1	1	0	13	1	0
February	8.1	NW.	36	S.	0	8	6	6	10	6	4	5	11	0	9	6	13	7	5	1	0	2	0	0	8	1	0
March	9.0	SE.	33	S.	0	4	4	9	11	8	6	10	10	0	12	10	9	10	9	0	0	3	0	0	0	3	0
April	7.8	S.	40	SW.	1	6	8	7	12	19	2	3	3	0	13	7	10	9	7	0	0	0	0	0	0	7	0
May	7.2	SE.	30	SE.	0	2	8	7	23	13	4	1	4	0	9	13	9	12	7	0	0	0	0	6	0	8	0
June	7.0	S.	38	SE.	0	1	9	3	17	23	5	2	0	0	23	5	2	3	3	0	0	0	0	24	0	2	0
July	5.8	SE.	25	SE.	0	4	7	4	20	18	4	3	2	0	9	14	8	13	11	0	0	0	0	17	0	15	0
August	4.4	SW.	16	NE.	0	2	6	8	11	9	16	8	2	0	21	10	0	1	0	0	0	0	0	30	0	3	0
September	5.9	SE.	32	N.	0	6	12	7	16	4	3	5	5	2	12	10	8	11	11	0	0	0	0	5	0	6	0
October	5.3	SE.	22	NW.	0	9	7	8	23	6	1	6	2	0	17	9	5	3	3	0	0	0	0	0	0	2	0
November	7.1	SE.	37	SE.	0	1	6	5	27	6	2	8	5	0	6	11	13	13	9	0	0	1	0	0	0	2	0
December	7.4	SE.	28	W.	0	6	9	5	16	5	5	3	13	0	10	8	13	7	6	1	0	0	0	0	4	2	0
Year	6.8	SE.	40	SW.	1	54	92	71	200	126	57	58	70	2	150	112	103	99	79	2	0	7	1	82	25	52	0

SIOUX CITY, IOWA.

[H=1,135 ft.; h_t=96 ft.; h_r=86 ft.; h_a=164 ft.]

January	10.9	NW.	38	NW.	0	1	2	1	6	7	0	1	13	0	19	7	5	5	8	5	0	0	11	0	30	0	0
February	11.7	NW.	46	NW.	2	1	0	3	9	2	0	1	12	0	10	7	11	4	2	3	0	0	19	0	26	0	0
March	18.3	NW.	58	NW.	10	1	2	3	8	5	1	1	10	0	8	11	12	12	5	5	0	0	4	0	15	2	0
April	14.4	NW.	74	N.	4	3	3	1	8	4	0	1	10	0	11	12	7	7	4	1	0	0	0	0	10	3	0
May	15.0	SE.	50	S.	5	2	0	4	10	5	4	1	5	0	7	14	10	13	9	0	2	0	0	0	0	4	0
June	12.4	NE.	48	W.	2	3	3	2	6	4	1	0	6	0	8	10	12	15	13	0	0	0	0	1	0	6	0
July	10.9	S.	47	S.	3	6	2	1	9	9	1	0	3	0	13	11	7	14	12	0	0	0	0	5	0	11	0
August	10.6	NE.	38	NW.	0	0	3	4	7	4	1	1	6	0	4	15	12	17	12	0	0	0	0	1	0	6	0
September	13.7	NW.	41	NW.	1	2	3	0	6	8	0	2	9	0	13	5	12	6	5	0	0	2	0	0	2	3	0
October	10.8	NW.	38	NW.	0	2	6	0	4	7	0	1	10	1	11	12	8	4	3	0	0	1	0	0	2	1	0
November	12.3	NW.	42	S.	2	2	2	0	4	8	1	1	12	0	8	7	15	7	1	3	0	2	1	0	18	0	0
December	12.6	NW.	50	NW.	2	1	6	1	2	5	4	0	12	0	9	5	17	9	7	7	0	0	24	0	30	0	0
Year	12.8	NW.	74	N.	31	24	42	20	79	68	13	10	108	1	121	116	128	113	76	24	2	5	59	7	133	36	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SPOKANE, WASH.

[λ=47° 40′ N.; φ=117° 25′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	28.145	28.510	27.750	25.3	30.9	34.1	21.5	27.8	54	−12	22	24	86	74	.133	.143	1.29	.37	7.4	6.5	7.1
February	27.877	28.280	27.144	32.0	39.1	42.8	29.7	36.0	52	− 6	28	31	85	74	.160	.180	3.71	.70	8.5	8.9	8.7
March	27.866	28.294	27.397	33.3	45.4	48.1	31.5	39.8	61	22	27	25	78	46	.147	.134	.87	.20	6.4	7.6	7.7
April	27.921	28.262	27.273	38.5	53.5	57.0	36.2	46.6	68	29	31	30	74	42	.173	.171	1.80	.63	7.1	8.1	7.7
May	27.871	28.125	27.580	47.1	62.6	65.1	45.8	55.4	85	38	41	40	81	47	.264	.256	1.83	.31	7.0	8.4	8.1
June	27.921	28.189	27.656	49.9	69.9	72.4	49.0	60.7	87	40	41	36	72	30	.257	.217	.45	.31	4.7	5.7	6.3
July	27.936	28.186	27.545	53.8	75.1	77.0	52.8	64.9	94	44	45	42	72	34	.297	.266	1.71	.92	4.6	5.4	5.1
August	27.957	28.199	27.649	53.7	79.3	81.4	51.9	66.6	94	40	42	38	68	25	.278	.232	.38	.18	3.7	3.5	3.7
September	27.975	28.273	27.629	46.3	68.8	72.0	44.1	58.0	89	32	36	34	70	30	.214	.196	.57	.36	3.1	4.2	4.8
October	27.994	28.221	27.694	42.2	59.6	62.7	39.9	51.3	76	31	39	40	88	51	.237	.254	.19	.17	4.4	6.2	6.1
November	27.899	28.337	27.490	34.3	38.9	41.8	31.9	36.8	50	20	31	34	88	82	.174	.194	4.12	1.41	6.5	8.1	8.5
December	27.982	28.370	27.514	29.3	32.2	35.0	26.8	30.9	46	18	27	28	90	85	.145	.154	2.31	.40	8.3	9.3	9.2
Year	27.947	28.510	27.144	40.5	51.6	57.4	38.4	47.9	94	−12	34	34	79	52	.207	.200	19.23	1.41	6.0	6.8	6.9

SPRINGFIELD, ILL.

[λ=39° 48′ N.; φ=89° 39′ W.]

January	29.484	30.126	29.063	23.6	29.0	34.8	20.8	27.8	57	− 8	18	18	77	62	.108	.105	1.01	.56	5.5	3.3	5.0
February	29.345	29.722	28.108	14.8	24.4	28.3	13.0	20.6	50	− 6	11	16	84	71	.082	.102	1.01	.50	5.8	4.8	5.4
March	29.276	29.867	28.560	38.0	45.1	49.9	35.7	42.8	71	10	32	36	77	72	.191	.236	3.73	1.19	6.4	6.7	6.9
April	29.304	29.578	28.709	43.9	56.4	60.6	40.8	50.7	87	26	35	39	71	53	.213	.255	3.03	1.53	4.5	5.2	5.0
May	29.302	29.552	28.984	61.9	72.5	78.9	57.8	67.9	91	44	55	61	79	68	.458	.554	1.80	1.03	5.9	5.5	5.8
June	29.234	29.513	28.818	64.5	73.8	78.8	60.1	69.4	94	47	58	62	81	68	.501	.569	10.10	3.59	5.9	6.7	6.2
July	29.327	29.566	29.177	71.4	80.9	86.4	67.0	76.7	94	55	66	67	82	64	.687	.678	1.41	.83	3.8	4.7	4.5
August	29.307	29.509	29.097	66.7	74.8	81.8	62.9	72.1	91	53	61	64	86	71	.551	.612	5.12	1.71	5.8	5.5	5.5
September	29.306	29.615	28.896	56.4	64.6	72.1	52.9	62.5	84	38	52	53	86	69	.401	.423	2.30	.77	5.4	6.2	5.7
October	29.349	29.683	28.767	50.2	60.2	67.9	48.1	58.0	78	34	45	46	83	61	.311	.325	2.15	1.39	4.5	2.9	4.0
November	29.340	29.598	28.980	46.0	49.6	56.4	41.5	49.0	76	26	42	42	86	76	.279	.285	2.82	1.28	7.0	5.4	6.3
December	29.409	29.955	28.478	25.7	29.9	34.5	22.7	28.6	54	0	21	26	83	83	.124	.147	2.23	.51	6.2	6.1	6.7
Year	29.332	30.126	28.108	46.8	55.1	60.8	43.6	52.2	94	− 8	41	44	81	68	.321	.358	36.71	3.59	5.6	5.2	5.6

SPRINGFIELD, MO.

[λ=37° 12′ N.; φ=93° 18′ W.]

January	28.747	29.180	28.222	28.2	34.7	39.9	24.8	32.4	66	− 1	25	28	87	75	.142	.158	1.12	.37	4.8	3.5	4.6
February	28.585	29.024	27.574	21.6	30.0	33.1	18.6	25.8	51	− 3	19	24	88	76	.111	.134	2.18	.72	5.6	4.7	5.6
March	28.540	29.078	27.990	40.1	49.4	54.3	37.4	45.8	73	17	36	38	84	66	.225	.244	5.05	3.33	5.3	4.7	4.8
April	28.584	28.839	28.212	48.0	59.9	63.5	45.3	54.4	84	30	42	46	81	64	.280	.330	3.68	.96	4.1	5.6	4.6
May	28.573	28.757	28.142	63.9	74.5	78.5	60.6	69.6	88	47	59	60	85	62	.514	.529	4.26	1.22	4.7	5.3	4.1
June	28.533	28.844	28.114	67.1	75.5	79.8	63.5	71.6	93	50	63	66	87	74	.583	.650	9.12	3.05	4.7	4.0	4.3
July	28.638	28.839	28.454	70.7	80.1	84.4	67.7	76.0	92	59	68	69	91	70	.686	.713	4.04	1.60	3.2	3.9	3.2
August	28.592	28.805	28.401	69.9	80.8	84.7	66.6	75.6	93	57	67	70	90	70	.664	.732	4.80	1.23	4.0	3.7	3.8
September	28.603	28.982	28.302	56.7	66.5	72.7	54.0	63.4	84	38	53	56	87	70	.412	.458	4.47	1.10	4.5	4.8	3.8
October	28.645	28.905	28.179	51.7	63.4	70.1	50.4	60.2	80	35	47	50	84	63	.331	.364	3.04	1.59	3.1	2.0	2.7
November	28.611	28.862	28.187	47.1	52.6	57.8	44.4	51.1	78	28	45	46	93	78	.318	.326	4.20	1.28	5.8	5.9	6.9
December	28.671	29.124	27.814	29.8	34.7	39.5	26.3	32.9	60	2	28	30	91	82	.164	.170	3.34	1.12	5.2	5.8	6.3
Year	28.610	29.180	27.574	49.6	58.5	63.2	46.6	54.9	93	− 3	46	49	87	71	.369	.401	49.30	3.33	4.6	4.5	4.5

SYRACUSE, N. Y.[a]

[λ=43° 2′ N.; φ=76° 10′ W.]

January																					
February																					
March																					
April																					
May																					
June																					
July																					
August																					
September	29.404	29.715	29.004	59.5	.....	70.6	53.3	62.0	82	41	52	....	78	....	.406	.....	1.55	.32	4.5	....	5.5
October	29.393	29.802	28.924	47.6	.....	57.5	42.1	49.8	73	30	42	....	80	....	.276	.....	3.28	.71	6.3	.....	6.9
November	29.405	29.858	28.857	43.6	.....	52.8	38.0	45.4	71	21	36	....	77	....	.224	.....	1.53	.42	6.6	.....	6.7
December	29.393	30.028	28.790	23.0	.....	30.8	16.8	23.8	52	−11	19	....	84	....	.107	.....	3.68	1.42	7.9	.....	7.6
Year																					

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

SPOKANE, WASH.

[H=1,929 ft.; h_t=101 ft.; h_r=94 ft.; h_a=110 ft.]

Month.	Wind.														Number of days.													
	By self-register.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	5.0	NE.	30	SW.	0	5	15	8	6	11	10	5	2	0	6	7	18	11	6	6	0	1	11	0	24	0	0
February	4.6	E.	20	SW.	0	1	11	15	6	11	9	1	2	0	2	3	23	20	19	9	0	2	2	0	11	0	0
March	7.3	S.	33	SW.	0	4	10	1	8	19	14	6	0	0	2	8	21	13	9	4	1	0	0	0	14	0	0
April	6.2	SW.	39	SW.	0	1	8	8	6	11	19	6	1	0	3	6	21	12	8	1	0	0	0	0	5	2	0
May	6.1	SW.	24	SW.	0	2	3	9	3	15	18	7	4	1	4	4	23	15	13	0	0	1	0	0	0	3	0
June	6.4	SW.	28	SW.	0	2	12	9	5	12	14	6	0	0	4	15	11	7	2	0	0	0	0	0	0	3	0
July	7.4	SW.	52	W.	2	2	8	8	3	16	18	2	4	1	10	12	9	5	5	0	0	0	0	4	0	0	0
August	5.5	SW.	30	W.	0	4	8	10	5	10	16	7	1	1	18	8	5	4	3	0	0	0	0	4	0	0	0
September	5.7	SW.	28	W.	0	5	8	9	5	9	12	9	3	0	13	9	8	4	4	0	0	0	0	0	0	0	0
October	4.0	NE.	26	SW.	0	2	20	10	2	16	10	0	1	1	8	8	15	2	1	0	0	2	0	0	1	0	0
November	7.4	S.	36	S.	0	6	8	8	4	16	11	5	2	0	1	4	25	18	14	7	0	1	2	0	12	0	0
December	5.7	S.	38	SW.	0	7	9	14	5	15	8	2	2	0	0	3	28	16	10	10	0	1	10	0	25	0	0
Year	5.9	SW.	52	W.	2	41	120	109	58	161	159	56	22	4	71	87	207	127	94	37	1	8	25	8	92	5	0

SPRINGFIELD, ILL.

[H=644 ft.; h_t=82 ft.; h_r=76 ft.; h_a=93 ft.]

January	9.6	NW.	29	SE.	0	8	5	4	4	1	13	6	21	0	12	10	9	7	5	7	0	0	11	0	27	0	0
February	9.5	NW.	32	NW.	0	4	7	5	6	6	5	3	20	0	11	7	10	9	5	8	0	0	20	0	24	0	0
March	12.0	S.	36	W.	0	6	5	3	9	14	5	6	15	0	5	12	14	11	7	2	2	1	3	0	10	4	0
April	10.9	NW.	48	W.	1	7	7	2	6	8	5	8	17	0	11	11	8	10	7	0	1	0	0	0	3	8	0
May	9.7	SW.	31	S.	0	3	3	8	5	12	17	8	6	0	9	8	14	14	8	0	0	0	0	1	0	10	0
June	8.8	SW.	42	N.	1	6	9	4	9	9	11	5	7	0	8	8	14	15	13	0	0	0	0	4	0	11	0
July	7.7	SW.	35	NE.	c	1	6	2	3	6	29	9	6	0	10	16	5	7	5	0	0	1	0	8	0	10	0
August	7.3	E.	38	W.	0	4	6	19	3	5	6	7	7	0	9	12	10	11	8	0	0	1	0	2	0	8	0
September	8.3	S.	30	NW.	0	5	5	2	6	14	7	9	12	0	10	7	13	12	10	0	0	2	0	0	0	4	0
October	8.7	SW.	37	SE.	0	2	5	7	4	12	17	8	7	0	15	7	9	9	7	0	0	0	0	0	0	1	0
November	9.7	SW.	30	W.	0	2	5	3	4	17	15	4	10	0	5	14	11	10	7	0	0	1	0	0	5	2	0
December	10.7	SW.	33	NW.	0	5	8	5	4	5	14	9	12	0	8	4	19	14	12	4	0	1	10	0	23	1	0
Year	9.4	SW.	48	W.	2	53	71	64	68	109	144	81	140	0	113	116	136	129	94	21	3	7	44	15	92	59	0

SPRINGFIELD, MO.

[H=1,324 ft.; h_t= 98 ft.; h_r=3 ft.; h_a=104 ft.]

January	10.7	NW.	39	SE.	0	7	5	4	12	10	5	7	12	0	15	6	10	8	7	7	0	1	8	0	23	0	0
February	11.1	NW.	30	SE.	0	9	8	4	11	4	1	6	13	0	8	10	10	9	6	7	0	0	13	0	24	1	0
March	13.9	SE.	42	W.	2	3	4	4	23	5	1	8	14	0	16	4	11	11	6	0	1	2	0	0	10	4	0
April	11.3	SE.	42	W.	2	11	3	5	19	7	3	3	9	0	13	10	7	11	9	0	1	1	0	0	2	5	0
May	10.1	S.	41	SW.	1	4	5	3	20	21	4	3	2	0	15	11	5	12	11	0	0	0	0	0	0	9	0
June	10.3	S.	34	N.	0	7	4	4	15	18	7	1	4	0	15	9	6	12	10	0	0	0	0	3	0	13	0
July	8.8	S.	35	W.	0	2	6	0	11	31	4	5	3	0	20	10	1	7	7	0	0	0	0	3	0	11	0
August	8.8	SE.	41	NW.	1	7	6	5	20	6	14	1	3	0	19	8	4	9	9	0	0	0	0	9	0	9	0
September	10.0	SE.	33	N.	0	6	5	3	23	5	6	3	9	0	19	4	7	14	13	0	0	0	0	0	0	4	0
October	10.3	SE.	36	SW.	0	5	4	1	18	17	7	3	7	0	22	5	4	8	7	0	0	0	0	0	0	3	0
November	11.2	SE.	36	SE.	0	6	4	0	28	8	3	2	9	0	8	3	19	12	11	0	0	2	0	0	3	0	0
December	11.3	NW.	27	W.	0	4	5	3	10	11	6	9	14	0	11	3	17	11	9	1	0	1	5	0	23	1	0
Year	10.6	SE.	42	W.	6	71	59	36	210	143	61	51	99	0	181	83	101	124	105	15	2	7	26	15	85	60	0

SYRACUSE, N. Y.

[H=597 ft.; h_t=97 ft.; h_r=65 ft.; h_a=113 ft.]

January																											
February																											
March																											
April																											
May																											
June																											
July																											
August																											
September	10.9	S.	58	SE.	2	3	3	8	9	21	3	9	4	0	10	11	9	14	6	0	0	1	0	0	0	1	0
October	13.0	S.	54	S.	4	1	1	6	4	17	12	13	8	0	2	14	15	14	9	1	0	0	0	0	5	6	0
November	12.9	S.	48	NW.	2	3	4	5	4	19	13	6	6	0	5	9	16	13	10	4	1	0	1	0	9	0	0
December	13.5	SW.	58	S.	4	5	4	5	5	11	13	12	7	0	2	11	18	19	18	14	0	0	16	0	29	0	0
Year																											

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

TACOMA, WASH.[a]

[λ=47° 16′ N.; φ=122° 23′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.931	30.354	29.442	35.9	.....	43.8	33.1	38.4	57	15	35	....	95	....	.208	.....	6.21	1.46	7.4	.....	7.8
February	29.589	30.002	28.914	42.0	.....	51.5	38.9	45.2	65	28	40	....	92	....	.247	.....	7.78	1.76	8.4	.....	8.3
March	29.752	30.208	29.146	39.2	.....	49.9	37.6	43.8	64	29	36	....	90	....	.216	.....	5.00	1.21	8.4	.....	7.7
April	29.776	30.166	29.011	41.9	.....	56.4	40.0	48.2	71	33	40	....	93	....	.250	.....	2.96	.57	7.9	.....	7.2
May	29.756	29.968	29.627	48.6	.....	62.2	47.8	55.5	82	41	46	....	91	....	.312	.....	1.83	.51	8.3	.....	7.3
June	29.799	29.986	29.601	51.1	.....	68.0	50.2	59.1	86	42	46	....	84	....	.311	.....	1.87	.92	6.7	.....	5.6
July	29.827	30.040	29.556	53.3	.....	71.9	52.7	62.3	94	46	50	....	89	....	.360	.....	1.91	.94	5.8	.....	5.5
August	29.845	30.072	29.684	53.7	.....	73.4	52.4	62.9	88	46	50	....	88	....	.361	.....	.20	.12	4.1	.....	3.7
September	29.840	30.102	29.508	50.1	.....	65.9	48.1	57.0	77	36	46	....	88	....	.318	.....	2.75	1.10	3.7	.....	5.3
October	29.802	30.074	29.463	48.0	.....	59.8	46.1	53.0	79	39	47	....	96	....	.324	.....	2.88	.60	5.6	.....	7.9
November	29.726	30.269	29.247	42.3	.....	48.9	39.9	44.4	58	30	40	....	94	....	.255	.....	10.84	2.20	8.7	.....	9.4
December	29.765	30.153	29.382	38.8	.....	45.2	36.1	40.6	60	29	37	....	93	....	.220	.....	10.44	1.73	7.3	.....	9.8
Year	29.784	30.354	28.914	45.4	.....	58.2	43.6	50.9	94	15	43	....	91	....	.282	.....	54.67	2.20	6.9	.....	7.1

TAMPA, FLA.

[λ=27° 57′ N.; φ=82° 27′ W.]

January	30.119	30.361	29.772	49.1	57.8	67.0	47.4	57.2	80	30	46	49	90	73	.329	.357	.28	.24	3.5	3.2	3.7
February	29.941	30.216	29.445	51.0	56.7	64.3	48.0	56.2	78	34	46	46	84	70	.331	.339	5.72	4.06	5.9	5.0	6.0
March	30.010	30.325	29.672	61.4	66.4	74.6	57.9	66.2	81	41	55	57	80	73	.464	.498	1.91	.76	5.6	4.1	5.0
April	29.991	30.211	29.777	64.4	69.8	79.6	60.2	69.9	88	50	57	58	78	69	.485	.506	1.07	.58	4.5	1.9	3.9
May	29.967	30.134	29.783	73.9	77.5	87.8	68.5	78.2	92	64	68	66	81	70	.677	.654	4.11	3.36	4.2	4.9	5.8
June	29.919	30.101	29.680	77.2	80.2	88.6	71.6	80.1	93	66	71	70	82	71	.765	.725	6.43	2.28	4.1	5.8	5.0
July	30.027	30.187	29.908	79.2	80.0	90.1	72.8	81.5	96	68	72	72	80	76	.797	.771	7.64	2.96	3.3	6.4	6.1
August	29.952	30.071	27.799	79.2	80.7	89.7	73.7	81.7	94	68	73	72	83	76	.825	.790	7.35	1.39	4.8	5.8	5.4
September	29.949	30.067	29.828	76.7	77.3	87.1	72.3	79.7	91	69	73	73	88	86	.811	.801	10.14	3.47	5.7	6.2	6.7
October	29.942	30.293	29.714	71.8	75.2	83.1	68.6	75.8	92	50	67	68	86	79	.686	.695	3.37	1.44	6.2	5.0	6.0
November	30.000	30.205	29.693	64.9	70.1	78.0	61.8	69.9	85	42	62	62	90	77	.565	.572	.97	.54	6.0	2.3	4.9
December	30.073	30.301	29.728	54.9	62.4	71.1	52.5	61.8	81	29	51	53	86	72	.410	.429	1.39	.84	4.5	1.5	3.0
Year	29.990	30.361	29.445	67.0	71.1	80.1	62.9	71.5	96	29	62	62	84	74	.595	.595	50.38	4.06	4.9	4.3	5.1

TATOOSH ISLAND, WASH.

[λ = 48° 23′ N.; φ = 124° 44′ W.]

January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
September	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
November	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December	29.785	30.299	29.225	41.9	43.4	46.9	38.8	42.4	54	34	39	39	90	85	.241	.241	11.97	2.34	7.4	7.7	7.3
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TAYLOR, TEX.[a]

[λ=30° 35′ N.; φ=97° 20′ W.]

January	29.549	29.826	29.124	39.7	.....	58.5	35.6	47.0	75	18	34	....	81	.....	.215	.....	.51	.14	5.0	.....	5.6
February	29.384	29.843	28.624	41.9	.....	60.4	38.3	49.4	81	25	35	....	76	.....	.216	.....	.90	.64	6.9	.....	5.9
March	29.345	29.806	28.970	51.3	.....	72.6	48.5	60.6	87	30	41	....	71	.....	.291	.....	.72	.52	5.9	.....	5.0
April	29.344	29.648	29.185	61.9	.....	81.1	59.8	70.2	92	41	57	....	85	.....	.489	.....	2.38	1.99	7.5	.....	6.1
May	29.285	29.459	28.913	71.1	.....	86.5	68.3	77.4	95	60	68	....	88	.....	.679	.....	2.23	1.27	7.0	.....	5.1
June	29.266	29.528	28.814	74.0	.....	93.9	71.5	82.7	99	66	68	....	82	.....	.693	.....	1.04	.58	3.6	.....	3.2
July	29.375	29.520	29.230	74.9	.....	90.9	72.5	81.7	96	68	72	....	90	.....	.780	.....	7.98	3.85	5.1	.....	5.4
August	29.346	29.457	29.264	75.6	.....	95.6	74.3	85.0	100	72	72	....	88	.....	.777	.....	.00	.00	1.4	.....	2.1
September	29.344	29.703	29.199	67.5	.....	86.1	65.3	75.7	97	50	63	....	86	.....	.605	.....	7.27	3.68	4.5	.....	4.0
October	29.414	29.627	29.211	58.5	.....	80.0	57.3	68.6	89	46	55	....	89	.....	.461	.....	1.78	1.38	2.7	.....	3.0
November	29.382	29.575	29.129	56.9	.....	70.7	54.1	62.4	81	34	55	....	92	.....	.458	.....	6.29	2.18	6.7	.....	5.8
December	29.493	29.817	28.953	44.2	.....	59.3	41.0	50.2	79	31	40	....	83	.....	.258	.....	2.03	1.07	5.6	.....	5.1
Year	29.377	29.843	28.624	59.8	.....	78.0	57.2	67.6	100	18	55	....	84	....	.493	.....	33.13	3.85	5.2	.....	4.7

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

TACOMA, WASH.

[H=213 ft.; h_t=113 ft.; h_r=104 ft.; h_a=120 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction. a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a.m. and 8 p.m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	5.2	S.	40	N.	1	8	4	2	14	15	13	2	4	0	4	5	22	20	17	4	0	9	3	0	14	0	0
February	6.0	SW.	36	SW.	0	12	2	0	8	11	16	4	3	0	1	5	23	21	21	1	0	3	0	0	3	0	0
March	7.7	SW.	28	SW.	0	9	2	0	2	15	28	2	4	0	2	10	19	21	17	2	1	0	0	0	2	0	0
April	6.2	SW.	30	SW.	0	10	4	0	3	9	19	10	4	1	0	15	15	14	13	0	0	1	0	0	0	1	0
May	6.2	SW.	27	SW.	0	16	1	0	1	7	24	9	1	3	2	14	15	14	11	0	0	0	0	0	0	0	0
June	5.8	N.	22	NW.	0	20	2	1	3	3	15	9	5	2	8	12	10	9	5	0	0	0	0	0	0	0	0
July	6.1	N.	40	SW.	1	19	2	0	1	3	14	11	5	7	8	15	8	6	4	0	0	0	0	1	0	1	0
August	4.9	N.	18	N.	0	27	2	1	1	0	11	7	5	8	18	10	3	3	3	0	0	0	0	0	0	1	0
September	5.4	N.	30	SW.	0	25	4	2	3	3	12	3	1	7	10	12	8	10	8	0	0	5	0	0	0	0	0
October	3.5	SW.	19	SW.	0	11	8	1	6	5	18	4	6	3	3	6	22	12	11	0	0	11	0	0	0	0	0
November	7.2	SW.	30	SW.	0	8	4	1	6	16	21	0	2	2	0	1	29	23	19	0	1	2	0	0	2	0	0
December	6.7	SW.	30	SW.	0	12	1	2	7	17	21	2	0	0	0	0	31	23	19	3	0	5	0	0	3	0	0
Year	5.9	SW.	40	N.	2	177	36	10	55	104	212	63	40	33	56	105	204	176	148	10	3	36	3	1	24	3	0

TAMPA, FLA.

[H=34 ft.; h_t=60 ft.; h_r=51 ft.; h_a=67 ft.]

January	5.4	N.	30	S.	0	15	8	6	4	3	5	11	10	0	16	11	4	2	2	0	0	2	0	0	1	0	0
February	8.1	W.	49	S.	2	11	7	3	4	5	5	12	9	0	7	10	11	9	7	0	0	1	0	0	0	3	0
March	8.5	NE.	33	S.	0	4	13	11	5	10	4	11	4	0	9	14	8	6	6	0	0	1	0	0	0	3	0
April	6.0	W.	21	SW.	0	9	11	5	4	0	4	14	13	0	13	13	4	3	2	0	0	0	0	0	0	2	0
May	6.5	NE.	42	SE.	1	6	18	12	8	1	0	12	5	0	7	17	7	7	7	0	0	0	0	0	5	9	0
June	7.3	NE.	36	S.	0	0	22	3	7	3	9	11	5	0	8	17	5	12	9	0	0	0	0	0	14	6	0
July	5.4	SE.	38	S.	0	0	11	9	16	2	5	13	6	0	5	18	8	14	12	0	0	0	0	0	19	13	0
August	5.5	NE.	30	SW.	0	3	13	9	11	9	3	7	7	0	7	17	7	15	14	0	0	0	0	0	14	15	0
September	4.9	NE.	30	S.	0	5	21	9	9	3	6	4	3	0	4	13	13	19	16	0	0	0	0	0	3	13	0
October	6.6	NE.	30	SE.	0	10	25	4	6	3	4	3	7	0	7	11	13	9	7	0	0	0	0	0	1	3	0
November	6.9	NE.	27	S.	0	13	22	4	4	4	4	4	5	0	10	16	4	4	4	0	0	1	0	0	0	0	0
December	6.4	NW.	40	S.	1	8	10	7	6	3	4	2	22	0	18	9	4	3	2	0	0	2	0	0	2	1	0
Year	6.5	NE.	49	S.	4	84	181	82	84	46	53	104	96	0	111	166	88	103	88	0	0	7	0	56	3	68	0

TATOOSH ISLAND, WASH.

[H = 86 ft.; h_t = 7 ft.; h_r = 4 ft.; h_a = 57 ft.]

January																											
February																											
March																											
April																											
May																											
June																											
July																											
August																											
September																											
October																											
November																											
December	23.5	E.	76	SW.	20	2	0	16	9	12	9	7	7	0	3	10	18	27	25	1	1	0	0	0	0	0	0
Year																											

TAYLOR, TEX.

[H=583 ft.; h_t=55 ft.; h_r=48 ft.; h_a=63 ft.]

January	9.1	N.	33	N.	0	10	1	0	6	3	3	4	3	1	12	2	17	8	5	2	0	1	1	0	11	0	0
February	10.9	N.	39	NW.	0	7	0	1	1	7	3	3	6	0	9	6	13	5	5	1	0	2	0	0	8	1	0
March	11.7	N.	40	N.	1	9	1	1	5	5	2	4	4	0	13	6	12	5	3	0	0	1	0	0	1	2	0
April	11.8	S.	32	S.	0	7	1	2	4	13	2	1	0	0	7	13	10	4	2	0	0	1	0	0	3	4	0
May	11.7	SE.	37	SE.	0	3	0	0	15	11	1	0	0	1	10	14	7	7	5	0	0	0	0	0	7	4	0
June	12.8	S.	39	SE.	0	1	2	2	5	18	2	0	0	0	19	9	2	2	2	0	0	1	0	0	26	1	0
July	10.0	S.	38	E.	0	0	1	0	8	18	0	1	1	0	8	14	9	14	13	0	0	0	0	0	19	16	0
August	8.6	S.	27	S.	0	0	0	1	1	25	5	0	0	0	28	3	0	0	0	0	0	0	0	0	31	1	0
September	8.2	N.	46	E.	1	11	2	0	1	10	0	0	4	2	10	16	4	9	9	0	0	0	0	0	7	8	0
October	6.6	N.	25	NW.	0	6	2	5	2	5	5	2	4	0	17	11	3	5	3	0	0	0	0	0	0	3	0
November	8.5	SE.	29	SE.	0	4	4	1	8	6	1	1	5	0	7	11	12	16	13	0	0	0	0	0	0	6	0
December	8.8	NW.	30	S.	0	8	3	0	3	7	0	1	9	0	12	9	10	10	5	0	0	0	0	0	0	0	0
Year	9.9	S.	46	E.	2	66	17	13	59	128	24	17	36	5	152	114	99	85	65	3	3	7	1	93	24	46	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

TOLEDO, OHIO.

[λ=41° 40′ N.; φ=83° 34′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.423	30.178	29.027	22.4	27.5	32.0	19.3	25.6	44	1	18	20	81	72	.100	.109	.72	.30	5.8	6.3	5.3
February	29.278	29.760	28.215	17.5	24.2	28.9	14.8	21.8	54	− 7	14	17	86	74	.091	.102	.62	.22	6.5	6.4	5.9
March	29.290	29.747	28.569	35.9	41.3	47.3	32.4	39.8	69	11	30	32	79	70	.181	.194	2.76	1.12	5.8	5.2	5.2
April	29.263	29.587	28.670	42.9	50.4	57.2	39.3	48.2	84	25	34	35	72	57	.203	.208	.86	.39	6.5	4.8	5.7
May	29.354	29.629	29.088	55.7	61.6	69.5	50.1	59.8	90	36	47	49	72	64	.342	.368	4.72	1.24	5.2	4.1	3.9
June	29.248	29.567	28.716	61.2	67.3	74.0	56.4	65.2	91	44	52	55	74	67	.411	.453	6.19	1.67	6.3	6.4	5.0
July	29.328	29.570	29.092	70.6	76.1	83.3	65.8	74.6	92	52	63	64	77	67	.584	.604	4.01	.92	4.3	5.7	3.7
August	29.329	29.575	28.984	64.0	71.5	77.5	59.7	68.6	89	51	56	58	77	65	.468	.502	1.29	.70	4.7	3.7	4.0
September	29.327	29.641	28.917	57.4	63.9	71.1	54.2	62.6	83	39	52	54	84	74	.402	.439	6.51	2.04	5.7	4.2	5.5
October	29.373	29.830	28.852	48.7	54.4	61.5	45.2	53.4	77	32	44	45	83	72	.294	.316	1.98	.86	6.6	3.9	5.4
November	29.356	29.679	28.820	43.9	48.3	54.5	40.8	47.6	72	25	38	40	81	74	.242	.262	1.40	.46	7.5	4.4	6.1
December	29.382	29.860	28.578	26.0	27.7	33.5	21.4	27.4	49	5	22	23	84	82	.124	.129	2.25	.40	8.3	7.6	7.5
Year	29.329	30.178	28.215	45.5	51.2	57.5	41.6	49.6	92	− 7	89	41	79	70	.287	.307	33.31	2.04	6.1	5.2	5.3

TOPEKA, KANS.[a]

[λ=39° 03′ N.; φ=95° 41′ W.]

January							40.3	20.3	30.3	67	−10						1.56	.73			4.7
February							30.7	13.8	22.2	56	− 8						.51	.28			6.3
March							54.9	35.4	45.2	74	10						1.62	.51			5.5
April							65.6	42.2	53.9	94	26						.76	.51			5.1
May							78.8	59.0	68.9	89	43						4.43	1.42			5.8
June							78.3	61.4	69.8	96	49						4.64	1.23			5.8
July							86.5	67.4	77.0	96	57						3.87	2.08			4.7
August							86.1	66.4	76.2	100	52						6.01	1.44			4.9
September							73.5	52.4	63.0	86	39						3.56	2.05			4.5
October							70.8	48.3	59.6	82	32						2.26	1.87			3.4
November							55.9	38.3	47.1	74	20						2.13	.85			6.7
December							35.6	20.2	27.9	58	0						1.26	.52			6.6
Year							63.1	43.8	53.4	100	−10						32.61	2.08			5.3

VALENTINE, NEBR.

[λ=42° 50′ N.; φ=100° 32′ W.]

January	27.355	27.728	26.889	16.0	27.0	35.9	11.4	23.6	64	−26	12	16	84	64	.084	.096	.34	.32	1.1	2.8	3.3
February	27.196	27.665	26.416	16.3	26.9	32.9	11.1	22.0	64	−24	13	20	87	77	.094	.120	.20	.14	5.1	6.2	6.3
March	27.104	27.605	26.500	28.1	40.1	46.6	24.5	35.6	70	−12	22	26	79	61	.127	.147	1.07	.65	5.8	5.6	5.7
April	27.206	27.533	26.734	34.6	54.5	59.5	32.3	45.9	91	20	30	30	82	42	.167	.170	.77	.58	4.3	5.5	4.9
May	27.149	27.598	26.456	52.0	69.0	73.8	47.9	60.8	87	39	46	47	81	48	.320	.335	2.17	.88	5.5	4.4	3.9
June	27.188	27.619	26.787	56.7	70.8	75.4	51.8	63.6	100	32	51	51	80	52	.380	.391	1.89	.70	6.2	5.0	5.1
July	27.220	27.619	26.906	63.6	80.1	85.5	59.2	72.4	106	47	55	51	76	41	.447	.387	1.79	.88	3.7	4.2	3.5
August	27.253	27.466	26.932	61.1	74.9	80.6	57.9	69.2	96	41	56	58	85	58	.466	.484	2.93	.77	5.5	5.2	4.9
September	27.237	27.617	26.875	47.1	66.1	72.4	42.6	57.5	97	25	37	38	70	38	.230	.236	.25	.14	4.6	2.9	3.4
October	27.261	27.525	26.956	37.0	57.3	67.0	33.5	50.2	84	20	33	33	86	43	.195	.193	.39	.19	3.7	3.2	3.2
November	27.190	27.582	26.801	28.8	38.8	49.7	24.7	37.2	73	6	22	24	78	59	.121	.134	.53	.27	4.1	3.2	3.5
December	27.261	27.770	26.758	14.5	19.7	28.4	8.7	18.6	52	− 7	11	16	87	86	.072	.091	1.28	.44	5.5	4.6	5.4
Year	27.218	27.770	26.416	38.0	52.1	59.0	33.8	46.4	106	−26	32	34	81	56	.225	.232	13.61	.88	4.6	4.4	4.4

VICKSBURG, MISS.

[λ=32° 22′ N.; φ=90° 53′ W.]

January	29.905	30.191	29.459	39.7	47.5	53.2	37.1	45.2	74	26	32	34	75	63	.192	.210	2.32	.62	5.6	4.9	5.9
February	29.718	30.174	28.783	38.5	46.3	52.2	36.1	44.2	69	23	32	32	76	60	.190	.189	2.42	.90	6.4	5.3	6.3
March	29.710	30.214	29.130	52.4	61.8	67.5	49.9	58.7	78	34	44	45	74	58	.320	.334	12.26	7.12	6.5	5.5	5.5
April	29.731	29.973	29.541	59.0	70.6	76.1	57.2	66.6	85	46	51	50	76	50	.392	.382	2.74	1.42	5.3	4.1	4.2
May	29.712	29.860	29.369	70.2	78.0	85.5	66.4	76.0	93	55	64	64	84	66	.618	.615	3.18	1.70	5.1	5.9	5.6
June	29.658	29.865	29.462	75.6	86.5	91.1	72.0	81.6	97	60	68	67	78	52	.686	.669	.61	.55	2.6	1.8	3.0
July	29.761	29.890	29.644	75.4	82.4	90.5	72.2	81.4	96	67	70	70	85	69	.745	.746	6.68	2.33	4.0	6.8	5.3
August	29.682	29.801	29.581	76.8	85.9	92.8	74.8	83.8	99	71	72	73	86	66	.789	.802	1.03	.57	2.8	4.6	3.6
September	29.712	30.044	29.553	67.6	74.7	82.6	64.5	73.6	91	48	64	64	89	72	.620	.627	6.47	1.55	5.1	4.0	5.0
October	29.799	30.158	29.591	58.4	68.7	76.0	56.9	66.4	84	44	53	55	82	64	.420	.453	1.62	1.08	3.4	2.4	3.5
November	29.783	30.034	29.306	56.0	63.5	69.9	54.5	62.2	82	34	51	52	85	67	.397	.404	3.80	1.59	7.3	4.8	6.1
December	29.864	30.191	29.170	43.7	50.4	56.7	40.4	48.6	74	22	40	40	86	69	.266	.270	4.18	1.91	7.5	5.0	6.9
Year	29.753	30.214	28.783	59.4	68.0	74.5	56.8	65.7	99	22	53	54	81	63	.470	.474	47.31	7.12	5.1	4.6	5.1

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

TOLEDO, OHIO.

[H=628 ft.; h_t=120 ft.; h_r=112 ft.; h_s=127 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	11.2	W.	36	W.	0	4	8	1	5	5	14	17	8	0	12	10	9	5	4	5	0	0	17	0	31	0	0
February	10.3	SW.	38	SW.	0	6	6	5	4	5	11	11	8	0	8	9	11	8	5	6	0	0	20	0	24	0	0
March	12.5	W.	48	W.	3	3	9	6	7	8	8	14	7	0	11	10	10	11	9	1	0	0	4	0	11	0	0
April	11.3	W.	50	SW.	1	2	4	6	7	9	7	17	8	0	11	7	12	8	5	0	0	0	0	0	6	1	0
May	10.5	NE.	42	W.	2	2	10	14	7	1	12	8	8	0	18	9	4	13	9	0	0	0	0	0	0	8	0
June	10.4	SW.	38	NE.	0	2	12	5	6	6	10	11	8	0	10	15	5	13	13	0	1	0	0	1	0	9	0
July	8.3	SW.	33	S.	0	2	3	3	7	4	23	13	7	0	15	11	5	14	13	0	0	0	0	5	0	12	0
August	7.3	NE.	28	SW.	0	11	8	11	6	3	6	10	7	0	15	13	3	6	4	0	1	0	0	0	0	4	0
September	8.3	SW.	30	NE.	0	4	5	3	9	12	11	9	7	0	10	9	11	14	11	0	0	0	0	0	0	4	0
October	10.3	SW.	35	E.	0	6	7	4	5	7	14	14	4	1	11	9	11	8	7	0	1	0	0	0	1	3	0
November	10.4	SW.	35	SW.	0	5	5	2	7	15	13	9	4	0	11	5	14	10	8	2	0	1	0	0	5	0	0
December	12.6	SW.	36	W.	0	5	7	4	3	6	24	8	5	0	5	5	21	16	13	9	0	0	14	0	28	0	0
Year	10.3	SW.	50	SW.	6	52	84	64	73	81	153	141	81	1	137	112	116	126	101	23	3	1	55	6	106	41	0

TOPEKA, KANS.

[H= — ft.; h_t=81 ft.; h_r=73 ft.; h_s=89 ft.]

January	7.8	NW.	29	NW.	0	3	1	2	5	6	3	7	4	0	10	13	8	7	5	6	0	0	7	0	29	0	0
February	8.1	NW.	30	NW.	0	5	3	3	4	2	0	4	7	0	6	9	13	7	4	7	0	0	18	0	26	0	0
March	12.5	S.	37	S.	0	4	0	2	6	8	2	2	7	0	6	14	11	11	7	3	0	0	1	0	11	4	0
April	10.6	SE.	40	SW.	3	7	2	5	6	4	1	1	4	0	7	15	8	5	5	0	0	0	0	1	3	3	0
May	10.2	S.	44	SW.	1	5	1	5	4	12	1	2	0	1	5	20	6	14	12	0	2	1	0	0	0	10	0
June	9.6	S.	34	S.	0	6	3	2	3	15	0	0	1	0	7	13	10	11	8	0	0	1	0	3	0	7	0
July	9.0	S.	30	S.	0	3	1	0	4	19	0	2	2	0	11	17	3	12	8	0	0	0	0	7	0	7	0
August	7.9	S.	42	W.	1	1	5	4	9	10	0	0	2	0	8	17	6	11	11	0	0	0	0	11	0	12	0
September	9.2	S.	36	W.	0	9	0	2	4	9	2	2	2	0	13	8	9	8	6	0	0	0	0	0	0	2	0
October	9.1	S.	30	S.	0	2	2	4	3	13	3	0	4	0	16	11	4	5	4	0	0	1	0	0	0	2	0
November	9.3	S.	34	S.	0	8	1	2	2	12	2	1	2	0	3	12	15	10	8	0	0	0	0	0	8	0	0
December	9.2	S.	31	SW.	0	7	2	5	2	6	2	5	2	0	8	4	19	9	6	6	0	0	13	0	28	0	0
Year	9.4	S.	44	SW.	5	80	21	36	52	116	16	26	37	1	100	153	112	110	84	22	2	11	39	22	105	47	0

VALENTINE, NEBR.

[H=2,598 ft.; h_t=47 ft.; h_r=36 ft.; h_s=54 ft.]

January	8.5	W.	32	NW.	0	9	5	1	1	6	4	24	12	0	17	9	5	2	1	2	0	0	10	0	30	0	0
February	9.3	NW.	40	NW.	1	6	6	3	3	8	5	11	14	0	4	14	10	5	1	5	0	0	12	0	26	0	0
March	14.2	NW.	49	NW.	5	9	3	2	7	5	8	9	19	0	8	15	8	7	5	4	1	1	4	0	20	2	0
April	11.4	NW.	46	NW.	1	6	5	9	5	6	3	8	17	1	10	15	5	6	3	2	0	0	0	1	15	2	0
May	11.1	S.	46	W.	1	7	6	8	7	15	9	6	4	0	17	10	4	11	9	0	1	0	0	0	0	3	0
June	10.4	E.	39	S.	0	12	4	8	12	9	5	2	7	1	9	12	9	13	8	0	3	0	0	2	0	8	0
July	10.7	S.	46	NE.	2	7	6	4	9	16	6	5	8	1	19	8	4	10	7	0	2	0	0	8	0	6	0
August	11.2	E.	48	SE.	2	7	5	15	11	6	4	2	10	2	12	13	6	19	12	0	0	1	0	3	0	12	0
September	12.2	NW.	43	S.	1	9	3	3	8	7	7	6	17	0	17	8	5	4	2	0	0	0	0	1	4	2	0
October	8.7	W.	35	S.	0	4	5	4	3	6	5	19	14	2	20	7	4	5	4	0	0	0	0	0	11	0	0
November	10.9	NW.	41	NW.	1	2	5	3	5	12	9	6	17	1	16	7	7	6	8	4	0	1	2	0	25	0	0
December	11.2	NW.	39	NW.	0	7	2	7	7	3	7	11	18	0	10	10	11	11	6	11	0	0	19	0	31	0	0
Year	10.8	NW.	49	NW.	14	85	55	67	78	99	72	109	157	8	159	128	78	99	61	28	7	3	47	15	162	35	0

VICKSBURG, MISS.

[H=247 ft.; h_t=62 ft.; h_r=53 ft.; h_s=74 ft.]

January	6.8	NE.	30	NW.	0	10	11	4	11	7	4	5	10	0	9	7	15	13	9	1	0	2	0	0	7	0	0
February	8.5	NW.	40	NW.	1	10	6	9	8	4	4	4	11	0	7	7	14	7	7	0	0	1	0	0	9	2	0
March	9.7	SE.	38	SW.	0	7	5	10	15	7	4	2	12	0	11	9	11	9	9	0	0	0	0	0	0	7	0
April	7.6	S.	30	NW.	0	5	10	10	8	14	6	2	5	0	14	10	6	5	5	0	0	0	0	2	0	6	0
May	6.2	SE.	34	W.	0	3	8	7	22	12	5	4	1	0	6	18	7	6	6	0	0	0	1	0	0	8	0
June	6.6	SW.	30	S.	0	3	6	5	13	7	14	8	4	0	21	6	3	3	2	0	0	0	0	20	0	5	0
July	5.5	S.	36	NW.	0	7	4	6	10	16	9	6	4	0	4	20	7	13	11	0	0	0	0	19	0	17	0
August	5.1	SW.	18	NW.	0	6	7	3	6	7	17	7	9	0	17	10	4	6	4	0	0	0	0	24	0	7	0
September	5.9	E.	26	W.	0	10	10	14	9	6	4	3	4	0	13	5	12	14	13	0	0	0	1	2	0	7	0
October	6.0	E.	41	W.	1	9	7	28	11	3	1	2	6	0	18	6	7	3	3	0	0	0	1	0	0	2	0
November	7.2	E.	24	S.	0	3	5	17	15	7	3	4	6	0	8	10	12	8	7	0	0	0	0	0	0	1	0
December	7.0	SE.	33	NW.	0	6	10	4	18	6	4	3	10	1	6	8	17	9	9	0	0	0	1	0	4	1	0
Year	6.8	SE.	41	W.	2	79	89	112	146	96	75	50	82	1	134	116	115	96	85	1	0	7	0	67	20	63	0

a By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

WALLA WALLA, WASH.

[λ=46° 02′ N.; φ=118° 20′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.156	29.518	28.741	29.0	32.2	36.4	25.7	31.0	67	− 2	27	29	92	89	.160	.173	1.44	.45	6.8	6.9	6.8
February	28.847	29.283	28.086	36.0	42.9	46.4	32.9	39.6	68	0	32	38	86	84	.185	.237	2.58	.86	6.0	7.0	6.4
March	28.885	29.276	28.255	40.4	50.6	53.6	37.1	45.4	66	24	35	40	82	68	.206	.251	.69	.28	6.6	6.4	5.9
April	28.906	29.259	28.233	43.8	58.5	61.0	41.2	51.1	71	31	38	42	79	56	.229	.280	1.66	.97	5.4	5.6	5.0
May	28.849	29.026	28.561	50.3	65.2	67.6	48.4	58.0	87	39	45	50	83	60	.304	.367	2.68	1.09	6.4	6.3	5.7
June	28.885	29.098	28.663	54.4	75.1	77.1	52.1	64.6	92	43	48	58	81	57	.342	.501	.11	.07	4.4	3.7	3.8
July	28.895	29.143	28.513	59.5	81.5	82.4	57.1	69.8	100	46	51	58	74	48	.377	.508	1.35	1.20	3.3	2.5	2.9
August	28.907	29.182	28.606	61.2	84.6	85.8	58.8	72.3	99	47	50	58	69	42	.370	.481	.08	.07	2.6	2.1	2.0
September	28.947	29.239	28.621	54.1	78.8	76.1	50.5	63.3	92	38	46	55	74	56	.313	.458	.54	.30	2.7	2.6	3.6
October	28.951	29.213	28.636	48.9	63.6	67.3	45.8	56.6	80	37	44	52	85	67	.292	.389	.93	.44	3.4	4.4	3.8
November	28.909	29.404	28.440	40.3	44.1	48.9	37.6	43.2	64	28	37	39	90	84	.229	.244	4.37	.96	6.6	5.9	6.1
December	29.002	29.389	28.574	32.9	34.7	38.6	30.8	34.4	58	22	30	32	92	91	.171	.183	2.45	1.37	6.6	8.3	7.9
Year	28.928	29.518	28.086	45.9	58.9	61.8	43.1	52.4	100	− 2	40	46	82	67	.265	.329	18.88	1.37	5.1	5.1	5.0

WASHINGTON, D. C.

[λ=38° 54′ N.; φ=77° 03′ W.]

January	30.007	30.665	29.227	27.3	33.0	39.3	24.4	31.8	51	14	20	20	74	59	.114	.114	3.61	1.43	5.2	5.0	5.5
February	29.799	30.283	29.129	25.4	31.8	36.5	23.0	29.8	60	5	17	20	70	62	.111	.129	4.72	1.50	4.9	4.4	5.2
March	29.885	30.327	29.219	41.6	48.0	56.4	37.0	46.7	78	18	35	38	76	69	.217	.245	3.78	1.40	4.8	3.2	4.8
April	29.831	30.199	29.115	49.4	56.7	62.9	42.9	52.9	89	32	39	40	68	55	.246	.254	2.22	1.60	5.5	4.8	5.5
May	29.917	30.247	29.594	60.9	66.3	76.2	54.5	65.4	90	41	53	56	76	69	.419	.458	3.35	.82	3.9	6.3	4.3
June	29.810	30.356	29.378	69.0	74.2	82.4	61.3	71.8	94	46	58	59	69	61	.499	.519	3.70	1.38	3.4	4.7	4.1
July	29.897	30.143	29.675	74.4	77.7	87.3	66.7	77.0	99	57	65	65	74	67	.635	.633	2.54	.96	4.6	4.7	4.8
August	29.858	30.118	29.617	69.5	73.7	83.0	62.1	72.6	90	51	62	62	78	68	.568	.567	1.85	1.03	2.4	4.0	4.1
September	29.921	30.208	29.518	63.9	67.0	76.3	57.4	66.8	91	43	59	59	84	77	.511	.519	5.30	2.50	4.4	3.7	4.0
October	29.965	30.450	29.429	55.5	57.8	67.2	48.0	57.6	80	30	48	50	83	77	.351	.385	6.76	2.47	3.7	2.8	3.8
November	29.976	30.404	29.373	46.1	52.9	60.3	42.8	51.3	76	28	41	44	84	73	.270	.301	3.46	1.30	5.5	4.9	5.6
December	30.002	30.583	29.297	31.8	35.6	41.2	27.7	34.4	60	16	26	28	78	73	.145	.164	5.29	1.21	6.3	4.3	6.0
Year	29.905	30.665	29.115	51.1	56.2	64.1	45.6	54.8	99	5	44	45	76	68	.340	.357	46.58	2.50	4.6	4.4	4.8

WICHITA, KANS.

[λ=37° 41′ N.; φ=97° 20′ W.]

January	28.735	29.131	28.240	24.2	35.2	41.3	22.3	31.8	69	− 6	18	22	75	60	.101	.126	.32	.12	3.7	2.5	3.7
February	28.585	29.052	27.657	22.7	30.8	37.0	20.1	28.6	65	−12	17	22	79	69	.101	.120	.75	.32	5.9	4.1	5.5
March	28.505	29.095	28.042	38.9	51.7	56.9	37.5	47.2	77	12	30	31	70	49	.178	.187	2.79	.99	4.9	4.4	4.6
April	28.545	28.878	28.047	48.3	62.3	68.5	45.2	56.8	91	31	39	40	72	47	.251	.261	.87	.36	5.2	3.5	4.5
May	28.469	28.757	27.992	63.6	71.6	78.1	60.2	69.2	89	45	58	60	84	70	.499	.532	10.33	2.34	5.6	5.0	5.9
June	28.468	28.851	28.092	66.8	76.5	82.2	63.5	72.8	96	52	60	68	80	64	.524	.592	7.11	2.04	5.9	4.0	5.0
July	28.561	28.886	28.324	71.6	82.2	88.0	68.0	78.0	95	60	66	66	84	60	.649	.845	4.12	2.02	4.8	3.2	3.6
August	28.531	28.841	28.249	71.3	83.6	90.6	68.4	79.5	102	53	64	64	78	55	.596	.602	5.28	2.80	3.7	3.1	3.3
September	28.569	28.939	28.307	57.1	66.5	75.6	54.0	64.8	89	41	50	52	79	63	.380	.401	2.69	1.27	4.1	3.0	3.9
October	28.595	28.831	28.143	51.5	64.2	72.6	49.7	61.2	83	33	46	50	81	61	.315	.367	2.02	1.55	3.1	2.4	2.9
November	28.574	28.851	28.183	43.5	49.7	55.0	40.8	47.9	26	23	41	43	91	79	.280	.296	1.76	1.02	5.3	5.3	6.6
December	28.655	29.140	27.890	25.6	38.5	38.7	22.5	30.6	62	7	23	27	88	81	.128	.152	.69	.46	5.7	5.6	5.5
Year	28.568	29.140	27.657	48.8	58.9	65.4	46.0	55.7	102	−12	43	45	80	63	.334	.357	38.73	2.80	4.8	3.8	4.6

WILLISTON, N. DAK.

[λ=48° 09′ N.; φ=103° 35′ W.]

January	28.105	28.554	27.620	9.5	16.2	22.6	5.1	13.8	47	−24	6	12	83	82	.068	.096	.09	.05	2.7	2.5	3.6
February	28.006	28.551	27.235	7.9	14.2	19.0	2.5	10.8	41	−30	4	10	82	83	.061	.082	1.52	.38	6.2	6.0	5.8
March	27.898	28.434	27.488	21.0	28.1	33.4	17.5	25.4	49	−18	18	23	86	82	.110	.131	1.86	.45	6.1	6.1	5.7
April	27.986	28.296	27.627	30.8	48.1	52.4	28.5	40.4	72	18	27	34	86	62	.147	.204	.55	.43	3.1	4.4	4.3
May	27.881	28.376	27.271	48.3	63.2	67.7	44.5	56.1	87	33	44	48	86	61	.299	.348	2.69	1.28	5.1	4.6	4.5
June	27.928	28.243	27.473	51.4	63.6	67.4	47.6	57.5	86	39	47	48	85	58	.327	.343	3.92	.73	6.0	4.2	4.7
July	27.943	28.323	27.567	58.8	76.8	81.0	53.7	67.4	92	44	52	50	78	42	.390	.375	3.43	2.56	3.1	3.4	3.6
August	27.972	28.240	27.640	55.5	74.2	79.1	51.9	65.5	94	39	51	52	85	47	.388	.398	1.26	.37	2.6	3.3	3.5
September	27.926	28.318	27.483	41.7	62.9	69.3	38.0	53.6	86	18	34	35	74	38	.197	.205	.33	.30	2.6	3.9	3.8
October	27.993	28.269	27.681	33.2	48.9	57.0	29.6	43.3	78	22	28	31	79	53	.152	.174	.32	.17	4.3	3.5	4.4
November	27.903	28.357	27.464	21.2	28.0	34.7	16.5	25.6	56	3	15	19	77	68	.088	.104	.72	.26	6.6	5.5	6.2
December	28.031	28.644	27.560	1.7	5.7	15.4	−6.8	4.3	35	−28	−3	1	79	78	.042	.049	.68	.22	4.5	4.1	4.6
Year	27.964	28.644	27.235	31.8	44.2	49.9	27.4	38.6	94	−30	27	30	82	63	.189	.209	16.85	2.56	4.4	4.4	4.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

WALLA WALLA, WASH.

[H=1,000 ft.; h_t=65 ft.; h_r=56 ft.; h_a=73 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Wind. By self-register. Prevailing direction.a	Wind. By self-register. Maximum velocity.	Wind. By self-register. Direction at time of maximum velocity.	Wind. By self-register. Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	4.4	S.	27	W.	0	4	3	1	0	32	12	8	2	0	5	6	20	12	10	7	0	3	14	0	23	0	0
February	6.1	S.	30	SW.	0	3	2	0	1	33	13	2	2	0	4	13	11	18	14	1	0	4	3	0	11	0	0
March	8.3	S.	27	SW.	0	4	0	2	3	37	11	4	1	0	8	20	8	9	4	2	0	0	0	0	3	0	0
April	6.2	S.	33	SW.	0	1	2	4	5	25	15	7	1	0	7	22	1	8	7	0	0	0	0	0	2	0	0
May	6.1	S.	25	W.	0	5	0	3	4	35	6	6	3	0	5	19	7	12	11	0	1	0	0	0	0	0	0
June	5.8	S.	25	W.	0	4	0	3	4	24	11	14	9	0	13	17	0	3	1	0	0	0	0	1	0	0	0
July	6.2	S.	42	N.	1	5	1	4	2	24	12	9	5	0	24	5	2	3	3	0	0	0	0	10	0	0	0
August	5.1	S.	24	W.	0	4	1	1	5	27	15	6	3	0	25	6	0	2	1	0	0	0	0	8	0	0	0
September	4.9	S.	24	SW.	0	15	0	2	4	23	10	6	0	0	20	5	5	5	2	0	0	0	0	1	0	0	0
October	4.0	S.	20	W.	0	6	3	4	5	24	13	6	1	0	13	18	0	5	4	0	0	0	0	0	0	0	0
November	6.7	S.	32	S.	0	1	1	5	3	37	9	4	0	0	6	11	13	18	15	0	0	2	0	0	5	0	0
December	5.4	S.	32	S.	0	5	3	0	2	28	15	13	1	0	3	4	24	15	11	6	0	8	9	0	19	0	0
Year	5.8	S.	42	N.	1	57	16	29	38	344	142	85	19	0	128	146	91	110	83	16	1	17	26	20	63	0	0

WASHINGTON, D. C.

[H=112 ft.; h_t=59 ft.; h_r=42 ft.; h_a=76 ft.]

January	7.8	NW.	35	NW.	0	9	9	6	4	9	0	6	16	8	11	6	14	8	7	4	0	1	5	0	26	0	0
February	10.5	NW.	40	NW.	1	8	2	2	8	1	2	7	26	0	12	4	12	9	8	1	1	1	12	0	23	1	0
March	9.9	NW.	40	NW.	1	3	5	4	7	12	0	8	23	0	11	14	6	11	10	3	0	0	0	0	8	1	0
April	8.7	NW.	34	S.	0	3	7	2	8	14	1	8	17	0	7	17	6	8	6	0	0	0	0	0	1	2	0
May	6.7	S.	34	NW.	0	6	5	9	7	18	2	7	8	0	13	14	4	11	8	0	0	0	0	1	0	9	0
June	6.9	NW.	32	NW.	0	6	3	1	11	14	2	8	15	0	14	11	5	11	7	0	0	0	0	5	0	7	0
July	5.8	S.	34	N.	0	3	3	5	11	21	6	3	9	1	11	17	3	11	7	0	0	0	0	11	0	14	0
August	4.7	S.	34	NW.	0	8	3	9	7	14	3	5	13	0	11	16	4	9	7	0	0	0	1	1	0	9	0
September	5.1	NW.	29	NW.	0	3	11	7	6	12	2	2	14	3	13	14	3	12	10	0	0	0	1	1	0	3	0
October	6.0	NW.	30	NW.	0	6	10	3	3	14	3	4	16	3	18	7	6	7	6	0	0	0	1	0	0	1	0
November	6.0	S.	32	NW.	0	10	8	5	3	15	3	2	11	3	13	4	13	10	8	0	0	0	5	0	0	1	0
December	7.3	NW.	30	NW.	0	9	4	2	1	17	4	5	19	1	10	8	13	14	11	3	0	1	6	0	22	0	0
Year	7.1	NW.	40	NW.	2	74	70	55	76	161	28	65	187	14	144	132	89	121	95	11	1	12	23	19	82	48	0

WICHITA, KANS.

[H=1,358 ft.; h_t=78 ft.; h_r=71 ft.; h_a=85 ft.]

January	8.4	N.	30	N.	0	15	8	3	10	13	7	1	5	0	18	5	8	6	4	6	0	0	9	0	24	0	0
February	8.9	N.	29	NW.	0	16	10	8	7	8	1	0	6	0	8	11	9	8	4	6	0	1	9	0	25	0	0
March	12.5	S.	36	S.	0	11	4	3	5	21	2	1	15	0	17	5	9	10	9	1	0	1	0	0	10	1	0
April	10.2	SE.	41	S.	3	9	9	8	13	11	0	0	10	0	13	11	6	7	4	0	0	1	1	1	1	3	0
May	8.6	S.	42	S.	1	3	5	4	13	29	4	0	4	0	9	9	13	19	17	0	0	0	0	0	0	12	0
June	9.8	S.	42	N.	1	3	16	3	9	27	1	0	1	0	9	16	5	11	8	0	0	1	0	0	3	12	0
July	8.4	S.	34	NW.	0	3	4	5	10	34	2	0	4	0	15	13	3	9	8	0	0	1	0	0	10	9	0
August	8.3	S.	36	N.	0	8	5	11	11	20	6	0	1	0	17	10	4	9	7	0	0	0	0	0	17	10	0
September	8.8	S.	34	N.	0	9	6	2	13	21	0	1	8	0	17	5	8	9	8	0	0	0	0	0	0	7	0
October	8.9	S.	29	NW.	0	9	2	1	4	36	2	0	8	0	22	3	6	4	3	0	0	1	0	0	0	0	0
November	9.2	S.	35	SW.	0	17	3	0	6	23	2	0	8	1	7	7	16	11	6	0	0	0	7	0	6	1	0
December	9.1	NE.	29	N.	0	11	13	1	7	13	4	2	11	0	11	7	13	7	3	3	0	1	9	0	26	0	0
Year	9.3	S.	42	N.	5	114	85	49	108	256	31	5	81	1	163	102	100	110	81	16	4	11	27	31	92	55	0

WILLISTON, N. DAK.

[H=1,875 ft.; h_t=14 ft.; h_r=4 ft.; h_a=44 ft.]

January	7.2	NW.	36	NW.	0	11	2	1	4	6	8	13	17	0	23	7	1	3	1	3	0	0	18	0	31	0	0
February	8.1	N.	30	W.	0	15	4	5	4	5	4	12	7	0	11	8	9	18	7	11	0	0	21	0	28	0	0
March	12.9	N.	60	N.	5	21	1	6	8	10	3	2	11	0	12	10	9	9	8	4	0	0	12	0	26	0	0
April	9.7	NW.	54	NW.	1	10	7	3	7	11	3	7	11	1	19	7	4	3	2	0	0	1	0	0	24	0	0
May	10.4	S.	36	SE.	0	12	4	8	11	13	3	3	7	1	16	12	3	13	11	0	0	1	0	0	0	3	0
June	9.7	N.	48	NW.	2	14	5	8	8	6	3	4	12	0	17	8	5	13	13	0	0	0	0	0	0	1	0
July	7.4	N.	48	W.	1	15	6	8	4	10	4	4	11	0	25	3	3	6	6	0	0	0	0	0	3	4	0
August	9.1	N.	46	W.	3	15	2	5	8	15	3	4	10	0	23	7	1	9	8	0	0	0	1	0	0	0	0
September	11.5	N.	50	NW.	6	14	5	1	1	14	3	10	11	1	19	7	4	8	1	0	0	0	1	0	0	6	0
October	7.1	S.	36	NW.	0	6	7	4	5	14	9	9	8	0	13	10	8	5	4	1	0	0	0	0	0	1	0
November	8.8	S.	50	NW.	1	11	5	2	8	13	4	5	12	0	9	5	16	11	5	9	0	0	2	0	21	0	0
December	8.2	N.	40	NW.	1	14	0	4	9	10	6	9	9	1	13	8	10	10	6	10	0	0	12	0	30	0	1
Year	9.2	N.	60	N.	20	158	48	55	77	127	58	82	126	4	200	92	73	98	72	38	1	5	93	6	197	11	1

a By eye observations when there is no self-register at the station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

WILMINGTON, N. C.

[λ=34° 14′ N.; φ=77° 57′ W.]

Month	Pressure.			Temperature.							Moisture.								Cloudiness.		
		Extremes.		Mean.				Extremes.			Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.				
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	30.063	30.556	29.433	37.3	43.1	53.4	33.5	43.4	75	21	31	32	78	67	.190	.199	1.39	.95	3.3	5.0	4.5
February	29.841	30.264	29.312	37.0	42.4	49.5	33.4	41.4	68	23	29	29	73	61	.189	.180	3.29	.95	5.6	3.8	5.3
March	29.959	30.412	29.460	49.7	54.7	63.7	45.7	54.7	80	24	42	44	77	68	.299	.311	3.61	1.37	4.9	4.8	4.8
April	29.924	30.180	29.538	55.4	60.1	69.3	50.6	60.0	83	37	47	48	75	67	.345	.356	1.62	.72	5.1	3.4	4.4
May	29.978	30.258	29.690	67.9	70.4	80.0	61.9	71.0	90	51	61	62	79	74	.546	.555	2.33	.82	4.7	3.8	4.2
June	29.884	30.313	29.545	74.5	75.9	84.3	68.4	76.4	95	57	67	68	78	77	.671	.696	3.17	.96	4.3	4.3	4.3
July	29.945	30.126	29.779	77.5	79.4	88.5	72.5	80.5	100	65	70	71	79	77	.744	.766	2.98	1.40	3.8	4.6	4.5
August	29.875	30.086	29.651	74.0	76.9	86.0	68.9	77.4	94	61	68	69	84	78	.708	.727	2.35	.99	4.2	4.5	4.7
September	29.929	30.124	29.602	67.9	72.5	80.1	64.6	72.4	88	55	63	66	84	81	.590	.651	3.57	1.31	6.1	3.8	5.3
October	29.968	30.450	29.481	61.1	66.8	75.3	56.9	66.1	84	40	56	58	83	73	.472	.496	3.18	1.32	3.8	3.0	3.5
November	29.991	30.308	29.498	54.7	60.3	68.3	51.3	59.8	79	33	51	54	88	81	.394	.440	3.83	1.11	5.1	4.9	5.2
December	30.024	30.428	29.452	43.0	49.3	58.6	39.5	49.0	78	19	37	40	80	70	.249	.275	3.26	1.70	5.5	4.4	4.9
Year	29.948	30.556	29.312	58.3	62.6	71.4	53.9	62.7	100	19	52	53	80	73	.450	.471	34.58	1.70	4.7	4.2	4.6

WINNEMUCCA, NEV.

[λ=40° 58′ N.; φ=117° 43′ W.]

January	25.689	25.962	25.114	19.5	25.2	40.0	15.5	27.8	56	−15	15	23	83	61	.093	.124	.13	.06	4.4	5.8	5.9
February	25.649	25.762	25.040	32.4	44.2	47.9	28.2	38.0	67	5	26	30	77	60	.143	.171	1.47	.52	6.6	8.0	7.9
March	25.540	25.961	25.087	28.1	42.5	45.2	25.4	35.3	62	14	22	24	75	61	.114	.129	.46	.21	3.9	7.7	6.8
April	25.543	25.760	25.182	36.3	54.6	57.4	32.4	44.9	73	17	28	28	38	38	.153	.156	.34	.30	5.8	7.5	6.3
May	25.510	25.679	25.167	41.2	63.6	66.2	39.1	52.6	84	18	31	30	68	30	.173	.168	.21	.09	5.5	5.6	5.5
June	25.529	25.690	25.259	50.1	78.7	80.6	47.6	64.1	93	29	34	35	56	21	.198	.203	.09	.09	3.2	5.0	4.1
July	25.596	25.761	25.218	52.8	81.4	83.0	50.3	66.6	97	33	35	40	54	25	.207	.249	.88	.76	2.9	3.4	3.2
August	25.605	25.815	25.420	55.1	81.9	84.7	51.2	68.0	97	38	37	44	53	28	.220	.291	.02	.02	1.8	3.1	2.5
September	25.637	25.836	25.287	45.0	75.0	77.5	40.8	59.2	92	22	32	41	62	32	.183	.264	.72	.68	2.6	2.5	2.1
October	25.628	25.802	25.305	35.8	61.6	65.2	31.9	48.6	78	20	26	33	66	36	.140	.190	.02	.02	1.8	4.3	2.9
November	25.586	25.933	25.144	31.0	43.3	47.9	26.4	37.2	67	12	24	29	74	60	.128	.161	.57	.41	3.9	6.5	4.7
December	25.637	25.823	25.362	26.5	38.5	44.7	20.9	32.8	62	2	21	27	79	63	.118	.146	.08	.06	4.8	6.5	5.4
Year	25.587	25.962	25.040	37.8	58.4	61.7	34.1	47.9	97	−15	28	32	65	42	.156	.188	4.99	0.76	3.9	5.5	4.8

WYTHEVILLE, VA.

[λ=36° 56′ N.; φ=81° 5′ W.]

January																					
February																					
March																					
April																					
May																					
June																					
July																					
August																					
September																					
October																					
November	a27.659	a27.914	a27.105	a42.3	a50.5	a59.5	a33.9	a49.2	a 72	a 26	a39	a43	a87	a77	a .243	a .291	b 2.55	b .91	a4.4	a5.2	a5.2
December	27.660	28.014	27.152	31.6	34.9	42.6	27.5	35.0	58	10	28	30	85	81	.162	.174	2.34	.71	6.2	5.1	6.4
Year																					

YANKTON, S. DAK.c

[λ=42° 54′ N.; φ=97° 28′ W.]

January																					
February	28.701	29.198	27.717	14.2		27.6	11.4	19.5	57	−16	10		82		.077		.53	.20	5.4		4.5
March	28.545	29.180	27.964	29.5		47.1	27.9	37.5	71	− 3	22		74		.128		1.32	.34	4.6		4.2
April	28.646	29.083	27.971	39.1		60.8	35.5	48.2	91	15	32		77		.189		1.56	.67	3.9		3.5
May	28.572	28.974	27.968	56.6		74.7	52.1	63.4	88	37	51		82		.387		1.74	.63	6.0		5.2
June	28.594	28.951	28.302	59.1		76.3	54.5	65.4	94	40	53		82		.417		5.03	3.00	5.3		4.4
July	28.602	29.077	28.310	67.0		84.1	62.2	73.2	94	49	60		80		.531		4.18	1.50	4.5		3.9
August	28.640	28.890	28.422	63.5		80.5	60.0	70.2	92	43	59		85		.501		4.84	1.98	6.2		4.9
September	28.641	29.043	28.280	52.0		72.2	47.6	59.9	93	27	47		84		.335		8.17	6.28	4.4		4.6
October	28.676	28.984	28.313	42.7		67.3	40.4	53.8	81	25	39		86		.248		1.17	.70	3.5		4.5
November	28.644	29.001	28.326	31.6		47.5	28.6	38.0	67	11	29		88		.162		.28	.23	4.4		6.0
December	28.772	29.317	28.080	14.6		26.4	8.3	17.4	52	−20	9		78		.069		3.32	1.08	6.2		7.4
Year																					

a For 21 days. b For 30 days. c 8 a. m. observations.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

WILMINGTON, N. C.

[H=78 ft.; h_t=82 ft.; h_r=76 ft.; h_a=90 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.5	W.	33	SE.	0	11	10	2	4	6	11	10	8	0	15	6	10	9	4	0	0	1	0	0	12	1	0
February	10.2	W.	45	W.	1	8	5	0	6	6	4	15	11	1	11	8	9	9	8	1	0	2	0	0	15	2	0
March	10.6	S.	36	NW.	0	4	6	6	8	9	10	9	10	0	12	10	9	13	8	0	0	0	0	2	3	3	0
April	10.1	SW.	34	W.	0	8	8	5	2	11	14	8	4	0	12	14	4	7	6	0	0	0	0	0	0	2	0
May	8.4	SW.	29	S.	0	3	8	13	3	10	15	6	4	0	11	17	3	8	8	0	0	0	0	0	0	8	0
June	8.8	SW.	41	S.	2	3	9	12	7	7	15	7	0	0	9	19	2	11	10	0	0	0	0	6	0	10	0
July	7.2	SW.	29	SE.	0	2	13	4	6	9	19	8	1	0	14	11	6	9	8	0	0	0	0	13	0	7	0
August	7.2	SW.	40	NW.	1	4	16	6	6	6	14	7	3	0	9	20	2	13	9	0	0	0	0	7	0	10	0
September	7.1	NE.	30	SW.	0	6	18	7	8	3	7	6	4	1	10	9	11	11	10	0	0	0	0	0	0	5	0
October	7.5	NE.	30	W.	0	7	17	12	7	1	6	6	6	0	14	13	4	6	6	0	0	1	0	0	0	0	0
November	7.5	NE.	32	W.	0	9	13	9	5	4	9	4	7	0	9	11	10	8	8	0	0	1	0	0	0	1	0
December	8.5	NE.	40	SW.	1	7	17	2	1	7	8	11	9	0	11	11	9	9	7	0	0	0	0	0	6	0	0
Year	8.5	SW.	45	W.	5	72	140	78	63	79	132	97	67	2	137	149	79	113	92	1	0	5	0	26	35	49	0

WINNEMUCCA, NEV.

[H=4,344 ft.; h_t=59 ft.; h_r=52 ft.; h_a=70 ft.]

January	8.4	NE.	46	NW.	1	5	27	9	1	4	9	4	3	0	10	8	18	5	1	5	0	0	6	0	30	0	0
February	10.4	SW.	52	SW.	4	5	5	9	0	7	20	10	0	0	4	5	19	10	7	3	0	0	0	0	15	0	0
March	9.9	SW.	60	SW.	2	2	13	3	2	10	15	9	6	2	7	6	18	8	5	7	0	0	0	0	29	1	0
April	10.4	SW.	43	SW.	2	2	8	4	0	3	26	11	6	0	7	8	15	3	2	1	0	0	0	0	16	0	0
May	9.9	SW.	42	S.	1	5	11	1	0	3	21	12	9	0	13	6	12	5	2	0	0	0	0	0	7	0	0
June	8.8	SW.	42	SW.	1	3	15	0	0	1	21	11	8	1	15	7	8	1	1	0	0	0	0	5	1	0	0
July	8.0	SW.	36	SW.	0	5	18	0	2	1	24	9	3	0	20	4	7	3	3	1	0	0	0	11	0	0	0
August	7.9	NE.	40	SW.	1	8	21	2	2	4	11	5	9	0	20	8	3	1	0	0	0	0	0	9	0	3	0
September	6.8	NE.	37	SW.	0	5	19	1	0	2	8	13	11	1	22	4	4	3	3	0	0	0	0	3	4	0	0
October	6.9	NE.	29	W.	0	5	30	1	0	7	4	8	7	0	20	5	6	2	0	0	0	0	0	0	14	0	0
November	9.6	SW.	48	S.	1	2	12	5	2	7	22	6	2	2	14	8	8	6	2	2	0	0	1	0	23	0	0
December	7.9	NE.	52	W.	2	3	19	5	3	4	10	13	3	2	13	7	11	4	1	1	0	0	0	0	24	0	0
Year	8.7	NE.	60	SW.	15	50	198	40	12	53	191	111	67	8	165	76	124	51	27	20	0	0	7	28	163	4	0

WYTHEVILLE, VA.

[H=2,293 ft.; h_t=40 ft.; h_r=32 ft.; h_a=47 ft.]

January																											
February																											
March																											
April																											
May																											
June																											
July																											
August																											
September																											
October																											
November	[b]4.9	[b]NW.	[b]23	[b]NW.	[b]0	[b]1	[b]4	[b]3	[b]1	[b]3	[b]9	[b]8	[b]12	[b]1	[b]8	[b]4	[b]9	[c]8	[c]6	[c]0	[c]0	[c]3	[b]0	[b]0	[b]5	[c]0	[b]0
December	7.0	W.	25	W.	0	3	4	6	3	1	8	25	12	0	10	3	18	12	10	3	0	1	3	0	21	0	0
Year																											

YANKTON, S. DAK.

[H=1,238 ft.; h_t=42 ft.; h_r=32 ft.; h_a=49 ft.]

January																											
February	7.4	W.	35	NW.	0	3	2	1	4	1	5	6	4	0	13	11	4	5	4	4	0	0	16	0	24	0	0
March	9.6	NW.	40	SE.	1	0	3	3	5	4	3	4	9	0	13	14	4	9	8	5	0	0	4	0	17	0	0
April	9.4	W.	50	NW.	2	3	3	3	4	1	4	7	5	0	21	7	2	4	3	0	1	0	0	1	8	2	0
May	9.8	SE.	40	N.	1	3	2	6	7	6	5	1	2	0	10	14	7	13	8	0	1	0	0	1	0	5	0
June	7.6	NW.	64	NW.	1	2	6	5	3	3	2	2	7	0	12	14	4	12	10	0	0	0	0	0	0	5	0
July	6.7	S.	34	S.	0	5	2	3	5	7	5	2	2	0	17	11	3	14	11	0	0	0	2	0	5	9	0
August	6.4	SE.	36	NW.	0	2	8	1	10	1	1	3	5	0	10	15	6	14	9	0	0	0	0	3	0	5	0
September	8.2	NW.	27	S.	0	3	2	1	5	3	4	4	8	0	14	9	7	6	3	0	0	1	0	1	1	1	0
October	6.0	W.	27	NW.	0	1	4	3	6	1	4	6	6	0	15	8	8	4	3	0	1	1	0	0	4	1	0
November	7.7	NW.	33	S.	0	4	1	1	5	3	4	2	10	0	9	8	13	4	1	0	0	1	1	0	19	0	0
December	7.6	NW.	30	NW.	0	2	5	1	4	0	4	4	10	1	4	8	19	10	8	8	0	0	20	0	30	0	0
Year																											

[a] By eye observations when there is no self-register at station.

[b] For 21 days.

[c] For 30 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

YUMA, ARIZ.

[λ=32° 45′ N.; φ=114° 36′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.873	30.082	29.690	46.2	64.9	68.5	41.9	55.2	80	31	26	27	46	26	.137	.149	.26	.26	1.2	2.1	2.0
February	29.836	30.004	29.589	46.1	72.4	74.4	43.4	58.9	86	32	35	32	67	24	.208	.187	T.	T.	0.8	1.7	1.4
March	29.785	30.199	29.541	48.1	71.7	73.9	44.8	59.4	85	36	31	27	54	21	.176	.150	.21	.21	0.4	0.9	1.5
April	29.685	29.895	29.448	56.9	85.5	87.8	54.7	71.2	96	44	38	31	52	15	.236	.174	.00	.00	0.4	0.6	0.8
May	29.604	29.708	29.230	61.6	88.4	90.7	59.8	75.2	102	51	46	35	56	16	.312	.208	.00	.00	0.1	0.9	0.7
June	29.515	29.717	29.337	69.4	99.1	102.1	68.0	85.0	116	56	51	45	53	17	.386	.318	T.	T.	0.3	0.2	0.4
July	29.603	29.704	29.426	74.8	98.1	101.9	73.1	87.5	111	64	59	56	60	26	.519	.470	.11	.10	1.1	0.5	0.5
August	29.611	29.774	29.478	76.1	99.7	103.2	73.8	88.5	111	62	58	55	55	24	.502	.460	T.	T.	0.5	0.4	0.7
September	29.607	29.765	29.406	73.5	96.2	99.8	70.8	85.3	110	55	56	52	59	24	.500	.421	T.	T.	0.6	0.9	0.9
October	29.700	29.857	29.487	60.8	86.0	90.1	58.2	74.2	97	52	43	44	54	26	.289	.304	.00	.00	0.5	1.3	1.0
November	29.779	30.027	29.455	51.3	67.8	71.9	48.1	60.0	84	34	38	38	64	36	.242	.239	.57	.37	1.5	1.7	1.7
December	29.891	30.128	29.587	47.3	61.1	65.5	44.5	55.0	75	33	30	33	56	38	.177	.201	.78	.74	1.3	1.7	2.1
Year	29.707	30.199	29.230	59.3	82.6	85.8	56.8	71.3	116	31	43	40	56	24	.307	.273	1.93	.74	0.7	1.1	1.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

YUMA, ARIZ.

[H=141 ft.; h_t=16 ft.; h_r=2 ft.; h_a=50 ft.]

Month.	Wind.														Number of days.												
	By self-registers.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. a	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.4	N.	32	W.	0	18	16	6	0	4	1	7	10	0	24	3	4	2	1	0	0	0	0	0	1	0	0
February	5.8	W.	40	W.	1	6	9	10	4	7	5	11	4	0	22	4	2	0	0	0	0	0	0	0	1	0	0
March	7.7	W.	41	W.	1	11	6	5	5	10	2	12	11	0	25	5	1	1	1	0	0	0	0	0	0	0	0
April	6.9	W.	44	W.	1	4	8	6	4	6	9	19	4	0	29	1	0	0	0	0	0	0	0	12	0	0	0
May	7.0	W.	40	W.	1	6	1	3	5	11	16	19	1	0	28	3	0	0	0	0	0	0	0	19	0	0	0
June	5.9	S.	24	S.	0	3	5	4	5	14	10	14	4	1	28	2	0	0	0	0	0	0	0	29	0	0	0
July	6.6	W.	26	SE.	0	6	1	6	10	7	15	16	1	0	30	0	1	2	1	0	0	0	0	31	0	2	0
August	6.2	SW.	24	S.	0	3	6	6	8	11	14	13	1	0	28	3	0	0	0	0	0	0	0	31	0	0	0
September	6.1	SW.	28	N.	0	8	7	4	6	6	17	10	2	0	25	4	1	0	0	0	0	0	0	27	0	0	0
October	4.6	E.	22	N.	0	4	9	13	3	8	9	11	5	0	26	5	0	0	0	0	0	0	0	17	0	0	0
November	5.9	N.	30	N.	0	19	12	4	4	8	3	5	5	0	23	3	4	5	4	0	0	0	0	0	0	0	0
December	6.1	N.	33	N.	0	30	19	1	1	2	3	4	2	0	23	3	5	2	2	0	0	0	0	0	0	0	0
Year	6.3	W.	44	W.	4	118	99	68	55	94	104	141	50	1	311	36	18	12	9	0	0	0	0	166	2	2	0

a By eye observations when there is no self-register at station.

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PART IV.

MONTHLY AND ANNUAL MEAN TEMPERATURE AND ANNUAL EXTREMES OF TEMPERATURE TOGETHER WITH THE DATES OF THE FIRST AND LAST KILLING FROSTS, 1902.

The monthly and annual averages given in the following tables are taken largely from the records of voluntary (unpaid) observers. The paid stations of the Weather Bureau are indicated by an asterisk (*). The records of voluntary observers are given as made; no attempt has been made to reduce them to a homogeneous system. About three-fourths of the voluntary observers have standard instruments, and a great majority are now supplied with standard shelters. The hours of observation at the regular stations of the Weather Bureau have already been described; the observing hours at voluntary stations vary greatly. The letters "*a*," "*b*," etc., following the name of a station have the following significance:

a=mean temperature computed by the formula $\frac{1}{4}$ (7+2+9+9).
b=mean temperature computed by the formula $\frac{1}{2}$ (8+8).
c=mean temperature computed by the formula $\frac{1}{2}$ (7+7).
d=mean temperature computed by the formula $\frac{1}{2}$ (6+6).
e=mean temperature computed by the formula $\frac{1}{2}$ (7+2).

The absence of a letter indicates that the mean has been made as follows: $\frac{\text{Mean max.} + \text{mean min.}}{2}$

The small roman letters in the body of the tables indicate the number of days missing from the records—thus "c" indicates three days missing, etc.

The dates of last killing frost in spring and first in autumn are given at the right of the table. Many observers, however, do not report dates of frost, and still others do not distinguish between light and killing frost. The date of the last and the first occurrence of a minimum temperature of 32° has been used in many cases where no frost reports were made.

Bracketed values have been supplied by interpolation.

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MONTHLY AND ANNUAL MEAN TEMPERATURE, ANNUAL EXTREMES OF TEMPERATURE, AND DATES OF LAST KILLING FROST IN SPRING AND FIRST KILLING FROST IN AUTUMN, 1902.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Alabama.																	
Ashville	40.6	37.2	52.0	58.9	73.6	78.0	80.9	81.4	70.8	61.1	55.4	43.4	61.1	105	11	Apr. 2	Oct. 29
Bermuda	[a]49.2	45.2	60.0	66.0	77.2	82.5	82.6	[a]82.7	[a]75.8	[a]64.4	60.0	48.6	66.2	104	18	Mar. 19	Nov. 28
*Birmingham	44.0	40.8	55.9	62.0	75.9	81.2	83.6	83.6	74.6	65.1	59.6	45.7	64.3	102	13	Mar. 19	Nov. 28
Camphill	43.0	42.3	54.8	58.2	.....	81.9	.....	84.6	72.4	[f]61.6	[a]57.2	[a]46.2	.....	.....	15	Mar. 20	Oct. 29
Citronelle	51.0	48.2	[a]61.6	[a]66.4	76.4	82.6	82.2	83.0	75.9	67.4	62.4	52.2	67.4	100	20	Mar. 18	Oct. 30
*Clanton	43.3	41.3	[a]53.8	[f]61.4	73.7	80.7	81.9	81.4	72.4	60.4	55.4	43.6	62.4	99	14	.....	Oct. 30
Cordova	.....	.....	53.6	.....	.....	79.8	82.6	82.4	72.2	[a]65.7	[f]58.5	44.0	.....	104	.....	Mar. 20	Oct. 30
Daphne	[a]50.0	[a]48.4	60.8	64.8	76.3	[f]81.4	82.0	[a]83.1	[a]77.1	[a]66.8	[a]61.6	52.8	67.1	100	18	Mar. 19	Nov. 28
*Decatur	42.2	37.8	53.8	61.6	77.0	80.5	84.4	82.4	73.1	63.9	[a]58.2	[a]45.0	63.3	107	14	Mar. 19	Nov. 28
Dothan	.....	.....	.....	67.2	.....	.....	.....	.....	.....	67.0	61.6	52.0	.....	.....	.....	.....	.....
Elba	.....	.....	.....	64.9	76.7	81.4	83.4	82.6	.....	.....	.....	.....	.....	104	.....	.....	.....
*Eufaula	45.5	44.6	57.0	62.6	77.3	81.4	84.2	82.8	75.2	65.0	58.0	48.2	65.1	104	17	Mar. 20	Nov. 28
Eutaw	42.7	40.6	56.4	64.0	76.6	82.8	84.4	84.3	74.2	.....	57.8	45.8	.....	103	16	Mar. 19	Nov. 27
*Evergreen	48.5	44.2	57.6	64.6	76.5	82.8	82.9	82.4	76.2	65.4	60.0	50.1	65.9	101	18	Mar. 18	Nov. 27
Flomaton	49.5	47.8	61.2	64.6	75.7	.....	[a]80.8	82.0	75.6	65.2	59.0	50.9	.....	101	19	Mar. 7	Nov. 28
Florence	40.3	36.6	53.3	60.2	75.3	79.6	82.2	80.2	71.0	63.2	57.0	42.4	61.8	104	10	Mar. 20	Oct. 29
*Fort Deposit	44.8	42.2	56.8	62.8	76.9	82.4	83.9	82.6	75.2	63.7	58.6	47.0	64.7	102	16	Mar. 20	Nov. 28
Gadsden	41.8	37.8	52.8	59.6	76.9	81.0	83.4	82.5	72.2	63.3	56.3	42.5	62.5	106	14	Apr. 2	Oct. 30
*Goodwater	42.3	39.0	53.4	60.0	75.2	81.0	82.8	81.6	73.0	62.8	56.5	43.0	62.6	105	13	Mar. 20	Oct. 29
Greensboro	43.6	40.6	55.2	63.9	77.0	82.8	.....	83.6	74.1	64.4	59.0	46.1	.....	.....	16	Mar. 19	Nov. 27
Hamilton	39.4	36.8	53.5	[a]58.8	[a]73.8	79.5	80.7	78.6	69.8	[a]60.4	[a]54.9	[a]42.3	60.7	103	8	Apr. 2	Oct. 29
Healing Springs	47.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Highland Home	47.8	44.8	58.4	63.4	75.0	81.8	82.8	82.1	75.1	66.0	60.9	49.1	65.6	100	15	Mar. 19	Nov. 28
*Livingston	41.2	39.8	55.4	62.0	74.8	79.4	83.2	82.6	.....	64.5	57.0	.....	.....	102	18	Mar. 21	Oct. 29
Lock No. 4	40.4	38.8	52.8	60.1	75.8	80.9	86.0	84.4	71.6	62.6	57.2	[f]45.4	63.0	109	14	Mar. 20	Nov. 28
Madison Station	39.8	36.7	52.5	60.2	74.5	79.3	82.8	81.2	72.0	63.2	58.2	44.0	62.0	104	13	Apr. 2	Oct. 29
Maplegrove	38.6	35.9	49.8	57.3	74.0	78.4	82.2	80.9	70.4	60.4	54.3	41.5	60.3	107	14	Apr. 1	Oct. 29
*Marion	44.1	41.2	55.9	63.4	75.5	84.0	83.6	83.4	74.0	63.0	57.6	45.4	64.3	103	11	Mar. 19	Nov. 28
*Mobile	49.9	48.1	60.3	65.4	77.0	82.0	81.9	83.0	76.9	67.2	62.7	52.2	67.2	98	23	Jan. 23	None.
*Montgomery	46.2	44.2	57.3	64.0	77.0	82.2	84.0	83.2	75.4	65.3	60.0	48.1	65.6	101	17	Mar. 18	Nov. 28
Mount Willing	47.1	45.6	59.0	.....	78.4	84.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 19	.....
Newbern	45.9	42.6	58.2	64.0	78.2	83.8	84.4	84.8	76.0	65.6	59.8	47.4	65.7	107	16	Mar. 19	Nov. 28
Newburg	.....	36.7	53.0	60.2	.....	.....	.....	.....	70.4	61.2	57.2	41.0	.....	.....	8	Apr. 1	Oct. 28
Oneonto	39.7	36.8	52.3	59.0	72.8	77.6	80.2	79.3	71.2	60.7	54.9	42.4	60.6	99	9	Apr. 2	Oct. 29
*Opelika	43.4	42.0	53.8	60.7	76.2	81.1	82.8	80.5	73.0	62.6	58.1	44.6	63.2	101	14	Mar. 19	Oct. 29
Oxanna	43.0	41.1	55.1	61.2	74.4	80.8	82.2	82.7	.....	.....	.....	.....	.....	.....	.....	Mar. 19	Oct. 29
*Ozark	.....	.....	.....	.....	76.8	81.7	83.6	82.8	77.0	65.7	63.0	48.7	.....	103	.....	.....	Nov. 28
Prattville	45.9	[a]41.4	[a]57.2	62.0	74.8	81.4	82.4	82.2	74.5	63.4	57.9	46.4	64.1	102	15	Apr. 1	Oct. 29
Pushmataha	45.0	43.7	57.9	63.4	75.2	81.5	82.0	82.1	72.9	63.6	57.4	46.9	64.3	101	18	Mar. 19	Nov. 27
Riverton	38.0	34.4	51.8	59.0	73.4	77.8	79.8	77.6	69.6	61.1	55.4	40.4	59.9	101	9	Apr. 9	Oct. 29
Scottsboro	38.2	35.4	50.3	57.8	73.0	76.8	80.0	79.2	68.9	59.2	53.6	40.4	59.4	101	14	Apr. 1	Oct. 29
*Selma	44.2	42.5	57.2	63.4	77.4	83.4	84.8	84.2	74.9	64.0	59.7	45.3	65.1	104	16	Mar. 20	Nov. 28
Talladega	42.4	41.4	54.6	61.4	75.6	82.2	84.5	83.0	73.6	63.0	57.9	44.6	63.7	106	13	Apr. 2	Oct. 29
*Thomasville	48.0	45.2	59.2	65.8	77.8	83.8	84.3	84.0	75.3	62.9	57.4	50.4	66.2	103	22	Mar. 19	Nov. 28
Tuscaloosa	40.9	38.1	53.8	61.0	76.4	81.4	85.0	84.8	74.2	63.0	56.8	43.8	63.3	105	14	Mar. 20	Nov. 28
*Tuscumbia	37.3	34.9	.....	61.3	75.6	79.6	83.4	80.4	70.6	61.2	54.4	.....	.....	102	.....	Mar. 19	Nov. 27
Tuskegee	46.1	44.8	56.8	64.4	78.1	82.6	84.3	84.0	76.8	67.1	61.7	48.8	66.2	104	16	Mar. 19	Nov. 28
*Union Springs	46.3	43.5	55.7	63.4	77.4	82.8	83.8	83.3	76.0	64.2	59.0	47.8	65.3	104	15	Mar. 18	Nov. 28
Uniontown	45.0	43.3	56.8	63.2	75.6	82.0	83.8	[a]84.0	75.1	65.8	58.8	47.4	65.1	103	15	Mar. 19	Nov. 28
Valleyhead	39.1	36.8	49.6	56.2	73.7	78.3	80.8	80.2	71.8	62.4	56.9	42.4	60.7	102	12	Apr. 2	Oct. 29
Wetumpka	45.6	44.9	58.2	63.7	78.0	83.2	85.6	84.6	.....	66.6	60.3	48.4	.....	106	17	Mar. 19	Nov. 28
Alaska.																	
Coal Harbor	31.2	34.0	31.8	33.0	42.4	52.6	55.9	52.5	48.7	.....	.....	.....	.....	78	— 2	.....	.....
Copper Center	.....	.....	.....	.....	.....	.....	[m]61.4	54.8	45.4	34.4	—0.6	—12.4	.....	94	—58	.....	.....
Fort Egbert	.....	5.4	—6.6	26.4	45.0	56.1	60.9	54.5	41.9	31.8	—1.9	—21.4	.....	86	—59	.....	.....
Fort Gibbon	.....	.....	.....	.....	.....	.....	.....	.....	.....	27.6	—8.6	—19.8	.....	.....	—64	.....	.....
Fort Liscum	22.0	24.4	20.4	30.4	42.0	55.1	51.1	48.4	42.4	34.9	21.1	16.8	34.1	79	—14	.....	.....
Fort Yukon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—69	.....	.....
Juneau	33.1	35.7	32.0	41.3	48.3	57.3	54.8	52.4	49.2	45.7	32.4	23.5	43.0	80	3	.....	.....
Kenai	14.9	27.4	14.8	30.4	42.1	53.7	55.6	53.8	46.2	37.5	20.0	0.2	33.1	79	—43	.....	.....
Ketchikan	.....	.....	.....	.....	.....	57.5	58.6	57.2	.....	.....	.....	.....	.....	78	.....	.....	.....
Killisnoo	32.5	32.6	29.6	40.5	44.3	55.0	55.9	54.0	49.2	43.6	32.8	23.7	41.1	78	6	.....	.....
Kotzebue	.....	.....	.....	.....	.....	.....	51.9	46.8	41.2	24.8	0.6	—14.0	.....	75	—40	.....	.....
Mine Harbor	.....	.....	.....	.....	.....	.....	.....	54.2	48.9	.....	.....	.....	.....	.....	42	.....	.....
Kushagak	14.9	.....	.....	28.2	40.2	57.2	59.6	.....	.....	.....	.....	.....	.....	81	—70	.....	.....
Orca	29.3	35.0	21.5	.....	.....	.....	.....	.....	.....	41.0	30.9	24.0	.....	57	2	.....	.....
Point Barrow	—23.2	—6.5	—21.3	—1.4	21.4	39.6	39.7	38.0	31.9	25.2	2.4	—13.3	11.0	62	—49	.....	.....
Rampart	—17.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—68	.....	.....
Sitka	36.2	39.6	34.0	40.7	45.7	53.3	55.5	54.2	50.3	47.2	37.3	27.4	43.5	77	7	.....	.....
Skagway	.....	.....	.....	.....	50.2	59.3	57.1	54.2	49.8	44.0	27.2	16.0	.....	86	— 2	.....	.....
Teller	—3.3	—0.6	—9.2	13.2	[a]33.9	47.3	51.0	49.4	[a]42.4	.....	.....	.....	.....	78	—44	.....	.....
Tyoonok	14.5	28.5	18.6	34.6	45.0	58.0	58.9	55.2	48.2	40.4	22.2	9.5	36.1	82	—28	.....	.....
Wood Island	30.6	36.9	34.4	37.3	47.2	59.1	[a]58.9	56.0	[a]53.3	[a]44.8	[f]34.5	22.2	42.9	82	—12	.....	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.		Killing frost.	
													Mean.	Extremes.	Last in spring.	First in autumn.
														Max. Min.		
Arizona.																
Agua Caliente	51.6	54.6	54.2	.....	.....	.....	83.2	.....	84.8	.....	.....	.....	.....	.....	.....	.....
Arizona Canal Co. Dam	53.6	55.8	58.0	71.2	75.6	85.4	87.0	88.8	83.3	75.4	64.6	56.2	71.2	115 29	Feb. 2	.....
Ashfork	.....	.....	.....	.....	52.8	64.8	68.0	65.9	63.0	.....	.....	.....	.....	100	June 5	Sept. 27
Aztec (*a*)	52.4	56.8	62.7	84.7	85.4	99.0	97.2	96.0	93.9	83.7	61.7	55.9	77.4	125 32	Feb. 7	Dec. 15
Benson (*a*)	50.0	51.0	54.2	70.6	75.7	88.6	86.2	81.6	77.5	69.6	56.2	51.9	67.7	104 23	Feb. 8	.....
Bisbee	45.6	50.4	49.4	63.8	66.6	77.8	75.0	73.4	71.1	[d]64.8	51.0	45.3	61.2	99 20	Mar. 28	Nov. 22
Bowie (*e*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.4	51.0	.....	.....	.....	.....
Buckeye	50.4	54.2	55.6	66.6	73.0	81.4	84.3	86.0	78.6	69.5	54.9	49.6	67.0	110 22	Mar. 6	Nov. 25
Casagrande (*a*)	45.6	52.2	52.2	69.3	.....	94.1	90.6	97.8	82.1	74.2	57.4	.....	.....	119 35	.....	.....
Champie Camp	51.5	54.2	53.8	67.0	71.4	84.0	86.3	85.8	.....	[e]70.9	55.2	48.4	.....	118 20	Mar. 26	.....
Cochise (*a*)	44.4	.....	[b]53.6	65.4	75.3	88.7	84.4	80.7	71.6	65.8	52.6	46.1	.....	109	.....	Dec. 3
Congress	52.4	55.4	52.8	67.2	72.0	84.0	83.8	83.7	79.4	71.7	54.5	51.0	67.3	107 28	Mar. 25	Nov. 22
Dragoon (*a*)	39.6	42.4	42.3	63.2	70.1	78.7	78.5	75.8	73.0	64.0	47.7	41.2	59.7	104 23	Mar. 4	Nov. 29
Dudleyville	48.5	51.7	53.3	65.8	70.6	80.9	82.4	82.3	77.3	68.7	54.0	48.3	65.3	114 20	Mar. 26	Nov. 26
Duncan	42.0	44.4	47.2	57.8	65.0	74.0	74.5	77.3	70.1	60.4	49.0	42.6	58.7	109 11	June 2	Oct. 3
*Flagstaff	27.8	32.2	31.6	45.5	49.7	62.2	63.6	63.2	57.4	46.8	33.0	27.8	45.0	93 −12	June 4	Sept. 29
Fort Apache	36.8	39.8	40.0	55.2	58.7	71.9	71.1	71.2	65.9	56.2	43.4	39.2	54.1	104 10	May 31	Oct. 2
Fort Defiance	27.4	31.1	33.4	46.8	53.4	65.6	66.0	67.1	57.1	46.5	33.2	22.9	45.9	96 −16	June 3	Sept. 21
Fort Grant	51.0	52.4	53.6	61.2	66.5	80.9	74.9	77.7	70.0	63.4	51.5	44.5	62.3	105 20	Mar. 29	Nov. 12
Fort Huachuca	47.2	53.8	.....	[e]67.0	71.4	82.8	80.6	79.2	74.8	70.6	55.8	51.0	.....	100 21	.....	Dec. 3
Fort Mohave	.....	55.6	.....	[f]71.6	76.6	88.5	[g]89.8	[e]88.8	84.2	.....	.....	.....	.....	123	Feb. 6	.....
Gilabend (*a*)	55.6	.....	64.5	67.7	76.4	89.8	88.9	94.0	86.2	.....	.....	.....	.....	117	Jan. 31	.....
Globe	46.6	49.5	49.8	58.3	65.8	77.5	79.9	80.0	75.0	65.5	52.7	45.8	62.2	109 23	Apr. 2	Nov. 21
Ingleside	52.7	54.7	56.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jerome	43.8	46.6	46.2	62.2	66.2	80.4	78.8	78.0	74.3	65.2	46.2	42.8	60.9	104 19	Apr. 20	Nov. 20
Kingman	46.3	[h]50.8	.....	61.6	.....	[e]79.4	[d]81.0	[d]80.0	.....	.....	.....	.....	.....	107	.....	.....
Maricopa (*a*)	.....	.....	53.1	70.8	78.3	92.1	92.8	92.3	83.7	74.1	54.0	49.0	.....	118	Mar. 4	Nov. 28
Mesa	50.8	52.9	56.2	67.0	72.8	84.0	86.9	87.4	81.2	71.8	55.8	50.4	68.1	115 24	Mar. 15	Nov. 28
Mesa (near)	.....	.....	.....	66.8	72.8	84.0	87.0	87.8	81.6	71.8	56.4	49.8	.....	.....	.....	Nov. 24
Mohawk Summit (*a*)	55.2	61.8	59.6	78.3	83.6	97.0	94.7	94.9	90.5	74.8	.....	53.5	.....	123 31	Feb. 1	.....
Mount Huachuca	46.6	50.1	50.0	64.4	67.5	78.1	76.2	75.0	71.7	65.5	50.7	47.2	61.9	105 19	Apr. 22	Nov. 22
Nogales	46.6	.....	49.4	63.9	64.8	78.9	77.6	76.4	73.4	66.5	51.4	.....	.....	107	Mar. 30	Nov. 24
Oracle	47.4	48.5	49.8	62.9	67.0	79.6	79.8	78.4	74.4	67.5	50.6	47.6	62.8	103 22	Mar. 26	Dec. 3
Parker	52.8	57.0	58.0	71.4	76.2	86.6	.....	.....	.....	.....	.....	.....	.....	121	Mar. 24	.....
*Phoenix	52.5	56.4	57.4	69.8	75.2	86.4	88.5	89.6	83.6	74.0	58.0	51.8	70.3	116 30	Feb. 1	Nov. 28
Phoenix [1]	50.6	55.0	56.0	68.6	73.8	84.0	87.2	88.6	82.5	72.1	57.1	50.4	68.8	.....	Mar. 26	Nov. 28
Pima	44.8	49.8	51.4	62.6	69.9	80.5	83.2	82.8	76.1	65.8	50.7	44.7	63.5	112 19	Apr. 22	Nov. 4
Prescott	34.6	39.5	38.2	51.2	56.4	67.8	69.6	68.1	63.0	54.3	40.3	33.6	51.4	98 1	June 2	Sept. 28
St. Johns	34.2	39.2	41.2	55.5	61.8	71.8	73.0	73.0	64.8	.....	.....	.....	.....	104	May 19	Sept. 25
San Carlos	45.3	50.7	52.6	63.7	70.6	81.7	.....	.....	.....	.....	.....	.....	.....	115	Mar. 29	.....
Sentinel (*a*)	57.4	59.8	62.4	75.8	85.3	96.4	97.2	94.8	87.6	77.6	61.0	53.0	75.7	119 31	Jan. 31	.....
Signal	48.9	53.0	54.2	67.4	72.5	84.4	86.9	87.4	82.0	69.2	54.4	.....	.....	121	Mar. 25	Nov. 5
Taylor	33.7	38.8	39.2	51.5	56.7	70.4	71.2	77.4	62.9	54.2	41.0	33.2	52.5	102 0	June 3	Sept. 27
Tombstone	47.6	50.0	50.4	64.8	69.5	80.2	78.0	75.7	73.0	67.6	.....	.....	.....	103	Mar. 26	.....
Tonto	45.4	49.4	52.5	64.1	68.7	81.4	83.0	82.9	76.2	66.8	51.8	45.2	64.0	113 20	Mar. 26	Nov. 13
Tuba	34.3	39.8	40.4	57.3	[e]63.9	76.4	77.9	76.1	68.8	.....	48.3	31.7	.....	108 7	Mar. 12	.....
Tucson	50.4	52.6	54.1	66.3	71.5	83.1	84.4	84.1	79.8	71.0	55.0	50.3	66.9	112 24	Mar. 26	Nov. 25
Vail (*e*)	55.3	58.6	54.1	66.9	77.6	88.4	85.8	82.6	79.5	75.2	61.2	56.4	70.1	106 32	Mar. 25	Dec. 3
Wilcox (*a*)	39.8	42.5	48.2	64.1	73.2	85.6	80.5	74.0	72.6	63.9	47.4	43.0	61.2	108 18	Mar. 26	Nov. 14
Williams	.....	.....	.....	.....	.....	.....	67.5	67.5	.....	.....	35.2	.....	.....	.....	.....	.....
*Yuma	55.2	58.9	59.4	71.2	75.2	86.0	87.5	88.5	85.3	74.2	60.0	55.0	71.3	116 31	None.	None.
Arkansas.																
Alco	37.0	39.8	49.3	59.2	71.9	74.7	78.2	79.4	67.5	61.4	55.6	38.5	58.6	100 5	Apr. 8	Nov. 27
Amity	36.8	37.3	53.2	62.2	72.9	76.8	79.9	81.6	69.1	60.4	56.4	41.2	60.6	100 15	Apr. 1	Nov. 27
Arkadelphia	.....	.....	55.6	[d]62.2	.....	.....	80.4	[d]82.1	.....	64.7	.....	.....	.....	108	Mar. 20	Nov. 20
Batesville	37.6	32.6	51.6	59.0	74.0	76.8	81.4	81.8	70.2	63.2	56.6	45.6	60.4	104 9	Apr. 8	Nov. 27
Beebranch	[d]38.2	34.0	.....	[d]60.8	[d]72.6	76.8	[d]80.2	[e]80.8	[e]67.8	62.8	[d]56.4	[d]42.0	.....	100 10	.....	Nov. 27
Blanchard Springs	40.9	42.1	54.8	63.5	74.1	79.2	79.8	82.3	71.4	62.3	59.8	45.4	63.0	97 17	Apr. 1	Nov. 27
*Brinkley	38.8	35.0	54.2	60.9	74.2	77.8	79.9	80.2	68.7	62.2	55.8	41.9	60.8	99 15	Mar. 19	Nov. 3
Camden	40.7	39.8	55.6	64.6	75.5	80.3	81.0	83.7	71.2	65.0	59.8	44.2	63.4	100 20	Mar. 18	Nov. 26
Conway	38.7	35.6	[e]55.1	63.4	74.8	[e]79.0	82.1	.....	.....	63.8	55.8	40.4	.....	107 10	Mar. 19	Nov. 26
Corning	33.7	27.9	49.6	55.8	72.8	74.8	79.1	78.3	65.0	60.2	53.2	37.0	57.3	102 −2	Mar. 19	Oct. 28
Dallas	38.6	37.4	52.4	63.0	73.2	76.9	77.6	81.6	68.2	62.2	56.2	40.2	60.6	100 14	Mar. 31	Nov. 27
*DeQueen	.....	.....	.....	.....	.....	80.8	80.8	84.0	70.6	64.2	[e]58.3	[e]43.4	.....	103	.....	Nov. 26
Dutton	35.2	31.1	48.2	57.9	68.0	72.2	73.8	75.7	63.4	59.8	54.2	37.4	56.4	92 2	Apr. 8	Nov. 18
Elon	[e]39.4	[d]42.2	[e]53.5	.....	[e]73.7	79.4	[d]81.2	.....	.....	.....	.....	[e]46.3	.....	 17	Apr. 1	.....
Eureka Springs	.....	.....	.....	.....	70.7	74.0	77.4	80.0	67.0	62.2	53.8	37.3	.....	102	.....	Nov. 18
Fayetteville	35.4	32.0	50.0	59.2	71.6	78.0	79.4	78.8	64.4	60.7	53.0	[d]34.2	58.1	104 1	Mar. 31	Nov. 15
*Forrest City	.....	32.8	49.8	60.4	76.0	80.0	[e]80.8	80.4	69.2	62.6	57.2	40.2	.....	104	Mar. 19	Nov. 27
*Fort Smith	37.7	36.5	53.0	62.8	73.7	79.2	80.4	82.4	68.6	63.7	55.8	39.4	61.1	101 10	Mar. 18	Nov. 27
Hardy	36.1	.....	.....	.....	.....	.....	.....	.....	[e]64.0	61.6	55.1	38.8	.....	.....	.....	Nov. 27
*Helena	40.8	[d]31.6	.....	60.6	74.8	78.5	80.1	80.7	70.2	63.3	56.2	.....	.....	100 10	Apr. 4	Nov. 3
Ione	37.4	35.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....
Jonesboro	41.0	34.0	54.0	62.4	75.2	78.0	.....	[e]80.4	[e]69.6	62.8	[e]56.2	[e]39.6	.....	103 12	Mar. 19	Oct. 29
Keesees Ferry	35.6	31.6	50.6	58.6	71.2	74.6	78.6	.....	.....	.....	.....	.....	.....	.....	Apr. 8	.....
Lacrosse	[e]35.0	29.6	51.2	58.2	72.6	[d]74.4	79.4	79.2	66.2	62.0	[e]55.0	.....	.....	101 7	Mar. 19	Nov. 27
*Lake Village	.....	.....	.....	.....	.....	80.1	80.8	82.1	70.8	63.8	61.0	45.2	.....	99	.....	Nov. 28
*Little Rock	39.2	36.1	54.2	62.7	74.6	78.6	80.4	81.4	69.7	63.9	57.8	41.7	61.7	97 16	Mar. 18	Dec. 5
Lonoke	.....	.....	52.4	61.0	73.2	77.1	80.0	80.2	68.3	61.7	56.8	41.2	.....	103	Mar. 20	Oct. 29
Lutherville	38.1	34.2	.....	.....	72.2	76.6	77.2	77.8	67.4	62.8	52.9	41.2	.....	99 9	.....	Nov. 14
*Malvern	39.8	38.6	55.8	61.9	74.1	78.6	80.6	83.0	70.2	63.0	57.2	41.6	62.0	103 15	Apr. 1	Nov. 18
Marianna	38.8	33.2	50.2	61.9	75.2	79.4	81.2	80.8	69.5	62.1	56.8	41.9	60.9	101 14	Mar. 20	Oct. 29
Marvell	39.5	35.9	54.5	62.2	75.1	79.4	81.0	81.6	70.8	64.1	58.6	43.2	62.2	101 14	Apr. 19	Nov. 28
Mossville	33.6	.....	.....	58.0	69.0	73.0	73.7	76.2	62.3	.....	.....	35.7	.....	93	Apr. 8	.....
Mountain Home	.....	.....	51.7	59.0	72.2	74.8	78.4	80.4	66.4	61.0	53.2	35.9	.....	102	Apr. 8	Oct. 28
Mount Nebo	36.4	31.6	50.2	59.6	71.6	75.6	75.6	78.0	66.0	61.7	55.8	37.0	58.1	93 8	Mar. 19	Nov. 27
New Gascony	38.6	37.0	55.0	62.0	73.8	81.3	81.5	81.8	70.9	63.6	58.4	[e]40.6	62.0	106 12	Mar. 19	Nov. 28

[1] Agricultural Experiment Station.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Arkansas—Continued.																	
Newport[1]	36.9	31.7	.....	.....	74.8	77.7	81.2	81.0	67.6	60.6	56.1	39.6	.....	103	10	.....	.....
*Newport[2]	27.8	31.8	53.0	60.1	74.6	78.0	79.8	80.0	66.6	61.4	56.1	40.4	60.0	101	12	Mar. 20	Oct. 29
Oregon	35.0	29.8	48.2	57.2	70.3	73.2	76.9	78.4	69.8	60.3	52.6	35.8	57.3	102	2	Apr. 8	Oct. 14
Osceola	38.8	34.0	52.6	61.4	75.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	Mar. 19	.....
Ozark	38.0	35.4	52.9	64.2	75.2	[a]80.4	82.2	82.2	70.2	65.0	56.8	[a]39.5	61.8	103	12	Mar. 18	Nov. 27
Perry	.....	.....	.....	.....	.....	78.6	80.0	80.3	67.5	61.2	55.8	41.2	.....	98	.....	.....	Oct. 29
*Pine Bluff	38.4	35.5	53.8	62.2	75.3	79.8	81.6	83.0	70.2	62.7	57.4	41.5	61.8	103	17	Mar. 20	Nov. 19
Pocahontas	35.2	29.7	51.5	59.4	73.2	75.5	79.4	79.4	66.0	61.3	54.8	37.6	58.6	102	2	Apr. 8	Oct. 29
Pond	34.4	30.6	48.3	57.4	70.6	74.4	76.8	79.4	[a]64.0	60.5	55.3	35.6	57.3	98	0	Apr. 8	Oct. 28
*Prescott	40.7	39.8	56.6	[a]65.6	73.8	78.4	79.8	82.6	72.1	67.8	.....	43.9	.....	97	19	Mar. 18	Nov. 27
Princeton	.....	.....	.....	[a]64.4	73.7	78.2	79.5	81.6	70.3	63.1	57.7	42.8	.....	98	.....	.....	Nov. 28
Rison	[a]35.0	39.8	.....	63.8	75.2	80.6	83.4	83.3	70.8	[a]63.3	[a]6.9	42.2	.....	105	14	Apr. 1	Nov. 18
Rosadale	40.7	40.8	56.1	64.5	74.9	80.9	81.4	84.2	71.6	65.0	59.3	44.2	63.6	101	18	Apr. 1	Nov. 27
*Russellville	37.5	34.8	50.6	60.9	73.2	78.5	80.4	80.8	68.0	61.6	56.8	38.8	60.2	101	15	Apr. 11	Nov. 27
Silversprings	35.1	31.2	49.0	58.0	70.4	74.2	77.0	79.0	65.2	60.9	53.6	36.6	57.5	100	3	Mar. 31	Nov. 15
Spielerville	36.8	36.2	53.6	62.2	73.6	79.5	80.2	81.1	69.0	63.4	56.0	39.4	60.9	101	3	Mar. 19	Nov. 18
Stuttgart	38.6	35.7	54.0	61.2	73.8	78.2	79.5	81.1	69.2	62.0	57.8	42.4	61.1	99	15	Mar. 19	Nov. 28
*Texarkana	43.2	43.6	58.2	66.2	76.1	81.0	80.5	84.0	72.4	64.3	59.8	45.2	64.5	102	20	Mar. 19	Nov. 26
*Warren	[a]41.8	40.0	56.0	62.9	73.6	78.8	[a]81.8	82.2	70.5	63.0	57.8	43.6	62.7	102	16	Mar. 20	Nov. 27
Washington	40.7	40.7	55.1	63.5	73.3	78.2	78.4	81.2	70.8	63.2	58.8	44.0	62.3	95	20	Mar. 18	Nov. 27
Wiggs	37.2	36.8	53.0	61.8	72.7	76.4	77.7	79.4	67.0	59.2	55.0	40.7	59.7	97	11	Apr. 1	Oct. 29
Winchester	40.4	37.5	55.7	62.4	74.4	[a]76.8	80.4	82.3	.....	63.0	58.7	45.0	.....	103	19	Mar. 20	Oct. 29
Winslow	34.8	30.2	46.8	57.4	68.4	72.6	74.8	76.3	63.4	59.8	51.2	34.6	55.9	93	2	Apr. 1	Nov. 26
Witts Springs	35.0	29.5	46.8	54.3	65.9	[a]69.2	74.9	[a]76.2	63.2	60.8	53.0	36.2	55.4	98	3	Apr. 8	Nov. 18
California.																	
Angiola	43.6	51.2	50.9	57.4	63.4	74.4	77.5	76.4	74.8	62.2	49.0	44.6	60.4	108	19	Mar. 3	Nov. 20
Azusa	54.5	54.8	56.2	[a]60.7	64.3	71.3	72.7	73.2	72.8	65.0	57.6	54.8	63.2	103	30	.....	.....
Bakersfield	42.6	52.8	52.4	59.7	64.8	76.2	78.4	77.6	75.4	.....	.....	47.2	.....	111	22	.....	.....
Berkeley	45.6	52.1	50.4	54.7	57.0	61.6	63.0	63.3	63.6	59.0	52.1	48.2	55.9	83	33	None.	None.
Bishop	39.0	42.3	43.4	52.8	59.6	70.2	[a]72.2	69.5	67.4	55.0	42.4	38.4	54.4	105	9	.....	.....
Boca (*a*)	24.0	33.2	30.8	39.2	42.0	50.9	62.1	57.6	56.6	.....	.....	27.0	.....	.....	.....	.....	.....
Bodie	19.7	25.8	18.8	32.4	39.8	50.4	54.4	51.6	48.4	35.2	24.7	22.2	35.3	85	−19	(†)	(†)
Bowman	36.4	35.8	35.0	41.3	48.4	65.1	66.7	66.4	64.6	49.8	38.6	36.0	48.7	102	9	.....	.....
Caliente (*a*)	44.9	53.4	55.4	54.1	57.8	.....	84.3	80.3	83.6	64.0	53.0	43.6	.....	109	31	.....	.....
Campbell	44.4	53.0	50.2	54.0	56.2	62.2	65.4	66.4	65.2	58.6	50.8	47.0	56.1	97	25	Jan. 30	Nov. 28
Cedarville	28.9	38.6	35.5	44.2	50.4	63.0	65.4	66.5	61.4	49.2	37.2	32.6	47.7	99	−12	June 2	Sept. 26
Chico	46.2	52.6	54.6	60.7	66.0	80.0	76.2	75.9	[a]72.4	.....	.....	[a]46.2	.....	114	25	.....	.....
Chino	48.8	52.4	51.1	58.1	65.4	73.4	73.1	73.4	71.2	63.0	57.3	50.0	61.4	106	28	Mar. 4	Nov. 21
Cisco (*a*)	31.6	31.4	31.0	33.2	38.2	52.0	57.1	56.0	55.8	42.4	32.2	29.6	40.9	88	8	.....	.....
Claremont	51.4	50.9	50.0	55.0	57.8	65.7	69.1	68.2	68.4	61.4	53.4	49.4	58.4	106	25	Jan. 30	Nov. 20
Cloverdale	.....	.....	.....	.....	59.2	71.9	72.7	70.4	63.8	60.4	51.6	47.2	.....	.....	.....	.....	.....
Colusa	.....	.....	.....	.....	.....	.....	76.6	74.5	71.9	61.4	50.6	45.2	.....	.....	.....	.....	.....
Corning (*a*)	46.6	48.7	49.2	54.5	63.3	79.2	83.0	77.9	75.4	65.4	53.3	47.6	61.7	112	30	Jan. 30	Dec. 15
Coronado	.....	.....	.....	.....	72.0	65.4	66.9	68.0	68.4	64.4	60.0	57.4	.....	.....	.....	.....	.....
Crescent City	45.6	49.4	46.4	49.9	53.4	54.8	56.6	57.2	55.4	54.6	50.2	47.0	51.7	80	30	Mar. 24	Dec. 2
Cuyamaca	33.6	37.8	35.5	46.1	48.4	59.8	60.8	62.2	59.2	48.4	39.1	36.5	47.3	88	9	July 11	Oct. 25
Delano (*a*)	42.7	55.0	53.7	59.5	67.7	85.1	87.0	83.8	81.6	70.1	54.5	46.8	65.6	112	24	.....	.....
Delta (*a*)	46.2	47.6	48.3	53.3	60.1	73.8	76.6	75.4	71.4	55.7	51.8	44.4	58.7	108	25	.....	.....
Drytown	41.1	50.8	49.2	55.2	61.0	72.3	75.0	72.2	70.5	60.1	49.3	45.1	58.5	111	22	.....	.....
Dunnigan (*a*)	43.3	52.2	51.8	57.7	65.4	77.8	82.8	78.6	75.1	63.0	51.6	47.2	62.2	114	27	.....	.....
Durham (*e*)	43.4	51.6	51.4	57.7	61.9	74.2	77.2	74.2	72.6	61.7	51.1	46.2	60.3	114	28	Mar. 14	Dec. 13
Edmanton (*a*)	33.2	36.0	34.4	41.3	47.5	60.6	63.4	63.6	61.8	48.6	39.0	34.4	47.0	97	8	May 3	Sept. 25
Elcajon	53.0	52.9	52.0	57.8	61.5	66.4	69.4	71.3	70.6	63.6	56.1	53.4	60.7	101	28	Jan. 31	Dec. 15
Elmdale	41.8	51.8	49.8	55.6	61.0	73.2	76.0	74.8	72.5	62.4	50.4	45.8	59.6	114	21	Feb. 3	Nov. 29
Elsinore	51.7	53.0	52.8	58.6	62.2	70.9	73.5	74.4	75.7	65.8	56.2	53.2	62.3	113	18	Mar. 25	Dec. 2
Escondido	50.4	51.8	53.0	57.9	62.8	69.2	71.2	71.2	68.8	61.0	52.4	48.5	59.8	102	24	.....	.....
*Eureka	46.6	52.2	46.8	50.8	54.2	54.8	56.2	57.0	55.0	55.7	51.8	49.8	52.6	77	29	Mar. 24	Dec. 28
Fallbrook	52.3	50.8	52.2	57.5	62.8	68.8	70.0	70.2	69.4	61.0	53.8	51.9	60.1	103	29	Jan. 31	Dec. 4
Folsom (*a*)	44.5	53.5	52.0	58.3	66.0	77.0	78.6	75.1	72.2	61.8	52.0	47.5	61.5	112	26	.....	.....
Fort Ross	48.9	51.8	49.9	52.6	54.8	56.8	57.8	59.4	61.2	62.6	52.1	49.3	54.8	86	33	.....	.....
*Fresno	43.2	52.6	52.0	59.0	64.4	78.2	80.4	78.4	76.0	64.3	51.3	46.9	62.2	110	24	Feb. 1	Dec. 14
Georgetown	44.4	44.6	45.0	49.8	55.3	69.0	72.6	72.6	72.7	58.6	46.1	44.5	56.3	105	22	Apr. 2	Nov. 20
Geyserville	.....	.....	.....	.....	61.0	77.7	85.0	76.8	67.6	.....	.....	45.6	.....	.....	.....	.....	.....
Gilroy (near)	45.6	53.2	51.0	55.5	57.6	63.9	66.2	67.2	66.4	60.9	51.1	48.0	57.2	104	22	.....	.....
Goshen (*a*)	45.0	52.6	54.8	63.2	.....	82.4	82.7	80.0	81.6	63.8	.....	.....	.....	.....	.....	.....	.....
Greenville	33.0	40.6	38.6	44.5	50.4	59.7	62.8	64.2	61.0	50.8	40.1	35.2	48.4	102	− 2	.....	.....
*Hanford	45.6	54.7	53.5	60.4	64.4	78.7	79.6	75.9	74.2	62.6	49.5	48.6	61.9	113	23	Feb. 2	Dec. 14
Healdsburg	44.0	52.0	52.0	55.0	58.0	66.6	69.0	67.0	66.6	59.4	51.6	47.7	57.4	102	25	Feb. 1	Nov. 28
Hollister	44.1	52.4	50.1	55.2	57.0	62.2	66.2	65.6	66.0	60.0	51.1	47.8	56.5	105	21	.....	.....
Idylwild	38.8	42.2	37.4	50.0	51.6	63.8	62.8	64.1	62.2	54.0	43.6	42.0	51.0	93	6	Mar. 28	Oct. 25
Imperial	55.2	60.0	61.5	74.9	82.0	89.9	88.2	90.2	85.7	74.2	58.4	52.8	72.8	.....	.....	.....	.....
*Independence	39.4	43.6	44.6	56.0	61.6	75.4	77.0	74.9	72.8	60.2	45.4	40.4	57.6	100	10	Mar. 24	Nov. 20
Indio (*a*)	53.5	57.1	63.2	74.8	79.0	88.8	88.8	93.3	89.5	75.8	61.4	51.5	73.1	117	28	.....	.....
Iowa Hill (*a*)	44.6	45.9	45.0	50.8	56.4	68.4	71.4	70.8	70.8	57.4	47.3	45.6	56.2	100	24	Mar. 14	Dec. 12
Irvine	59.1	59.0	60.1	65.0	.....	71.7	.....	72.4	71.9	66.4	60.0	56.2	.....	.....	.....	.....	.....
Jackson	40.8	45.8	44.6	51.0	56.8	70.4	73.6	72.2	72.4	60.6	49.4	46.5	57.0	101	23	Mar. 24	Dec. 28
Kennedy Gold Mine	38.0	44.5	43.1	49.8	54.8	67.6	71.1	68.9	68.8	56.4	48.9	40.9	54.0	104	20	.....	.....
Kent	43.7	51.6	50.8	[a]54.5	.....	63.2	.....	.....	.....	59.2	51.8	47.7	.....	.....	.....	Jan. 27	Dec. 17
King City (*a*)	48.0	56.0	55.9	62.2	61.8	61.5	68.1	68.6	67.9	58.1	48.4	48.4	58.7	107	22	Feb. 3	Dec. 8
Kono Tayee	43.7	48.7	48.2	54.4	57.6	69.6	73.6	73.8	73.0	59.6	49.7	44.6	58.0	101	29	Jan. 31	Dec. 29
Laporte (*a*)	31.9	34.9	32.6	38.7	45.6	57.0	59.0	59.0	57.3	45.2	35.8	32.7	44.1	91	8	June 2	Sept. 25
Legrand	.....	50.2	51.4	.....	.....	78.4	79.6	76.7	74.2	62.5	49.4	46.2	.....	115	23	.....	.....
Lemoncove	45.0	54.2	58.8	60.0	64.8	77.8	79.8	78.4	77.8	67.7	55.7	48.1	68.6	112	25	Jan. 31	Dec. 15
Lemoore (*a*)	42.8	51.9	53.2	62.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lick Observatory	40.9	40.0	36.6	41.3	46.4	58.4	66.7	66.9	68.2	58.0	41.6	41.8	50.2	93	13	.....	.....

[1] Cotton region observer.

† Killing frosts occurred every month.

[2] G. B. Irby.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
California—Continued.																	
Livermore	.....	54.4	51.8	54.6	62.0	68.4	71.6	70.6	69.8	61.8	52.9	48.3	.....	111	.....	Feb. 3	Dec. 13
Lodi	43.2	52.4	50.3	56.6	60.8	71.2	73.0	70.6	69.0	60.0	50.2	45.8	58.6	108	24	Feb. 1	Dec. 13
*Los Angeles	55.8	54.5	55.0	57.8	60.7	66.4	68.4	69.1	69.2	63.2	58.2	56.0	61.2	94	32	None.	None.
Los Gatos	44.6	51.9	49.7	54.6	57.4	65.4	68.3	68.2	66.9	59.5	50.8	48.7	57.2	100	27	.....	.....
Mammoth (*a*)	54.5	57.8	66.0	80.1	81.7	89.1	89.2	92.6	88.0	77.0	64.2	54.2	74.5	117	34	.....	.....
Manzana	44.7	50.2	46.4	.....	.....	79.6	81.5	74.8	79.7	62.8	49.2	42.6	.....	.....	.....	Feb. 19	Nov. 30
Merced	40.9	48.5	48.5	57.3	68.8	74.9	77.4	76.4	74.5	63.0	50.1	44.4	60.0	114	28	Mar. 3	Nov. 28
Mercury	.....	.....	53.8	.....	63.4	73.0	75.8	68.6	68.8	61.6	55.0	51.4	.....	.....	.....	.....	.....
Milton (near)	42.4	52.4	50.8	56.6	60.8	73.2	76.3	74.2	73.8	63.7	51.8	47.6	60.3	.....	.....	.....	.....
Modesto (*a*)	47.2	55.6	56.8	61.6	65.5	78.4	81.5	78.9	76.4	66.3	58.2	48.4	64.6	111	31	Jan. 28	Dec. 12
Mohave (*a*)	45.5	49.7	48.7	54.4	60.0	77.1	80.4	76.8	77.3	62.2	53.8	42.0	60.7	105	20	.....	.....
Mokelumne Hill (*c*)	39.8	46.6	44.6	49.8	53.0	67.0	69.1	68.2	68.8	56.7	45.8	42.8	54.4	90	28	Apr. 2	Nov. 17
Monterio	47.1	48.8	45.1	53.3	55.2	69.4	70.2	72.6	71.8	61.0	48.2	47.2	57.5	98	20	Apr. 2	Nov. 20
Monterey (*a*)	50.6	53.8	53.6	55.4	57.3	59.4	60.2	61.4	64.7	62.4	54.2	51.4	57.0	81	28	.....	.....
*Mount Tamalpais	45.0	44.4	44.9	47.8	50.3	65.0	67.3	65.8	69.6	56.2	47.4	44.4	54.0	100	26	Mar. 24	None.
Napa	43.6	51.6	49.9	54.2	57.8	66.4	69.8	69.6	68.7	61.8	51.8	47.8	57.8	103	27	Jan. 31	Dec. 28
Needles	55.8	61.0	62.9	74.7	80.7	91.2	93.0	93.2	87.2	73.4	.....	48.8	.....	115	30	.....	.....
Nevada	41.2	44.0	41.7	47.7	52.2	63.2	66.2	66.1	65.5	55.2	44.8	43.1	52.6	101	15	May 19	Nov. 1
Newcastle	47.6	51.0	51.0	57.9	64.2	.....	.....	80.8	74.6	62.6	50.1	45.4	.....	110	21	.....	.....
Newhall (*a*)	51.4	50.3	51.0	59.4	64.9	71.2	73.4	73.8	73.0	62.5	52.3	46.1	60.8	110	21	.....	.....
Newman	44.6	52.9	51.5	60.6	70.3	74.6	77.8	76.6	73.4	63.8	51.2	45.4	61.9	113	26	Feb. 3	Dec. 15
Niles	45.8	53.6	51.7	56.6	58.9	63.3	67.2	67.1	66.4	60.6	52.6	49.0	57.7	96	30	Jan. 30	Dec. 29
North Bloomfield	41.2	42.2	42.2	48.0	54.0	66.1	70.6	70.5	69.5	55.4	43.6	41.6	53.7	109	19	.....	.....
North Ontario	51.6	51.2	49.7	55.4	59.0	68.0	70.6	70.8	71.8	62.8	55.2	51.8	59.8	102	28	Mar. 25	Dec. 14
North San Juan (*a*)	43.8	49.5	44.2	47.4	53.1	62.4	69.0	72.7	73.8	61.0	51.0	46.7	56.2	105	22	Mar. 24	Nov. 23
Oakland	45.7	53.6	51.7	56.8	59.5	63.8	65.2	65.0	64.0	60.2	52.9	49.0	57.3	86	32	Jan. 27	Dec. 30
Ogilby (*a*)	61.5	62.2	65.9	76.3	81.4	93.4	95.4	93.8	92.1	82.2	64.9	57.2	77.2	122	39	.....	.....
Oleta (*a*)	40.0	47.5	45.0	52.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Orland (*a*)	44.0	51.8	51.6	56.6	65.7	82.0	88.2	84.7	76.2	68.4	59.8	48.5	64.8	115	25	Jan. 28	Dec. 15
Palermo	41.9	51.3	50.4	56.2	61.8	73.6	76.0	74.3	72.1	60.1	49.8	45.8	59.4	117	23	Jan. 31	Nov. 28
Paso Robles	43.8	49.2	46.8	52.8	57.2	66.9	69.1	65.7	66.4	56.6	46.2	42.4	55.3	110	18	.....	.....
Peachland (*c*)	44.8	53.2	51.0	55.9	58.8	66.4	68.2	65.9	65.0	59.9	52.6	48.2	57.5	94	27	Feb. 1	Nov. 22
Pine Crest	56.8	54.6	53.6	57.4	59.6	64.8	66.0	66.0	67.6	62.0	57.6	55.0	60.1	100	36	.....	.....
Placerville	39.6	47.1	43.2	49.8	56.1	66.2	68.8	67.3	66.0	54.5	44.4	42.7	53.8	102	18	.....	.....
Point Lobos	47.2	51.8	50.0	53.8	54.4	55.1	56.9	59.4	60.0	57.6	54.2	50.0	54.2	80	36	.....	.....
*Point Reyes Light	49.0	50.8	49.6	51.8	52.3	52.3	54.0	57.6	59.0	56.4	53.6	51.2	53.1	78	36	None.	None.
Pomona (near)	53.0	54.2	55.2	60.6	64.1	72.5	74.0	73.8	72.8	62.6	53.8	50.4	62.2	112	28	Mar. 25	Nov. 21
Porterville	42.2	52.0	51.5	59.0	68.0	°77.2	77.8	77.5	75.8	64.8	53.4	47.7	62.2	111	26	Jan. 27	Nov. 26
Poway (*c*)	53.6	54.2	53.4	58.2	63.0	69.2	70.8	71.3	70.8	‡63.3	55.8	52.8	61.4	96	27	Jan. 31	Dec. 14
Quincy	32.1	41.0	39.6	46.8	53.1	61.5	63.8	63.8	58.4	49.2	40.0	35.0	48.7	97	3	May 3	Aug. 27
*Redbluff	44.0	50.2	51.6	56.6	62.5	77.0	80.0	78.6	76.3	63.0	51.3	45.2	61.4	115	28	Jan. 31	Dec. 29
Redding	44.2	49.4	50.4	55.9	61.7	76.0	79.6	79.0	76.4	62.8	50.4	45.4	60.9	111	28	Mar. 14	Nov. 20
Redlands	52.6	53.2	53.8	60.0	64.3	72.4	75.2	74.5	74.6	64.4	54.6	51.5	62.6	110	30	Jan. 31	Nov. 24
Reedley	43.8	54.0	54.2	63.0	71.5	80.5	79.2	76.0	73.0	61.1	49.4	47.2	62.7	112	21	Mar. 7	Dec. 3
Represa	43.3	52.3	50.8	56.1	60.6	72.4	74.6	72.4	70.4	60.4	50.3	44.6	59.0	106	24	Mar. 14	Nov. 28
Riovista	43.4	53.2	52.2	58.2	62.3	77.0	76.0	71.9	70.2	62.2	51.6	46.5	60.4	109	25	.....	.....
Riverside	51.6	52.9	53.2	58.4	62.2	69.4	72.0	71.2	71.0	62.0	53.2	50.8	60.7	105	26	Jan. 31	Dec. 2
Rohnerville (*c*)	45.9	51.8	.....	.....	56.6	57.7	.....	61.1	.....	55.6	49.3	46.2	.....	.....	.....	Mar. 25	Sept. 29
Rosewood	42.0	48.0	49.4	55.0	61.5	76.2	78.4	76.7	72.5	59.2	48.2	42.6	59.1	115	18	Mar. 3	Nov. 20
*Sacramento	43.3	52.0	52.2	56.4	60.0	70.6	73.2	71.4	70.7	61.8	51.4	46.9	59.2	107	29	Feb. 1	Nov. 25
Sacramento	44.3	53.0	52.6	58.3	62.4	71.2	72.4	70.2	68.4	59.8	50.0	46.8	59.1	105	27	.....	.....
Salinas	50.2	54.4	50.1	54.9	57.0	60.3	61.8	64.2	65.2	58.8	51.0	48.8	56.4	92	28	Mar. 13	Nov. 28
Salton (*a*)	57.0	58.4	65.0	79.2	83.7	97.0	97.6	97.8	93.5	78.4	62.6	55.1	77.1	127	28	.....	.....
San Bernardino	52.4	53.6	53.2	58.6	62.5	71.0	73.6	73.0	72.8	63.1	54.3	51.4	61.6	112	24	Jan. 30	Nov. 21
*San Diego	56.4	54.8	54.8	57.2	60.2	62.2	65.4	66.8	66.2	62.6	58.3	55.8	60.1	81	36	None.	None.
*San Francisco	46.7	52.9	51.6	54.4	55.5	56.9	59.2	60.6	61.9	59.3	54.8	50.6	55.4	83	38	Jan. 29	Dec. 30
San Jacinto	51.4	52.4	52.0	58.8	63.4	73.1	75.2	73.6	74.4	63.4	52.9	50.0	61.7	112	25	.....	.....
*San Jose	47.4	.....	.....	57.2	57.6	63.2	66.8	67.4	67.6	62.2	53.2	50.3	.....	98	27	Jan. 27	Nov. 28
San Leandro	44.8	53.2	50.3	55.8	57.8	62.7	64.5	64.8	64.2	59.4	51.6	47.2	56.4	90	28	Jan. 28	Dec. 30
*San Luis Obispo	53.1	54.0	52.5	57.0	58.1	62.5	63.9	63.7	65.3	61.8	55.8	52.6	58.4	93	26	Jan. 30	Nov. 28
San Mateo (*a*)	47.2	52.2	50.7	57.4	60.9	67.5	69.1	66.9	66.9	62.4	53.5	48.6	58.6	90	32	.....	.....
San Miguel (*a*)	45.6	51.0	51.2	58.1	61.4	71.0	72.3	69.5	69.9	61.2	51.9	45.8	59.1	104	20	.....	.....
San Miguel Island	53.8	51.8	50.3	53.0	54.4	53.3	57.8	59.4	62.0	59.8	55.2	52.6	55.3	78	33	.....	.....
Santa Barbara	54.8	54.8	54.0	57.2	59.0	62.8	65.3	65.4	66.0	61.8	57.6	54.2	59.4	90	35	.....	.....
Santa Cruz	47.2	50.3	50.0	54.2	56.5	59.9	61.6	62.8	62.2	58.0	52.0	49.6	55.4	93	26	Mar. 21	Nov. 28
Santa Maria	51.4	53.6	51.4	55.8	56.6	61.4	63.7	64.5	65.3	62.2	55.6	52.3	57.8	94	26	.....	.....
Santa Monica	52.2	50.8	53.0	53.8	56.3	59.5	62.8	63.0	63.7	58.2	55.7	53.6	56.9	82	33	.....	.....
Santa Paula	57.7	55.4	56.0	61.4	.....	68.9	72.1	71.0	70.6	62.7	59.5	59.3	.....	105	35	.....	.....
Santa Rosa	49.4	55.6	53.4	55.6	58.3	64.3	66.8	66.0	65.8	58.6	51.4	46.6	57.7	101	25	.....	.....
Shasta	46.4	48.0	52.4	57.0	65.2	77.4	81.4	80.4	77.7	63.4	50.1	44.6	62.0	114	25	.....	.....
Sierra Madre	54.8	53.0	52.8	57.6	61.2	67.9	70.1	69.8	70.2	62.8	56.2	53.8	60.8	102	33	.....	.....
Stockton	41.7	51.0	50.4	55.8	58.8	70.4	72.6	71.0	68.7	60.6	50.0	45.1	58.0	103	25	.....	.....
Storey	43.1	48.8	50.5	56.8	62.7	75.0	77.3	76.7	73.4	61.0	48.2	45.0	59.9	114	26	Jan. 31	Dec. 21
Summerdale	38.2	37.8	35.4	41.9	47.6	62.0	65.0	64.8	65.6	52.6	40.5	39.9	49.3	93	7	May 19	Oct. 25
Susanville	30.8	39.7	36.4	46.3	53.7	65.9	67.0	65.8	61.6	49.8	37.5	32.5	48.8	95	− 2	May 3	Sept. 26
Tehama (*a*)	46.4	51.6	53.5	60.4	67.7	83.4	85.5	82.1	78.7	65.2	54.9	50.4	65.0	117	30	Jan. 31	Dec. 27
Tejon Ranch	44.6	54.6	52.4	58.2	63.6	77.8	79.8	77.8	76.8	63.4	51.2	49.2	62.4	102	30	.....	.....
Templeton (*a*)	37.2	43.6	46.2	50.0	54.9	64.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Truckee (*a*)	25.5	30.9	37.4	47.9	45.4	47.8	52.4	57.2	49.9	39.0	35.1	29.2	41.5	92	−20	.....	.....
Tulare	44.3	54.4	53.8	59.6	64.9	75.9	78.0	76.4	74.2	63.5	53.1	48.3	62.2	110	20	Jan. 31	Nov. 22
Ukiah	42.4	49.8	47.4	52.6	56.6	65.0	68.8	68.6	67.1	58.0	49.1	45.0	55.9	112	21	May 2	Nov. 28
Upperlake	43.0	47.6	47.5	51.8	56.4	67.8	71.0	72.0	70.0	57.6	48.4	42.7	56.8	111	21	Mar. 24	Nov. 1
Upper Mattole (*a*)	43.1	48.6	44.4	49.4	54.3	56.7	59.5	61.4	59.2	52.5	49.9	45.9	52.1	104	23	Mar. 24	Nov. 20
Vacaville	44.4	52.6	52.5	57.6	61.8	72.7	75.2	73.0	72.7	62.1	52.6	47.5	60.4	112	26	Feb. 3	Dec. 18
Ventura	55.9	54.1	55.4	55.2	59.0	63.8	64.9	.....	65.7	62.2	56.6	.....	59	84	.....	.....	.....
Visalia	44.6	53.3	.....	58.2	.....	.....	80.2	76.9	73.8	61.8	50.4	46.0	.....	.....	.....	Jan. 31	Nov. 25
Volcano Springs (*c*)	53.9	60.4	63.4	77.9	84.2	96.5	99.6	99.4	92.0	75.2	63.0	59.4	77.2	129	28	.....	.....
Wasco	45.1	.....	57.4	69.5	65.1	77.6	83.2	80.6	76.8	63.7	50.2	45.8	.....	112	25	Jan. 12	Nov. 21
Wheatland	42.9	51.5	50.4	56.4	61.1	71.2	73.5	71.8	70.4	60.9	49.6	45.4	58.8	111	26	Feb. 1	Nov. 20
Williams (*a*)	46.2	55.5	54.4	61.2	66.7	81.0	83.1	80.4	77.0	65.5	54.7	50.3	64.7	113	33	.....	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
California—Continued.																	
Willits	.....	.....	.....	53.2	57.0	64.8	68.8	69.0	68.6	56.4	49.0	44.2	.....			.....	.....
Wilmington (*a*)	51.7	54.9	52.7	54.4	58.1	63.0	.....	.....	.....	.....	.....	.....	.....			.....	.....
Willows	46.8	55.2	56.6	56.6	61.8	74.6	77.6	75.4	73.8	60.8	51.0	45.7	61.3	111	27	.....	.....
Wire Bridge (*e*)	43.8	50.6	50.6	58.1	63.6	74.6	78.2	76.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Yreka	36.4	44.7	42.4	*48.1	55.0	63.4	67.8	69.7	63.6	.....	42.5	.....	.....	.....	.....	.....	.....
Yuba City (*e*)	45.8	54.2	55.2	63.9	67.7	77.0	79.5	78.9	73.6	65.0	54.0	48.6	63.6	106	26	Mar. 14	Nov. 22
Zenia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41.8	.....	.....	.....	Feb. 10	Nov. 20
Colorado.																	
Alford	27.4	32.6	33.0	43.1	52.8	61.0	63.4	67.4	56.9	47.3	36.8	30.4	46.0	98	−25	June 21	Sept. 12
Arkins	.....	.....	.....	.....	.....	.....	67.7	71.2	61.2	.....	.....	32.0	.....	100	.....	.....	Sept. 12
Ashcroft	.....	*22.8	19.3	35.4	45.9	54.8	55.1	55.8	47.4	39.6	26.2	19.7	.....	89	−17	(†)	(†)
Blaine	32.3	36.4	42.5	52.8	66.0	71.8	76.3	79.8	65.6	56.9	44.0	31.8	54.7	111	−11	Apr. 29	Sept. 30
Boulder	32.1	38.0	39.1	48.8	59.2	66.8	69.2	71.8	60.8	55.0	42.0	36.5	51.6	97	−20	(†)	(†)
Breckenridge	14.1	20.2	18.9	29.2	41.8	50.2	51.2	52.8	44.8	36.5	25.6	14.4	33.3	84	−29	(†)	(†)
Canyon	31.6	39.6	40.6	51.6	61.7	69.9	71.4	73.5	62.4	54.0	42.2	37.4	53.0	102	−20	Apr. 27	Sept. 12
Castlerock	27.4	34.4	35.2	47.4	57.6	65.4	67.6	68.6	58.5	49.7	39.4	31.0	48.5	98	−22	July 7	Sept. 12
Cedaredge	31.2	36.2	36.5	50.4	56.8	67.0	68.0	69.2	60.5	51.9	37.9	27.4	49.4	98	− 6	May 22	Sept. 12
Cheesman	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30.6	.....	.....	.....	.....	Sept. 12
Cheyenne Wells	28.8	33.2	39.7	50.0	†60.6	67.4	72.4	73.6	59.1	55.0	40.0	27.9	50.6	104	−14	Apr. 28	Sept. 12
Clearview	25.2	27.0	23.0	39.2	46.6	56.4	55.4	59.0	51.0	43.4	34.8	25.9	40.6	86	−10	June 21	Sept. 10
Collbran	24.4	31.4	33.8	49.3	57.2	66.9	67.4	69.4	60.2	49.2	35.4	22.4	47.2	100	−13	June 3	Sept. 29
Colorado Springs	27.6	34.1	34.8	46.6	57.0	64.7	65.8	68.0	57.4	50.2	38.0	32.6	48.1	98	−16	Apr. 26	Sept. 12
Delta	28.0	33.2	37.4	52.1	59.6	69.4	69.5	72.6	62.2	50.0	38.0	20.7	49.4	103	−20	May 21	Sept. 12
*Denver	29.0	37.0	38.0	49.4	59.9	67.4	70.2	72.4	61.0	53.0	41.2	33.2	51.0	100	−20	Apr. 22	Sept. 12
Durango	30.7	32.6	34.0	43.4	55.4	66.6	66.4	68.1	59.9	50.2	38.3	26.4	48.1	99	−10	May 22	Sept. 21
Fort Collins	24.4	32.0	35.2	45.7	56.1	63.6	66.0	68.7	56.8	48.8	36.1	27.0	46.7	100	−31	May 6	Sept. 12
Fort Morgan	26.6	32.5	37.8	49.2	60.2	66.3	69.2	72.0	.....	50.6	36.0	21.6	.....	100	−22	Apr. 26	Sept. 30
Fox	27.0	31.8	32.8	50.8	61.2	67.4	71.0	73.7	60.5	52.1	39.6	25.5	50.0	103	−17	Apr. 27	Sept. 12
Fruita	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	†37.4	23.2	.....	.....	.....	.....	.....
Garnett	20.6	26.2	27.6	43.1	50.4	61.1	60.6	61.8	53.0	42.0	28.8	11.6	40.6	92	−32	July 6	Sept. 11
Gleneyre	27.0	34.0	35.0	46.6	56.1	63.0	65.2	67.2	56.6	49.8	37.4	32.5	47.5	101	−18	May 20	Sept. 11
Glenwood Springs	.....	.....	.....	.....	.....	62.4	62.4	.....	.....	.....	.....	.....	.....	.....	.....	(†)	(†)
*Grand Junction	30.0	34.3	39.2	54.5	62.5	74.0	75.3	75.6	65.7	55.0	39.8	24.2	52.5	103	− 4	Mar. 27	Nov. 2
Greeley	25.6	33.8	36.8	49.0	58.5	67.8	69.6	72.4	60.4	50.9	38.0	24.0	48.9	103	−24	Apr. 27	Sept. 12
Gunnison	13.2	20.8	22.8	41.8	49.4	58.2	58.5	60.4	52.0	42.2	29.0	11.8	38.3	92	−35	(†)	(†)
Hamps	27.0	32.8	34.2	45.8	56.4	62.9	65.4	68.5	55.6	49.1	36.5	27.2	46.8	99	−19	May 21	Sept. 11
Hoehne	31.3	38.2	39.6	54.0	60.9	70.1	71.4	72.6	66.6	58.6	43.3	.....	.....	103	.....	May 20	Oct. 27
Holly	31.8	36.2	43.7	54.6	66.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(†)	(†)
Holyoke (near)	26.6	29.2	*40.4	48.0	60.4	65.4	70.0	72.8	*58.4	*52.2	37.4	22.8	48.6	104	−24	Apr. 25	Sept. 12
Husted	25.2	31.8	33.8	44.0	54.6	61.8	63.6	65.8	55.1	47.2	35.2	30.8	45.7	97	−18	May 22	Sept. 12
Lake Moraine	21.7	24.2	21.4	35.2	42.8	52.5	53.0	54.7	46.5	37.2	29.3	.....	.....	81	−10	(†)	(†)
Lamar	33.0	38.4	44.5	55.8	67.8	73.4	76.8	79.2	66.6	57.1	43.7	31.4	55.6	105	− 8	Apr. 23	Sept. 27
Las Animas	30.2	36.8	42.8	53.2	64.7	70.9	74.4	75.4	64.2	53.8	39.4	30.0	53.0	105	−11	Apr. 24	Sept. 11
Lay	19.2	28.8	29.6	42.0	50.0	60.6	62.1	63.5	53.2	43.2	30.2	18.4	41.7	98	−29	(†)	(†)
Leroy	26.8	30.6	37.4	46.8	58.5	65.6	70.4	71.2	59.4	52.4	38.3	25.0	48.5	104	−20	Apr. 26	Sept. 12
Longs Peak	22.8	27.0	22.8	35.6	42.8	52.1	52.0	54.6	47.1	39.6	29.3	26.2	37.7	83	−15	July 21	Sept. 1
Mancos	.....	.....	35.8	.....	.....	61.4	63.2	65.2	57.0	48.2	36.1	27.3	.....	95	.....	July 7	Sept. 21
Mecker	21.0	30.4	32.0	45.0	52.6	62.0	63.4	63.7	55.1	47.0	33.5	22.2	44.0	96	−28	June 3	Sept. 12
Moraine	26.2	30.4	*26.0	38.4	47.0	56.6	58.2	59.7	52.6	44.0	34.4	27.4	41.7	89	−13	June 18	Sept. 1
Pagoda	.....	.....	.....	.....	51.1	59.0	60.6	62.3	54.6	47.5	32.8	22.7	.....	.....	.....	(†)	(†)
Parachute	27.5	33.4	36.8	49.2	59.0	68.2	69.8	71.6	60.6	51.4	38.3	24.0	49.2	104	−15	May 22	Sept. 13
*Pueblo	28.8	37.0	39.6	51.0	62.3	69.8	72.4	74.1	61.7	53.4	40.5	32.2	51.9	104	−10	Apr. 26	Sept. 12
Rangely	20.6	31.2	34.0	.....	.....	.....	70.6	66.6	57.2	49.0	35.6	16.8	.....	.....	.....	.....	Sept. 12
Rockyford	29.7	37.8	41.9	53.5	63.9	71.2	73.9	75.5	62.0	53.6	41.7	30.3	52.9	104	−10	Apr. 26	Sept. 12
Rogers Mesa	29.2	32.8	34.8	50.7	58.3	69.0	69.3	71.2	61.8	52.0	37.9	22.8	49.2	103	− 7	May 22	Sept. 27
Russell	19.9	23.6	24.8	42.5	47.6	55.6	56.6	59.0	50.1	40.3	29.0	17.0	38.8	92	−28	(†)	(†)
Saguache	25.0	29.4	32.3	45.8	54.6	62.0	62.6	63.4	54.8	45.4	30.6	15.3	43.4	90	−20	July 6	Sept. 12
Salida	28.4	34.0	33.3	45.6	54.1	63.0	64.6	65.6	57.7	47.6	37.6	30.0	46.8	100	−14	June 7	Sept. 12
San Luis	24.4	29.3	30.8	44.4	50.6	60.8	60.4	61.8	54.9	45.0	32.8	19.2	42.9	91	−28	June 3	Sept. 12
Santa Clara	28.0	32.8	31.8	45.4	53.3	62.3	62.9	65.0	55.9	47.6	36.6	30.0	46.0	94	−10	May 28	Sept. 12
Silt	28.2	32.4	34.0	48.3	56.8	68.6	68.6	72.9	61.6	52.0	37.9	25.2	48.9	101	− 6	May 22	Sept. 27
Sugarloaf	.....	*27.6	*37.7	40.6	51.2	60.6	63.2	66.4	53.6	44.5	33.8	30.8	.....	97	−18	May 22	Sept. 11
Telluride	21.9	.....	.....	40.8	48.5	59.4	58.0	59.2	51.4	42.8	.....	*21.5	.....	.....	.....	July 7	Sept. 12
Trinidad	33.9	39.4	39.0	53.0	60.2	68.4	70.2	70.7	60.8	52.4	42.4	36.0	52.1	98	−11	Apr. 16	Sept. 12
Wagon Wheel	17.7	20.2	24.2	37.8	44.0	54.0	53.4	56.2	48.4	39.4	26.0	12.0	36.1	89	−31	(†)	(†)
Walden	17.2	25.4	23.5	36.5	47.2	55.8	†55.8	.....	.....	.....	.....	.....	.....	.....	.....	(†)	(†)
Westcliffe	25.8	29.6	28.6	43.2	50.3	60.0	60.6	61.0	52.4	44.4	33.4	28.6	43.2	92	− 9	June 14	Sept. 9
Whitepine	.....	17.7	17.2	33.4	42.4	51.4	51.6	54.1	46.6	36.5	21.6	14.7	.....	81	−23	(†)	(†)
Wray	28.7	31.5	41.1	52.0	62.2	69.0	72.1	73.2	61.4	53.0	40.2	26.5	50.9	101	−16	Apr. 26	Sept. 12
Connecticut.																	
Bridgeport	26.6	27.8	42.3	48.4	58.0	65.3	71.0	*69.6	63.8	54.4	46.3	29.6	50.3	.....	.....	.....	.....
Canton	22.0	23.4	39.0	46.3	54.2	60.4	65.8	64.2	58.8	49.8	42.8	23.0	45.8	87	−13	May 29	Oct. 10
Clinton	.....	.....	.....	.....	54.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Colchester	25.8	27.0	41.8	47.4	57.4	64.2	66.9	66.8	62.1	53.2	46.3	27.8	48.9	88	−10	May 10	Oct. 10
Hartford	25.1	26.8	41.6	48.6	57.8	64.8	68.7	68.2	62.2	52.0	43.8	82.6	53.5	88	− 8	May 10	Oct. 22
Hawleyville	25.6	24.6	40.5	46.8	56.6	63.6	68.8	65.9	61.4	52.0	45.4	26.6	48.2	90	−11	May 10	Oct. 10
Middletown	25.4	26.1	42.6	48.2	58.0	66.0	69.5	.....	.....	.....	.....	.....	.....	93	0	May 10	.....
*New Haven	27.0	27.6	42.0	47.9	57.5	64.8	69.8	68.7	63.0	53.7	46.7	28.8	49.8	90	− 5	Apr. 1	Oct. 22
New London	24.8	26.4	42.0	48.6	59.0	62.4	68.5	68.0	63.1	53.5	46.1	27.8	49.2	90	− 6	Mar. 26	Oct. 22
North Grosvenor Dale	23.4	25.7	40.2	47.2	56.7	63.6	67.5	67.2	61.2	50.6	43.4	24.8	47.6	90	−11	May 28	Sept. 5
Norwalk	25.0	26.3	40.9	47.4	58.2	65.7	70.7	68.2	62.0	52.2	44.6	27.4	49.0	94	− 7	May 10	Oct. 10
Southington	25.7	25.1	41.4	47.6	57.0	64.0	68.2	66.2	61.4	52.9	44.9	25.9	48.3	88	−13	May 29	Oct. 10
Storrs	23.8	25.2	40.8	46.1	55.6	61.8	65.0	66.0	†61.4	50.3	44.2	25.6	47.2	89	− 9	May 28	Oct. 10
Voluntown	24.8	26.4	41.1	46.6	*56.8	63.0	66.9	†67.8	62.2	*53.6	45.7	28.4	48.5	90	−10	May 16	Oct. 10
Waterbury	25.8	25.7	42.0	48.0	58.4	66.2	70.7	69.0	62.6	52.8	45.4	26.8	49.4	93	−12	May 10	Oct. 10
West Cornwall	20.4	23.1	37.0	43.6	53.8	62.8	66.1	65.1	60.2	50.2	42.4	22.8	45.6	89	−15	May 29	Oct. 10
Winsted	21.4	22.1	39.4	46.4	.....	63.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

† Every month.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Delaware.																	
Milford	33.6	30.3	48.2	53.4	65.2	72.6	77.6	74.2	68.6	60.6	54.0	37.8	56.3	104	7		
Millsboro	31.8	28.0	45.7	50.8	63.5	70.8	76.2	72.3	67.4	59.8	52.6	36.0	54.6	101	6	Apr. 18	Oct. 22
Newark	28.6	27.4	43.6	51.8	[c]61.9	69.0	73.8	72.0	65.0	55.7	48.9	31.0	52.4	93	8		Oct. 22
Seaford	32.0	30.0	47.1	53.5	64.6	72.8	78.1	73.8	68.6	60.2	53.2	37.0	55.9	100	8	Apr. 16	Oct. 22
District of Columbia.																	
Distributing reservoir *e*	31.3	29.2	47.0	54.8	67.3	74.0	79.4	74.3	68.4	58.8	52.8	35.2	56.0				
Receiving reservoir *e*	30.2	28.8	46.3	54.4	66.8	73.0	78.8	73.4	67.4	60.2	51.6	34.6	55.5				
*Washington	31.8	29.8	46.7	52.9	65.4	71.8	77.0	72.6	66.8	57.6	51.3	34.4	54.8	99	5	Apr. 14	Oct. 22
West Washington	31.0	29.8	46.0	53.6	66.1	71.8	76.5	72.2	66.8	58.0	50.8	33.4	54.7				
Florida.																	
Archer	52.8	53.3	63.2	67.8	77.7	80.6	81.8	80.7	78.2	72.4	66.0	57.6	69.3	101	18	Mar. 19	Nov. 28
Avon Park	58.4	58.8	69.4	70.6	78.6	80.8	82.5	82.6	81.2	77.4	71.4	63.6	72.9	99	25	Jan. 23	Dec. 27
Bartow	58.8	59.0	69.5	70.6	79.0	81.6	82.2	82.6	81.9	78.2	73.2	65.3	73.5	97	21	Feb. 19	Dec. 27
Bonifay	50.0	50.6	61.0	65.2	77.0	81.3	82.7	83.4	78.4	69.2	63.2	53.8	68.0	102	19	Mar. 7	Oct. 30
Brooksville	53.2	52.8	.....	.....	79.0	80.4	82.1	82.0	80.0	75.4	69.7	61.2	.....	102	25	Feb. 20	Dec. 27
Carrabelle	50.8	51.8	61.8	66.3	77.9	81.0	83.2	83.0	78.7	71.2	66.5	57.9	69.2	97	26	Feb. 18	.....
Clermont	58.8	58.4	68.2	70.4	80.1	82.6	83.8	83.3	81.4	77.1	71.5	63.8	73.3	103	29	Jan. 13	Dec. 27
De Funiak Springs	51.0	48.6	61.1	65.4	76.8	81.2	82.0	82.0	76.6	67.8	61.8	52.6	67.2	104	17	Mar. 19	Nov. 28
De Land	55.2	53.7	66.2	67.9	78.6	.....	82.2	80.6	78.3	74.2	68.6	60.5	.....	97	18	Feb. 20	Dec. 27
Eustis	57.0	56.6	[d]67.0	71.2	79.6	82.4	85.2	84.3	81.3	76.8	70.5	62.6	72.9	104	27	Jan. 23	Dec. 27
Federal Point	52.7	52.3	62.8	67.1	.....	.....	82.4	81.1	79.2	74.0	69.1	59.4	.....	102	22	Mar. 27	Dec. 27
Fernandina	51.1	49.9	60.0	64.8	76.4	79.8	82.4	81.5	77.6	72.6	65.6	56.7	68.2	98	25	Feb. 18	Dec. 26
Flamingo	62.0	63.8	70.7	70.6	78.9	81.8	[e]82.8	82.4	82.8	81.5	76.0	70.4	75.3	98	34	None.	None.
Fort Meade	56.8	57.4	65.8	69.9	78.4	80.8	82.1	81.9	81.0	77.3	70.5	61.7	.....	100	19	Feb. 19	Dec. 27
Fort Myers	57.3	58.9	68.6	70.8	78.4	79.8	80.6	81.3	79.2	76.6	70.8	63.8	72.2	94	31	Jan. 14	None.
Fort Pierce	58.7	57.6	68.4	69.6	76.2	80.2	80.4	80.5	79.2	77.6	72.4	65.6	72.2	98	31	Feb. 12	None.
*Gainesville	53.2	52.6	64.0	68.2	79.2	81.2	82.4	81.9	79.2	73.6	67.6	59.5	70.2	102	22	Feb. 19	Dec. 27
Grasmere	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	69.2	60.2	.....	.....	.....	.....	Dec. 27
Holt	52.5	46.4	57.6	64.6	[c]77.4	.....	81.2	.....	[b]75.8	65.8	[c]62.5	.....	.....	103	21	Mar. 19	Nov. 28
Huntington	55.0	53.2	64.5	67.9	77.5	79.6	82.8	81.6	80.2	74.6	68.5	60.5	70.5	102	20	Feb. 19	Dec. 27
Hypoluxo	64.0	63.6	70.6	71.9	76.3	80.0	81.2	80.8	80.0	79.2	75.0	66.8	74.3	95	39	None.	None.
Inverness	52.8	52.4	64.8	69.2	78.1	81.0	82.4	82.2	79.0	73.8	67.7	58.3	70.1	102	17	Feb. 18	Dec. 25
*Jacksonville	52.2	50.6	62.4	67.2	77.8	80.3	83.0	81.0	77.4	71.9	65.9	57.1	68.9	101	24	Feb. 11	Dec. 27
Jasper	51.3	50.1	61.0	66.1	76.2	.....	.....	.....	.....	72.2	65.2	55.0	.....	95	20	Feb. 25	Dec. 27
Johnstown	.....	.....	.....	.....	.....	79.5	80.8	80.3	[c]77.9	[b]72.8	[b]63.0	[b]57.8	.....	100	19	Feb. 23	Dec. 25
*Jupiter	62.8	62.0	69.6	72.2	77.8	80.4	81.6	82.6	81.2	79.1	74.3	69.0	74.4	96	38	None.	None.
*Key West	65.2	66.2	72.6	74.9	80.0	80.8	83.2	83.4	82.9	80.8	76.1	70.4	76.4	91	50	None.	None.
Kissimmee	57.2	57.1	67.2	69.8	79.6	81.6	83.3	[e]82.8	81.4	77.4	71.4	63.2	72.7	100	22	Jan. 22	Dec. 26
Lake Butler	52.2	[b]52.3	61.8	65.7	75.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake City	53.8	51.4	63.0	67.4	78.1	80.0	82.4	81.8	78.6	72.0	66.4	57.6	69.4	101	22	Feb. 25	Nov. 28
Macclenny	52.4	51.1	63.3	67.8	77.8	80.7	83.8	82.4	78.6	72.6	66.8	57.6	69.6	104	17	Mar. 7	Nov. 28
Malabar	.....	58.6	67.4	70.8	77.4	81.3	81.8	82.4	78.6	78.4	71.9	64.5	.....	100	30	Feb. 17	Dec. 27
Manatee	57.6	58.0	67.4	69.8	77.6	80.6	81.0	81.7	80.2	77.1	71.0	62.6	72.0	97	28	Jan. 18	Dec. 28
Marco	62.0	62.4	71.0	73.4	78.8	81.0	82.4	84.0	81.8	80.2	74.3	67.2	74.9	96	35	None.	None.
Marianna	.....	47.1	60.2	66.4	76.2	81.0	82.4	82.8	76.5	67.2	61.8	52.4	.....	99	18	Mar. 6	Nov. 28
Merritt Island	58.2	57.2	67.6	70.4	78.4	81.2	82.4	82.1	81.0	77.4	72.2	64.4	72.7	96	33	None.	None.
Miami	63.7	63.4	70.6	74.5	80.2	82.3	82.9	81.6	82.3	80.6	75.0	69.8	75.6	94	37	None.	None.
Micanopy	53.8	53.4	64.6	67.4	77.7	80.2	.....	.....	.....	.....	[d]67.1	57.9	.....	99	19	Feb. 19	Dec. 27
Middleburg	51.2	49.6	61.4	64.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Molino	.....	.....	.....	65.4	78.0	82.1	82.2	82.6	77.6	67.6	62.4	52.7	.....	105	22	Mar. 22	Nov. 28
New Smyrna	54.1	54.5	65.0	66.8	75.2	80.0	80.5	80.7	79.1	74.8	70.3	.....	.....	97	21	Feb. 20	.....
Nocatee	58.6	58.8	68.2	70.6	79.2	81.6	83.0	83.2	81.6	77.6	71.8	64.0	73.2	101	24	Feb. 11	Dec. 27
Ocala	55.0	53.8	64.2	68.3	78.2	81.0	82.5	81.8	79.9	74.2	67.8	59.4	70.5	102	19	Feb. 19	Dec. 27
Orange City	54.6	56.1	66.8	67.9	77.2	[c]79.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 7	.....
Orlando	56.6	56.9	67.4	70.6	78.2	81.4	82.8	82.4	80.2	75.9	70.2	62.4	72.1	99	26	Feb. 19	Dec. 28
*Pensacola	51.6	49.3	61.0	66.2	77.2	81.6	82.0	82.6	77.7	69.0	64.2	53.8	68.0	97	24	Feb. 11	Dec. 27
Pinemount	.....	.....	61.4	66.6	77.4	80.2	83.0	82.2	79.0	70.8	65.0	56.0	.....	102	20	Feb. 23	Nov. 28
Plant City	56.5	56.0	66.0	67.8	76.8	.....	.....	82.0	79.7	.....	.....	.....	.....	99	20	Feb. 19	.....
Quincy	52.0	48.2	60.2	65.8	78.6	80.8	83.8	82.6	.....	.....	.....	.....	.....	104	19	Mar. 19	None.
Rideout	.....	.....	.....	.....	76.0	79.5	82.3	81.4	78.6	72.1	65.9	57.8	.....	102	15	Mar. 20	Dec. 27
Rockwell	53.3	[c]55.4	64.4	68.8	79.3	.....	.....	.....	80.0	75.9	68.8	62.0	.....	100	20	Feb. 19	Dec. 27
St. Andrews	50.1	50.0	61.4	64.8	76.7	80.8	83.0	83.0	78.8	69.3	62.8	53.4	67.8	100	19	Mar. 19	Nov. 28
St. Augustine	54.6	.....	.....	67.8	77.2	80.0	81.6	81.4	79.2	74.6	68.2	59.2	.....	98	25	Jan. 28	Dec. 27
St. Leo	56.9	56.0	67.2	69.9	79.4	81.8	82.3	82.2	80.0	76.2	70.2	61.3	72.0	102	26	.....	.....
Stephensville	.....	.....	.....	.....	.....	.....	83.2	.....	.....	.....	65.8	55.0	.....	103	21	.....	Nov. 28
Sumner	53.6	51.1	62.7	65.5	76.1	78.6	81.0	80.4	78.6	73.2	66.6	58.4	68.8	101	15	Mar. 19	Dec. 7
Switzerland	51.4	51.8	63.0	66.7	76.4	79.5	81.6	80.9	78.2	73.0	67.2	[c]56.0	68.8	101	22	Mar. 7	Dec. 27
Tallahassee	51.8	49.7	59.6	66.4	76.7	80.7	81.4	80.4	76.3	68.4	64.0	55.6	67.6	98	22	Feb. 18	Dec. 27
*Tampa	57.2	56.2	66.2	69.9	78.2	80.1	81.5	81.7	79.7	75.8	69.9	61.8	71.5	96	29	Jan. 14	Dec. 27
Tarpon Springs	55.4	55.2	65.9	68.8	77.7	80.4	81.6	82.2	79.9	76.2	70.4	61.0	71.2	96	25	Feb. 18	Dec. 27
Titusville	56.0	55.6	66.2	68.1	76.8	80.0	81.4	[c]81.6	79.9	75.4	70.2	.....	.....	100	26	Feb. 19	.....
Waukeenah	52.2	49.0	61.7	66.6	78.2	82.2	83.4	82.4	77.1	[c]69.0	.....	53.4	.....	104	20	Mar. 19	Nov. 28
Wausau	50.6	49.4	61.2	66.2	77.3	[c]81.3	83.2	84.0	78.0	68.3	[c]61.8	54.2	68.0	105	16	Mar. 19	Nov. 28
Wewahitchka	50.0	46.8	58.8	66.0	77.0	80.4	82.0	[c]83.0	78.2	69.8	64.4	.....	.....	101	20	Mar. 5	Dec. 26
Georgia.																	
Adairsville	39.4	37.4	51.6	[c]58.3	74.2	.....	[c]81.4	[c]79.6	[c]70.2	[c]61.6	56.5	42.4	.....	100	16	Mar. 18	Nov. 28
*Albany	49.6	44.8	.....	[c]64.1	79.2	84.3	85.3	84.6	78.2	68.0	58.0	52.3	.....	104	27	.....	Nov. 28
*Allapaha	46.1	46.8	.....	[c]63.8	76.9	79.5	82.2	81.2	75.5	66.7	61.2	52.4	.....	101	19	.....	Nov. 28
Allentown	46.6	44.4	57.2	62.8	77.0	80.5	82.3	80.2	.....	.....	.....	.....	.....	.....	.....	Mar. 20	.....
Alpharetta	39.2	37.4	51.3	58.3	72.2	76.6	80.2	78.4	69.0	61.2	55.8	[c]42.0	60.1	99	13	Apr. 8	Nov. 28
*Americus	44.6	43.2	56.2	62.8	78.2	81.5	83.0	81.5	74.3	64.1	58.9	49.2	64.8	104	14	Mar. 19	Nov. 28
*Athens	40.2	.....	51.4	58.9	73.8	77.4	.....	78.8	70.4	62.0	57.4	43.7	.....	.....	16	Mar. 20	Nov. 28
*Atlanta	40.6	37.1	51.1	59.4	74.0	78.0	80.3	79.2	70.2	62.6	57.8	43.0	61.1	98	15	Mar. 6	Nov. 28
*Augusta	44.2	43.2	55.4	61.8	75.6	79.4	82.6	79.6	74.0	65.8	59.8	48.0	64.1	102	19	Mar. 20	Nov. 28
*Bainbridge	49.2	49.6	60.8	65.1	77.4	81.5	83.4	81.8	76.0	65.5	61.2	52.0	67.0	102	18	Mar. 7	Nov. 28

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Georgia—Continued.																	
Blakely		47.4	59.2					80.6	74.0	67.0	61.4	49.8		99	18	Mar. 18	Nov. 28
Bowersville	39.9	37.4	49.6	58.4	73.1	78.2	80.0	78.5	69.9	62.1	56.2	42.6	60.5	102	14	Apr. 9	Nov. 28
Brent	43.4	42.0	54.6	61.0	75.9	80.2	82.7	80.9	72.1	64.9	58.3	45.2	63.4	106	14	Mar. 20	Nov. 28
*Camak	43.8	40.3	54.6	60.2	76.0	79.2	82.6	80.2	72.2	63.4	58.6	46.2	63.1	103	16	Mar. 20	Nov. 28
Clayton	37.6	36.5	47.6	53.8	68.6	72.8	75.2	74.0	65.0	57.2	53.2	41.3	56.9	95	10	Apr. 8	Oct. 29
*Columbus	44.5	.....	55.8	63.2	77.8	83.2	85.2	83.4	76.0	65.4	59.6	48.8	.....	101	18	Mar. 20	Nov. 28
Coney												50.6					
Covington	41.4	38.2	52.6	60.2	75.4	79.8	83.0	80.0	72.1	63.6	57.6	44.4	62.4	104	14	Mar. 20	Nov. 28
Dahlonega	40.4	37.2	49.8	57.2	70.8	75.8	[a]80.4	76.2	67.4	61.3	55.8	41.6	59.4	96	13	Mar. 19	Nov. 28
Diamond	37.4	34.2	48.2	55.2	68.8	73.4	75.7	74.5	65.2	58.0	54.0	41.6	57.2	97	11	Apr. 9	Oct. 29
Douglas	47.5	47.0	60.4	67.1	78.5	81.8	84.2	83.0	75.6	67.9	62.6	54.0	67.5	108	18	.....	Nov. 28
Dudley									74.5	65.8	59.6	49.7	.....	105	12	.....	Nov. 28
*Eastman	.....	44.6	[b]56.8	.....	78.6	82.0	84.6	82.5	75.5	66.8	[c]60.8	49.4	.....	106	17	.....	Nov. 28
Elberton	42.4	41.0	54.3	61.4	75.4	79.2	81.6	79.4	71.6	62.5	56.9	43.9	62.5	104	15	Apr. 1	Nov. 28
Experiment	42.6	40.0	53.6	60.8	75.2	79.1	81.8	79.6	71.2	62.8	57.6	44.5	62.4	101	14	Mar. 19	Nov. 28
Fitzgerald	47.6	45.8	57.8	64.8	78.6	81.2	83.0	81.0	76.1	66.9	61.2	50.5	66.5	106	16	Mar. 18	Nov. 28
Fleming	48.6	47.3	57.2	62.9	75.9	78.7	82.2	80.4	74.9	68.0	62.5	51.8	65.9	106	12	Apr. 2	Nov. 28
*Fort Gaines	47.0	45.5	57.4	62.6	79.1	83.0	85.4	83.8	76.6	65.3	61.0	51.0	66.5	105	18	Mar. 19	Nov. 28
*Gainesville	38.7	35.5	48.2	57.2	72.1	76.8	80.0	78.1	69.2	61.2	56.2	42.0	59.6	99	14	Mar. 19	Nov. 28
Gillsville	41.8	39.4	51.4	58.7	72.8	78.2	80.1	78.6	70.6	61.9	57.6	44.2	61.3	100	12	Apr. 9	Nov. 28
Greenbush	38.5	37.7	50.2	57.0											7	Apr. 5	.....
*Greensboro				58.0	73.8	77.7	81.1	78.2	71.4	63.2	57.2	44.2	.....	100	14	Apr. 3	Nov. 28
*Griffin	42.2	39.0	53.3	61.3	76.8	81.2	83.9	82.2	73.0	64.5	59.0	44.8	63.4	104	15	Mar. 19	Nov. 28
Harrison	45.8	44.5	56.8	62.6	76.6	79.5	82.0	80.0	73.6	65.0	59.5	49.6	64.6	103	17	Mar. 20	Nov. 28
Hawkinsville	45.3	44.3	56.3	63.2	76.7	80.0	82.6	80.8	73.0	64.5	.....	49.4	.....	105	17	Mar. 20	Nov. 28
Hephzibah	.....	44.6	57.2	.....	77.6	81.0	85.0	82.0	76.6	.....	.....	47.3	.....	108	17	Mar. 18	.....
Jesup	49.0	47.7	58.7	65.6	76.8					69.2	63.4	53.1			18	Mar. 19	Nov. 28
Lost Mountain	41.6	37.6	52.6	59.2	74.6	78.6	[e]80.2	79.5	70.4	[f]63.0	59.0	44.0	61.7	100	11	Apr. 8	Nov. 28
Louisville	46.0	42.7	[g]57.1	62.6	[h]76.0	79.9	82.4	80.2	73.8	64.6	58.6	47.8	64.3	102	17	Mar. 19	Nov. 28
Lumpkin	47.6	45.6	57.4	63.8	77.4	81.0	82.4	81.8	75.0	65.7	61.6	49.8	65.8	106	13	Mar. 19	Nov. 28
*Macon	44.0	43.0	55.4	62.0	75.8	80.0	81.4	80.2	73.4	64.3	59.0	47.2	63.8	101	17	Mar. 19	Nov. 28
Marshallville	46.8	44.6	57.9	64.5	78.8	82.2	84.3	.....	76.3	66.3	60.9	49.4	.....	102	16	Mar. 19	Nov. 20
Mauzy	[d]49.7	47.8	60.4	65.8	78.2	81.2	[m]83.2	82.5	[i]77.0	[j]68.0	[d]62.1	53.4	67.4	104	17	Mar. 19	Nov. 28
Milledgeville	42.5	41.0	52.8	60.4	75.8	80.4	81.7	79.7	71.8	64.0	57.7	45.8	62.8	100	18	Mar. 20	Nov. 28
*Millen	48.5	44.5	57.2	[k]64.8	78.8	81.2	84.7					50.8	.....	107	14	Mar. 19	Nov. 28
*Monticello					76.2	80.0	82.8	81.4	73.7	64.8	59.8	46.0	.....	105	15	.....	Nov. 28
Morgan	46.2	45.0	57.0	63.0	75.5	79.6	81.4	80.4	74.5	66.1	58.4	49.0	64.7	100	16	Mar. 18	Nov. 28
Naylor	49.9	47.2	60.4	65.0	78.2	.....	84.6	81.9	78.4	70.2	62.9	54.0	.....	102	17	Mar. 19	Nov. 28
*Newnan	[c]39.2	37.1	51.6	59.0	75.4	80.0	82.6	81.0	70.7	61.1	56.4	43.0	61.4	102	14	Mar. 20	Nov. 28
Point Peter	39.8	37.2	50.0	57.4	73.8	78.4	81.7	78.5	70.0	61.4	[c]56.4	43.8	60.7	105	13	Mar. 20	Nov. 28
Poulan	47.8	46.4	58.4	63.1	75.9	79.2	81.2	81.0	76.0	66.0	60.5	50.8	65.5	101	15	Mar. 20	Nov. 28
Putnam	46.8	45.3	57.7	64.1	78.0	80.6	83.4	82.0	75.6	65.2	58.8	[d]48.0	65.5	105	16	Mar. 19	Nov. 27
*Quitman	48.8	48.0	60.0	65.1	77.2	81.4	83.2	81.2	76.7	67.6	62.5	53.4	67.1	104	18	Mar. 20	Nov. 28
Ramsey	40.0	37.2	51.4	57.6	72.4	76.6	79.3	77.3	69.8	61.3	56.7	43.4	60.2	97	13	Apr. 10	Oct. 29
*Rome	39.4	38.2	51.5	59.3	74.7	79.8	82.8	80.4	70.7	61.4	55.6	42.0	61.8	103	16	Apr. 2	Nov. 28
*Savannah	50.0	47.2	58.6	65.0	76.6	79.9	82.8	81.2	76.4	68.8	64.0	53.6	67.0	101	24	None.	Dec. 27
St. Marys	50.4	49.0	60.0	65.2	77.0	80.2	83.2	82.2	77.4	71.5	65.2	55.6	68.1	106	20	Mar. 20	Nov. 28
Statesboro	.....	45.8	57.8	64.3	77.4	[e]80.2	[l]83.4	81.4	76.1	67.6	62.3	51.4	.....	104	19	Mar. 19	Nov. 28
Stillmore	.....	.....	57.8	63.8	77.0	80.0	82.3	80.1	74.9	[c]66.2	.....	.....	.....	105	.....	Mar. 19	Nov. 28
Talbotton	44.9	43.0	56.0	61.4	75.5	80.4	81.8	80.6	73.4	64.5	[c]58.2	47.4	63.9	105	16	Mar. 19	Nov. 27
Tallapoosa					74.8	79.0	81.4	80.6	70.8	61.6	56.1	42.0	.....	103	13	.....	Nov. 28
*Thomasville	51.0	48.8	60.8	65.8	78.4	81.0	83.4	82.4	77.6	68.9	64.0	53.7	68.0	102	20	Mar. 19	Nov. 28
*Toccoa	38.5	38.6	49.2	57.5	72.3	76.9	80.0	77.5	68.9	61.4	56.2	42.9	60.0	101	16	Mar. 19	Nov. 28
Valona	48.7	47.4	58.8	65.0	75.8	79.4	83.1	80.8	76.0	68.2	64.4	55.8	67.0	102	17	Mar. 19	Nov. 28
Vidalia	46.8	44.7	56.7	64.4	76.6	80.6	83.2	82.2	76.0	67.2	62.0	50.8	65.9	104	18	Mar. 18	Nov. 28
*Washington	[c]38.6				75.1	79.4	82.3	79.7	71.0	63.2	57.1	44.7	.....	102	10	Mar. 20	Nov. 28
Waverly	50.3	49.8	60.4	65.4	76.2	79.5	82.8	82.0	77.4	71.8	64.6	55.0	67.9	105	17	Mar. 20	Nov. 28
*Waycross	47.2	47.6	58.5	64.7	77.2	82.0	[e]82.6	81.6	76.2	68.0	62.5	54.2	66.8	102	20	Mar. 20	Nov. 28
*Waynesboro	44.8	42.2	56.6	62.6	75.4	78.5	81.4	78.8	72.7	64.2	.....	48.7	.....	99	18	Mar. 20	.....
*Westpoint	43.0	42.8	55.2	61.8	76.6	81.6	84.3	82.6	73.9	64.8	58.0	45.6	64.2	103	13	Mar. 20	Nov. 28
Woodbury	42.0	40.4	54.0	59.5	74.4	78.6	81.6	80.5	71.6	61.9	55.7	44.4	62.0	103	14	Apr. 2	Nov. 28
Idaho.																	
Albion	27.9	38.0	35.0	44.9	51.8	.....	62.4	66.2	55.8	47.8	34.4	30.6	.....	95	—20	July 4	Sept. 12
American Falls	21.8	33.6	34.9	45.0	.....	63.0	65.5	68.2	59.0	48.2	34.4	27.9	.....	98	—27	.....	Sept. 12
Atlanta							57.1						.....	.....		July 7	.....
Blackfoot	20.4	33.6	35.6	45.4	55.6	65.1	68.2	73.6	.....	.....	33.4	26.6	.....	99	—29	May 5	.....
Blue Lakes					61.2			71.8	62.8	55.2	40.4	34.3	.....	.....		Sept. 26	
*Boise	28.5	33.4	40.9	50.0	57.6	64.6	69.4	70.2	62.3	54.3	41.0	35.4	51.1	102	— 8	Apr. 13	Nov. 1
Burnside	[f]14.1	25.2	24.9	37.7	52.1	.....	62.4	66.8	54.1	41.4	30.8	20.4	.....	101	—21	.....	Sept. 12
Cambridge										48.1	34.6	[l]21.6	.....	.....		.....	.....
Challis	19.9	25.6											.....	.....		.....	.....
Chesterfield	16.6	26.6	28.4	39.4	50.5	56.1	56.9	58.6	50.6	.....	.....	20.0	.....	93	—32	July 20	Aug. 1
Downey	[c]18.8	32.7	33.8	45.0	51.6	59.4	62.3	63.0	55.0	48.3	35.2	.....	.....	96	.....	June 19	Aug. 30
Forney	16.0	.....	24.0	36.6	47.0	51.9	55.8	59.4	50.8	43.2	29.2	24.8	.....	97	—30	July 19	Aug. 10
Garnet	30.8	40.9	42.6	55.2	62.8	71.4	75.2	76.2	64.8	55.2	40.8	34.2	54.2	106	.....	May 4	Sept. 26
Grangeville		37.4	36.6	42.1	47.4				[n]47.9		36.8	32.6	.....	.....	—15	.....	Sept. 17
Hailey	22.2	29.7	26.6	41.8	52.4	61.0	64.6	65.2	57.6	.....	.....	21.7	.....	99	—25	July 3	Sept. 18
Idaho City	24.0	32.6	33.6	.....	[o]52.7	57.8	60.4	60.6	.....	.....	.....	.....	.....	90	.....	.....	.....
Lake	10.2	21.4	20.2	34.2	44.8	55.3	55.8	.....	.....	.....	.....	.....	.....	.....	.....	July 10	Aug. 16
Lakeview	27.8	34.3	38.0	44.0	52.9	56.8	61.6	62.7	[c]54.4	49.2	36.9	31.5	46.8	93	—11	Apr. 30	Nov. 4
*Lewiston	32.8	39.2	45.4	52.5	59.8	65.6	70.6	73.4	63.4	55.0	42.8	36.9	53.1	104	— 5	Apr. 13	Nov. 4
Lost River	16.6	[c]28.1	28.8	41.7	[p]50.8	60.0	63.2	65.8	55.8	43.8	27.6	16.8	41.8	95	—26	July 6	Aug. 18
Moscow	26.8	36.2	36.4	44.2	52.4	58.2	61.0	66.6	58.7	50.9	34.8	29.0	46.3	96	—12	May 30	Sept. 28
Murray	28.2	32.1	39.0	41.8	51.0	54.7	58.6	59.8	50.8	46.2	33.0	26.8	43.1	89	—13	June 5	Sept. 9
Oakley	[c]26.4	36.2	35.3	44.5	54.8	62.9	66.8	68.0	60.0	50.6	35.5	30.6	47.6	100	—18	May 23	Sept. 17
Ola	26.6	35.6	38.4	48.6	55.4	62.0	66.5	68.5	59.4	51.2	37.2	.....	.....	101	—17	May 19	Sept. 16
Paris	24.2	31.6	.....	36.2	53.4	.....	.....	.....	.....	.....	27.5	17.2	.....	.....	—27	.....	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Idaho—Continued.																	
Payette	27.0	38.2	41.8	49.9	59.4	66.2	69.4	75.4	60.7	52.8	41.0	32.0	51.2	102	—13	May 1	Sept. 16
*Pocatello	24.5	35.1	34.6	45.0	55.2	63.1	67.0	68.6	59.7	50.8	36.0	29.8	47.4	95	—19	Apr. 11	Sept. 26
Pollock	31.6	41.2	40.4	48.4	55.4	60.5	66.2	67.9	61.6	53.9	43.1	36.5	50.6	100	0	May 2	Nov. 1
Porthill	24.5	31.6	35.2	42.0	53.4	56.6	61.8	63.0	52.8	46.6	34.1	26.4	44.0	93	—16	May 5	Sept. 17
Priest River	25.0	32.4	35.2	42.7	52.6	54.2	60.1	60.2	52.0	47.3	33.6	27.8	43.6	91	—15	June 7	Aug. 28
Riddle	24.4	.....	[c]30.8	41.6	48.5	58.4	61.7	65.0	.....	45.5	30.2	25.6	.....	94	—19	June 15	.....
Roosevelt	.....	.....	.....	.....	.....	.....	.....	.....	.....	41.5	25.7	21.8	.....	.....	.....	.....	.....
St. Maries	28.0	36.1	38.4	45.8	54.1	58.7	60.9	63.4	55.6	52.4	38.5	31.9	47.0	94	—14	Apr. 26	Aug. 28
Silver City	.....	32.1	27.0	38.6	48.2	57.4	61.3	63.6	56.8	46.8	30.2	26.6	.....	93	—20	July 8	Sept. 26
Soldier	19.4	27.2	24.2	40.3	49.6	56.6	60.7	63.2	52.5	43.2	26.8	14.8	39.9	97	—33	July 9	Aug. 18
Swan Valley	21.3	28.6	29.3	44.9	.....	.....	.....	.....	55.6	[c]47.9	36.8	.....	.....	.....	.....	.....	Aug. 7
Vernon	17.6	26.3	28.3	41.4	51.3	58.0	61.1	[c]64.0	.....	[k]44.8	[c]33.4	25.0	.....	95	—35	July 7	.....
Weston	*26.3	33.8	[d]33.6	46.0	53.8	[c]62.2	65.0	66.6	58.8	[j]48.5	35.1	27.4	46.4	97	—12	May 6	Sept. 7
Illinois.																	
Albion	30.6	25.2	46.2	53.4	71.2	73.8	78.3	75.0	66.4	59.5	51.4	32.6	55.3	98	— 1	Apr. 8	Oct. 29
Aledo	24.0	17.4	40.4	49.6	65.0	65.8	73.8	69.9	61.0	57.0	46.4	24.4	49.6	93	—20	Apr. 28	Oct. 14
Alexander	27.4	19.6	43.8	50.9	67.8	69.8	76.3	71.8	62.2	58.0	49.6	28.6	52.2	94	—14	Apr. 27	Oct. 14
Antioch	22.8	18.1	38.4	45.3	58.1	64.2	72.3	66.4	59.4	51.7	43.9	23.2	47.0	93	—11	Apr. 24	Oct. 14
Ashton	22.8	16.4	38.8	46.6	61.6	64.0	71.6	67.1	58.6	52.7	44.2	22.2	47.2	91	—17	Apr. 24	Oct. 14
Astoria	26.4	19.3	42.2	50.2	66.6	68.0	75.2	70.0	60.8	55.4	47.7	26.9	50.7	95	—10	Apr. 13	Oct. 29
Aurora	23.6	18.2	39.6	47.6	62.0	66.0	73.3	68.0	59.6	53.2	46.0	24.6	48.2	92	—17	Apr. 24	Oct. 14
Benton	33.2	27.8	48.4	55.6	73.2	76.2	80.8	77.6	67.8	63.0	53.8	35.2	57.7	102	2	Apr. 9	Oct. 29
Bloomington	26.6	19.0	43.0	51.3	67.8	69.4	76.0	71.0	63.1	57.6	49.1	27.2	51.8	95	—10	Apr. 15	Oct. 14
Bushnell	.....	.....	41.4	51.2	67.6	68.6	76.4	.....	.....	.....	.....	.....	.....	97	.....	.....	.....
*Cairo	34.8	28.8	49.2	57.2	73.0	75.7	80.1	77.4	67.4	62.4	54.6	37.0	58.1	98	7	Apr. 8	Nov. 27
Cambridge	23.6	18.6	40.0	49.0	65.0	66.8	74.4	70.2	60.6	54.5	45.2	24.1	49.3	93	—14	Apr. 15	Oct. 14
Carlinville	28.7	21.9	44.7	52.2	68.9	71.4	77.4	73.0	63.6	57.8	50.4	30.6	43.4	98	—11	Apr. 15	Oct. 14
Carrollton	.....	.....	[b]56.4	69.2	71.2	77.2	73.2	63.4	58.6	50.0	30.4	.....	96	.....	Apr. 8	Oct. 14	
Centralia	32.0	26.2	48.1	55.2	72.0	73.5	78.3	75.0	65.8	63.0	53.6	32.8	56.3	100	0	Apr. 15	Oct. 29
Charleston	28.9	20.2	44.2	50.2	69.0	71.6	77.2	72.2	64.9	58.8	51.4	30.0	53.1	95	— 8	Apr. 15	Oct. 14
*Chemung	21.8	16.6	37.2	44.8	59.1	62.0	71.6	65.8	59.8	.....	.....	.....	.....	.....	.....	Apr. 27	Sept. 12
*Chicago	25.2	20.8	38.6	46.4	59.0	64.2	72.4	68.4	60.8	55.2	47.0	26.5	48.7	91	— 8	Apr. 8	Nov. 23
Cisne	31.6	25.6	47.4	53.8	71.2	72.4	78.7	75.2	67.1	59.9	.....	[c]32.8	.....	100	— 1	Apr. 16	Oct. 29
Coatesburg	27.2	21.0	42.8	51.6	68.6	70.2	77.0	71.8	61.4	56.8	47.4	27.0	51.9	97	—11	Apr. 15	Oct. 14
Cobden	34.3	26.6	48.7	56.2	72.6	75.7	80.4	77.4	67.1	62.4	53.4	36.4	57.2	103	3	Apr. 8	Oct. 29
Danville	26.4	21.4	45.2	55.0	71.6	.....	75.6	72.4	.....	.....	.....	.....	.....	.....	—10	Apr. 4	.....
*Decatur	26.8	19.0	43.4	50.3	68.0	69.7	75.8	71.1	62.9	57.2	49.2	28.6	51.9	95	—12	Apr. 15	Oct. 14
*Dixon	23.3	17.0	40.7	48.1	63.6	66.0	73.6	68.8	60.5	53.6	44.7	21.8	48.5	93	—18	Apr. 24	Oct. 14
Dwight	25.4	18.5	40.7	48.4	65.0	67.6	76.2	70.1	61.1	54.4	47.0	26.4	50.1	94	—11	Apr. 24	Oct. 14
Effingham	[b]32.5	24.2	46.9	58.0	72.4	75.1	78.6	74.1	64.6	59.4	52.4	32.8	55.5	101	.....	Apr. 15	Oct. 29
Equality	33.8	26.2	47.7	54.2	70.4	73.6	79.4	77.1	65.8	61.0	52.9	35.8	56.5	104	2	Apr. 15	Oct. 29
Fandon	.....	.....	.....	.....	.....	.....	.....	70.6	61.4	56.4	46.3	27.4	.....	.....	.....	.....	.....
Flora	31.4	24.6	46.2	53.6	68.8	71.9	77.6	74.1	65.4	62.2	51.5	.....	.....	97	— 1	Apr. 8	Sept. 15
Friendgrove	32.0	23.3	46.6	52.3	72.5	75.6	79.6	77.2	66.6	58.8	52.7	33.2	55.9	98	0	.....	.....
*Galva	23.7	16.8	39.3	48.6	64.8	65.6	73.8	70.0	60.6	55.4	46.3	24.4	49.1	92	—17	Apr. 15	Oct. 14
Greenville	29.2	22.4	45.0	52.9	70.4	72.7	78.7	74.8	65.8	56.8	50.7	31.2	54.2	99	— 6	Apr. 9	Oct. 29
Griggsville	28.6	21.6	43.3	52.3	68.8	70.4	77.4	72.8	63.4	59.5	50.0	28.8	53.1	95	— 9	Apr. 7	Oct. 14
Halfway	33.1	26.4	47.5	54.6	71.0	74.6	80.2	77.1	67.2	[c]61.4	53.4	34.8	56.8	101	3	Apr. 8	Oct. 14
Hallidayboro	34.6	29.0	48.9	55.4	71.6	74.4	79.0	76.4	65.4	60.3	52.3	34.9	56.8	100	2	Apr. 8	Sept. 14
Havana	26.8	20.4	44.2	52.4	68.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 16	.....
Henry	25.2	17.6	41.6	50.2	65.5	67.4	74.6	69.6	61.7	56.0	48.1	26.2	50.3	92	—16	Apr. 24	Oct. 14
*Hillsboro	27.4	21.0	44.6	51.6	69.3	71.2	77.6	73.6	64.2	59.0	50.2	30.4	53.3	96	— 8	Apr. 15	Oct. 29
Hoopeston	.....	.....	.....	.....	.....	68.8	76.4	69.2	62.1	54.6	47.6	25.4	.....	97	.....	.....	.....
Joliet	23.5	15.6	39.3	46.9	62.8	66.1	73.4	68.4	60.4	53.9	45.6	24.9	48.4	91	—12	Apr. 24	Oct. 14
Kishwaukee	[c]22.2	15.5	38.6	47.4	61.7	64.6	72.4	67.3	.....	52.6	44.0	21.4	.....	91	—19	Apr. 24	Oct. 14
Knoxville	25.0	17.4	40.2	48.6	64.8	65.6	73.4	69.0	60.0	54.6	46.1	25.8	49.2	92	—15	Apr. 24	Oct. 14
Lagrange	24.1	18.9	39.4	47.1	61.6	65.7	72.8	67.6	59.8	53.0	45.6	25.7	48.4	93	—13	Apr. 20	Oct. 14
Laharpe	25.2	19.0	41.4	49.9	66.4	67.2	75.4	70.6	61.0	56.2	46.0	25.8	50.3	95	—16	Apr. 17	Sept. 13
Lanark	21.8	14.8	38.0	45.9	62.4	64.6	72.3	67.6	58.0	51.2	43.1	21.8	46.8	98	—24	Apr. 27	Sept. 12
Lasalle	27.0	18.6	41.2	50.7	67.5	69.4	76.6	.....	.....	57.4	48.6	.....	.....	92	—12	Apr. 16	Oct. 14
*McLeansboro	31.6	26.8	46.8	54.0	72.0	75.0	79.8	76.3	67.2	61.0	53.0	34.4	56.5	102	3	Apr. 8	Oct. 29
Martinsville	.....	.....	.....	.....	69.5	71.8	77.3	73.0	64.0	58.2	.....	.....	.....	98	.....	.....	Oct. 29
*Martinton	26.0	17.8	41.6	46.4	62.5	67.2	74.0	69.6	61.7	55.8	47.4	26.0	49.7	94	—14	Apr. 14	Oct. 14
Mascoutah	30.2	24.3	47.2	51.4	69.0	71.9	76.3	72.8	63.1	57.3	50.8	32.0	53.9	98	— 4	Apr. 15	Oct. 29
Mattoon	32.0	25.8	46.1	49.8	66.8	68.0	75.4	70.6	62.4	[c]60.2	49.8	32.8	53.3	92	— 5	Apr. 15	Oct. 14
Melrose	.....	22.8	44.6	50.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Minonk	24.4	16.8	40.1	49.0	64.8	66.1	73.8	69.6	60.7	54.7	47.0	25.6	49.4	94	—12	Apr. 20	Oct. 14
Monmouth	23.1	17.3	40.2	49.0	64.6	64.9	73.6	69.6	59.8	54.2	45.0	23.3	48.7	94	—16	Apr. 24	Oct. 14
Monticello	26.4	16.4	.....	49.6	.....	.....	.....	.....	.....	57.1	.....	27.4	.....	.....	.....	.....	Oct. 14
Morrison	22.6	16.0	40.2	48.4	64.0	65.6	72.2	68.2	59.9	54.4	45.4	23.4	48.4	91	—21	Apr. 24	Oct. 14
Morrisonville	27.6	20.0	43.8	51.1	68.3	69.8	76.8	72.8	64.0	58.3	50.4	29.8	52.7	96	—12	Apr. 15	Oct. 29
Mount Pulaski	26.8	20.2	43.6	50.6	68.1	70.2	76.2	72.3	63.2	58.4	49.5	27.8	52.2	95	—11	Apr. 15	Oct. 14
*Mount Vernon	31.4	26.6	46.2	53.3	71.4	72.3	78.2	76.4	66.0	61.7	51.4	33.8	55.7	100	0	Apr. 15	Oct. 29
*New Burnside	33.2	27.4	48.4	55.9	72.8	75.4	81.4	77.2	68.2	.....	54.2	35.6	.....	102	2	Apr. 2	.....
Olney	30.5	25.0	45.8	52.2	71.6	73.6	78.8	74.4	66.5	60.2	52.0	32.8	55.3	100	— 2	Apr. 8	Oct. 29
Ottawa	26.0	19.4	42.1	50.6	66.2	68.8	76.1	70.8	63.1	56.8	48.9	27.7	51.4	96	—14	Apr. 15	Oct. 14
Palestine	29.9	23.8	45.0	51.3	70.8	74.0	78.0	74.4	64.4	57.8	50.7	29.7	54.2	100	— 5	Apr. 14	Oct. 29
Pana	28.2	20.4	44.0	51.1	68.9	71.5	77.1	71.6	63.5	57.9	50.0	29.8	52.8	95	—11	Apr. 15	Oct. 14
*Paris	27.6	19.6	43.2	49.8	68.4	71.4	76.6	[c]70.8	64.8	59.3	50.2	28.4	52.5	.....	— 4	Apr. 15	Nov. 23
*Peoria	29.2	21.0	42.2	50.4	67.8	70.6	77.4	73.0	63.8	57.6	49.2	28.6	52.6	95	— 9	Apr. 8	Nov. 23
Philo	26.3	17.1	42.6	48.6	66.2	69.4	75.2	70.8	62.0	56.8	47.6	27.6	50.8	95	—12	Apr. 24	Sept. 14
Plumhill	31.0	24.5	45.8	52.7	69.6	72.6	78.0	74.8	65.0	59.8	52.0	33.0	54.9	100	— 8	Apr. 15	Oct. 14
*Rantoul	27.0	18.4	42.8	50.4	66.4	69.8	76.6	71.6	63.5	56.8	48.4	27.3	51.6	96	—11	Apr. 20	Oct. 14
Raum	33.7	26.3	47.2	54.8	71.8	74.9	80.4	77.6	67.6	61.7	53.3	35.9	57.1	102	3	Apr. 8	Oct. 29
Riley	22.2	17.8	38.2	46.5	60.2	63.6	71.2	67.5	59.4	52.9	44.8	22.6	47.2	89	—16	Apr. 20	Oct. 14
Robinson	30.6	23.6	45.4	51.6	69.0	71.2	76.6	72.4	64.5	58.3	50.2	31.2	53.3	96	- 2	Apr. 15	Oct. 29

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Illinois—Continued.																	
*Rockford				48.0	63.0	65.7	73.5	68.4	60.0							Apr. 15	Oct. 14
Rushville	26.8	20.6	42.6	51.6	68.0	69.4	77.0	72.2	62.7	57.7	48.6	27.7	52.1	95	−10	Apr. 15	Oct. 14
St. Charles	22.5	17.6	.....	48.2	65.0	68.5	75.1	69.8	60.8	53.2	46.0	25.0	.....	.....	.....	Apr. 24	Oct. 14
St. John	31.2	25.7	46.4	53.7	72.2	75.4	79.4	76.4	66.3	60.6	52.7	34.3	56.2	102	0	Apr. 9	Sept. 13
Scales Mound	20.8	15.8	.....	47.2	62.1	64.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 7	.....
Shobonier	29.0	22.4	45.0	52.0	69.8	72.0	.....	[c]74.6	64.4	60.1	51.4	32.4	.....	.....	− 8	Apr. 15	Sept. 13
*Springfield	27.8	20.6	42.8	50.7	67.9	69.4	76.7	72.1	62.5	58.0	49.0	28.6	52.2	94	− 8	Apr. 8	Nov. 23
Strawn	26.5	16.8	41.2	48.5	64.6	67.0	.....	.....	63.8	.....	.....	.....	.....	.....	.....	Apr. 20	Sept. 13
*Streator	25.1	18.4	41.5	46.8	64.0	66.8	73.5	69.5	61.6	55.0	47.8	26.4	49.7	92	−11	Apr. 24	Oct. 14
Sullivan	27.6	19.5	43.4	50.5	68.2	70.0	76.6	71.7	63.8	58.2	49.6	29.1	52.4	96	−11	Apr. 15	Oct. 29
*Sycamore	23.4	16.2	39.8	47.6	63.0	65.8	73.9	68.8	60.4	53.8	45.0	23.2	48.6	94	−15	May 27	Oct. 14
Tilden	31.6	[d]26.9	46.6	53.4	70.0	73.6	77.9	74.8	64.5	59.5	52.2	33.8	55.4	99	− 1	Apr. 15	Sept. 14
Tiskilwa	23.4	17.2	39.6	48.6	63.6	65.4	73.2	68.6	59.8	54.0	46.2	23.8	48.6	91	−16	Apr. 15	Oct. 14
*Tuscola	26.6	19.1	43.0	49.8	67.8	70.0	76.0	71.5	63.2	57.2	47.8	27.9	51.7	96	−11	Apr. 20	Oct. 29
Urbana	.....	.....	.....	.....	.....	.....	.....	.....	62.2	56.4	47.2	26.8	.....	.....	.....	.....	.....
Walnut	25.0	18.8	41.0	50.0	66.0	67.2	75.0	70.4	61.8	55.2	44.5	[e]24.5	50.0	93	−14	Apr. 24	Oct. 14
Wellington	27.0	17.4	41.5	49.0	65.4	68.3	75.0	70.0	63.0	56.5	48.8	.....	.....	92	−12	Apr. 20	Oct. 14
Winchester	28.4	.....	43.4	52.4	69.4	70.8	77.2	72.4	62.2	58.9	49.2	29.1	.....	96	.....	Apr. 16	Oct. 14
Winnebago	22.0	16.2	38.7	47.0	61.6	64.2	73.1	67.8	59.2	52.6	44.6	21.7	47.4	90	−18	Apr. 24	Oct. 14
Yorkville	23.0	16.6	39.8	47.5	61.2	65.6	75.0	68.3	61.0	54.3	45.7	24.9	48.6	90	−21	Apr. 20	Oct. 14
Zion	21.6	17.2	38.2	47.8	63.2	65.5	72.8	67.7	59.8	53.3	43.8	19.2	47.5	91	−22	Apr. 24	Oct. 14
Indiana.																	
Anderson	28.2	20.7	43.1	50.2	65.4	68.7	74.8	70.8	64.4	56.8	50.1	28.5	51.8	93	− 7	Apr. 15	Oct. 29
Angola	23.7	21.6	40.0	47.1	60.2	64.1	71.9	67.2	60.0	52.6	45.1	25.1	48.2	91	− 9	May 15	Oct. 29
*Auburn	25.4	20.0	40.8	45.3	[b]60.6	64.8	72.2	68.6	[d]59.4	.....	47.1	[f]24.4	.....	94	− 9	Apr. 24	Sept. 14
Avoca	.....	.....	.....	.....	.....	.....	.....	73.8	65.1	56.5	50.0	[e]35.7	.....	.....	.....	.....	Sept. 14
Bedford	.....	22.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Bloomington	30.1	24.8	46.9	51.2	68.6	71.5	76.8	73.4	64.3	58.0	50.8	30.8	53.9	94	− 2	Apr. 9	Nov. 23
Bluffton	27.1	19.8	42.4	51.6	63.3	67.5	[c]75.7	68.8	62.2	54.1	47.9	26.4	50.6	97	−11	May 28	Sept. 14
Butlerville	30.5	22.8	44.6	52.3	67.4	70.1	75.6	73.0	65.6	58.6	51.8	31.7	53.7	96	− 3	Apr. 8	Oct. 29
*Cambridge City	25.0	19.2	41.8	46.8	63.4	67.8	73.6	69.2	62.0	53.5	47.2	27.8	49.8	93	− 6	Apr. 18	Sept. 14
Cannelton	.....	.....	.....	52.1	.....	.....	78.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Columbus	30.6	23.6	44.7	51.1	66.8	70.0	76.4	72.4	63.9	57.8	50.8	32.0	53.3	97	− 7	Apr. 15	Sept. 14
Connersville	28.0	21.8	42.8	49.4	63.7	69.0	74.6	70.2	62.8	56.4	50.0	29.3	51.5	93	− 6	May 8	Oct. 29
Crawfordsville	29.9	22.6	45.2	54.0	68.6	71.4	78.8	73.8	66.1	59.8	51.2	29.8	54.3	98	− 4	Apr. 14	Nov. 23
*Delphi	25.4	16.4	41.6	47.9	64.6	68.0	75.2	69.3	62.4	55.1	46.9	26.2	49.9	95	−12	Apr. 15	Sept. 14
Edwardsville (*a*)	32.5	28.6	47.2	55.0	70.6	73.0	77.4	75.0	67.9	60.5	54.4	36.1	56.6	93	2	Apr. 8	Oct. 29
Elkhart	.....	.....	.....	.....	.....	.....	.....	.....	.....	52.9	46.1	26.0	.....	.....	.....	.....	Oct. 31
*Evansville	32.7	27.6	47.3	54.8	71.4	74.8	79.5	76.4	67.4	61.0	53.4	34.8	56.8	98	5	Apr. 8	Nov. 23
Fairmount	.....	20.4	42.2	.....	63.8	69.0	.....	.....	.....	.....	.....	.....	.....	96	−10	May 28	.....
*Farmland	27.8	21.8	42.2	49.0	63.5	67.5	74.0	68.7	62.7	[b]56.4	49.0	29.4	51.0	92	− 5	Apr. 15	Oct. 29
Fort Wayne	26.2	19.0	41.6	49.2	62.6	66.2	74.5	[b]68.6	62.4	54.9	48.8	.....	.....	99	−12	Apr. 24	Sept. 14
Franklin (*a*)	29.4	24.5	44.5	52.1	67.6	71.4	77.0	.....	65.6	56.3	49.7	31.9	.....	93	− 1	Apr. 15	Oct. 29
Greencastle	28.0	21.0	42.6	50.3	66.6	70.0	75.6	71.4	63.2	57.2	49.2	29.4	52.0	92	− 4	May 28	Nov. 23
Greensburg	.....	21.1	43.8	56.5	67.6	71.2	77.4	71.2	63.6	56.0	50.2	30.8	.....	98	− 5	Apr. 8	Oct. 29
Hammond	23.6	15.8	36.4	45.9	57.3	64.8	71.6	67.5	60.4	53.8	45.2	24.0	47.2	90	−12	Apr. 20	Nov. 22
Hector	27.4	20.4	42.6	50.8	66.0	68.2	75.3	69.2	[c]61.2	55.4	48.3	26.8	51.0	96	−11	May 29	Sept. 13
Holland	.....	.....	.....	.....	.....	72.2	78.1	74.6	67.0	60.4	53.8	35.0	.....	99	.....	.....	Oct. 29
Huntington	26.3	20.0	42.0	49.3	63.1	67.0	74.2	69.0	61.8	54.8	47.2	26.0	50.1	93	− 9	Apr. 15	Oct. 31
*Indianapolis	28.3	22.6	42.9	50.4	66.0	69.5	75.8	71.6	64.4	57.4	50.2	29.7	52.4	93	− 5	Apr. 8	Nov. 23
Jeffersonville	32.5	26.1	46.6	55.1	70.3	73.6	78.4	75.2	67.6	60.1	53.0	35.4	56.1	97	3	Apr. 8	Oct. 29
Knightstown	28.6	22.6	43.8	51.0	[c]67.0	70.2	76.3	71.9	[c]66.6	.....	.....	.....	.....	97	− 6	May 28	.....
Kokomo	28.3	21.2	43.4	50.1	65.2	68.4	75.4	69.6	63.0	56.0	49.0	27.5	51.4	94	− 7	Apr. 15	Sept. 14
*Lafayette	27.0	19.8	42.4	49.2	65.3	68.4	74.8	70.1	63.3	56.1	49.0	27.4	51.0	92	−12	Apr. 6	Sept. 14
Laporte	26.4	21.2	41.0	49.4	63.7	67.0	75.2	69.2	61.2	54.6	47.8	26.5	50.3	96	− 9	Apr. 20	Sept. 14
*Logansport	25.8	20.0	41.9	48.4	64.9	68.6	76.0	70.1	62.2	55.3	48.0	26.0	50.7	96	−11	Apr. 24	Nov. 20
Madison	30.0	25.8	46.2	54.0	69.0	73.4	78.4	75.4	67.2	59.4	52.0	34.9	55.5	100	0	May 28	Oct. 15
Marengo	30.8	25.2	46.2	52.4	69.0	71.8	76.1	72.6	65.0	57.3	51.1	34.5	54.3	96	− 1	Apr. 15	Oct. 15
*Marion	27.4	20.3	43.2	50.0	64.6	68.4	75.3	70.0	63.4	55.6	49.0	27.5	51.2	97	−10	May 29	Sept. 5
Markle	26.8	19.0	41.6	48.8	62.4	65.8	73.0	68.0	62.3	55.0	48.0	27.0	49.8	93	−12	May 29	Sept. 14
Mauzy	28.0	20.6	42.8	49.6	65.0	69.0	74.4	70.4	64.2	56.3	49.0	28.9	51.5	94	− 7	May 28	Sept. 13
Moores Hill	.....	22.9	46.0	50.6	66.0	70.4	76.3	75.4	65.7	58.2	51.4	32.0	.....	95	−12	Apr. 17	Sept. 14
Mount Vernon	31.9	26.0	46.6	54.9	72.7	76.0	80.4	77.4	66.8	60.8	54.8	34.4	56.9	104	4	Apr. 9	Oct. 29
Northfield	26.5	18.3	41.4	48.4	64.5	67.5	73.8	68.4	61.8	54.6	47.2	27.6	50.0	94	−10	May 28	Sept. 14
Oolitic	.....	.....	.....	.....	.....	.....	.....	73.8	65.1	.....	.....	.....	.....	.....	.....	.....	.....
Paoli	31.2	23.8	45.0	52.8	69.0	71.4	76.4	73.0	65.8	58.8	52.2	33.4	54.4	97	− 2	Apr. 8	Oct. 29
Prairie Creek	29.8	22.1	[d]43.7	50.8	69.2	72.4	75.3	[c]73.4	64.8	59.0	50.2	31.0	53.5	98	− 5	May 28	Oct. 29
Princeton	30.1	20.2	46.6	53.6	71.0	73.3	77.4	74.8	65.8	58.4	51.4	34.4	54.8	98	0	Apr. 8	Oct. 29
Rensselaer	26.4	18.0	41.6	48.8	64.2	[c]69.1	75.9	[c]70.0	61.9	54.8	48.1	26.4	50.4	95	−13	Apr. 24	Sept. 13
Richmond	28.0	21.8	44.1	50.4	65.2	68.2	74.1	70.0	64.6	55.4	49.1	29.8	51.8	94	− 5	May 28	Sept. 14
Rockville	27.6	20.5	43.2	50.6	67.6	69.0	74.9	70.4	63.2	57.4	49.0	29.0	51.9	92	− 8	May 28	Sept. 13
Salem	31.8	[c]25.2	47.8	54.2	70.0	72.6	77.8	74.8	66.4	59.8	52.0	33.6	55.5	99	− 1	Apr. 8	Sept. 14
Scottsburg	32.1	26.0	46.8	54.0	69.6	73.0	78.1	74.0	65.2	58.2	52.1	34.7	55.3	97	1	Apr. 8	Oct. 29
Seymour	30.2	23.2	44.4	50.6	67.2	70.4	75.3	71.4	64.3	57.0	50.8	31.5	53.0	94	− 2	Apr. 9	Oct. 14
Shelbyville	.....	.....	.....	.....	.....	71.5	[c]75.4	73.4	.....	.....	51.7	[c]33.4	.....	.....	.....	.....	.....
*South Bend	25.2	19.4	40.6	47.9	62.3	65.3	73.6	68.4	62.2	55.0	48.0	26.2	49.5	91	−11	May 28	Oct. 31
Syracuse	24.7	18.6	40.9	48.6	62.8	66.0	74.3	69.0	61.7	53.9	47.8	25.4	49.5	94	−11	Apr. 10	Sept. 14
Terre Haute	30.0	23.4	45.6	52.6	70.4	72.2	78.4	73.6	66.5	59.2	51.4	31.4	54.6	96	− 3	Apr. 9	Nov. 23
Topeka	24.6	19.5	40.6	47.4	59.6	64.0	71.7	67.1	60.0	52.2	48.6	25.1	48.4	91	− 6	May 15	Sept. 28
Valparaiso	23.9	17.2	39.6	46.8	62.6	65.5	73.4	68.4	61.0	54.0	45.8	24.9	48.6	92	−12	Apr. 20	Nov. 7
Vcedersburg	[c]27.4	[d]21.2	43.8	50.6	67.4	[d]69.8	[d]74.9	[d]69.4	[c]64.2	.....	.....	[b]30.6	.....	96	−11	Apr. 24	Sept. 14
Vevay	32.4	26.6	46.1	54.2	69.0	72.0	76.5	73.2	67.0	59.2	53.2	35.4	55.4	95	3	Apr. 17	Nov. 27
*Vincennes	29.5	23.9	46.0	52.5	72.6	73.8	79.2	75.0	66.2	60.0	51.2	32.0	55.2	101	1	Apr. 9	Oct. 29
*Washington	31.5	25.2	47.0	54.8	72.0	73.6	78.1	73.6	65.9	59.0	51.6	32.4	55.4	101	1	Apr. 14	Oct. 14
Winamac	24.8	19.4	[c]39.9	47.8	62.9	65.2	72.6	[c]67.4	60.4	[c]52.2	46.0	26.8	48.8	93	−20	Apr. 24	Sept. 13
Worthington	29.5	21.4	45.3	51.4	69.3	71.4	76.8	72.8	64.8	58.8	51.0	31.6	53.7	96	− 3	Apr. 15	Sept. 14

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Indian Territory.																	
*Ardmore	41.0	41.4	55.8	66.3	73.1	81.9	82.2	87.6	70.8	63.6	55.2	39.0	63.2	109	9	Mar. 18	Nov. 27
Bengal	37.8	38.0	.....	.....	71.2	72.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chickasha	37.8	38.2	52.7	62.8	70.9	78.6	80.7	85.7	68.8	63.1	54.6	37.8	61.0	107	3	Apr. 1	Nov. 17
Claremore	.....	.....	.....	.....	.....	.....	.....	78.0	67.2	.....	53.8	38.2	.....	.....	.....	.....	.....
*Durant	40.4	41.0	55.2	65.8	73.0	81.0	80.6	85.2	70.2	63.6	57.6	40.2	62.8	105	10	Mar. 18	Nov. 27
Fairland	38.8	30.8	48.6	56.8	70.6	74.2	77.6	79.9	66.0	62.2	54.1	36.3	58.0	99	0	Apr. 1	Nov. 18
Goodwater	.....	.....	.....	.....	75.8	79.7	81.5	86.2	71.9	62.9	58.0	44.4	.....	107	.....	.....	Nov. 27
Hartshorne	40.2	37.8	53.3	63.6	73.7	79.4	80.4	84.2	71.4	64.6	57.3	40.4	62.2	103	8	Apr. 1	Nov. 26
Healdton	38.3	40.0	54.8	65.2	72.1	80.9	82.1	86.6	71.2	63.8	56.0	40.6	62.6	110	7	Apr. 1	Nov. 17
*Holdenville	38.3	36.8	51.8	61.8	70.2	77.4	78.7	83.4	.....	63.0	56.0	.....	.....	104	4	Mar. 30	Nov. 27
*Marlow	40.2	37.4	54.5	63.0	70.1	78.7	80.5	86.2	68.6	64.0	54.1	38.5	61.3	107	−1	Mar. 31	Nov. 17
*Muscogee	36.6	34.6	51.6	60.8	71.1	77.5	78.8	82.8	67.8	62.8	54.6	38.2	59.8	105	6	Mar. 31	Nov. 26
Pauls Valley	36.9	.....	51.0	.....	.....	.....	.....	83.1	68.2	56.0	53.2	38.2	.....	.....	.....	.....	.....
Ravia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41.8	.....	.....	.....	.....	.....
Roff	40.0	.....	[b]53.3	[c]61.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ryan	41.9	42.0	56.3	65.2	73.0	83.0	83.7	89.0	.....	.....	.....	.....	.....	107	8	Mar. 18	.....
Tahlequah	36.0	35.2	51.6	61.2	72.0	77.5	79.0	81.3	67.4	62.0	56.2	39.1	59.9	105	5	Apr. 1	Nov. 18
Wagoner	.....	.....	.....	[b]59.0	[c]74.4	.....	83.0	83.1	68.7	67.8	54.4	.....	.....	.....	8	.....	Nov. 20
Webbers Falls	[a]37.8	36.4	[c]52.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Iowa.																	
Afton	24.3	18.8	39.8	50.2	66.0	67.2	75.0	71.0	59.2	55.0	42.4	21.6	49.2	96	−17	Apr. 23	Sept. 12
Albia	26.1	19.8	41.0	51.2	67.6	68.0	72.2	70.6	61.0	56.6	45.8	23.0	50.0	94	−16	Apr. 14	Oct. 14
Algona	21.1	18.6	37.1	46.7	62.8	65.0	72.6	68.0	59.0	52.9	38.8	18.0	46.7	94	−16	Apr. 28	Oct. 14
Allerton	.....	.....	.....	.....	.....	66.8	74.2	71.0	60.6	56.2	45.0	23.4	.....	.....	.....	.....	.....
Alta	20.0	17.2	36.9	46.0	61.4	62.9	70.2	66.9	56.7	51.5	36.0	14.6	45.0	90	−20	Apr. 23	Sept. 12
Amana	22.0	16.4	39.2	48.7	64.7	65.8	73.9	69.0	59.7	53.7	44.2	22.0	48.3	92	−22	Apr. 29	.....
Ames	21.8	15.3	40.1	48.6	64.2	65.6	72.8	69.3	59.8	52.8	40.8	20.6	47.6	94	−23	Apr. 24	Sept. 13
Atlantic	22.4	17.2	40.2	49.2	64.2	65.8	73.4	69.8	58.9	53.6	40.3	19.6	47.9	96	−31	Apr. 23	Sept. 12
Audubon	.....	.....	.....	.....	64.0	65.2	78.2	[c]70.5	59.8	54.2	38.6	21.0	.....	.....	.....	.....	Sept. 12
Baxter	21.2	17.4	39.4	48.2	63.6	64.8	73.0	69.0	59.2	54.0	43.1	20.8	47.8	95	−21	Apr. 24	Sept. 12
Bedford	.....	.....	.....	49.7	65.2	66.2	78.6	71.8	59.4	55.8	42.9	22.1	.....	.....	.....	Apr. 17	Sept. 12
Belknap	.....	17.7	41.0	49.1	65.0	65.6	73.2	69.4	59.2	55.1	45.0	.....	.....	96	−18	Apr. 23	Oct. 14
Belle Plaine	[d]20.4	18.4	[e]38.0	47.8	63.4	64.0	[f]73.0	67.8	58.2	52.5	42.5	20.4	47.2	92	−22	Apr. 23	Oct. 14
Bonaparte	24.9	18.6	40.6	50.4	66.8	66.8	75.0	70.6	61.2	55.9	45.5	24.4	50.1	94	−16	Apr. 15	Oct. 14
Britt	19.0	16.1	36.6	45.3	62.0	64.0	72.4	67.6	57.4	50.4	36.8	17.0	45.4	92	−22	Apr. 27	Sept. 12
Burlington	24.7	21.6	42.1	51.4	67.4	67.8	75.8	71.6	62.6	56.4	47.6	25.8	51.2	93	−14	Apr. 13	Sept. 13
*Carroll	22.4	18.6	40.2	48.5	64.2	64.8	72.2	69.4	59.6	53.0	38.5	19.3	47.6	97	−21	Apr. 23	Sept. 12
*Cedar Rapids	22.2	15.6	39.6	49.3	65.4	66.4	74.7	69.9	61.0	55.2	44.8	22.6	48.9	94	−23	Apr. 24	Oct. 14
*Centerville	26.4	19.6	41.2	51.5	66.8	66.2	73.7	70.2	58.7	.....	.....	.....	.....	.....	.....	Apr. 15	.....
Charlton	24.4	18.4	40.4	49.0	65.4	65.6	73.8	70.3	59.6	55.4	44.1	22.8	49.1	92	−20	Apr. 23	Sept. 12
*Charles City	25.2	13.6	37.0	46.5	62.6	64.0	72.6	67.6	58.8	51.0	40.7	17.2	46.4	98	−27	Apr. 24	Sept. 12
Chester	.....	.....	.....	45.2	60.6	62.8	71.4	65.6	57.2	49.3	37.0	15.1	.....	.....	.....	Apr. 27	Sept. 12
*Clarinda	25.7	20.0	41.8	51.3	65.4	66.9	75.0	72.5	59.9	56.4	42.5	22.0	50.0	96	−21	Apr. 23	Sept. 13
Clearlake	23.4	20.4	38.0	48.5	62.4	64.4	73.2	69.2	58.6	51.2	37.2	16.3	46.9	96	−22	Apr. 24	Oct. 14
Clinton	22.3	16.8	39.7	48.5	65.6	66.3	74.2	69.5	59.6	53.4	44.6	22.8	48.6	95	−15	Apr. 24	Sept. 13
College Springs	25.4	.....	[d]49.4	.....	.....	.....	74.3	[d]71.8	58.8	56.6	43.1	22.6	.....	97	−17	Apr. 23	Oct. 14
Columbus Junction	24.4	19.3	40.0	51.0	66.6	61.4	.....	69.5	60.7	55.9	45.5	22.8	.....	95	−15	Apr. 24	Oct. 14
Corning	23.0	16.4	38.6	48.2	64.6	65.4	73.2	70.3	58.5	53.8	41.5	20.6	47.8	92	−25	Apr. 23	Sept. 12
Council Bluffs	25.8	21.3	42.2	51.8	66.2	67.1	75.0	72.8	60.8	57.0	40.6	21.0	50.1	97	−19	Apr. 23	Sept. 12
Cresco	17.4	13.3	35.6	45.0	59.8	60.2	70.5	65.3	56.3	49.6	.....	.....	.....	90	−23	May 11	Sept. 12
*Davenport	24.0	17.4	40.2	49.5	65.0	66.3	75.0	70.4	61.0	55.8	46.5	24.2	49.6	92	−13	Apr. 15	Oct. 28
Decorah	18.8	14.6	37.6	47.1	62.4	63.9	71.4	66.6	58.2	51.7	40.4	18.6	45.9	91	−30	Apr. 24	Sept. 12
Delaware	19.5	14.2	36.6	46.4	61.5	63.5	71.4	66.4	57.6	51.0	40.9	18.2	45.6	90	−22	Apr. 24	Sept. 12
Denison	22.4	17.3	38.8	47.1	62.8	64.2	71.8	68.2	59.6	53.3	33.4	18.2	46.8	93	−27	Apr. 23	Sept. 12
*Des Moines	24.4	19.8	40.5	49.6	64.7	65.8	74.5	70.4	59.8	55.4	43.2	22.4	49.2	94	−16	Apr. 4	Oct. 14
Desoto	25.0	21.0	41.4	50.8	67.2	69.2	76.1	71.2	60.2	54.4	43.0	[c]22.5	50.2	95	−13	Apr. 13	Oct. 14
Dows	20.1	14.6	36.8	45.6	61.4	64.4	72.4	65.2	57.8	50.9	39.5	17.2	45.5	94	−24	Apr. 26	Sept. 12
*Dubuque	22.8	17.6	39.3	48.5	63.4	65.0	73.4	68.5	59.6	53.5	44.0	21.9	48.1	90	−18	Apr. 9	Oct. 14
Earlham	.....	.....	39.6	48.4	63.2	64.4	72.5	68.4	58.1	52.6	40.8	19.4	.....	.....	.....	Apr. 24	Sept. 12
Eldon	24.4	18.4	40.8	50.0	67.0	66.7	75.0	71.1	60.6	55.9	45.7	23.6	49.9	95	−18	Apr. 24	Sept. 13
Elkader	20.7	16.4	38.4	46.0	64.1	65.4	73.8	69.6	59.8	53.4	43.2	20.4	47.6	95	−30	Apr. 24	Sept. 12
*Estherville	19.4	17.4	35.2	44.2	60.2	62.6	.....	66.1	55.4	.....	[a]32.6	14.6	.....	.....	.....	Apr. 26	Sept. 12
Fairfield	24.3	[c]18.9	39.8	.....	[c]66.2	66.0	75.4	70.9	60.9	55.4	44.4	.....	.....	.....	.....	Apr. 16	Sept. 13
Fayette	18.5	13.0	36.7	45.4	62.1	63.3	[c]70.2	66.0	57.0	50.2	40.2	18.0	45.0	92	−30	May 10	Sept. 12
Fertile	.....	.....	.....	.....	.....	.....	.....	.....	.....	50.6	.....	.....	.....	.....	.....	.....	.....
*Forest City	20.0	16.4	35.5	45.2	61.4	63.4	71.6	67.5	58.2	50.9	37.0	17.4	45.4	92	−20	Apr. 26	Sept. 12
Fort Dodge	20.2	16.3	38.0	46.4	63.4	64.0	72.2	67.7	58.4	.....	.....	.....	.....	.....	.....	Apr. 27	Sept. 12
Galva	21.1	[c]16.8	37.8	47.5	63.4	[c]65.3	71.8	68.8	58.0	.....	.....	.....	.....	94	−21	Apr. 26	Sept. 4
Glenwood	25.2	19.9	42.4	51.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Meadow	18.6	14.6	36.2	46.1	61.6	63.0	70.9	67.2	57.6	50.7	40.4	18.2	45.4	90	−25	May 10	Sept. 13
Greene	20.2	15.0	37.2	46.8	63.1	65.3	73.2	68.2	58.2	51.4	40.2	19.0	46.5	93	−24	Apr. 24	Sept. 13
Greenfield	24.6	18.0	39.4	49.1	63.8	65.1	72.2	69.0	58.8	54.2	42.5	20.2	48.1	90	−10	Apr. 24	Oct. 14
Grinnell	22.7	17.8	38.6	48.0	64.0	.....	.....	.....	.....	53.2	42.0	20.6	.....	.....	.....	Apr. 23	Oct. 14
Grinnell (near)	21.7	16.9	38.4	.....	.....	65.1	72.1	68.6	59.0	53.9	43.0	20.6	.....	.....	.....	.....	.....
Grundy Center	20.1	15.0	37.6	46.8	62.4	64.0	72.2	68.3	58.0	52.7	41.2	19.9	46.4	92	−25	Apr. 24	Sept. 12
Guthrie Center	23.0	18.2	39.3	[c]44.2	60.2	64.6	72.4	67.9	58.4	53.0	40.6	20.2	46.8	95	−25	Apr. 23	Sept. 12
Hampton	21.6	17.2	37.6	47.4	62.4	64.4	72.6	68.4	59.2	53.3	40.4	18.8	46.9	94	−19	Apr. 23	Sept. 12
Haulontown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	37.0	16.6	.....	.....	.....	.....	.....
Harlan	22.4	17.8	39.2	48.7	64.0	65.8	73.6	69.6	58.4	52.5	38.0	18.6	47.4	95	−22	Apr. 23	Sept. 12
Humboldt	24.4	20.6	39.0	47.0	63.1	65.3	72.6	68.4	58.8	52.2	40.0	17.5	47.4	94	−22	Apr. 23	Sept. 12
Idagrove	.....	.....	.....	.....	.....	.....	.....	.....	.....	52.2	.....	18.3	.....	.....	.....	.....	.....
Independence	19.6	13.6	37.0	46.2	61.8	[c]63.4	71.0	67.3	58.0	51.8	41.4	18.2	45.8	89	−24	Apr. 24	Sept. 12
Indianola	24.3	18.6	40.4	48.8	65.2	66.2	73.4	70.0	61.2	55.4	[c]45.0	[c]21.8	49.2	94	−20	Apr. 13	Oct. 14
*Iowa City	21.1	16.7	39.4	49.5	66.3	66.6	74.5	70.3	61.0	56.2	44.8	22.2	49.0	95	−23	Apr. 24	Oct. 14
*Iowa Falls	17.9	14.5	36.5	46.1	62.1	64.0	71.9	67.5	56.9	50.7	39.5	17.9	45.5	92	−25	Apr. 24	Sept. 12
Jefferson	.....	.....	.....	.....	.....	.....	.....	.....	.....	53.6	.....	.....	.....	.....	.....	Apr. 23	Oct. 13
*Keokuk	27.5	21.0	42.2	51.5	67.7	68.4	76.6	72.2	62.4	58.0	48.2	27.0	51.9	96	−10	Apr. 7	Oct. 14
*Keosauqua	25.5	19.2	41.7	51.2	67.8	68.2	76.0	71.6	61.7	56.0	46.4	24.8	50.8	97	−15	Apr. 24	Sept. 13

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Iowa—Continued.																	
Knoxville	24.8	.....	40.6	.....	.....	.....	74.6	70.3	60.0	.....	.....	.....	.....	.....	.....	.....	.....
Lansing	.....	.....	.....	48.4	63.0	65.6	73.0	68.6	60.1	52.8	40.9	20.4	.....	.....	.....	Apr. 24	Sept. 12
Larchwood	.....	18.8	[d]34.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Larrabee	20.4	17.8	35.8	45.2	62.4	64.4	72.5	68.5	57.7	50.9	36.2	16.6	45.7	93	−22	Apr. 26	Sept. 12
Lemars	21.6	18.0	37.2	46.2	62.6	64.8	71.6	68.2	58.2	51.6	36.8	18.1	46.2	93	−24	Apr. 26	Sept. 12
Lenox	23.8	17.2	39.8	49.4	64.4	65.3	72.6	70.2	59.4	54.6	42.0	20.4	48.3	91	−24	Apr. 23	Sept. 12
Leon	.....	.....	.....	52.8	66.7	67.7	75.0	71.4	60.2	56.0	44.3	22.8	.....	.....	.....	Apr. 23	Oct. 13
Logan	24.0	19.3	40.4	51.0	65.4	66.1	73.4	71.1	59.3	54.2	39.6	20.2	48.7	95	−21	Apr. 23	Sept. 12
*Maquoketa	21.4	16.1	39.1	47.8	65.5	65.0	72.8	68.6	59.6	53.3	44.2	19.6	47.8	92	−29	Apr. 27	Sept. 12
*Marshalltown	23.0	17.6	39.2	48.6	64.8	65.9	74.3	70.0	59.6	53.7	43.6	21.4	48.5	96	−23	Apr. 24	Sept. 13
Monticello	20.2	15.6	38.4	.....	64.6	65.9	74.4	67.4	57.8	54.4	.....	19.6	.....	.....	.....	.....	Sept. 12
Mountayr	23.9	17.5	40.2	49.4	64.6	65.9	74.0	71.0	59.8	55.4	42.8	21.1	48.8	93	−23	Apr. 23	Sept. 13
Mount Pleasant	22.7	17.8	39.2	49.9	64.6	65.4	75.8	70.0	60.5	53.8	43.0	22.4	48.8	95	−17	Apr. 27	Sept. 13
Mount Vernon	21.7	16.6	38.3	48.6	64.5	65.5	73.9	70.0	59.8	55.1	44.4	21.0	48.3	95	−21	Apr. 23	Sept. 13
New Hampton	19.2	12.8	36.4	46.8	59.0	63.1	70.2	65.4	55.8	50.0	38.6	[f]18.0	44.6	90	−22	Apr. 27	Sept. 12
Newton	22.6	17.9	38.3	47.9	.....	64.3	72.4	68.6	58.7	53.3	43.0	20.5	.....	.....	.....	Apr. 23	Sept. 12
Northwood	20.1	17.3	37.0	46.4	61.0	63.0	70.2	66.2	57.3	50.2	37.6	17.8	45.3	89	−18	Apr. 23	Sept. 13
Odebolt	21.6	18.6	39.0	48.0	64.2	66.6	73.7	70.2	59.4	52.6	36.7	18.8	47.4	97	−21	Apr. 23	Sept. 12
*Ogden	23.1	17.6	39.4	48.8	64.0	66.1	73.4	70.2	60.7	55.9	[e]43.3	[e]23.3	48.8	96	−24	Apr. 26	Sept. 12
Olin	20.7	13.8	38.4	46.2	[e]64.7	64.8	72.6	68.0	58.2	52.4	43.6	21.2	47.0	90	−28	Apr. 27	Sept. 12
Onawa	23.6	20.4	40.0	50.2	66.4	68.8	74.4	71.5	61.4	55.8	39.2	19.9	49.3	94	−23	Apr. 23	Sept. 12
Osage	18.8	14.8	36.8	45.4	61.0	62.6	71.1	66.0	57.0	49.6	38.1	17.4	44.9	90	−22	Apr. 26	Sept. 12
*Osceola	.....	.....	.....	48.9	[d]64.7	64.2	73.6	70.7	59.8	55.2	43.6	22.5	.....	.....	.....	Apr. 8	Oct. 14
Oskaloosa	23.6	18.4	38.6	48.0	63.6	65.6	73.4	69.2	59.3	55.0	44.9	22.6	48.6	92	−17	Apr. 24	Sept. 13
Ottumwa	25.9	20.2	41.6	50.9	67.4	67.6	75.8	71.7	59.8	57.2	46.5	25.6	50.8	92	−12	Apr. 23	Oct. 14
Ovid	24.4	18.8	40.7	50.3	64.8	65.6	73.6	70.6	60.4	56.3	44.9	22.6	49.4	92	−20	.....	.....
Pacific Junction	24.3	20.7	41.8	50.5	66.2	67.7	75.0	72.0	60.6	55.1	40.6	20.9	49.6	95	−21	Apr. 23	Sept. 12
Pella	23.3	19.7	.....	49.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Perry	23.2	18.0	39.8	49.4	65.6	66.6	75.1	71.0	.....	53.4	41.6	20.6	.....	95	.....	Apr. 23	Oct. 14
Plover	20.8	16.4	36.8	45.2	61.5	62.6	70.6	66.6	55.6	48.9	[e]35.5	17.4	44.8	95	−25	Apr. 27	Sept. 4
Primghar	20.3	17.4	37.4	47.3	61.2	.....	.....	.....	.....	52.6	.....	.....	.....	.....	.....	Apr. 23	Oct. 13
Redoak	27.4	21.4	41.8	50.6	65.6	67.0	74.1	72.1	60.9	56.0	44.2	25.2	50.5	90	−15	Apr. 13	Oct. 12
Ridgeway	21.4	18.0	38.1	47.0	61.8	64.7	74.0	69.4	60.0	53.8	41.9	20.6	47.6	95	−21	Apr. 24	Oct. 14
Rockwell City	[e]22.8	17.8	36.2	46.6	62.0	64.0	71.4	68.0	.....	53.1	38.0	19.5	.....	94	−21	.....	.....
Ruthven	[e]20.2	.....	.....	47.7	60.6	64.6	72.0	68.0	58.0	.....	.....	.....	.....	.....	.....	Apr. 23	Oct. 12
Sac City	20.4	17.4	38.5	47.7	63.6	65.9	72.0	68.8	59.1	53.5	38.4	17.2	46.9	94	−21	Apr. 23	Sept. 12
St. Charles	25.9	20.2	40.8	50.6	65.4	66.2	73.8	70.5	60.5	56.6	44.4	22.8	49.8	99	−16	Apr. 24	Oct. 14
Scranton	22.5	18.0	37.7	48.7	63.9	66.0	74.1	69.2	.....	52.6	38.8	19.8	.....	.....	.....	Apr. 23	.....
Sheldon	20.4	17.2	36.8	46.0	60.8	63.8	71.2	67.4	57.8	51.8	37.0	15.3	45.5	92	−23	May 30	Sept. 12
*Sibley	19.2	15.2	[e]35.4	45.4	60.8	63.6	71.0	67.8	57.6	51.6	35.4	[e]15.8	44.9	94	−21	Apr. 26	Sept. 12
Sigourney	24.2	19.0	41.5	50.2	66.6	66.6	75.0	70.4	60.4	54.9	45.4	23.0	49.8	97	−18	Apr. 24	Sept. 13
Sioux Center	20.8	17.4	35.4	45.8	62.2	65.0	71.3	68.2	57.8	51.4	34.9	15.6	45.5	91	−20	Apr. 26	Sept. 12
*Sioux City	22.8	18.8	38.4	48.0	64.0	65.6	73.4	69.8	59.9	54.5	37.5	17.7	47.5	95	−21	Apr. 23	Sept. 13
Spirit Lake	20.4	17.4	.....	.....	60.5	64.8	72.8	68.4	.....	51.3	[e]34.4	16.2	.....	.....	.....	.....	.....
*Storm Lake	20.1	16.2	36.0	45.8	60.9	63.2	70.9	67.4	58.1	52.1	37.1	16.7	45.4	90	−20	Apr. 23	Oct. 5
Stuart	.....	.....	.....	49.2	65.4	66.7	74.5	70.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Thurman	25.2	22.2	44.5	53.1	66.5	67.8	76.1	72.0	60.2	55.5	41.0	21.0	50.3	96	−27	Apr. 23	Sept. 13
Tipton	23.8	16.6	40.5	48.8	64.7	63.8	73.0	68.1	59.7	54.0	43.8	22.6	48.3	92	−18	Apr. 24	Sept. 12
Toledo	.....	.....	.....	48.7	.....	.....	.....	69.2	59.4	53.9	42.8	20.6	.....	.....	.....	Apr. 24	Sept. 12
Villisca	24.8	18.5	41.8	49.8	65.3	65.9	74.1	.....	59.9	56.4	42.8	21.8	.....	.....	.....	Apr. 23	Sept. 12
Vinton (*a*)	[d]20.9	16.1	38.0	46.0	64.0	64.9	73.0	[e]68.5	58.5	53.0	42.4	21.1	47.4	91	−27	Apr. 13	.....
Wapello	[d]25.0	[e]18.6	41.0	51.8	65.5	65.6	73.5	69.0	61.0	54.5	45.8	25.1	49.7	90	−12	Apr. 13	Sept. 12
Washington	22.6	.....	.....	[d]47.0	64.4	64.0	72.5	68.2	58.7	53.7	42.9	21.0	.....	91	−20	Apr. 24	Sept. 13
*Waterloo	20.4	15.6	37.5	47.3	63.3	64.6	72.7	68.8	59.4	53.2	41.9	19.6	47.0	94	−23	Apr. 24	Sept. 12
Waverly	20.3	15.2	37.8	47.4	63.2	64.2	72.0	67.5	58.6	52.4	40.8	19.0	46.6	91	−25	Apr. 24	Sept. 13
Westbend	20.7	18.0	37.2	46.7	62.5	64.8	72.2	67.8	57.8	51.3	37.8	17.5	46.2	93	−20	Apr. 24	Sept. 12
Westbranch	.....	16.1	39.2	[d]44.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 17	.....
Whitten	19.5	15.9	37.2	46.8	63.2	64.4	73.3	68.1	57.8	52.2	41.8	.....	.....	93	−22	Apr. 23	Sept. 12
Wilton Junction	22.9	17.0	40.0	48.8	64.2	67.2	75.2	70.8	61.0	54.4	44.8	22.1	49.0	96	−21	Apr. 24	Sept. 12
Winterset	[e]24.7	19.6	41.3	50.4	64.3	66.0	73.6	70.0	60.3	53.4	43.4	21.0	49.4	91	−17	Apr. 23	Sept. 12
Kansas.																	
Abilene	29.0	.....	47.0	55.4	65.2	67.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Achilles	28.8	29.4	41.2	52.2	62.7	66.6	73.1	73.7	61.1	53.7	40.2	23.8	50.5	110	−17	Apr. 17	Sept. 12
Altoona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.3	.....	.....	.....	.....	.....
Atchison	28.7	22.6	44.4	53.4	69.0	69.4	76.2	76.0	62.8	59.1	46.8	27.0	53.0	98	−12	Apr. 2	Oct. 14
*Baker	.....	.....	.....	50.9	66.8	68.4	74.4	75.0	61.3	.....	.....	.....	.....	.....	.....	Apr. 23	.....
Beloit	27.1	23.8	45.6	55.4	[e]68.0	69.8	77.6	77.6	63.0	57.2	43.6	.....	.....	106	−16	Apr. 23	Oct. 28
Burlington	30.6	24.2	46.7	56.4	70.0	71.8	77.6	78.2	.....	60.0	50.4	30.6	.....	103	−15	Apr. 17	Oct. 28
Chanute	33.4	28.4	49.6	.....	.....	.....	.....	.....	.....	.....	.....	31.2	.....	.....	.....	.....	.....
Clay Center	.....	.....	.....	.....	69.6	.....	.....	78.1	63.4	58.4	46.0	25.6	.....	.....	.....	.....	Oct. 5
Colby	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	108	−15	Apr. 22	Sept. 12
Columbus	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	97	− 2	Apr. 1	Nov. 18
*Concordia	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	104	−14	Apr. 11	Oct. 28
Coolidge	31.3	34.8	.....	53.3	66.7	70.5	75.8	77.7	64.4	.....	.....	.....	.....	.....	.....	Apr. 23	Sept. 27
Cottonwood	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30.0	.....	.....	.....	.....	.....
Cunningham	.....	.....	.....	.....	.....	.....	.....	79.6	64.8	59.6	47.6	.....	.....	.....	.....	.....	Oct. 28
Delphos	28.2	24.2	46.0	55.2	69.2	70.9	77.2	78.4	63.4	57.6	46.2	24.1	53.3	109	−18	Apr. 1	Oct. 28
*Dodge	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	105	−11	Apr. 1	Oct. 28
*Dresden	28.6	30.1	42.0	52.8	64.2	67.7	74.8	76.5	63.4	55.8	41.0	25.6	51.9	108	−14	Apr. 15	Sept. 12
Ellinwood	29.6	26.9	45.3	55.8	67.6	70.3	76.1	78.6	63.8	59.5	46.2	27.8	54.0	103	−16	Apr. 23	Oct. 28
Emporia	31.6	25.6	46.2	55.1	70.4	71.6	.....	.....	61.8	59.3	48.7	.....	.....	.....	.....	Apr. 7	Nov. 17
Englewood	32.7	33.8	47.4	57.1	67.4	73.3	77.8	81.6	67.4	60.9	45.4	30.8	56.3	106	−14	Apr. 3	Oct. 27
Eureka Ranch	28.4	28.9	44.4	55.2	67.4	70.0	75.9	78.6	.....	.....	.....	25.3	.....	107	−15	Apr. 26	Sept. 12
Fallriver	31.6	27.9	47.8	56.4	69.4	72.2	77.3	79.1	64.2	60.8	51.2	32.6	55.9	103	− 5	Apr. 11	Oct. 28
Farnsworth	29.0	30.1	43.8	53.9	66.2	69.6	75.2	78.0	64.1	56.2	48.0	26.2	52.9	107	− 5	Apr. 26	Sept. 12
Forsha	.....	.....	.....	.....	68.4	71.6	.....	78.9	63.8	61.0	48.2	29.8	.....	.....	.....	.....	Oct. 5
Fort Leavenworth	.....	24.2	43.2	53.2	69.4	70.4	79.3	78.6	65.3	61.0	48.6	28.2	.....	98	.....	Apr. 13	Oct. 14
*Fort Scott	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	101	−10	Apr. 8	Oct. 28

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Kansas—Continued.																	
Frankfort	30.2	21.6	45.9	53.2	68.2	70.0	76.2	77.0	62.8	58.5	44.9	24.5	52.8	103	−22	Apr. 17	Sept. 12
Fredonia	.....	.....	48.4	56.2	69.4	72.0	76.4	79.4	[f]62.9	[e]61.8	51.4	33.3	.....	.....	.....	Apr. 16	Oct. 28
Garden City	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	112	−12	Apr. 26	Sept. 30
Gove (*a*)	30.0	30.9	43.8	61.2	63.3	66.6	73.2	72.6	62.1	55.8	43.6	25.4	51.5	106	.....	Apr. 7	Oct. 28
Grenola	31.4	27.7	47.3	56.8	69.0	72.0	77.0	79.1	63.9	59.0	49.7	32.1	55.4	104	— 4	Apr. 1	Oct. 28
Hanover	27.1	22.3	44.4	54.6	68.2	69.8	76.8	76.7	62.1	57.4	43.2	23.5	52.2	102	−20	Apr. 17	Oct. 28
Harrison	26.6	21.8	44.2	53.8	66.8	68.7	74.4	75.6	62.2	57.0	41.4	22.6	51.3	105	−22	Apr. 11	Oct. 28
*Hays	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	108	−15	Apr. 17	Oct. 28
Holton	.....	.....	.....	.....	.....	.....	.....	.....	61.0	57.7	46.1	26.6	.....	.....	.....	.....	Oct. 28
Horton	28.6	21.2	44.0	52.3	67.8	68.4	75.6	76.0	62.4	58.8	45.3	25.5	52.2	100	−14	Apr. 23	Oct. 14
Hoxie	28.7	30.7	42.4	53.6	66.3	70.0	76.4	.....	61.8	[b]55.4	41.8	24.9	.....	107	−14	Apr. 26	Sept. 12
Hutchinson	30.2	27.2	44.8	55.3	68.0	71.4	76.4	77.4	63.7	59.4	47.2	28.6	54.1	104	−15	Apr. 15	Oct. 28
Independence	32.8	28.7	48.8	57.8	72.2	75.2	80.9	81.0	65.4	61.9	52.0	33.4	57.5	106	— 2	Apr. 1	Nov. 26
Jetmore	30.0	31.0	42.9	57.1	67.4	71.2	76.8	78.9	65.0	59.8	44.3	28.3	54.4	108	−14	Apr. 26	Oct. 28
Lacrosse	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.6	26.3	.....	.....	.....	.....	.....
Lakin	31.4	33.2	45.1	55.0	66.7	71.8	78.2	80.1	65.6	56.4	42.8	28.0	54.5	108	−10	Apr. 26	Oct. 27
Lawrence	30.2	23.6	44.8	54.2	69.8	70.2	76.5	76.0	63.0	59.0	47.6	28.2	53.6	96	−10	Apr. 1	Oct. 28
Lebanon	27.0	23.0	43.0	54.6	67.4	69.0	73.2	75.4	61.6	55.2	41.1	22.4	51.1	103	−20	Apr. 17	Sept. 12
Lebo	29.6	22.6	45.8	54.8	70.0	71.0	77.4	77.2	63.2	59.8	43.2	29.7	54.1	99	−10	Apr. 1	Oct. 28
Leoti	31.4	33.6	42.7	53.6	67.2	69.6	75.2	77.8	64.8	56.3	41.8	29.0	53.6	107	−11	Apr. 23	Sept. 30
Little River	29.8	26.2	46.5	56.1	69.0	70.8	76.5	77.7	65.0	59.6	46.4	27.2	54.2	105	−15	Apr. 23	Oct. 28
*Macksville	30.4	28.0	44.8	54.4	66.8	70.8	75.8	77.8	64.0	58.0	43.5	26.0	53.4	102	−16	Apr. 23	Oct. 28
*McPherson	30.9	26.4	46.5	57.8	69.6	71.2	78.2	80.5	64.6	60.2	46.1	27.6	55.0	108	−12	Apr. 23	Oct. 28
Madison	29.7	24.0	46.4	55.6	.....	.....	76.0	76.3	62.2	58.6	49.4	31.2	.....	101	−16	Apr. 23	Oct. 28
*Manhattan	29.1	21.7	47.0	55.4	70.0	71.8	78.0	78.6	64.8	60.4	48.0	28.3	54.4	105	−16	Apr. 17	Sept. 13
Marion	30.6	24.9	47.1	57.4	70.2	72.9	79.0	78.4	64.6	59.6	48.0	.....	.....	102	−10	Apr. 11	Oct. 28
Meade	.....	.....	.....	56.6	69.8	73.1	77.3	81.0	69.4	.....	.....	28.8	.....	.....	.....	Apr. 23	.....
Medicine Lodge	32.7	32.6	48.7	60.4	70.6	74.9	[e]79.6	81.6	66.6	61.4	49.0	31.9	57.5	106	−10	.....	Oct. 5
Minneapolis	28.8	24.0	46.3	55.1	69.0	69.8	76.2	77.6	63.9	58.8	45.3	24.6	53.3	106	−17	Apr. 17	Oct. 27
Moran	31.2	24.8	47.0	55.6	70.4	71.7	77.1	77.2	64.0	61.2	51.2	52.8	57.0	97	— 8	Apr. 8	Oct. 28
Mounthope (*a*)	31.5	28.2	46.4	58.1	69.5	73.3	79.0	79.2	64.6	59.2	48.2	30.6	55.6	102	— 7	.....	Oct. 5
Ness City	[d]30.8	32.5	47.1	57.3	69.0	73.6	78.8	81.1	66.4	[e]58.8	46.6	28.7	55.9	109	— 9	Apr. 23	Oct. 28
Newton	32.0	27.3	47.6	56.5	.....	.....	78.0	.....	[d]64.8	60.4	47.6	29.9	.....	.....	.....	Apr. 11	Nov. 3
Norwich	32.8	29.9	47.6	57.6	69.0	73.2	77.6	81.0	66.1	61.2	48.2	31.0	56.8	104	−10	Apr. 11	Oct. 28
Olathe	30.5	23.0	44.8	53.8	68.7	69.2	75.8	75.4	61.9	59.2	48.6	29.2	53.3	95	−12	Apr. 17	Sept. 13
*Osage City	29.8	23.0	45.9	51.7	69.1	[d]70.4	76.4	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 11	.....
Oswego	33.8	29.8	49.0	57.4	70.6	72.6	77.0	78.8	65.6	62.0	52.2	34.3	56.9	102	— 2	Apr. 29	Nov. 18
Ottawa	29.2	22.4	45.6	53.6	69.2	70.6	76.6	75.8	62.4	58.6	48.1	29.2	53.4	100	−15	Apr. 17	Sept. 13
Paola	.....	.....	.....	55.6	69.4	.....	.....	.....	61.6	[d]59.6	.....	[d]31.4	.....	.....	.....	Apr. 7	Oct. 27
Phillipsburg	27.8	23.8	42.8	[b]51.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−14	Apr. 16	Oct. 27
Pratt	32.0	29.1	[d]44.6	56.0	67.4	71.8	76.3	79.0	63.7	59.0	46.4	28.8	54.5	105	−15	Apr. 23	Oct. 28
Republic	.....	.....	.....	.....	.....	.....	.....	.....	61.8	57.0	42.1	23.7	.....	.....	.....	.....	Oct. 28
Rome	32.4	31.2	48.8	57.4	69.4	74.1	78.1	81.0	65.8	61.4	50.2	32.7	56.9	107	— 7	Apr. 17	Nov. 17
Russell	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.4	.....	.....	.....	.....	.....
Salina	28.5	24.2	46.9	56.4	69.6	71.0	77.4	77.4	64.7	60.3	47.8	26.3	54.2	107	−15	Apr. 17	Oct. 5
Scott	27.7	29.0	.....	52.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Sedan	32.2	28.8	48.6	55.8	70.4	73.8	78.4	79.0	63.8	61.2	51.0	34.0	56.4	100	— 4	Apr. 1	Nov. 26
Seneca	28.4	22.2	44.9	53.0	67.9	69.1	74.0	75.6	62.4	58.4	44.8	25.2	52.2	99	−16	Apr. 12	Oct. 28
*Topeka	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	100	−10	Mar. 31	Oct. 28
*Toronto	29.0	23.1	45.3	54.4	69.6	71.7	77.0	78.0	63.4	59.0	48.8	28.8	54.0	104	— 8	Apr. 17	Oct. 28
Ulysses	32.3	33.0	[d]44.8	[b]52.6	65.8	72.0	79.0	82.3	66.5	58.3	44.5	[d]27.6	54.9	107	−11	Apr. 26	Oct. 28
Valley Falls	28.7	21.5	46.2	51.8	68.6	68.9	75.2	[e]76.3	62.4	58.6	47.4	26.8	52.7	97	−19	Apr. 16	Sept. 13
Viroqua	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	106	−13	Apr. 11	Oct. 28
Wallace	29.9	32.5	.....	54.0	66.5	72.4	.....	.....	63.5	55.2	.....	.....	.....	108	−10	Apr. 27	Sept. 12
Walnut	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[e]32.5	.....	.....	.....	.....	.....
Wamego (*a*)	30.6	21.9	45.1	54.5	68.2	69.9	76.8	75.6	61.8	58.0	45.5	27.2	52.9	102	−16	Apr. 7	Oct. 28
*Wichita	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	102	−12	Apr. 1	Nov. 17
Winfield	31.6	29.8	48.6	[e]57.0	69.5	74.7	79.2	79.6	64.3	60.2	49.9	31.8	56.4	103	— 4	Apr. 1	Oct. 28
Yates Center	29.4	25.0	48.2	57.1	71.0	72.6	77.1	76.4	62.4	58.6	49.4	.....	.....	101	−10	Apr. 1	Oct. 28
Kentucky.																	
Alpha	36.2	31.9	49.3	56.4	70.2	73.0	78.2	75.2	67.6	60.5	55.0	41.0	57.9	98	8	Apr. 8	Oct. 15
Anchorage	32.6	24.8	46.2	52.7	68.8	71.3	76.4	74.2	65.4	58.4	52.1	34.1	54.8	96	2	Apr. 13	Oct. 15
*Bardstown	34.3	27.6	.....	53.2	70.6	73.6	79.2	76.6	68.0	60.6	54.4	.....	.....	103	2	Apr. 8	Oct. 15
Beren	35.2	27.8	47.0	52.9	69.2	71.4	[e]78.1	73.4	67.6	59.8	53.8	36.2	56.0	99	3	Apr. 13	Sept. 14
Blandville	33.2	27.0	48.0	56.0	72.0	75.5	80.0	76.6	65.8	60.8	53.6	35.8	57.0	99	6	Apr. 8	Oct. 29
*Bowling Green	38.0	30.8	50.4	54.6	70.6	74.8	79.8	78.4	68.2	59.7	51.5	39.0	58.0	107	7	Apr. 9	Oct. 15
Burnside	34.0	29.5	47.1	54.4	71.0	.....	.....	76.0	69.2	58.8	52.1	37.6	.....	100	8	Apr. 13	Oct. 29
Cadiz	.....	.....	.....	.....	.....	75.8	80.8	79.2	69.2	61.7	55.3	36.4	.....	107	.....	.....	Oct. 29
Carrollton	31.6	25.2	45.8	55.4	71.4	.....	79.0	74.6	67.4	59.3	53.6	34.0	.....	99	— 2	Apr. 8	Nov. 27
Catlettsburg	33.6	28.0	45.2	54.2	.....	.....	.....	.....	.....	59.6	52.6	37.0	.....	98	6	Apr. 13	Oct. 15
Centertown	34.3	28.4	48.0	54.6	70.8	74.2	78.3	76.6	68.1	.....	.....	.....	.....	104	4	Apr. 15	.....
*Earlington	34.5	27.5	47.7	54.8	71.6	74.6	78.2	76.6	66.7	60.5	53.9	36.3	56.9	101	— 2	Apr. 15	Oct. 15
Edmonton	34.4	30.8	48.8	54.4	69.8	73.2	77.6	76.2	68.2	59.8	53.4	38.2	57.1	102	6	Apr. 13	Sept. 14
*Eubank	31.4	27.8	47.5	53.4	67.2	71.0	75.6	72.8	65.6	57.6	50.8	36.4	54.8	99	4	Apr. 9	Sept. 14
Fords Ferry	[d]33.3	.....	48.9	56.0	[f]70.0	74.2	77.6	76.6	66.4	60.7	53.8	37.2	.....	100	.....	Apr. 15	Sept. 13
Frankfort	[b]33.6	26.0	46.2	53.4	68.8	72.0	76.0	78.8	66.0	58.8	52.4	36.1	55.3	95	4	Apr. 8	Oct. 15
Franklin	38.2	30.4	49.2	57.7	71.3	74.0	80.0	78.9	69.2	61.6	57.0	38.4	58.8	101	10	Apr. 8	Nov. 27
Georgetown	32.3	26.3	45.8	53.4	69.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	Apr. 7	.....
*Greensburg	32.5	29.2	45.7	54.4	69.1	74.6	78.4	75.4	67.6	58.9	52.8	37.3	56.3	103	7	Apr. 13	Sept. 14
*Henderson	32.8	27.4	47.2	55.6	73.3	76.3	80.9	78.0	68.0	61.5	54.2	35.6	57.6	102	5	Apr. 8	Oct. 29
High Bridge	.....	.....	.....	.....	.....	73.1	77.4	74.8	68.2	59.9	53.0	37.6	.....	98	.....	.....	Oct. 29
*Hopkinsville	35.2	29.6	49.4	54.4	72.8	75.4	80.1	77.8	67.3	61.6	54.6	37.9	58.0	102	5	Apr. 9	Oct. 15
Irvington	[b]32.8	25.6	46.4	54.2	70.7	73.8	78.6	76.0	67.8	60.6	54.2	37.5	56.5	100	6	Apr. 9	Oct. 29
Jackson	.....	.....	.....	.....	.....	.....	73.6	74.0	69.0	62.6	56.3	40.6	.....	98	.....	.....	Nov. 22
Leitchfield	32.6	26.8	46.9	53.7	69.3	72.8	77.4	75.5	66.3	59.4	52.8	35.5	56.8	99	1	Apr. 9	Oct. 15
*Lexington	32.3	25.0	44.7	52.6	68.2	71.2	76.8	73.8	67.0	59.0	52.6	34.2	54.8	96	3	Apr. 8	Nov. 27
Loretto	34.0	27.2	47.6	.....	68.6	72.4	76.5	74.8	65.8	59.4	53.0	35.8	.....	98	2	.....	Sept. 14
*Louisville	38.6	26.8	46.9	54.6	70.6	73.4	79.2	75.8	68.1	60.6	54.0	34.8	56.5	99	4	Apr. 8	Oct. 29

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Kentucky—Continued.																	
Manchester	33.6	30.7	.....	53.4	°68.9	71.4	‡76.6	74.4	66.6	58.4	52.0	37.3	.....	97	4	Apr. 18	Oct. 15
Marrowbone	33.2	29.7	48.1	53.4	68.6	72.4	77.4	74.2	66.0	58.0	51.2	36.4	55.7	101	2	Apr. 18	Sept. 14
Mayfield	.....	.....	.....	57.0	73.5	76.7	81.7	77.9	68.0	61.4	55.3	37.6	.....	102	.....	Apr. 8	Oct. 29
*Maysville	30.0	24.8	44.1	52.0	68.0	72.1	77.0	74.6	67.0	59.3	52.6	36.3	54.8	100	3	Apr. 15	Oct. 15
Middlesboro	.....	.....	.....	.....	.....	.....	.....	75.8	65.0	58.4	53.5	37.6	.....	.....	.....	.....	Oct. 14
*Mount Sterling	31.8	25.8	45.6	51.0	68.0	71.6	76.7	73.4	65.0	58.0	51.7	35.4	54.5	98	4	Apr. 13	Oct. 15
*Owensboro	35.0	28.8	49.2	53.6	71.4	74.8	78.8	76.3	66.5	61.4	54.9	37.4	57.3	100	6	Apr. 9	Oct. 29
Owenton	30.2	23.0	43.4	51.8	67.4	70.2	76.4	72.8	66.2	57.4	50.0	34.2	53.6	94	0	Apr. 8	Nov. 14
*Paducah	36.8	30.8	50.7	58.7	75.2	77.8	82.6	79.9	69.2	63.4	56.4	39.2	60.1	103	8	Apr. 8	Oct. 29
Pikeville	34.4	31.0	46.8	54.0	70.2	72.8	78.2	76.0	69.1	62.9	55.0	39.6	57.5	100	8	Apr. 14	Oct. 30
Princeton	.....	.....	.....	.....	69.4	.....	.....	.....	.....	.....	.....	36.2	.....	.....	.....	.....	Oct. 29
*Richmond	.....	.....	44.8	53.0	68.3	71.1	76.6	74.2	67.6	60.7	51.8	35.6	.....	96	.....	Apr. 9	Nov. 28
*Saint John	33.5	26.0	47.2	53.4	69.0	72.8	76.8	74.6	66.4	59.0	53.2	35.8	55.6	98	0	Apr. 9	Oct. 15
Scott	31.2	23.0	44.5	52.5	67.3	71.0	76.2	74.6	66.4	58.8	51.8	32.8	54.2	98	— 3	Apr. 15	Oct. 15
Shelby City	32.0	27.0	45.6	54.0	68.4	71.5	75.8	73.4	66.0	59.5	52.7	35.8	55.1	98	3	Apr. 15	Sept. 14
*Shelbyville	33.6	26.0	46.8	52.7	69.9	72.9	78.1	74.6	66.9	60.2	51.9	34.4	55.7	100	2	Apr. 8	Oct. 29
Taylorsville	.....	.....	.....	.....	68.3	72.2	76.2	73.2	64.8	57.1	51.7	36.0	.....	96	.....	.....	Oct. 15
Warfield	35.4	30.4	°47.5	52.6	66.6	70.5	.....	.....	.....	.....	53.2	.....	.....	.....	4	Apr. 17	Oct. 29
*Williamsburg	.....	31.6	48.2	53.6	70.0	73.1	78.3	77.2	68.8	62.7	54.8	40.5	.....	100	9	Apr. 13	Oct. 29
*Williamstown	.....	.....	.....	.....	.....	72.8	78.2	74.0	67.0	60.2	53.5	34.0	.....	99	.....	.....	Oct. 29
Louisiana.																	
Abbeville	49.9	49.5	63.0	68.8	76.7	81.2	81.4	84.0	78.1	68.8	64.5	52.8	68.2	100	27	Mar. 6	Nov. 27
*Alexandria	44.8	45.1	59.6	68.6	77.9	82.6	83.4	86.4	76.6	66.7	63.2	48.6	67.0	107	23	Mar. 6	Nov. 27
*Amite	48.6	47.5	62.0	66.5	77.4	80.0	.....	.....	77.2	66.5	62.2	49.3	.....	103	21	Apr. 1	Nov. 27
*Baton Rouge	49.8	48.5	60.8	65.0	77.3	81.6	83.8	84.0	76.8	66.6	62.4	50.0	67.1	.....	.....	Mar. 19	Nov. 28
Burnside	.....	.....	62.4	67.2	77.6	80.8	81.7	83.4	77.6	67.3	64.4	55.0	.....	98	.....	Mar. 6	Dec. 5
Calhoun	40.5	41.2	54.2	61.8	†73.9	79.6	°79.6	82.4	71.3	°65.6	61.8	45.2	63.1	.....	.....	Mar. 19	Nov. 28
Cameron	49.2	51.2	62.4	69.0	77.6	82.4	83.1	83.8	78.0	69.6	64.9	53.5	68.7	96	31	Feb. 16	Dec. 5
*Cheneyville	45.0	46.2	60.1	68.4	77.4	82.3	82.8	85.2	75.6	65.5	62.6	49.0	66.7	103	21	Mar. 17	Dec. 4
Clinton	49.6	47.0	61.0	66.8	76.6	81.6	81.2	82.4	75.3	65.9	63.3	51.6	66.9	98	24	Apr. 1	Nov. 27
Collinston	43.2	44.0	57.6	67.3	76.6	82.4	82.8	84.9	73.0	66.0	60.9	46.2	65.4	104	20	Mar. 17	Nov. 27
*Covington	°51.0	49.2	62.9	66.0	78.2	83.2	83.8	85.2	79.2	68.5	64.0	51.8	68.6	102	24	Feb. 17	Dec. 5
*Donaldsonville	51.7	49.9	63.8	67.4	76.8	81.4	81.0	83.5	78.4	68.6	64.1	54.6	68.4	100	27	Feb. 22	Dec. 5
Emilie	50.2	49.1	61.8	67.2	77.2	81.2	81.2	82.6	76.9	67.1	63.4	51.6	67.5	99	26	Mar. 6	Dec. 5
Farmerville	.....	.....	63.6	64.6	72.3	80.3	80.2	83.5	.....	61.5	57.3	42.2	.....	100	.....	Feb. 23	Oct. 28
*Franklin	49.8	49.5	63.2	69.0	78.4	82.0	82.8	84.6	78.8	68.6	65.5	53.5	68.8	99	28	Feb. 10	Dec. 27
Grand Coteau	49.8	47.9	62.0	66.6	77.7	81.9	82.6	84.1	76.6	67.6	63.2	52.2	67.7	103	26	Mar. 6	Dec. 5
Hammond	51.8	49.4	62.6	67.7	77.8	82.4	81.8	82.7	76.8	66.5	63.1	52.0	67.9	101	24	Feb. 11	Dec. 5
Houma	.....	51.0	64.0	67.8	78.0	°81.9	83.4	83.7	77.9	68.2	64.2	53.2	.....	101	.....	Mar. 6	Dec. 5
Jeanerette	53.6	51.4	65.4	72.4	.....	.....	.....	.....	.....	.....	67.5	55.4	.....	.....	27	Mar. 6	Dec. 5
*Jennings	49.4	48.0	60.8	68.2	†77.0	80.9	82.0	84.0	76.6	68.2	63.8	51.6	67.5	99	26	Mar. 5	Dec. 4
*Lafayette	48.6	48.0	61.6	67.8	77.6	81.7	82.4	84.5	77.3	68.1	64.2	51.9	67.8	103	27	Mar. 6	Dec. 5
*Lake Charles	48.4	48.8	61.6	68.4	76.8	81.4	82.1	86.0	78.4	69.5	65.4	53.0	68.3	102	28	Mar. 6	Dec. 5
Lake Providence	46.0	44.4	57.9	66.4	75.8	80.2	81.0	83.0	72.9	65.6	62.6	48.2	65.3	100	10	Mar. 18	Nov. 27
Lakeside	49.2	49.0	62.6	68.4	76.8	81.4	82.4	84.4	77.8	69.2	65.5	53.2	68.3	98	31	Feb. 16	Dec. 27
Lawrence	‡52.8	49.7	59.8	67.7	78.2	82.5	83.6	84.2	79.2	70.2	.....	53.8	.....	100	28	Feb. 11	Dec. 7
Libertyhill	44.6	46.0	58.2	.....	75.0	82.6	82.4	85.7	74.6	66.3	62.2	48.4	.....	104	20	Mar. 6	Nov. 27
*Mansfield	42.4	44.0	56.3	66.1	74.4	79.2	79.6	83.3	72.4	64.8	61.3	48.9	64.4	100	21	Mar. 31	Nov. 27
*Melville	47.0	46.6	61.2	67.2	°78.2	80.0	81.5	83.7	76.0	66.1	61.6	50.4	66.5	100	22	Mar. 6	Oct. 29
*Minden	°42.6	45.2	58.1	67.0	74.6	‡82.7	°82.4	85.4	74.9	65.6	60.9	47.5	65.6	103	21	Mar. 19	Dec. 4
*Monroe	43.2	44.4	58.0	67.0	75.9	81.4	81.8	84.6	73.5	66.6	°62.1	47.6	65.5	99	22	Mar. 18	Dec. 4
New Iberia	.....	.....	°63.3	68.6	77.1	81.4	‡82.0	83.4	.....	69.4	66.2	54.4	.....	94	.....	Mar. 6	Dec. 27
*New Orleans	53.4	50.2	63.4	69.0	78.5	82.9	83.0	84.4	78.8	69.6	66.2	54.0	69.4	98	28	None.	Dec. 27
*Opelousas	47.4	46.1	60.5	67.5	76.9	81.4	81.8	84.5	77.0	67.0	64.2	51.0	67.1	102	26	Mar. 7	Dec. 5
Oxford	‡48.2	‡45.8	‡54.7	°65.0	74.3	80.2	81.2	°83.3	69.4	66.4	61.9	48.3	64.9	106	19	.....	Nov. 27
Paincourtville	‡50.0	48.3	61.6	67.2	77.5	81.4	81.2	83.0	76.0	66.0	.....	.....	.....	99	.....	Mar. 6	.....
Plain Dealing	42.4	42.7	56.3	66.0	†76.0	°79.5	79.4	82.9	72.0	64.8	59.8	46.1	64.0	99	19	Mar. 31	Dec. 4
*Port Eads	55.0	53.3	62.8	67.8	78.5	.....	84.7	84.9	81.2	74.0	70.0	58.4	.....	.....	36	Feb. 11	None.
*Rayne	51.0	48.8	63.3	°71.8	78.2	83.0	83.4	85.0	78.2	67.8	65.2	54.8	69.3	104	28	.....	Dec. 6
Reserve	.....	51.0	63.1	67.3	78.4	82.8	83.1	83.6	76.8	°66.1	.....	53.7	.....	103	.....	Mar. 6	.....
*Robeline	41.5	43.2	°57.0	65.8	76.6	81.8	81.6	‡82.9	74.0	64.2	61.2	48.3	64.8	100	10	Apr. 1	Dec. 5
Ruddock	50.2	48.0	63.4	69.0	78.4	80.0	81.5	.....	.....	.....	.....	.....	.....	.....	.....	Feb. 10	.....
Ruston	‡44.2	.....	°58.3	°65.6	†74.6	°81.4	°80.4	84.2	73.6	64.1	59.5	46.0	.....	103	.....	Mar. 18	Nov. 27
*Schriever	53.1	49.6	62.8	67.3	77.1	80.8	82.4	82.2	77.6	67.6	64.6	53.2	68.2	100	26	Feb. 22	Dec. 5
*Shreveport	44.2	45.4	58.1	67.6	75.8	81.7	80.8	85.2	73.6	66.2	61.3	47.9	65.6	100	23	Feb. 16	Dec. 4
Sugar Experiment Station	50.4	48.7	62.5	67.4	78.2	82.8	84.0	84.0	78.4	68.8	65.8	53.3	68.7	97	29	Feb. 11	Dec. 27
Sugartown	47.8	48.8	60.4	68.7	78.0	82.8	81.4	84.8	76.6	67.2	63.4	54.8	67.9	98	28	Feb. 16	Dec. 5
Venice	54.8	.....	63.4	65.0	73.8	.....	81.2	82.4	79.3	72.0	66.5	55.8	.....	.....	31	Jan. 23	.....
Wallace	52.5	51.2	63.8	70.4	79.0	81.8	83.0	83.8	77.8	68.2	64.8	53.6	69.2	104	27	Mar. 6	Nov. 27
White Sulphur Springs	47.2	46.4	60.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Maine.																	
Bar Harbor	22.1	25.7	38.4	44.1	51.5	58.1	65.2	63.8	59.4	48.3	40.6	23.2	45.9	89	—15	May 17	Oct. 5
Belfast	19.6	22.9	37.2	43.4	51.4	56.8	64.2	63.1	57.9	46.2	38.1	19.6	43.4	89	—17	May 21	Sept. 15
Bemis	.....	16.0	29.6	†36.3	46.4	57.4	63.8	60.7	52.4	.....	.....	.....	.....	90	—11	May 24	Sept. 14
Calais	17.4	21.4	34.6	42.2	51.4	62.7	65.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carmel	21.1	20.8	37.4	43.8	51.0	57.8	65.0	62.4	56.2	46.2	39.2	‡17.4	43.2	87	—18	June 6	Sept. 24
Cornish	19.0	23.4	38.8	44.2	54.3	60.7	66.0	64.4	59.0	48.1	40.3	21.2	45.0	90	—17	May 12	Oct. 10
*Eastport	21.8	24.0	36.4	41.6	47.8	54.5	60.8	60.6	56.8	47.0	39.5	22.4	42.8	84	—15	May 11	Oct. 10
Fairfield	16.4	21.6	37.6	44.0	53.3	60.6	66.0	64.4	60.2	47.5	38.5	18.4	44.2	90	—15	May 14	Oct. 5
Farmington	16.0	20.8	37.4	44.1	53.0	59.4	64.4	63.0	58.6	46.0	37.2	17.6	43.1	91	—18	May 21	Sept. 6
Fort Fairfield	.....	.....	32.9	40.2	45.8	°55.2	62.9	‡63.1	†58.8	41.8	34.0	.....	.....	87	.....	(†)	(†)
Gardiner	19.0	23.8	39.2	44.6	54.6	61.2	67.2	65.6	60.6	48.0	39.6	18.8	45.2	91	—20	May 12	Oct. 11
Houlton	.....	.....	.....	40.9	49.1	56.8	65.9	63.0	59.2	48.2	38.2	21.0	.....	88	—21	June 8	Sept. 15
Kineo	12.8	15.2	32.2	37.7	°47.6	54.4	63.4	65.0	57.8	.....	35.3	11.4	.....	81	—20	June 15	.....
Lewiston	19.3	24.0	39.0	45.0	54.5	61.4	67.0	65.6	60.2	48.4	39.6	19.4	45.3	92	—14	May 12	Oct. 11
Mayfield	17.2	24.0	35.7	41.4	49.6	57.0	63.8	62.4	57.5	43.5	34.8	17.1	42.0	85	—19	May 31	Sept. 25
North Bridgton	18.4	23.2	38.0	44.0	54.0	60.7	66.0	64.4	60.2	47.7	39.2	19.7	44.6	93	—16	May 19	Sept. 6

† Every month.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Maine—Continued.																	
Orono	17.3	21.6	36.8	43.4	50.7	56.8	64.2	63.0	59.0	47.2	37.2	17.0	42.8	87	−20	May 21	Sept. 25
Patten	.....	.....	.....	40.6	48.5	55.2	62.8	61.4	57.2	44.3	.....	14.8	.....	88	−19	June 1	Sept. 15
*Portland	22.2	25.6	39.6	44.2	52.6	59.4	65.4	63.6	59.0	49.2	40.5	23.4	45.4	90	−11	May 10	Oct. 10
Roach River	.....	.....	.....	.....	.....	58.0	69.4	.....	.....	43.6	.....	.....	.....	.....	.....	.....	.....
Rumford Falls	14.6	18.7	36.0	42.3	51.0	58.8	63.8	61.5	57.0	44.0	35.7	17.2	41.7	89	−19	May 21	Sept. 6
Van Buren	.....	.....	.....	41.8	48.0	57.0	64.0	62.2	57.9	43.0	32.6	10.3	.....	93	−30	June 6	Sept. 6
Vanceboro	.....	.....	.....	.....	.....	62.2	68.9	67.0	62.5	51.6	45.8	25.8	.....	90	−10	.....	Oct. 25
Winslow	18.2	21.6	37.0	43.4	.....	59.5	63.8	.....	.....	47.6	[38.0]	15.6	.....	.....	.....	.....	.....
Maryland.																	
Annapolis	32.5	30.5	47.8	54.2	.....	.....	.....	.....	.....	59.2	52.9	36.0	.....	98	12	.....	.....
Bachmans Valley	27.2	24.2	41.4	48.3	60.3	68.4	74.5	69.6	63.1	53.2	47.2	28.9	50.5	95	0	May 29	Oct. 15
*Baltimore	31.6	30.4	46.7	53.3	64.6	72.3	77.8	73.6	67.2	58.6	51.9	34.8	55.2	99	13	Mar. 19	Oct. 30
Boettcherville	29.4	24.5	43.2	50.7	66.8	70.4	76.4	71.8	66.5	56.5	49.9	32.2	53.2	104	− 3	.....	Oct. 22
Boonsboro	29.6	26.8	44.6	51.9	64.9	71.0	76.3	70.4	.....	.....	.....	.....	.....	101	3	May 10	.....
Cambridge	32.8	31.0	48.0	54.7	66.0	74.4	79.0	75.2	69.0	60.8	52.0	36.8	56.6	102	6	Apr. 16	Oct. 22
Charlotte Hall	[31.6]	29.1	.....	.....	[64.0]	.....	.....	[73.8]	.....	[58.8]	.....	.....	.....	100	1	.....	Oct. 28
Chase	29.4	26.2	44.6	51.2	63.3	69.5	75.6	71.2	66.0	56.6	51.5	32.6	53.1	98	− 5	.....	Oct. 22
Cheltenham	31.2	29.0	46.8	53.0	63.5	69.7	75.5	71.0	65.5	56.8	51.0	33.4	53.9	99	− 2	Apr. 4	Oct. 22
Chestertown	30.6	28.3	45.8	51.6	63.2	70.3	75.6	72.5	66.3	56.5	50.6	33.8	53.8	95	8	Apr. 4	Oct. 21
Chewsville	28.5	26.1	43.8	55.2	62.6	69.0	74.8	70.4	67.0	56.0	49.5	30.8	52.8	101	− 2	May 10	Oct. 15
Clearspring	28.6	21.6	42.9	53.4	63.4	69.0	74.4	70.5	65.0	55.1	49.8	30.4	52.3	98	5	Apr. 16	Oct. 15
Coleman	.....	28.6	46.5	52.2	63.8	.....	.....	.....	.....	.....	51.8	34.6	.....	.....	9	.....	.....
Collegepark	29.7	27.8	46.4	52.4	63.9	70.8	77.0	70.9	65.2	56.3	49.8	32.8	53.6	100	− 3	.....	.....
Darlington	29.2	27.3	45.8	52.8	63.0	69.5	[75.6]	71.4	[64.3]	56.0	50.3	31.3	53.0	95	2	.....	Oct. 21
Deerpark	23.2	19.9	[38.0]	48.8	59.4	61.2	67.3	[62.2]	58.4	50.1	[44.2]	26.6	46.2	87	−15	June 24	Sept. 4
Denton	[30.4]	29.0	45.8	52.0	62.8	71.2	76.3	73.0	67.6	59.6	53.5	35.4	54.7	100	2	Apr. 18	.....
Easton	32.0	29.4	46.4	53.1	64.4	72.1	76.6	73.6	68.8	59.1	51.6	36.2	55.3	97	8	.....	Oct. 22
Fallston	29.8	25.6	43.9	52.2	62.2	69.4	75.0	71.6	67.6	57.0	50.2	32.2	53.1	96	3	Apr. 16	Oct. 22
Frederick	31.0	27.9	46.2	54.2	66.4	72.4	78.2	72.5	66.9	58.6	51.8	32.9	54.9	102	0	.....	.....
Grantsville	23.7	19.8	38.3	44.0	59.0	61.8	68.8	64.1	59.0	51.8	49.4	27.4	47.3	88	−10	June 24	Sept. 15
Greatfalls	29.8	26.7	45.7	52.2	66.8	70.8	76.2	71.4	66.4	58.8	51.7	32.0	54.0	104	1	.....	.....
Green Spring Furnace	29.0	27.4	[42.7]	50.8	64.2	69.0	76.1	70.9	65.5	54.4	49.4	30.5	52.5	100	0	May 29	Oct. 15
Guard	25.0	23.9	40.8	46.8	63.2	64.6	[71.6]	.....	.....	.....	.....	.....	.....	90	−10	June 24	.....
Hancock	[28.3]	26.0	43.4	52.3	64.3	70.8	75.6	71.2	64.6	55.8	51.8	31.7	53.0	100	− 4	.....	Oct. 15
Jewell	32.4	29.1	46.4	53.2	64.1	71.9	76.3	72.5	66.8	59.4	52.6	36.3	55.1	95	5	.....	Oct. 30
Johns Hopkins Hospital	28.9	28.6	46.6	52.9	64.6	72.2	77.4	73.8	67.5	58.0	50.8	34.2	54.6	99	10	.....	.....
Laurel	29.4	27.6	44.2	52.7	63.2	70.2	76.2	71.8	65.6	56.4	49.8	32.3	53.3	101	− 5	Apr. 16	Oct. 22
McDonogh	[28.4]	26.0	[42.7]	51.0	62.7	69.6	75.0	71.6	65.8	57.2	49.6	[33.8]	52.8	98	2	.....	.....
Mount St. Marys College	28.5	25.8	43.8	50.6	63.8	70.6	76.5	72.6	66.5	55.4	49.6	31.0	52.9	99	6	.....	.....
Newmarket	30.0	26.8	45.1	52.9	64.7	70.8	75.8	71.1	65.8	56.8	50.2	31.9	53.5	99	3	.....	Oct. 22
Pocomoke	34.1	32.8	47.5	53.0	64.1	72.3	77.0	73.6	68.4	61.4	54.6	[38.5]	56.4	97	12	.....	Oct. 30
Princess Anne	33.0	30.8	46.8	51.2	62.2	69.8	75.4	71.6	66.8	59.3	52.4	37.1	54.7	97	3	May 16	Oct. 22
Queenstown	30.3	28.0	47.2	.....	.....	.....	.....	.....	.....	58.2	50.8	35.0	.....	.....	2	.....	Oct. 21
Rockhall	30.5	29.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Sharpsburg	29.9	26.6	44.3	.....	.....	.....	.....	.....	.....	.....	.....	33.4	.....	.....	− 6	.....	.....
Smithsburg	29.0	25.2	42.1	[52.5]	64.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Solomons	32.8	30.4	46.2	53.6	65.8	72.4	78.2	75.2	69.6	62.0	54.3	37.8	56.5	100	14	Mar. 27	Oct. 30
Sudlersville	[30.8]	29.0	46.4	54.3	65.0	71.8	[77.4]	[73.4]	67.7	59.2	51.4	34.9	55.1	100	5	.....	.....
Sunnyside	24.3	19.8	37.6	45.1	59.0	61.8	71.8	64.7	59.9	52.2	45.0	28.0	47.4	89	−17	June 24	Sept. 14
Takoma Park	29.6	26.5	45.4	51.2	64.6	71.6	76.4	72.2	66.6	56.9	50.4	32.8	53.7	100	3	.....	.....
Taneytown	.....	26.5	43.8	53.0	62.8	69.6	77.0	72.8	65.0	.....	.....	.....	.....	98	5	May 29	.....
Van Bibber	29.8	29.0	45.4	51.6	63.1	70.6	76.2	72.2	66.1	56.4	50.2	33.3	53.4	98	5	.....	Oct. 22
Westernport	27.4	25.0	41.8	48.5	64.0	68.0	73.7	68.8	64.0	56.2	49.9	31.4	51.4	97	0	.....	.....
Woodstock	31.0	29.2	46.8	53.6	66.0	72.1	76.8	72.0	66.0	58.2	52.3	34.0	54.8	102	6	.....	Oct. 22
Massachusetts.																	
Amherst	23.7	25.6	40.9	47.5	[56.8]	63.0	68.4	66.2	60.9	50.3	42.4	23.8	47.5	90	−15	May 14	Oct. 10
Bedford	23.3	25.9	41.4	47.1	56.6	62.6	66.4	64.9	60.7	50.9	43.4	25.1	46.2	.....	.....	.....	.....
Blue Hill (Summit)	21.0	26.0	41.2	46.4	56.1	62.4	66.0	65.9	61.4	51.4	44.0	26.2	47.6	90	−14	May 10	Oct. 10
*Boston	26.6	28.8	43.4	48.4	57.6	64.3	67.8	67.6	62.6	53.6	46.2	28.6	49.6	92	− 8	Mar. 26	Oct. 22
Cambridge	25.1	28.0	43.0	.....	.....	.....	68.8	67.4	62.8	.....	45.3	26.6	.....	.....	.....	.....	.....
Chestnuthill	24.5	27.8	43.4	48.2	58.0	65.6	68.8	67.8	62.4	54.2	45.7	27.3	49.5	92	−10	Apr. 25	Oct. 15
Concord	22.0	25.6	41.2	46.4	56.0	62.8	66.1	65.4	60.1	50.4	42.8	23.2	46.8	92	−12	May 14	Oct. 10
East Templeton (a)	21.2	22.9	37.9	45.0	55.3	62.3	66.2	67.0	58.6	48.2	40.0	22.7	45.6	.....	.....	.....	.....
Fallriver	27.7	29.4	41.8	48.6	56.0	64.0	67.6	67.4	63.7	53.6	46.6	29.6	49.7	86	− 7	Apr. 15	Oct. 22
Fitchburg (a)[1]	22.9	24.8	39.6	45.9	56.1	63.5	66.6	65.4	59.3	49.2	41.6	23.8	46.6	.....	.....	.....	.....
Fitchburg[2]	22.4	25.6	41.3	46.6	56.3	63.2	66.8	66.2	60.6	50.6	43.0	24.0	47.2	91	−14	May 10	Oct. 18
Framingham	23.5	25.0	43.5	48.4	58.0	65.4	68.2	67.0	60.8	50.8	42.8	25.6	48.2	92	−14	May 10	Oct. 15
Groton	21.7	25.0	40.6	46.0	55.4	62.5	66.1	64.7	59.4	49.4	40.8	23.0	46.2	89	−14	May 14	Oct. 10
Lawrence	23.2	26.0	42.3	47.6	57.2	64.1	67.9	66.8	61.8	51.4	43.4	24.4	48.0	91	−12	May 10	Oct. 18
Lowell[3]	24.8	27.0	43.1	47.6	58.8	65.8	69.2	68.0	63.2	53.3	44.4	25.7	49.2	90	−11	May 10	Oct. 18
Lowell[3]	24.2	26.0	42.6	46.9	57.8	64.7	68.0	66.4	61.8	52.2	43.4	25.5	46.6	.....	.....	.....	.....
Ludlow Center	19.6	.....	37.7	43.2	53.0	56.0	63.6	.....	59.1	46.4	39.2	50.2	.....	.....	.....	.....	.....
Middleboro	24.4	26.8	41.0	46.0	55.4	63.1	66.5	65.4	61.4	51.8	44.7	27.9	47.9	89	− 9	May 14	Oct. 10
Monson	23.6	25.1	40.6	46.9	54.8	62.0	67.1	64.4	60.0	50.6	42.1	24.3	46.8	88	−12	May 10	Sept. 6
*Nantucket	29.8	30.0	40.4	46.0	51.9	60.6	64.9	66.7	63.1	54.4	48.9	33.6	49.2	80	− 1	Mar. 20	Nov. 3
New Bedford	27.7	28.6	40.6	47.2	56.0	62.8	67.0	66.7	62.6	53.1	46.2	29.1	49.0	85	−10	Apr. 18	Oct. 30
Plymouth (a)	27.0	27.9	41.7	47.6	55.6	64.4	[6.4]	.....	63.1	53.1	46.5	30.1	.....	.....	.....	.....	.....
Provincetown	27.8	28.8	41.8	49.6	54.4	63.6	66.6	68.2	64.9	54.0	47.8	33.8	50.0	90	− 2	Mar. 27	Nov. 24
Somerset (a)	26.4	28.0	43.0	49.8	59.0	67.6	71.2	70.8	65.9	55.4	48.2	30.6	51.3	.....	.....	.....	.....
Springfield	29.1	25.6	41.8	48.4	57.9	64.8	69.0	67.5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Taunton	23.7	26.5	40.6	46.0	55.0	63.2	66.4	65.0	60.9	51.1	43.8	26.9	47.4	.....	.....	.....	.....
Westboro	24.4	27.6	43.6	49.0	59.2	66.6	69.7	68.8	63.3	54.7	45.2	25.9	49.0	92	−13	May 12	Oct. 10
Weston	23.9	26.3	41.5	46.9	56.4	62.8	66.1	64.6	59.9	50.2	44.0	24.5	47.3	.....	.....	.....	.....
Williamstown	21.2	21.6	38.2	46.0	54.7	61.6	66.6	63.8	59.4	49.0	42.2	22.6	45.6	85	−14	May 12	Oct. 10
Worcester	24.2	26.0	41.9	47.5	57.6	64.4	68.2	67.6	61.8	51.4	44.2	25.6	48.4	90	−13	May 10	Oct. 22

[1] Dr. Jabez Fisher. [2] A. P. Mason. [3] Prop. locks and canals.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Michigan.																	
Adrian	24.1	20.3	39.8	46.9	59.6	64.8	74.8	70.2	62.6	53.2	45.6	25.7	49.0	90	— 7	Apr. 24	Oct. 29
Agricultural College	20.5	18.6	38.0	44.6	58.4	61.8	70.6	64.2	58.7	49.6	43.0	24.8	46.1	90	—12	May 28	Sept. 14
Allegan	[d]24.2	[e]19.7	.....	.....	60.2	63.4	71.1	[d]66.8	[d]58.0	49.1	[e]43.3	[e]26.4	.....	92	—12	May 28	Sept. 5
Alma	22.3	20.8	38.1	46.0	57.5	62.6	71.4	64.6	60.0	49.2	44.4	24.7	46.8	91	— 7	May 14	Oct. 10
*Alpena	20.5	19.8	33.8	40.9	50.0	55.8	67.2	61.4	57.2	45.7	42.2	24.0	43.2	92	— 8	May 14	Oct. 10
*Ann Arbor	22.6	20.2	38.8	46.2	58.6	63.6	72.0	67.0	61.2	51.0	45.0	24.8	47.6	91	— 7	May 11	Oct. 29
Annpere	25.2	20.7	38.5	44.8	59.8	65.0	.....	.....	.....	49.8	45.4	.....	.....	92	—10	Apr. 27	Oct. 14
Arbela	22.0	21.3	37.8	45.6	58.0	61.8	71.2	65.2	61.1	51.6	47.3	25.2	47.3	92	—10	May 28	Sept. 14
Baldwin	20.0	17.6	40.2	43.7	57.2	58.2	69.4	63.6	58.8	46.5	42.5	22.8	45.0	95	—26	June 22	Sept. 15
Ball Mountain	21.6	20.6	38.7	45.7	57.3	61.4	70.4	64.6	59.2	49.9	43.7	24.6	46.5	88	— 7	May 11	Sept. 14
Baraga	.....	19.8	[d]30.4	35.4	.....	.....	.....	.....	51.4	43.2	35.6	17.8	.....	87	—11	Apr. 7	Sept. 12
*Battlecreek	23.6	21.0	39.6	46.8	59.8	64.0	72.7	67.3	60.6	51.2	45.4	25.0	48.1	90	— 6	Apr. 15	Oct. 17
Bay City	24.6	.....	38.2	44.7	56.8	62.2	70.8	65.0	59.9	49.7	44.1	24.4	.....	91	— 2	May 12	Oct. 10
Benzonia	21.8	21.5	36.7	42.4	53.6	58.6	68.0	63.0	57.9	[f]48.4	.....	25.5	.....	87	— 4	May 15	Oct. 7
Berlin	21.0	[e]19.3	37.0	44.4	55.5	60.6	70.3	64.4	59.6	49.8	44.4	24.6	45.9	89	— 7	May 15	Oct. 17
Berrien Springs	25.3	19.8	39.9	46.0	61.2	64.2	72.2	67.3	60.8	52.6	47.3	26.7	48.6	91	—10	Apr. 4	Oct. 29
Big Rapids	19.8	18.0	36.0	42.6	55.9	60.0	68.8	62.2	57.2	46.6	42.4	23.0	44.4	90	—13	May 29	Sept. 14
Birmingham	21.6	21.4	[e]40.5	46.2	58.4	63.6	72.3	[d]68.8	60.8	52.6	43.6	25.6	48.0	91	— 6	May 11	Oct. 8
Boon	16.8	16.0	33.6	[e]39.1	52.3	56.7	66.0	[e]59.2	55.0	43.2	39.8	21.0	41.6	86	—23	May 29	Sept. 14
Calumet	17.6	20.6	33.0	38.0	49.9	54.2	66.0	61.5	52.4	43.5	35.0	[e]19.3	40.9	83	—12	May 25	Oct. 13
Carsonville	21.8	17.5	.....	.....	.....	.....	71.2	.....	58.1	[g]51.2	46.0	.....	.....	90	—12	.....	Oct. 20
Cassopolis	23.6	19.1	38.6	45.3	59.6	62.0	70.4	65.7	60.6	52.6	45.2	25.4	47.3	92	—10	Apr. 30	Oct. 17
Charlevoix	23.6	21.7	34.6	41.7	49.0	57.2	70.6	64.5	59.5	47.4	39.2	.....	.....	90	— 8	May 11	Oct. 10
Charlotte	[i]21.9	20.6	38.5	46.6	59.4	63.2	71.5	66.3	59.9	50.6	[e]47.8	27.3	47.8	91	— 7	May 28	Oct. 10
Chatham	18.0	18.4	31.4	37.2	49.4	53.3	64.5	58.9	51.8	42.4	36.4	20.2	40.2	88	—19	May 28	Sept. 25
Cheboygan	20.6	20.6	33.2	41.8	50.9	57.0	68.2	62.1	57.6	45.6	40.6	24.6	43.6	89	— 7	May 11	Sept. 12
Clinton	24.6	21.0	39.9	47.0	60.8	65.1	73.3	68.4	61.2	52.6	46.0	26.2	48.8	92	— 8	May 15	Sept. 14
Coldwater	24.4	20.2	41.2	46.6	59.4	64.0	72.5	67.4	62.9	55.4	.....	26.0	.....	91	— 8	Apr. 10	Oct. 20
Deerpark	20.8	21.2	31.8	38.6	48.4	52.8	62.2	.....	54.6	44.6	38.1	21.6	.....	88	—11	May 15	Sept. 25
*Detroit	24.6	22.6	39.3	47.2	58.4	63.9	72.8	68.0	62.2	52.4	46.9	27.0	48.8	91	— 4	Apr. 4	Oct. 21
Detour	20.0	18.6	32.3	39.8	48.6	54.0	65.9	63.0	55.8	45.4	39.6	22.6	42.1	88	— 6	Apr. 24	Oct. 17
Dundee	24.4	21.2	40.4	47.0	58.7	64.0	72.4	66.6	[e]60.2	52.8	46.4	26.1	48.4	91	— 7	Apr. 24	Oct. 20
Eagle Harbor	20.1	.....	33.0	38.1	47.2	52.4	63.8	62.0	55.0	45.5	36.6	[d]23.2	.....	85	— 8	May 28	Oct. 21
East Tawas	23.0	19.4	34.7	42.6	53.1	58.3	67.8	62.8	58.3	48.3	43.7	24.6	44.7	98	— 9	May 28	Oct. 10
Eloise	23.5	20.7	40.5	46.8	58.7	64.2	73.0	67.2	61.2	52.0	45.9	25.5	48.3	92	— 8	May 15	Oct. 17
*Escanaba	18.6	18.4	32.2	39.3	50.4	56.6	66.9	62.5	54.8	45.8	38.4	22.8	42.2	88	—18	May 10	Oct. 9
Ewen	19.5	21.8	.....	.....	53.5	.....	.....	59.4	51.5	42.2	.....	16.5	.....	90	—18	May 15	Aug. 30
Fairview	21.8	19.4	.....	.....	.....	.....	68.6	.....	.....	.....	.....	.....	.....	88	— 7	.....	.....
Fennville	24.4	20.8	38.9	45.9	59.2	62.3	71.3	66.0	60.0	51.6	46.4	28.0	47.9	90	— 5	May 10	Oct. 17
Fitchburg	21.6	19.7	38.7	45.2	57.2	62.6	71.4	64.4	59.6	50.4	44.2	24.7	46.6	90	—13	May 29	Sept. 5
*Flint	21.6	20.1	37.4	45.1	57.2	61.7	71.4	64.2	59.4	49.2	43.9	24.7	46.3	90	— 6	May 15	Oct. 10
Frankfort	22.6	.....	.....	.....	57.2	.....	.....	65.6	59.0	48.6	49.2	28.8	.....	88	— 5	Apr. 29	Oct. 17
Gaylord	18.8	21.2	34.8	40.1	51.8	57.1	67.6	60.2	55.0	43.6	39.2	19.2	42.4	90	—12	May 28	Aug. 16
Gladwin	21.8	.....	.....	.....	.....	61.2	69.6	65.9	57.9	47.2	42.4	19.3	.....	90	—12	.....	Sept. 14
*Grand Haven	24.8	22.0	36.9	42.7	56.2	60.4	69.2	64.4	59.0	50.4	45.4	28.1	46.6	85	0	May 10	Oct. 21
Grand Marias	.....	.....	.....	.....	.....	52.4	64.7	61.6	54.5	45.3	39.6	24.0	.....	85	.....	.....	Sept. 12
Grand Rapids	24.2	22.7	39.0	46.6	58.8	63.6	72.1	67.0	58.8	51.2	43.0	26.6	47.8	92	—11	May 10	Oct. 10
Grape	24.4	21.2	39.8	46.4	58.0	64.2	72.4	66.9	61.2	52.2	45.8	26.0	48.2	92	— 7	May 11	Oct. 29
Grayling	18.0	16.0	36.0	43.2	53.2	57.4	68.9	60.8	58.1	46.2	40.8	21.2	43.3	93	—12	May 28	Oct. 2
Hagar	.....	.....	.....	.....	.....	.....	73.6	66.6	62.0	53.7	48.4	29.1	.....	92	.....	.....	Oct. 20
Hanover	22.6	19.6	38.5	46.0	58.7	62.4	71.1	66.4	60.2	50.8	.....	.....	.....	89	—10	May 28	Oct. 17
Harbor Beach	22.8	20.4	35.8	43.7	53.2	60.2	68.0	62.2	58.4	50.7	45.0	27.6	45.7	92	— 9	May 15	Oct. 17
Harrison	20.2	19.2	[e]30.1	43.8	56.0	60.6	.....	[g]59.4	.....	.....	[e]38.4	19.8	.....	88	—14	May 18	Oct. 7
Harrisville	19.7	20.5	34.5	42.2	50.2	57.6	67.8	62.8	57.6	47.3	42.2	25.0	44.0	94	—11	May 10	Oct. 9
Hart	23.0	20.4	37.6	44.4	56.8	62.6	70.2	65.6	60.4	48.2	45.4	26.6	46.8	89	— 8	May 28	Oct. 16
Hastings	22.9	20.6	38.5	45.4	59.2	63.4	71.2	66.4	59.6	51.0	45.3	25.9	47.5	92	—10	May 28	Oct. 10
Hayes	21.4	19.2	36.8	43.0	54.0	58.3	67.2	62.8	58.7	48.2	44.9	24.8	44.9	90	— 9	May 15	Oct. 16
Hillsdale	22.7	19.1	38.7	45.9	59.2	63.1	71.6	65.6	59.7	51.0	45.0	24.9	47.2	90	— 9	May 28	Oct. 17
*Houghton	17.2	20.8	31.6	38.8	50.8	55.7	68.0	62.3	55.6	45.2	36.3	21.6	42.0	87	—10	May 9	Oct. 9
Humboldt	11.3	15.3	29.7	37.8	50.0	53.0	65.4	57.0	50.8	40.2	32.6	.....	.....	87	—31	May 28	Sept. 12
Ionia	.....	[d]20.0	.....	[d]46.9	61.2	63.3	.....	.....	.....	.....	.....	.....	.....	92	— 7	May 10	.....
Iron Mountain	16.3	17.9	35.0	42.0	54.0	58.3	67.8	62.2	54.0	44.5	34.6	19.1	42.1	90	—25	May 28	Sept. 13
Iron River	.....	.....	.....	40.3	53.6	57.8	66.7	[e]60.8	52.4	42.0	33.4	15.8	.....	90	—14	June 23	Aug. 12
Ironwood	15.4	16.4	33.1	38.2	52.8	57.6	67.8	.....	54.3	44.2	33.2	16.8	.....	89	—24	May 27	Sept. 12
Ishpeming	14.4	17.4	32.0	38.6	50.8	54.0	66.3	60.4	52.9	42.2	33.8	17.9	40.0	85	—23	June 5	Sept. 12
Ivan	19.6	18.4	34.8	41.4	53.4	57.7	66.2	60.9	56.8	45.0	41.0	22.2	43.1	86	—16	May 28	Sept. 14
Jackson	23.0	21.6	40.7	48.4	61.0	65.3	73.4	66.8	61.0	51.6	44.6	[d]23.8	48.4	95	— 6	Apr. 13	Oct. 17
Jeddo	21.8	20.6	37.4	44.8	55.2	59.9	69.1	64.0	60.2	49.7	44.3	24.8	46.0	89	— 6	May 11	Oct. 21
Kalamazoo	.....	23.2	38.7	46.7	58.6	67.0	72.7	67.9	59.5	50.8	44.2	[e]26.4	.....	95	— 4	Apr. 20	Oct. 28
Lake City	19.7	15.3	35.8	41.0	57.8	60.0	70.0	63.4	58.8	45.6	44.0	21.6	44.4	91	—16	June 6	Sept. 16
*Lansing	22.8	21.6	37.8	45.6	58.3	62.0	71.3	66.0	59.8	50.8	45.4	25.9	47.3	89	— 4	May 11	Oct. 10
Lansing[1]	22.4	20.9	37.8	45.5	58.8	62.4	71.6	65.8	59.8	50.0	44.6	26.1	47.1	.....	.....	.....	.....
Lapeer	21.6	20.7	[e]38.5	46.6	.....	.....	71.4	65.0	60.4	50.2	44.7	24.9	.....	90	— 7	May 1	Oct. 10
Lathrop	.....	17.5	35.2	[d]34.6	.....	58.5	.....	.....	.....	.....	36.7	[e]16.2	.....	80	—11	June 5	.....
Lincoln	20.4	20.8	34.0	41.7	51.4	57.9	69.0	.....	55.2	48.4	42.9	[d]24.0	.....	91	—12	May 29	Oct. 2
Ludington	24.8	21.9	35.7	42.0	53.8	59.6	68.2	.....	.....	48.8	44.3	28.6	.....	84	— 3	May 15	Oct. 7
Mackinac Island	20.6	20.0	32.8	39.6	48.0	52.4	61.4	.....	58.2	47.7	40.8	24.4	.....	85	— 8	June 19	Oct. 16
Mackinaw	20.1	19.1	32.8	41.9	51.4	57.4	69.4	64.5	58.1	46.0	40.6	25.0	43.9	94	— 8	May 15	Oct. 4
Mancelona	21.8	18.5	36.1	42.9	53.9	58.7	69.0	62.5	57.6	45.0	44.8	22.6	44.4	91	—20	May 28	Oct. 6
Manistee	22.0	21.3	37.0	43.0	55.2	59.2	69.6	65.2	.....	49.0	43.4	26.5	.....	90	— 7	May 9	Oct. 6
Manistique	20.8	20.0	[e]32.6	38.6	48.3	54.4	64.2	61.4	54.6	45.3	39.0	22.6	41.8	88	—16	May 27	Sept. 12
*Marquette	19.8	21.6	33.3	38.2	50.0	54.2	66.6	62.6	54.8	46.7	37.8	23.2	42.4	90	—14	May 10	Oct. 21
Menominee	19.6	19.1	33.2	40.4	52.0	58.4	68.6	63.3	56.5	47.7	[e]39.6	22.8	43.4	91	—21	June 21	Oct. 14
Midland	23.0	21.0	38.8	47.6	58.3	62.1	[e]71.6	65.4	57.7	50.8	44.2	24.4	47.4	92	— 9	May 28	Oct. 10
Mio	19.2	19.6	35.0	42.0	52.2	57.2	66.8	60.0	54.6	44.6	41.0	20.8	42.8	88	—14	May 28	Sept. 14
Montague	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27.2	.....	.....	.....	.....	.....
Mount Clemens	21.6	18.5	.....	.....	.....	.....	73.3	66.0	[e]59.2	[e]52.4	[e]45.9	.....	.....	97	— 6	.....	Oct. 14
Mount Pleasant	23.0	.....	39.0	43.9	57.7	62.3	71.0	64.6	59.2	48.2	44.8	24.3	.....	90	— 3	May 28	Oct. 14
Muskegon	24.3	19.8	37.6	43.8	58.0	62.6	71.0	65.8	60.5	50.9	45.8	27.8	47.3	89	—11	May 10	Oct. 7
Newberry	19.2	[d]18.1	32.4	41.2	50.1	54.9	66.2	59.3	49.0	46.1	.....	23.2	.....	87	—19	June 5	Aug. 29

[1] Dr. H. B. Baker.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Michigan—Continued.																	
North Marshall	21.4	20.0	[a]38.1	45.4	59.2	63.2	71.4	66.4	60.0	50.8	44.3	[f]25.8	47.2	91	— 9	Apr. 12	Oct. 17
Old Mission	24.0	.....	35.6	43.0	53.7	58.5	68.8	64.6	58.8	47.8	41.9	[b]26.9	.....	88	— 4	May 1	Oct. 16
Olivet	22.7	20.1	38.2	45.8	56.6	62.8	71.4	65.2	59.4	50.2	45.2	25.6	47.1	87	— 6	May 10	Oct. 17
Omer	21.8	20.3	35.1	41.6	52.8	59.8	.....	63.9	57.6	46.7	[f]47.2	21.4	.....	89	— 8	May 29	Sept. 14
Onaway	20.0	19.4	34.6	41.8	53.2	57.6	67.7	61.8	57.9	45.0	41.1	22.2	43.5	97	—13	June 7	Sept. 5
Ontonagon	17.8	18.0	32.2	38.3	51.6	55.0	66.4	61.3	54.9	44.2	36.0	18.8	41.2	89	—18	May 11	Sept. 13
*Ovid	22.0	20.4	38.2	45.7	57.8	62.0	71.1	65.4	60.4	49.8	45.0	25.7	47.0	90	— 6	May 28	Oct. 10
Owosso	22.8	20.6	38.3	46.4	59.6	63.7	72.4	67.5	[c]61.0	.....	.....	.....	.....	96	— 7	May 28	.....
Petoskey	[a]22.0	19.8	34.0	[j]42.8	51.4	58.4	68.8	64.0	59.6	45.4	41.4	[a]24.0	44.3	92	— 5	May 15	Oct. 4
Plymouth	27.2	.....	38.0	45.6	63.6	.....	.....	.....	.....	48.4	45.4	27.6	.....	92	— 2	Apr. 11	Oct. 2
Pontiac	21.7	20.4	39.6	44.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Austin	21.4	21.4	36.6	43.8	55.1	60.0	68.0	61.8	58.2	50.3	44.6	26.9	45.7	90	— 6	May 11	Oct. 15
*Port Huron	22.6	21.2	36.3	44.8	54.9	60.4	71.0	64.6	60.3	50.1	45.4	25.9	46.5	90	— 4	Apr. 15	Oct. 17
Powers	.....	.....	.....	.....	.....	.....	.....	63.6	54.6	45.5	39.0	20.9	.....	87	— 8	.....	Sept. 12
Reed City	[a]20.0	17.3	37.1	44.2	57.6	64.2	.....	64.4	[a]57.4	43.7	41.0	22.9	.....	90	—11	May 15	Oct. 7
Roscommon	21.1	.....	.....	.....	.....	.....	70.8	62.2	57.0	44.6	41.6	[a]23.5	.....	90	—20	.....	Sept. 14
Saginaw	23.5	22.6	38.4	46.8	58.0	63.2	72.1	66.0	60.8	50.2	45.2	26.0	47.7	92	— 6	May 11	Oct. 10
St. Ignace	21.4	19.8	33.6	40.0	50.5	56.6	66.2	64.2	59.2	.....	.....	25.1	.....	87	—10	May 11	.....
St. Johns	23.2	22.4	39.0	47.0	59.0	63.2	72.6	[a]67.6	61.0	50.6	45.8	26.7	48.2	92	— 6	May 28	Oct. 10
St. Joseph	25.7	21.6	39.5	45.8	59.2	63.8	72.8	68.6	62.8	53.2	47.4	27.2	49.0	92	— 2	Apr. 15	Oct. 17
*Sault Ste. Marie	17.1	17.3	32.2	39.7	49.8	53.2	65.4	61.6	55.2	42.8	37.8	19.6	41.0	84	—10	May 11	Oct. 4
Sidnaw	.....	16.7	35.0	.....	.....	.....	.....	.....	49.4	.....	.....	.....	.....	89	—11	.....	Sept. 3
Slocum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[j]29.8	.....	.....	.....	.....	.....
Somerset	[a]20.4	[a]20.0	[j]39.7	[a]45.4	[f]60.4	[f]62.2	[a]71.2	65.0	[a]58.6	50.2	44.4	21.7	46.6	59	— 9	May 15	Oct. 15
South Haven	.....	22.6	35.8	43.2	56.3	60.4	68.4	65.0	60.1	52.8	46.7	27.4	.....	87	— 2	Apr. 14	Oct. 21
Stanton	[b]16.2	.....	.....	42.4	60.6	63.0	.....	.....	.....	49.7	44.4	.....	.....	92	—11	May 27	Oct. 20
Thomaston	.....	14.6	32.6	37.0	53.2	55.0	64.8	58.0	51.4	[a]39.8	30.9	15.2	.....	90	—15	Apr. 8	Sept. 5
Thornville	22.4	21.0	38.0	45.5	58.5	62.8	71.8	64.8	59.8	49.8	44.4	26.4	47.1	88	— 3	Apr. 20	Oct. 10
Traverse City	23.4	21.7	34.6	43.2	53.0	60.0	72.0	65.0	.....	.....	.....	[b]29.5	.....	98	— 6	May 16	.....
Vans Harbor	.....	.....	.....	.....	.....	57.2	68.6	63.3	59.4	47.4	39.6	.....	.....	87	.....	.....	Sept. 19
Vassar	21.3	18.4	.....	.....	53.2	58.5	71.2	64.0	58.6	50.6	45.8	26.8	.....	90	— 6	June 28	Sept. 14
Wasepi	23.4	18.8	39.3	46.0	60.2	63.8	71.6	65.4	60.0	51.6	45.4	25.4	47.6	88	— 8	Apr. 20	Oct. 19
Waverly	24.2	19.8	38.0	42.1	58.2	63.8	71.4	67.0	60.0	51.0	46.4	26.6	47.4	95	—12	May 28	Oct. 29
Webberville	.....	18.5	38.6	45.4	58.5	63.2	72.2	66.4	60.2	50.8	45.6	25.8	.....	90	— 6	May 28	Oct. 10
Westbranch	20.3	19.8	36.6	42.2	55.0	58.6	66.8	61.8	56.2	46.0	41.2	22.2	43.9	88	—11	May 28	Oct. 8
Wetmore	15.6	.....	28.2	38.6	49.7	54.9	65.0	59.4	50.6	39.6	35.2	[a]17.6	.....	92	—23	July 16	Sept. 19
Whitecloud	22.2	19.4	37.8	45.0	56.6	62.2	70.6	64.1	.....	.....	.....	.....	.....	88	—17	May 31	.....
Whitefish Point	20.4	18.6	29.8	37.2	45.1	51.0	62.0	62.4	54.8	43.4	37.8	23.1	40.5	79	—10	May 15	Oct. 4
Ypsilanti	22.5	20.5	38.5	46.2	57.6	62.9	71.2	65.6	59.0	50.2	44.2	24.7	46.9	89	— 9	May 28	Sept. 14
Minnesota.																	
Ada	9.0	10.6	30.2	41.4	.....	.....	69.0	65.8	[a]53.6	.....	28.8	11.0	.....	92	—32	.....	Sept. 12
Albert Lea	16.0	13.8	34.6	45.0	[f]61.0	62.5	70.8	66.1	55.4	48.9	34.7	14.6	43.6	90	—19	Apr. 23	Sept. 11
*Alexandria	16.4	15.4	33.8	39.6	55.0	60.7	68.4	65.2	53.2	46.6	32.0	10.7	41.4	90	—26	May 12	Sept. 12
Angus	.....	.....	.....	38.0	55.5	58.7	68.0	63.0	50.7	41.6	24.6	5.1	.....	.....	.....	May 9	Sept. 11
Ashby	[a]14.6	15.0	33.4	[f]42.2	[a]57.2	60.4	68.7	66.2	54.5	45.6	31.3	10.8	41.7	93	—24	Apr. 26	Sept. 12
Beardsley	17.8	17.2	33.6	43.2	58.2	60.0	69.6	66.2	55.0	46.6	31.9	11.6	42.6	102	—29	May 9	Sept. 12
Beaulieu	.....	[a]15.7	31.2	38.4	[a]56.6	57.7	.....	62.8	52.4	[a]42.2	28.6	8.2	.....	.....	.....	May 10	Sept. 4
Bemidji	.....	.....	31.6	[a]41.0	56.3	61.4	66.4	64.2	54.3	45.4	30.6	11.5	.....	92	—33	May 10	Sept. 12
Bird Island	18.6	16.6	34.4	43.0	59.8	69.7	70.4	[b]67.9	56.0	49.2	34.2	12.2	43.5	90	—25	Apr. 24	Sept. 11
Blooming Prairie	16.1	13.6	35.4	44.1	59.3	61.8	69.6	65.5	56.9	48.4	36.2	15.0	43.4	88	—22	Apr. 26	Sept. 12
Brainerd	[d]12.2	14.6	32.5	40.9	58.0	62.4	69.6	66.6	.....	46.6	[f]35.6	10.2	.....	89	—27	May 10	.....
Caledonia	18.0	14.6	35.5	44.8	59.8	62.8	70.9	65.4	56.0	49.2	38.8	16.2	44.3	90	—24	May 10	Sept. 12
*Campbell	.....	.....	.....	40.6	58.2	62.6	70.4	67.1	54.0	.....	.....	.....	.....	.....	.....	.....	.....
Collegeville	18.2	18.0	34.0	43.4	58.5	62.7	71.4	65.6	56.4	47.9	34.8	15.0	43.8	89	—21	May 10	Sept. 11
*Crookston	12.0	13.2	31.2	40.4	57.3	60.2	68.9	64.5	53.6	43.9	28.6	9.8	40.3	92	—30	May 9	Sept. 11
Currie	[a]19.9	[a]15.4	[a]34.6	44.8	59.4	63.5	70.2	.....	55.6	49.6	34.4	12.4	.....	95	—23	Apr. 25	Sept. 12
*Detroit City	10.2	12.2	31.4	39.8	56.7	58.8	67.4	63.6	53.6	43.4	28.4	8.1	39.5	90	—37	May 10	Sept. 4
*Duluth	16.8	18.0	31.9	39.2	47.6	55.2	60.2	62.2	53.2	45.5	34.1	16.4	40.6	86	—22	Apr. 30	Oct. 14
*Duluth—substation	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31.0	13.0	.....	.....	.....	.....	.....
Faribault	18.9	15.0	35.4	44.6	59.8	61.6	70.4	65.8	56.4	48.9	35.3	14.8	43.9	90	—21	Apr. 24	Sept. 13
Farmington	18.2	16.2	35.8	45.0	60.3	63.0	70.9	66.0	57.0	48.4	35.8	15.2	44.3	89	—20	Apr. 26	Sept. 13
Fergus Falls	13.8	15.0	32.8	41.4	57.6	61.6	70.0	66.8	54.9	45.9	31.4	11.4	41.8	96	—26	Apr. 27	Sept. 11
Glencoe	17.5	17.8	34.6	41.0	55.6	61.0	66.7	64.8	53.0	45.0	33.2	13.3	42.0	88	—22	May 11	Sept. 6
*Grand Meadow	14.8	14.4	35.2	45.1	63.0	62.5	71.2	66.4	56.2	48.8	35.7	13.4	43.9	91	—21	Apr. 27	Sept. 11
Hallock	9.1	11.2	28.6	39.0	56.0	57.4	66.6	62.8	52.8	43.4	25.8	5.3	38.2	90	—36	May 10	Sept. 12
Lakeside	18.0	16.9	35.6	45.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake Winnibigoshish	11.6	13.5	30.2	38.2	54.5	60.2	68.4	62.6	52.6	44.6	29.1	10.4	39.7	92	—34	May 10	Sept. 13
Leech	11.2	13.8	30.9	37.8	54.4	60.8	67.8	61.9	52.8	42.8	30.4	9.6	39.5	89	—30	May 9	Sept. 12
Long Prairie	12.0	14.2	33.2	42.2	58.8	61.1	69.2	65.3	55.6	45.5	32.6	10.6	41.7	93	—30	May 10	Sept. 13
Luverne	18.9	17.8	35.2	43.4	57.2	59.0	65.8	[d]64.2	55.8	49.0	33.9	14.2	42.9	89	—20	Apr. 25	Sept. 13
Lynd	19.0	18.6	34.7	45.2	61.0	61.4	69.8	65.9	55.8	48.4	35.0	13.4	44.0	92	—26	May 9	Sept. 12
Mapleplain	17.2	16.2	35.2	44.4	59.3	63.5	70.6	66.4	56.7	48.4	35.0	13.2	43.8	90	—26	May 9	Sept. 13
Milaca	.....	.....	.....	41.6	56.8	60.9	[a]59.8	64.0	[d]54.8	[d]44.8	32.5	11.6	.....	90	.....	May 10	Sept. 11
Milan	17.6	17.5	33.8	43.6	58.2	60.9	70.9	66.7	[f]55.3	47.2	32.4	10.4	42.9	97	—30	Apr. 26	Sept. 12
*Minneapolis	18.7	18.2	36.2	44.6	60.2	64.1	71.6	66.6	57.2	49.6	36.0	15.6	44.9	88	—20	Apr. 25	Sept. 13
Minneapolis (a)[1]	17.6	16.5	34.6	43.8	59.8	64.2	70.8	65.9	56.0	47.2	35.2	14.8	43.9	89	—21	.....	.....
*Montevideo	16.8	16.3	33.0	43.0	57.8	62.4	70.4	66.0	56.4	47.4	33.2	10.6	42.8	94	—31	Apr. 26	Sept. 12
*Moorhead	12.2	14.0	32.0	41.0	57.2	59.8	68.8	64.8	54.2	44.9	29.8	9.6	40.7	93	—26	Apr. 23	Sept. 12
Morris	16.6	16.8	34.0	43.0	59.0	62.6	69.9	65.0	54.4	47.0	31.8	11.3	42.6	93	—26	Apr. 29	Sept. 12
Mount Iron	10.3	14.7	31.5	38.4	54.4	57.0	65.2	59.5	51.4	42.0	29.7	8.8	38.6	89	—40	June 23	Sept. 12
New London	17.0	17.0	33.8	43.8	58.7	61.6	71.0	66.6	56.1	44.8	31.6	8.8	42.6	94	—23	Apr. 25	Sept. 12
New Richland	19.6	16.8	36.4	45.2	61.0	64.7	72.0	67.4	58.0	50.0	37.0	16.4	45.4	90	—21	Apr. 27	Sept. 12
*New Ulm	20.8	15.4	35.7	45.0	61.4	64.4	72.2	68.2	56.6	50.0	37.4	15.4	45.2	93	—19	Apr. 24	Sept. 11
*Park Rapids	11.4	13.7	31.2	37.5	54.6	59.4	68.0	62.8	51.1	43.8	29.8	10.0	39.6	89	—35	May 11	Sept. 12
Pine River	11.0	13.4	31.8	38.3	54.3	62.0	69.3	65.7	53.4	44.7	32.4	11.3	40.3	92	—39	May 10	Sept. 13
Pipestone	18.0	16.8	33.9	42.1	58.0	63.3	71.4	67.0	53.2	49.4	33.6	12.2	43.2	90	—22	June 21	Sept. 12
Pleasant Mounds	20.4	17.9	36.5	46.1	60.1	61.6	69.9	65.9	[d]57.6	50.6	36.4	[f]15.6	44.9	88	—20	Apr. 24	Sept. 12

[1] J. H. Aschenbeck.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Minnesota—Continued.																	
Pokegama Falls	9.1	11.0	20.7	40.0	56.0	59.9	69.0	61.4	50.2	40.9	28.2	7.6	38.7	95	−50	June 23	Sept. 12
Redwing	18.6	14.9	36.6	46.8	63.1	67.6	74.6	[b]69.1	59.4	[c]52.6	[a]41.2	.....	.....	90	.....	May 11	Oct. 13
Rolling Green	18.8	17.2	36.5	44.6	60.5	62.6	71.1	68.8	56.2	49.5	35.6	15.4	44.7	92	−18	Apr. 24	Sept. 12
St. Charles	17.3	15.9	36.0	45.5	.....	.....	70.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Cloud	18.2	17.6	36.3	45.4	59.5	61.9	70.3	65.8	57.4	47.6	35.6	13.2	44.1	92	−25	May 10	Sept. 13
*St. Paul	18.5	17.8	36.2	44.8	60.0	64.1	71.4	66.6	57.2	50.0	37.3	15.9	45.0	88	−18	Apr. 24	Oct. 5
St. Peter	21.4	17.2	36.2	44.8	61.2	63.8	72.4	68.3	58.0	49.2	36.8	17.6	45.6	90	−21	June 22	Sept. 12
Sandy Lake Dam	10.6	13.3	30.3	39.4	54.9	59.5	67.8	63.4	52.9	43.9	30.8	9.6	39.7	90	−40	May 10	Sept. 13
Shakopee	18.8	16.4	36.2	45.2	60.4	63.6	70.4	66.1	57.5	48.4	36.7	14.6	44.5	89	−25	Apr. 24	Sept. 13
Tower	10.4	6.0	29.5	36.2	53.2	54.6	64.5	59.4	51.6	42.8	30.4	10.0	37.4	92	−41	June 25	Sept. 13
Two Harbors	13.9	15.7	27.4	36.7	47.2	53.0	62.8	58.6	50.0	42.8	32.8	15.1	38.0	87	−23	May 14	Sept. 12
Wabasha	18.7	16.2	38.0	46.7	61.6	65.4	73.0	68.2	60.1	51.1	39.2	17.4	46.3	93	−30	Apr. 24	Sept. 18
Warroad	8.8	.....	.....	39.2	45.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willmar	17.0	[c]18.5	33.6	43.4	58.2	62.2	[a]69.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willow River	13.2	14.2	22.3	[c]40.7	59.7	58.9	67.6	63.0	54.4	44.8	33.6	13.2	41.3	91	−40	June 22	Sept. 12
*Winnebago City	16.4	16.0	35.6	45.1	62.0	63.8	71.9	67.3	57.0	49.6	36.6	15.8	44.8	93	−20	Apr. 24	Sept. 13
Winona	19.4	16.4	38.1	46.5	61.9	65.0	72.0	66.7	58.6	50.7	40.6	17.9	46.2	90	−28	Apr. 24	Sept. 13
*Worthington	19.4	16.6	34.8	42.9	58.8	62.2	70.5	65.8	54.6	49.9	35.0	14.2	43.7	89	−20	Apr. 21	Sept. 12
Zumbrota (*a*)	[c]18.1	16.0	37.2	44.6	[c]61.0	63.5	71.1	66.2	.....	.....	.....	.....	.....	.....	.....	June 21	.....
Mississippi.																	
*Aberdeen	39.2	37.6	54.0	61.8	73.6	82.0	83.5	81.8	71.4	62.8	56.0	43.4	62.3	106	15	.....	Nov. 28
Agricultural College	41.8	38.8	54.8	62.3	76.4	82.0	81.8	[b]81.0	72.6	64.5	58.6	44.9	63.3	103	13	Mar. 18	Oct. 29
Austin	40.3	36.1	54.6	62.4	74.2	77.5	79.8	79.4	71.7	63.2	58.0	43.1	61.7	96	15	Mar. 18	Nov. 28
*Batesville	41.3	37.0	54.2	60.8	75.2	79.9	81.4	79.1	69.4	61.7	58.1	44.8	61.9	103	12	.....	Oct. 30
Bay St. Louis	50.4	50.0	61.6	67.4	78.5	83.1	84.6	83.8	78.8	68.5	63.8	52.2	68.6	100	26	.....	Dec. 5
Biloxi	51.3	49.5	62.4	67.0	78.6	83.0	83.8	84.0	78.6	69.0	65.6	52.7	68.8	98	24	Mar. 6	.....
Booneville	36.6	34.1	51.1	58.8	74.1	78.1	81.2	79.6	70.3	62.0	56.1	41.0	60.2	102	12	.....	Oct. 29
*Brookhaven	46.6	46.5	60.6	66.8	76.2	82.4	82.2	83.8	73.5	62.8	62.0	.....	.....	103	.....	.....	.....
Canton	44.2	42.6	57.2	64.8	75.6	81.6	82.6	83.6	73.6	64.7	60.6	46.8	64.8	106	18	.....	Oct. 30
Cleveland	43.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Columbus	41.6	38.2	55.0	62.0	75.2	80.6	82.6	81.0	71.8	62.0	56.8	44.8	62.6	100	15	.....	Oct. 28
*Corinth	.....	.....	[a]51.0	59.6	73.6	77.4	81.0	79.0	69.3	60.8	56.4	.....	.....	102	12	.....	Oct. 29
Crystal Springs	44.0	43.1	57.4	65.0	76.4	82.6	[a]83.2	83.4	74.0	64.7	61.2	46.4	65.1	102	19	Mar. 18	Oct. 29
Duck Hill	.....	39.8	55.6	63.0	[c]76.0	81.3	82.2	82.3	72.0	62.6	61.6	.....	.....	104	.....	Mar. 19	Oct. 29
Edwards	.....	.....	.....	66.8	76.4	82.8	82.6	84.4	75.1	67.2	63.2	48.0	.....	102	19	.....	Nov. 28
Fayette	45.2	43.9	58.6	[f]66.0	[f]75.2	80.2	82.2	83.4	73.0	64.5	61.6	47.6	65.1	100	21	Mar. 18	Nov. 27
Fayette (near) (*a*)	47.0	46.7	61.5	68.7	78.7	84.2	84.0	.....	76.2	.....	.....	.....	.....	.....	.....	.....	.....
Greenville[1]	42.4	40.7	56.4	64.0	75.0	80.2	81.6	81.8	72.0	64.0	58.7	46.0	63.6	95	20	.....	.....
*Greenville[2]	40.9	39.8	56.4	65.4	77.4	83.4	84.2	85.0	73.5	65.3	60.2	44.4	64.7	105	18	Mar. 6	Nov. 28
*Greenwood	.....	.....	58.4	66.2	76.1	81.0	82.3	81.8	70.9	62.8	58.5	43.8	.....	103	15	Mar. 17	.....
Hattiesburg	47.1	45.4	62.1	66.6	77.6	83.4	83.4	84.8	75.4	67.4	61.7	50.7	67.1	103	21	Mar. 6	Nov. 28
*Hazelhurst	45.6	43.8	57.2	64.8	75.9	81.8	83.0	84.6	75.5	64.8	61.5	46.8	65.4	103	17	.....	Nov. 27
*Hernando	38.7	32.5	52.6	59.8	73.5	78.0	80.6	79.0	69.0	62.0	58.4	41.8	60.5	98	14	.....	Oct. 29
*Holly Springs	37.2	33.1	51.4	60.0	74.6	78.9	81.6	79.6	70.1	62.4	56.2	40.6	60.5	99	13	.....	Nov. 28
Indianola	41.6	39.8	56.6	64.1	76.3	79.4	81.8	82.4	71.8	63.4	60.0	45.6	63.6	102	18	.....	Oct. 28
*Jackson	44.0	.....	58.7	67.2	77.2	83.6	84.4	85.2	75.8	65.6	61.8	.....	.....	105	.....	.....	Nov. 28
*Kosciusko	.....	.....	.....	.....	76.5	82.0	83.6	83.2	73.0	63.2	58.8	44.9	.....	104	.....	.....	Nov. 28
*Lake	42.0	40.3	54.9	62.6	75.0	80.8	82.0	82.1	72.1	61.8	57.0	44.4	62.9	100	16	Mar. 19	Oct. 29
Lake Como	.....	.....	.....	.....	.....	.....	.....	.....	74.3	64.9	58.2	48.3	.....	.....	18	.....	Oct. 29
Laurel	.....	45.8	61.3	.....	.....	.....	.....	.....	.....	[b]66.8	60.3	50.7	.....	.....	.....	.....	Nov. 28
Leakesville	46.2	46.8	58.8	65.8	76.8	82.3	83.8	84.3	76.5	66.7	60.7	51.6	66.7	106	19	.....	.....
Louisville	42.7	40.0	55.2	62.6	75.2	81.2	82.8	82.2	73.8	64.6	59.8	46.2	63.9	103	12	.....	Oct. 29
*Macon	.....	40.8	56.3	63.8	78.3	82.0	81.8	80.8	.....	61.6	56.4	45.3	.....	105	16	.....	.....
Magnolia	47.9	45.6	59.8	65.3	76.1	81.3	81.8	83.0	75.4	65.6	62.0	49.4	66.1	101	21	Mar. 6	Nov. 27
*Meridian	44.4	42.1	56.5	63.3	75.0	80.6	81.8	82.2	73.0	63.6	58.0	46.8	63.9	102	16	Mar. 6	Nov. 28
*Natchez	46.8	45.6	61.8	68.6	78.0	81.8	82.6	85.6	75.8	67.4	65.0	50.8	67.5	101	23	Mar. 6	Dec. 5
Nittayuma	42.8	40.7	56.6	64.6	76.8	81.5	83.9	82.8	71.6	63.1	59.1	44.6	63.9	104	18	.....	Oct. 29
*Okalona	38.9	36.4	54.2	62.4	79.2	82.0	85.2	82.8	73.2	63.1	57.0	42.8	63.1	106	13	.....	Oct. 29
Palo Alto	43.6	39.4	55.2	62.8	76.8	82.2	83.3	82.0	72.8	64.0	58.6	45.0	63.8	103	15	.....	Oct. 29
Pearlington	49.1	49.8	63.0	66.8	76.9	82.4	82.2	83.6	77.5	67.4	61.0	50.1	67.5	101	24	Mar. 6	.....
Pittsboro	41.5	38.4	54.4	62.0	75.7	80.3	82.6	81.8	71.6	63.0	58.6	43.8	62.8	107	13	.....	Oct. 29
Pontotoc	40.7	36.4	53.7	61.3	75.3	79.4	81.4	80.9	70.6	63.2	57.9	43.2	62.0	100	13	.....	Oct. 29
Poplarville	52.4	.....	.....	.....	.....	.....	.....	[d]84.9	77.4	67.6	63.5	51.8	.....	100	22	.....	Nov. 27
*Port Gibson	45.0	45.8	60.2	66.7	77.0	82.1	82.9	84.6	74.5	64.2	62.4	48.3	66.1	102	22	.....	Oct. 29
Ripley	41.6	[c]36.4	53.6	61.2	75.8	78.2	80.6	79.1	69.8	61.3	56.2	41.1	61.2	102	11	.....	Oct. 29
Stonington (*a*)	45.3	44.4	58.9	67.0	76.2	82.4	80.2	.....	73.7	65.3	.....	.....	98	.....	.....	.....	.....
Suffolk	47.2	44.8	59.4	65.8	75.6	80.8	81.4	83.2	74.7	65.6	62.4	49.1	65.8	101	20	Mar. 18	Nov. 27
Swartwout	50.2	50.2	61.7	64.4	76.6	81.3	82.0	83.5	78.3	67.3	63.5	54.1	67.8	102	23	.....	.....
Thornton	45.9	43.6	57.9	65.8	78.0	83.2	84.1	84.4	73.5	65.3	64.3	45.4	66.0	102	26	.....	Oct. 29
Tupelo	.....	.....	.....	65.6	75.8	81.6	83.6	83.0	.....	64.2	57.9	42.6	.....	102	12	.....	.....
University	41.6	36.8	54.4	61.3	74.6	79.6	81.2	81.3	71.9	64.6	58.8	43.8	62.5	103	13	Mar. 18	Oct. 26
*Vicksburg	46.2	44.2	58.7	66.6	76.0	81.6	81.4	83.8	73.6	66.4	62.2	48.6	65.7	99	22	Mar. 6	Dec. 6
Walnut Grove	.....	.....	.....	[a]64.8	[f]73.6	81.2	82.4	82.4	73.0	63.4	59.4	46.4	.....	100	17	.....	Oct. 29
Water Valley	42.4	38.1	56.7	64.8	76.4	83.0	.....	83.5	72.4	65.9	59.9	.....	.....	104	15	.....	Nov. 28
*Waynesboro	.....	47.6	59.8	65.6	76.8	81.6	83.0	83.8	75.9	65.8	58.4	49.4	.....	100	19	Mar. 6	Nov. 28
Woodville	48.3	46.0	60.4	67.4	77.6	83.0	83.0	84.2	75.8	66.1	62.6	49.5	67.0	101	22	Mar. 18	Nov. 27
*Yazoo City	42.4	41.4	56.8	65.5	76.9	82.3	81.3	83.6	72.8	64.0	60.4	45.5	64.4	105	20	Mar. 18	Oct. 29
Missouri.																	
Appleton City	30.1	23.6	48.2	55.9	70.1	71.5	77.2	77.0	68.4	60.6	50.3	31.0	54.9	97	−14	Apr. 16	Oct. 14
Arthur	30.6	23.2	46.7	55.0	70.4	71.5	77.0	[c]76.1	64.1	60.4	52.2	33.2	55.0	96	−15	.....	Oct. 28
Avalon	29.0	22.4	44.8	53.5	68.0	69.1	77.2	75.7	64.2	60.5	49.6	27.6	53.5	99	−13	.....	.....
Bethany	25.4	19.0	42.3	51.2	66.4	67.4	74.2	72.0	60.8	56.4	44.7	25.2	50.4	94	−32	Apr. 13	Sept. 13
Birchtree	33.0	27.4	48.0	55.6	[c]70.4	73.2	77.2	77.1	64.5	61.6	[a]54.4	[c]34.6	56.4	99	− 3	.....	.....
*Brunswick	27.6	21.4	42.8	52.4	68.5	69.4	76.6	73.6	61.8	58.9	48.2	28.4	52.5	96	−11	.....	Oct. 16

[1] Robert Somerville.

[2] Cotton region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Missouri—Continued.																	
Carrollton												29.0					
Caruthersville							80.2	79.4	68.6	63.1	55.2	40.0					Nov. 27
*Columbia	29.2	22.1	44.4	53.1	68.8	69.8	76.6	73.6	62.4	59.5	50.6	30.0	53.3	94	−11	Apr. 8	Oct. 14
Conception	26.4	19.3	42.8	50.8	65.4	65.4	73.6	72.2	61.0	56.2	45.4	23.6	50.2	92	−15		
Cowgill		21.6	45.1	55.2	69.6	69.1	78.0	75.2									
Darksville	27.2	21.6	43.2	51.8	68.2	69.3	75.8	73 4	63.5	59.7	49.6	27.6	52.6	95	−14		
Dean	33.7	30.4	48.4	57.4	71.2	73.3	77.1	78.8	64.5	61.0	52.9	35.7	57.0	99	0		
Desoto	31.8	26.6	48.3	54.8	68.9	72.6	78.0	74.9		61.5	53.5	33.8		99	− 6	Apr. 15	Oct. 14
Edgehill (*e*)	29.0	26.6	43.7	53.6	71.8	73.7	78.2	75.1	61.4	55.6	51.8	35.2	54.6	94	− 4		Oct. 14
Edwards				54.4	70.2	71.0	76.6	75.6	63.2	60.3	53.2	33.4				Apr. 8	Oct. 14
Eightmile (*c*)	27.7	20.9	40.4	50.8	66.0	67.0	72.6	71.6	58.2	54.1	45.2	28.8	50.3		−10		Oct. 14
Eldon	31.0	22.6	46.4	53.8	69.4	70.2	75.6	74.2	62.3	57.7							Sept. 13
Fayette	28.8	22.0	43.8	53.1	68.2	71.6	78.2	75.5	64.8	61.1	51.6	30.8	54.1	97	−11		Oct. 14
Fulton	29.7	23.1	45.4	53.8	69.2	71.0	76.8	74.2	63.0	59.4	51.4	31.0	54.0	96	−17	Apr. 16	
Gallatin (*a*)	27.4	24.1	44.2	52.0	66.4	66.2	75.3	73.0	62.0	59.6	45.9	27.9	52.0	96	−12		Oct. 14
Gayoso	36.0	31.6	50.8	59.8													
Glasgow	28.4	21.6	43.8	53.1	68.6	69.8	77.1	74.6	62.9	59.6	49.4	29.0	53.2	95	−11		Oct. 14
Grant City									61.3	57.6	44.3	23.8					Oct. 14
Halfway	32.1	25.8	47.4	54.2	69.9	71.4	76.4	76.5	68.9	59.6	52.2	35.8	55.4	97	− 5	Apr. 17	Oct. 14
*Hannibal	28.2	21.6	43.8	52.0	68.2	69.4	77.0	73.0	62.6	58.7	49.5	28.7	52.7	94	− 8	Apr. 8	Sept. 13
*Harrisonville	26.8	19.6	43.8	52.6	69.3	70.4	77.2	76.0	62.2	58.3	48.4	25.3	52.7	100	−12		Oct. 14
Houston	33.4	25.7	46.8	55.9	70.8	73.1	78.0	77.0	63.6	59.6	52.3	35.0	55.9	102	− 1		Oct. 14
Huntsville								73.0	62.8	59.6	51.4	29.0					Sept. 13
*Ironton	32.5	26.4	46.8	54.4	71.4	72.4	76.6	75.8	63.4	59.1	52.0	33.6	55.4	101	− 6		Sept. 13
Jackson	33.6	27.5	49.7	55.6	72.1	74.6	78.8	77.4	64.8	60.6	52.9	36.4	57.0	101	1		Sept. 13
*Jefferson City	29.6	23.1	45.4	54.4	70.2	71.8	78.4	75.8	63.4	59.4	48.0	30.6	54.2	102	−14		
Joplin	35.8	29.8	49.4	57.8	71.4	73.5	78.0	80.3	66.3	62.9	53.4	36.4	57.9	97	− 1		Oct. 28
*Kansas City	30.8	23.4	44.8	54.0	69.4	70.4	77.6	76.2	63.8	61.0	49.0	29.0	54.1	96	− 7	Apr. 7	Nov. 25
*Kidder	26.3	21.2	42.2	51.5	67.0	68.0	75.6	73.7	61.8	58.6	46.3	25.5	51.5	96	−16		Sept. 13
Koshkonong	35.2	28.8	49.1	57.2	71.4	73.4	77.4	77.2	65.0	60.7	53.4	36.2	57.1	98	4		Nov. 27
*Lamar	33.2	28.4	48.6	56.3	71.7	72.8	78.1	78.7	65.1	61.8	52.8	34.3	56.8	100	− 3	Apr. 8	Oct. 28
Lebanon	32.4	25.4	46.7	54.4	70.4	72.3	77.2	76.2	63.8	60.6	51.8	32.9	55.3	97	− 4		Oct. 14
*Lexington	30.4	24.4	45.1	54.4	69.0	70.4	77.4	75.4	63.6	60.6	49.6	29.2	54.1	96	− 9		
Liberty	28.5	22.0	43.7	52.6	68.6	69.5	76.4	75.2	62.6	59.4	47.0	28.0	52.8	97	−11		
Louisiana	28.6	22.4	45.0	52.8	67.9	70.0	76.8	72.4	62.1	58.8	49.7	29.6	53.0	96	−15	Apr. 15	Sept. 13
McCune (*a*)	27.2	21.4															
Macon	28.2	21.7	43.2	52.8	68.8	69.8	77.0	74.2	62.8	58.8	49.0	27.8	52.8	96	−13		
Marblehill	32.8	27.6	47.2	55.2	72.0	73.6	78.2	77.8	64.0	60.7	53.0	35.8	56.5	103	1	Apr. 15	Sept. 14
Marshall	29.0	22.5	44.6	53.3	68.2	69.8	75.6	73.9	61.8	59.0	49.1	29.2	53.0	94	−11		Sept. 13
*Maryville	24.8	18.6	40.0	50.0	65.0	66.8	74.2	71.8	60.2	55.4	41.6	21.8	49.2	95	−12		Sept. 13
*Mexico	29.6	22.2	45.1	53.0	68.8	69.8	77.2	73.4	62.6	59.0	50.8	29.2	53.4	96	−11		Sept. 13
Miami (*e*)	28.2	22.1	43.7	54.0	71.2	71.7	79.2	75.6	64.0	60.2	48.2	28.3	53.9	97	− 8		
Mineral Spring	33.6	29.2	46.8	56.8	70.2	73.0		79.4				33.8					
Monroe City	27.4	20.8	42.8	51.8	68.0	69.4	76.1	71.2	61.1	58.0	49.0	27.0	51.9	95	−12		Sept. 13
Montreal	31.2	23.6	45.5	53.2	69.2	70.6	75.8	74.4	63.0	59.6	51.6	32.4	54.2	96	−17	Apr. 15	Sept. 13
Mountain Grove	32.6	26.2	45.8	54.5	69.0	72.0	76.0	74.2	63.0	59.2	50.8	33.7	54.8	97	− 2	Apr. 8	Oct. 14
Mount Vernon	35.0	29.5	47.2	56.0	71.9	73.3	77.8	79.0	65.6	62.5	53.9	35.4	57.4	100	− 2		Sept. 13
Neosho	33.8	29.6	48.2	56.7	70.8	73.4	76.8	78.4	64.9	60.4	53.4	35.8	56.8	95	− 4	Apr. 8	Nov. 18
New Haven	31.4	25.8	46.7	56.0	70.9	73.0	78.6	76.1	65.0	61.7	53.4	33.1	55.9	99	− 7		Oct. 14
New Palestine	31.0	23.8	46.4	54.2	69.0	70.4	76.7	73.8	63.4	60.4	52.0	31.6	54.4	96	−15		Oct. 14
Oakfield	31.4	25.2	46.0	54.6	70.0	72.2	78.2	75.0	64.0	60.5	52.0	32.4	55.1	98	− 5	Apr. 8	Nov. 26
Olden	33.9	26.9	48.0	56.1	70.8	73.8	77.1	76.9	63.8	60.9	52.4			99	2		Nov. 26
Oregon	28.0	22.0	43.8	53.0	67.6	67.6	75.4	74.4	62.2	58.9	45.0	25.4	51.9	96	−15		Oct. 14
Palmyra (*e*)	29.3	22.6	44.0	53.1	68.9	70.6	78.4	73.0	62.2	58.1	49.0	27.8	53.1	94	− 8	Apr. 8	Oct. 14
Phillipsburg (*a*)	32.2	26.6															
Poplarbluff		29.5	50.4	58.6	74.1	75.4	79.4	78.0	64.2		54.6	37.6					Oct. 14
Potosi	30.2	24.1	45.4	52.5	68.5	70.4	75.0	73.4	61.8	57.6							Sept. 14
Princeton	25.9	20.8	42.1	51.8	68.2	69.0	77.8	73.6	61.2	57.0	46.8	24.9	51.6	100	−16		Sept. 13
Richmond	29.0	22.7	43.6	52.6	67.9	70.6	77.6	73.3								Apr. 8	
St. Charles	31.0	23.8	45.4	54.8	70.0	72.9	78.2	75.4	64.2	60.8	52.9	32.4	55.2	100	− 8	Apr. 8	Nov. 23
*St. Louis	32.4	26.4	46.8	55.4	71.8	74.2	80.3	76.4	66.4	62.2	53.3	34.0	56.6	98	− 1	Apr. 8	Nov. 28
Sarcoxie (*c*)	28.7	24.4	42.0	52.2	66.8	69.6											Nov. 26
Sedalia	30.2	23.6	45.2	53.9	69.6	71.6	77.6	75.4	63.0	60.0	50.6	31.0	54.3	95	− 8		Oct. 14
Seymour	32.2	25.5	45.5	54.1	68.7	70.0	74.4	75.0	62.0	58.8	50.6	32.6	54.1	95	−11	Apr. 8	Sept. 13
Sikeston	35.5	27.9	49.4	56.4	72.1	74.1	78.9	77.6	66.2	61.0	53.2	37.3	57.5	101	0	Apr. 15	Oct. 29
*Springfield	32.4	25.8	45.8	54.4	69.6	71.6	76.0	75.6	63.4	60.2	51.1	32.9	54.9	93	− 3	Apr. 8	Nov. 27
Steffenville	27.8	20.8	43.8	52.0	68.6	69.4	77.1	73.2	62.4	58.6	48.8	27.6	52.5	98	−16		Sept. 13
Sublett	25.6	19.8	41.5	50.8	68.0	68.8	75.4	71.4	61.2								Sept. 13
Trenton	27.0	21.2	42.8	51.6	67.6	69.0	76.2	73.4	61.8	57.5	46.6	26.0	51.7	92	−14		Sept. 13
*Unionville	26.6	21.8	42.0	51.0	68.1	68.3	76.1	71.8	60.6	56.4	44.2	23.9	50.9	98	−16		Oct. 14
Vichy		24.0	45.4	53.5	69.6	70.9	76.4	75.8	63.0	59.4	51.6	31.8					
Warrensburg	30.2	23.2	45.0	54.4	69.8	70.2	77.8	74.9	62.6	60.6	49.8	30.6	54.1	96	− 8		Oct. 14
*Warrenton	28.8	21.2	43.1	52.4	69.6	71.5	78.2	74.6	63.0	57.0	49.6	29.0	53.2	98	− 8	Apr. 8	Oct. 14
Willowsprings	33.4	27.6	47.8	56.2	69.9	72.2	76.1	76.4	62.8	59.0	51.5	33.8	55.6	100	− 5		Sept. 13
Windsor	29.6	22.6			70.3	71.4	77.2	75.2			51.0						
Zeitonia	31.8			55.5	72.0	73.0	77.1	77.2	64.4	59.6	52.4	35.0		101		Apr. 8	Sept. 13
Montana.																	
Adel	21.0	28.6	28.5	37.6	48.3	47.4		57.0	49.9	42.8				87		June 21	Aug. 2
Anaconda	21.0	29.6	29.8	37.3	49.8	53.8	59.4	60.4	52.0	47.2	30.5	25.6	41.4	89	−28	July 8	Sept. 3
Augusta	23.9	26.6	29.2	39.8	50.8	53.2	59.9	61.1	49.9	45.8	28.9	24.2	41.1	87	−32	June 20	Sept. 8
Avon			28.8														
Bigtimber	23.2	30.4															
Billings	24.6			42.1	60.0	61.6	70.0	69.4				24.0		100	−18	May 3	
Boulder	19.6	26.2	29.4	39.6	50.8	54.5	58.9	59.6	51.4	44.2	30.2	21.6	40.5	90	−28	June 21	Sept. 3
Bozeman	20.1	28.8	29.8	40.1	51.6	55.1	60.8	61.4	52.0	46.2	31.2	23.6	41.7	87	−28	June 20	Sept. 6
Butte	21.6	30.1	30.5	40.0	51.0	54.6	59.8	60.9	51.6	46.4	32.6	26.6	42.1	85	−25	June 25	Sept. 17
Canyon Ferry		27.8	34.2	43.7	54.8	60.0	64.6	66.3	55.6	47.6	30.6	19.3		95		May 20	Sept. 12

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Montana—Continued.																	
Chester	16.6	14.0	29.8	36.4	53.7	57.4										June 20	
Columbia Falls	21.9	28.6	33.5	40.4	50.7	53.6	59.3	60.8	50.2	44.5	31.6	24.3	41.6	91	−21	June 12	Aug. 29
Crow Agency	23.7	27.8	34.7	44.8	59.2	62.8	69.0	67.2	56.2	48.2	38.6	21.3	45.7	97	−21	June 21	Sept. 11
Culbertson	15.1	10.8	27.6	38.1	55.0	57.4	67.0	66.2	52.9	43.4	27.2	6.4	38.8	95	−32	June 7	Sept. 3
Deerlodge	.....	28.4	30.8	38.6	51.7	54.2	58.0	59.4	50.0	43.0	29.6	24.2	.....	86	−33	July 3	Sept. 3
Dell	.....	.....	.....	38.2	49.2	[c]56.6	[4]60.4	.....	.....	.....	.....	.....	.....	.....	.....	July 7	.....
Dillon	20.6	31.6	31.0	40.1	52.1	56.2	60.6	58.6	51.1	45.4	30.7	25.8	42.0	88	−33	June 17	Aug. 10
Ekalaka	.....	.....	.....	[d]42.6	56.0	59.4	[c]67.4	66.9	56.0	47.3	31.8	18.0	.....	99	.....	June 21	Sept. 3
Fort Benton	22.4	21.4	32.5	41.2	54.0	57.0	64.4	66.6	54.4	46.4	28.6	16.4	42.1	94	−26	May 6	Sept. 18
Fort Logan	18.4	23.2	28.4	36.3	47.4	51.4	56.3	58.6	48.6	44.6	26.9	17.2	38.1	90	−28	June 27	Aug. 10
Glasgow	15.6	13.5	30.2	42.2	.....	57.8	67.9	70.2	55.4	45.2	27.7	2.6	.....	99	−30	June 20	Sept. 3
Glendive	18.5	17.3	30.1	43.4	58.1	59.2	69.6	68.7	55.4	47.0	30.0	8.8	42.2	102	−25	May 2	Sept. 11
Great falls	27.6	27.5	35.0	43.7	56.2	57.4	65.4	67.0	56.7	48.8	32.6	23.6	45.1	92	−23	May 5	Sept. 11
Hamilton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36.2	29.6	.....	.....	.....	.....	.....
[a]Havre	22.2	17.2	32.6	44.0	56.2	57.2	66.0	66.0	55.5	47.6	26.6	9.6	41.7	98	−26	May 5	Sept. 3
[a]Helena	22.6	29.5	32.7	42.0	52.7	57.0	63.2	64.9	55.3	49.4	31.0	22.1	43.5	92	−24	May 5	Sept. 17
[a]Kalispell	22.0	27.2	34.5	41.2	51.6	54.4	59.8	61.5	50.8	46.2	32.4	24.8	42.2	89	−18	May 5	Oct. 17
Kipp	21.8	20.9	26.0	37.4	48.8	50.2	57.0	57.8	.....	43.5	23.6	15.8	.....	86	−30	June 20	Aug. 29
Lewistown	.....	.....	.....	45.8	52.4	55.4	61.0	61.0	50.8	48.4	29.0	21.6	.....	90	−28	June 16	Aug. 9
Livingston	27.2	33.1	33.0	44.3	56.0	58.8	65.0	66.4	57.6	.....	.....	22.0	.....	99	−21	June 20	Sept. 18
Manhattan	20.4	30.8	34.4	43.9	54.2	[d]60.4	62.5	[c]62.6	[d]52.8	44.7	30.0	[c]19.6	43.0	92	−35	June 20	Aug. 10
Marysville	18.8	27.8	27.2	37.5	50.7	57.4	[c]60.0	[c]62.9	50.6	[c]47.7	28.9	[c]21.2	40.9	90	−33	June 20	Sept. 10
[a]Miles City	22.6	22.8	33.4	45.9	60.0	62.6	71.4	71.4	58.5	50.0	33.6	16.0	45.7	98	−22	Apr. 26	Sept. 12
Missoula	20.8	28.2	[b]37.6	44.9	54.4	57.8	65.4	66.2	56.1	48.8	34.6	26.2	45.1	97	−16	June 20	Sept. 17
Ovando	8.8	20.8	25.8	[b]35.4	49.0	.....	54.0	[c]67.1	48.0	.....	29.6	.....	.....	.....	.....	July 30	Aug. 2
Parrot	22.2	31.2	32.6	42.0	53.0	58.3	[c]65.0	.....	54.1	47.8	.....	[f]26.4	.....	.....	.....	May 20	Sept. 11
Platus	23.6	31.2	35.9	42.9	52.8	54.7	60.2	63.2	54.7	48.2	34.4	26.6	44.0	92	−15	June 5	Sept. 17
Poplar	16.0	13.1	28.4	41.5	58.5	58.4	70.2	69.0	55.4	45.5	28.7	4.6	40.8	99	−29	May 9	Sept. 8
Ridgelawn	18.2	13.8	28.3	42.4	57.8	58.6	67.2	67.6	56.3	.....	.....	7.2	.....	96	−31	May 6	Sept. 12
St. Pauls	22.7	23.0	30.8	39.3	53.4	54.0	63.8	64.2	54.2	49.0	29.6	21.0	42.1	91	−31	June 20	Sept. 11
St. Peter	21.4	28.4	29.2	39.0	48.8	50.2	57.0	59.4	50.9	45.8	29.5	25.0	40.4	88	−37	July 8	Aug. 10
Springbrook	18.0	18.2	28.5	40.6	55.4	58.3	63.1	66.1	56.1	47.3	28.6	12.8	41.1	101	−25	July 16	Sept. 2
Toston	20.0	31.0	33.1	42.3	53.0	56.8	61.3	62.4	52.4	46.0	29.0	20.4	42.3	92	−25	June 20	Sept. 11
Townsend	19.0	29.4	33.0	40.9	52.8	56.7	62.1	62.6	51.2	45.6	30.8	20.9	42.1	94	−32	June 21	Sept. 11
Troy	25.5	32.5	36.5	44.6	53.1	55.1	60.0	61.0	52.9	47.0	33.2	26.6	44.0	92	−14	June 20	Aug. 29
Twin Bridges	16.6	[c]29.8	[c]30.2	[c]40.4	52.8	57.2	[c]60.5	[c]60.2	[f]48.8	[c]43.0	29.6	[d]23.2	41.0	90	−26	May 19	Aug. 17
Twodot	23.1	26.1	28.4	36.4	52.4	55.4	59.2	61.2	49.0	44.6	26.6	17.2	40.0	94	−38	June 21	Aug. 10
Utica	25.1	28.1	30.4	41.8	55.2	55.7	62.5	.....	.....	47.9	[c]28.8	24.9	.....	.....	−26	June 19	Sept. 10
Wibaux	.....	12.2	26.8	39.2	55.0	58.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	June 21	.....
Winston	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26.8	22.7	.....	.....	.....	.....	.....
Yale	22.1	25.4	27.5	37.4	52.2	53.7	61.0	64.6	49.3	45.5	27.9	21.9	40.7	91	−24	June 17	Sept. 4
Nebraska.																	
Agate	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[f]21.2	.....	.....	.....	.....	.....
Agee (*a*)	20.4	18.4	33.4	45.2	61.3	65.5	72.0	68.6	56.9	50.8	34.4	16.2	45.3	96	−22	June 21	Sept. 11
Albion	24.8	23.2	39.2	50.0	62.6	65.4	[d]72.2	69.4	59.8	54.5	.....	[f]18.2	.....	94	−24	Apr. 23	Sept. 12
Alliance	24.2	24.6	40.2	49.2	[c]62.6	67.2	69.9	72.2	.....	.....	.....	[f]17.7	.....	101	−22	Apr. 25	Sept. 12
Alma	26.2	24.8	43.8	51.6	66.8	69.8	75.5	76.4	62.2	55.5	42.2	20.8	51.3	106	−22	May 20	.....
Ames	.....	.....	42.4	50.2	66.4	67.4	75.4	72.0	62.0	55.9	41.0	21.0	.....	.....	.....	Apr. 26	Sept. 12
Ansley	24.8	24.5	35.3	49.4	65.6	66.1	74.4	71.9	57.6	50.3	36.1	19.0	47.9	100	−22	Apr. 26	Sept. 12
Arapahoe	.....	.....	41.8	.....	.....	72.0	.....	76.8	.....	.....	.....	.....	.....	.....	.....	Apr. 22	.....
Arborville (*a*)	24.4	22.2	39.1	47.0	64.5	64.6	73.2	69.8	56.6	51.8	.....	.....	.....	96	−16	Apr. 23	.....
[a]Ashland[1]	26.0	21.8	43.2	52.0	66.9	68.2	75.3	72.8	62.8	57.4	42.2	22.0	50.9	98	−16	Apr. 23	Sept. 12
Auburn	27.4	21.8	44.5	52.2	67.0	68.2	75.2	74.3	62.6	57.8	44.6	23.8	51.6	100	−19	Apr. 17	Sept. 13
Aurora	26.8	22.0	40.4	49.6	64.1	66.2	73.8	71.8	60.8	54.7	42.0	20.6	49.4	97	−15	Apr. 26	Sept. 18
Beatrice	25.6	21.0	43.6	50.2	66.4	68.3	75.0	75.0	62.0	57.0	42.9	23.2	50.8	100	−23	Apr. 23	Sept. 12
Beaver	28.2	26.4	42.2	52.6	64.9	68.2	74.5	75.6	63.8	56.0	41.2	[f]23.0	51.3	104	−18	Apr. 26	Sept. 12
Blair	23.4	18.4	39.2	48.1	62.8	65.4	72.2	68.8	59.5	53.0	39.6	18.4	47.4	94	−15	Apr. 24	.....
Bluehill (*a*)	24.0	.....	39.9	51.4	66.8	69.0	74.5	75.1	61.9	57.2	42.7	23.2	.....	101	−15	Apr. 23	Sept. 12
Bridgeport	26.6	30.6	38.6	48.5	60.5	67.7	72.4	74.3	58.0	50.6	38.0	22.8	49.0	111	−24	May 6	Sept. 9
Brokenbow	24.9	24.4	38.2	48.6	63.1	65.2	71.8	70.4	59.0	51.8	37.7	20.4	48.0	101	−25	Apr. 26	Sept. 9
Callaway	25.6	23.8	38.5	49.9	62.0	66.5	69.8	71.0	58.4	52.1	37.8	18.2	47.8	100	−23	Apr. 26	Sept. 10
Cedar Rapids	.....	.....	.....	.....	.....	.....	.....	.....	.....	[c]51.1	35.0	[c]21.0	.....	.....	.....	.....	Sept. 12
[a]Columbus	25.8	22.4	39.6	50.7	64.3	66.2	73.4	70.3	59.1	53.8	39.4	19.4	48.7	95	−16	Apr. 23	Sept. 14
Crete	25.9	22.0	43.8	52.2	65.6	65.8	.....	73.0	62.1	56.8	41.8	22.2	.....	.....	−16	Apr. 23	Sept. 12
Curtis	[c]28.6	[c]27.6	[f]41.1	.....	[c]63.6	[c]67.3	[c]73.0	[b]74.0	[b]61.6	[b]53.3	.....	[c]20.0	.....	102	−23	Apr. 26	Sept. 12
David City	23.6	21.1	.....	.....	.....	.....	.....	71.8	61.8	.....	.....	.....	.....	.....	.....	.....	Sept. 12
Dawson	29.0	22.5	45.2	52.6	67.4	68.8	75.2	75.3	63.1	57.8	45.8	26.0	52.4	98	−16	Apr. 23	Sept. 12
Edgar (*e*)	27.0	24.0	.....	.....	.....	.....	.....	75.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
[a]Fairbury	[f]25.6	23.4	[c]44.8	52.1	65.4	67.2	74.4	73.7	60.0	56.0	41.3	21.5	50.4	103	−23	Apr. 22	Sept. 11
[a]Fairmont	24.6	20.0	40.8	49.2	64.0	65.6	73.0	71.6	59.9	54.2	39.6	20.5	48.6	100	−16	Apr. 24	Sept. 12
Fort Robinson	23.6	27.2	35.8	44.0	58.2	65.6	68.5	71.4	58.5	50.6	33.5	[c]22.7	46.6	103	−22	June 21	Sept. 11
Franklin	.....	.....	.....	51.8	65.4	68.1	[c]74.4	.....	58.8	54.8	41.3	19.8	.....	.....	.....	Apr. 23	Sept. 12
Fremont	24.8	21.0	41.3	50.2	65.0	67.0	73.0	70.4	59.6	54.5	38.9	17.6	48.6	96	−25	Apr. 23	Sept. 11
Geneva	23.7	20.8	40.8	52.0	65.8	67.0	73.8	72.2	59.0	53.8	40.1	21.7	49.2	100	−16	Apr. 23	Sept. 11
Genoa (near)	24.6	22.2	40.0	49.8	64.2	65.9	72.6	70.6	59.2	54.0	38.5	18.3	48.3	92	−17	Apr. 23	Sept. 12
Gering	26.2	28.4	37.4	47.5	59.4	67.9	69.4	71.4	59.8	.....	39.0	25.0	.....	101	−29	May 1	Sept. 12
Gothenburg	24.8	24.8	.....	[c]50.6	62.4	65.6	71.6	72.9	59.1	49.8	37.6	21.2	.....	101	−22	Apr. 26	Sept. 12
Grand Island[2]	25.6	22.2	41.6	51.2	64.8	66.8	73.4	73.0	60.6	55.6	40.6	21.4	49.7	99	−19	Apr. 23	Sept. 12
Grand Island[3]	25.8	22.9	40.1	50.5	64.0	67.1	73.6	73.3	61.0	54.2	.....	.....	.....	.....	.....	.....	.....
[a]Hartington	21.4	17.6	35.8	46.0	62.7	64.2	71.8	68.5	58.0	53.5	37.3	18.6	46.3	92	−18	Apr. 27	Sept. 4
Harvard	25.0	21.7	40.9	50.2	64.1	66.4	72.5	72.0	60.1	54.0	39.6	20.6	48.9	98	−15	Apr. 23	Sept. 12
Hastings (*a*)	26.8	23.5	40.9	51.2	64.8	66.9	73.2	72.2	60.4	54.2	39.8	21.0	49.6	98	−11	.....	Sept. 12
Hay Springs	23.2	23.8	32.0	42.4	57.5	[d]62.1	[c]68.1	70.9	57.8	50.6	35.0	21.0	45.4	100	−25	June 21	Sept. 12
Hebron	26.1	22.4	44.1	53.4	66.2	67.3	73.7	73.8	60.8	56.4	42.8	23.4	50.9	101	−21	Apr. 23	Sept. 18
Holdrege	27.8	24.8	40.6	52.4	64.0	67.4	72.8	74.0	60.2	56.2	39.9	23.4	50.3	99	−12	Apr. 27	Sept. 11
Hooper (*a*)	23.9	21.0	39.3	50.3	65.5	66.2	73.8	70.6	59.2	53.6	38.6	19.5	48.5	97	−14	Apr. 23	Sept. 12

[1] Corn and wheat region observer. [2] E. Corbin. [3] American Beet Sugar Company.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Nebraska—Continued.																	
Imperial	26.4	29.6	[1]42.0	50.4	62.2	68.1	71.5	73.7	60.2	54.0	39.4	20.6	49.8	104	−19	Apr. 26	Sept. 12
Kearney	.....	21.9	*41.3	52.2	65.6	[m]68.9	75.0	76.4	.....	56.8	41.4	28.7	.....	104	−14	Apr. 23	.....
Kennedy	[b]21.4	.....	38.0	.....	61.6	64.6	71.2	69.1	58.7	51.8	39.7	22.8	.....	107	−27	June 21	Sept. 12
Kimball	24.8	30.6	35.2	46.0	58.4	65.4	68.2	69.7	56.1	50.1	35.0	26.0	47.1	100	−25	June 20	Sept. 11
Kirkwood (*a*)	20.4	18.8	33.3	45.0	60.5	*64.9	[d]72.6	*68.4	56.9	[d]48.7	*33.1	18.4	45.1	98	−20	Apr. 22	Sept. 12
Laclede	25.4	22.2	41.1	50.4	63.8	65.4	72.1	71.2	60.2	55.7	39.2	19.8	48.9	98	−18	Apr. 23	Sept. 12
Lexington	25.0	23.8	39.0	49.0	61.6	64.7	70.9	70.7	58.6	54.6	37.4	26.1	48.0	102	−21	Apr. 25	Sept. 11
*Lincoln	26.4	22.5	42.5	51.5	65.3	66.8	74.4	72.4	61.6	57.2	41.7	22.0	50.4	96	−11	Apr. 23	Sept. 12
Lodgepole	25.0	*26.6	36.6	47.4	58.9	.....	68.1	70.1	.....	.....	.....	22.8	.....	.....	−22	May 6	.....
Loup	23.6	22.4	39.8	49.1	62.6	65.4	71.8	71.2	58.8	53.5	38.2	19.8	48.0	98	−39	Apr. 25	Sept. 12
Lynch	22.4	22.4	37.0	47.8	.....	67.8	73.9	71.6	.....	55.9	37.6	15.7	.....	102	−28	June 21	Sept. 12
McCook (*a*)	27.7	29.4	41.6	51.2	61.7	67.4	75.6	75.2	61.4	53.4	41.2	25.2	50.9	102	−12	Apr. 23	Sept. 12
Madison	24.8	21.6	39.8	49.3	63.2	64.5	71.4	69.6	58.6	54.8	37.3	19.6	47.9	94	−20	Apr. 23	Sept. 12
Madrid	24.0	26.0	38.8	49.6	62.4	68.9	73.2	.....	.....	54.6	38.6	.....	.....	.....	−26	Apr. 23	.....
Minden	25.3	20.8	40.7	50.2	63.2	65.2	71.6	71.6	59.6	54.0	39.0	20.4	48.5	98	−17	Apr. 23	.....
Nebraska City	.....	.....	41.9	49.9	64.7	66.2	75.9	73.2	63.0	58.0	44.6	22.0	.....	98	.....	Apr. 23	.....
Nesbit	23.6	24.2	38.0	46.6	60.9	63.3	69.4	70.6	58.2	*52.2	.....	.....	.....	.....	.....	June 21	Sept. 12
Norfolk	22.6	20.5	38.7	49.2	64.7	65.4	73.0	70.3	59.6	54.0	36.4	17.2	47.6	98	−29	Apr. 23	Sept. 12
North Loup	24.8	22.6	39.4	49.4	63.4	64.8	71.8	71.2	59.6	54.6	38.5	20.7	48.4	97	−24	Apr. 23	Sept. 12
*North Platte	26.2	26.6	39.8	49.3	62.8	66.4	72.4	72.8	59.9	54.3	39.3	22.2	49.3	102	−19	Apr. 23	Sept. 12
*Oakdale	22.0	19.9	36.9	47.6	63.1	65.0	71.8	69.9	57.4	52.2	35.7	16.2	46.5	95	−23	Apr. 23	Sept. 12
*Omaha	26.6	21.3	41.8	52.2	66.0	67.3	74.8	72.4	62.0	57.6	41.4	21.5	50.4	96	−12	Apr. 7	Oct. 28
*O'Neill	22.9	20.0	36.0	46.4	61.0	63.9	72.1	69.0	58.6	55.0	37.8	16.8	46.6	102	−24	Apr. 25	Sept. 11
Palmyra (*a*)	23.8	21.0	41.1	52.0	65.3	66.9	73.9	71.4	59.7	55.2	40.7	21.0	49.3	94	−18	.....	Oct. 13
Plattsmouth	25.7	20.8	41.5	51.5	65.0	64.8	73.4	71.0	.....	57.2	41.0	20.4	.....	100	−17	Apr. 28	Oct. 14
Purdum	.....	.....	.....	.....	61.7	64.8	71.4	70.1	57.0	53.2	38.8	19.4	.....	102	.....	.....	Sept. 12
Ravenna	24.8	21.8	39.8	50.1	63.6	65.8	72.6	71.8	59.5	54.0	38.8	20.6	48.6	96	−20	Apr. 23	Sept. 12
Redcloud	.....	24.3	45.3	55.8	.....	.....	74.5	73.8	61.5	56.4	40.9	21.8	.....	.....	.....	Apr. 25	Sept. 11
Republican (*a*)	27.0	25.5	44.2	55.4	68.9	70.4	.....	78.1	63.8	57.4	39.8	22.6	.....	.....	.....	.....	.....
St. Paul	26.5	23.2	42.1	51.2	65.1	66.6	72.6	73.6	61.2	54.6	40.6	22.2	50.0	96	−22	Apr. 23	Sept. 12
Salem (*a*)	26.0	21.6	43.1	52.3	70.4	69.8	.....	74.8	62.8	60.1	43.8	25.6	.....	.....	−26	Apr. 8	.....
Santee	23.6	20.6	39.0	49.4	64.5	66.2	74.0	71.0	61.5	54.2	37.9	17.5	48.3	96	−19	Apr. 23	Sept. 12
Seneca (*a*)	22.2	23.8	35.8	44.4	63.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 25	.....
Seward	24.2	21.4	40.3	51.6	64.4	67.0	74.2	71.4	61.0	55.2	40.4	20.0	49.3	98	−18	Apr. 23	Sept. 11
Springview	.....	.....	.....	44.2	60.7	63.2	72.2	68.3	59.0	50.8	.....	.....	.....	.....	.....	June 21	Sept. 12
Stanton	23.6	20.8	40.0	48.4	64.6	65.0	72.5	69.4	59.6	55.0	38.6	18.2	48.0	93	−24	Apr. 23	Sept. 12
State Farm	26.0	22.6	43.4	52.1	66.5	68.0	75.0	73.2	62.0	57.0	42.2	22.0	50.8	98	−18	Apr. 23	Sept. 12
Strang (*a*)	28.2	.....	44.6	54.8	67.1	68.8	75.4	74.4	61.6	55.8	41.9	24.3	.....	102	−11	Apr. 7	Sept. 12
Superior	24.1	20.3	41.2	50.0	66.4	68.0	74.4	74.6	61.0	54.2	39.1	21.2	49.5	103	−22	Apr. 23	Sept. 12
*Tecumseh	24.8	18.3	42.2	49.7	66.2	66.6	75.1	73.0	60.8	58.0	44.0	22.5	50.1	101	−23	Apr. 23	Sept. 13
*Tekamah	25.1	20.0	42.0	51.2	66.4	67.5	75.0	72.3	62.0	56.0	40.2	20.7	49.9	98	−24	Apr. 23	Sept. 12
Turlington	26.7	21.2	42.8	51.4	65.6	67.0	74.0	72.2	61.3	56.7	42.0	22.0	50.2	98	−16	Apr. 23	Sept. 13
*Valentine	23.6	22.0	35.6	45.9	60.8	63.6	72.4	69.2	57.5	50.2	37.2	18.6	46.4	106	−26	June 21	Sept. 12
Wakefield	22.4	19.0	38.2	47.0	63.3	65.0	72.1	69.7	59.4	53.0	37.6	17.8	47.0	96	−35	Apr. 23	Sept. 4
Westpoint	27.0	24.7	38.6	49.0	65.2	67.0	72.6	70.6	62.2	55.4	39.1	18.8	49.2	96	−25	Apr. 25	Sept. 12
Wilber (*a*)	23.8	22.7	.....	52.5	65.5	67.4	74.4	74.1	59.4	54.5	40.8	23.1	.....	98	−18	Apr. 23	Sept. 12
Wilsonville	.....	.....	.....	.....	68.4	72.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 11	.....
York	25.9	24.2	43.5	53.0	67.1	68.2	74.4	74.7	63.4	56.7	40.9	22.2	51.2	98	−18	Apr. 12	Sept. 12
Nevada.																	
Amos	26.2	36.8	36.3	45.6	.....	.....	63.0	66.8	55.7	45.6	.....	30.6	.....	.....	.....	.....	.....
Austin	27.2	35.1	30.4	42.2	50.4	62.9	65.6	64.8	59.4	.....	33.6	33.8	.....	89	−11	May 19	Sept. 20
Battle Mountain	.....	35.0	.....	.....	[b]59.8	68.6	70.4	72.0	63.2	53.0	39.4	*34.2	.....	107	−12	May 22	Sept. 17
Belmont	.....	.....	.....	[d]40.1	47.1	64.5	66.4	64.3	60.0	46.0	30.0	27.3	.....	94	.....	May 31	Sept. 20
Beowawe (*a*)	31.8	40.7	38.6	50.6	55.3	.....	71.3	73.3	.....	53.1	39.3	36.3	.....	103	−12	.....	.....
Butler	.....	.....	.....	.....	53.3	66.2	68.5	64.2	58.8	45.8	36.5	.....	.....	96	.....	May 31	Sept. 19
Candelaria	36.8	41.4	37.3	49.4	57.4	71.2	75.0	72.8	68.2	54.2	38.8	[d]34.5	53.2	102	− 1	May 20	Sept. 29
Carlin	21.6	36.3	36.0	43.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−22	.....	.....
*Carson City	31.2	40.0	35.1	45.2	51.0	62.1	65.6	65.8	61.0	50.0	38.9	36.8	48.6	96	− 2	May 22	Sept. 21
Carson City[1]	31.4	40.6	35.5	45.8	51.8	61.6	65.0	65.3	60.4	49.9	39.1	36.9	48.6	97	− 3	.....	.....
Elko (near)	22.6	34.9	35.9	44.1	50.2	61.0	64.8	68.8	55.4	45.6	.....	29.4	.....	100	−27	May 20	Sept. 16
Ely	25.8	33.5	29.6	45.0	52.0	64.6	66.0	65.0	57.4	45.0	32.0	26.2	45.2	95	−24	May 31	Sept. 25
Eureka	.....	.....	29.2	44.0	52.6	64.3	67.2	67.8	61.0	49.8	33.3	30.7	.....	99	.....	May 22	Sept. 20
Fenelon (*a*)	25.5	32.6	.....	43.2	54.0	68.9	.....	.....	.....	51.5	30.8	.....	.....	98	−20	.....	.....
Golconda (*a*)	31.2	40.8	38.0	53.9	60.0	66.8	.....	72.6	63.8	50.4	35.1	34.7	.....	98	− 4	.....	.....
Halleck (*a*)	24.1	33.3	32.7	42.8	53.4	60.2	65.0	66.9	57.8	41.9	34.0	28.8	45.1	98	−27	.....	.....
Hamilton	28.8	30.6	25.8	40.4	50.4	54.9	.....	.....	.....	.....	.....	.....	.....	97	−13	.....	.....
Hawthorne	.....	.....	41.8	50.4	56.6	69.4	72.6	72.2	66.4	55.5	41.9	36.8	.....	99	.....	May 18	Sept. 26
Hot Springs (*a*)	32.6	42.2	.....	52.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	− 3	.....	.....
Humboldt	30.4	39.6	37.6	46.2	57.7	68.2	69.0	68.6	61.0	49.8	38.8	33.9	50.1	96	− 4	May 2	Sept. 25
Lewers Ranch	32.8	41.4	35.4	46.3	52.2	62.3	65.8	67.2	63.5	51.4	39.4	37.2	49.6	99	−14	May 20	Sept. 26
Lovelocks[2]	30.2	36.0	38.6	45.0	[c]62.0	72.1	75.4	77.0	64.4	53.4	49.8	36.2	53.3	101	−10	May 19	Sept. 21
Martins	32.9	41.8	38.3	47.1	53.6	64.2	72.7	65.8	62.0	50.6	39.8	38.4	50.6	103	− 9	May 22	Sept. 21
Mill City (*a*)	30.2	41.2	38.2	48.4	54.2	72.6	71.6	75.0	64.4	52.8	43.9	37.3	52.5	100	− 5	.....	.....
Monitor Mill	.....	32.3	26.8	40.4	50.0	60.6	62.4	62.8	55.6	45.6	30.4	.....	.....	92	−28	May 31	Sept. 16
Morey	.....	.....	.....	.....	.....	.....	.....	70.6	64.4	50.2	34.1	29.8	.....	.....	.....	.....	.....
Owyhee	26.1	35.4	31.5	*42.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palisade	32.4	33.4	33.0	40.8	54.0	64.2	65.0	67.5	58.2	48.8	39.8	38.4	47.5	98	−15	May 22	Sept. 1
Palmetto	29.2	35.4	33.5	44.4	50.4	63.1	64.4	62.9	61.0	48.6	32.6	30.8	46.4	96	−14	May 23	Sept. 21
Potts	25.2	38.0	32.8	50.0	.....	.....	.....	.....	66.6	56.0	44.6	34.4	30.0	.....	−32	.....	.....
Reno, State University	30.1	39.6	33.6	45.8	.....	*66.4	67.2	67.2	62.6	50.7	38.8	36.4	.....	96	− 1	May 31	Sept. 29
Rioville	.....	.....	.....	.....	75.8	86.6	84.4	86.2	84.0	69.2	54.0	46.7	.....	117	.....	.....	.....
Silver Peak	*30.0	36.2	39.6	52.0	68.2	74.2	75.4	72.2	66.9	54.2	.....	.....	.....	101	0	.....	.....
Sodaville	31.6	41.6	40.5	52.2	60.0	74.7	77.6	75.4	66.8	54.4	38.3	35.6	54.0	105	0	May 19	Sept. 25
Tecoma (*a*)	25.7	35.3	44.2	53.2	58.2	65.6	67.3	.....	59.8	48.7	32.8	.....	.....	101	−10	May 19	Sept. 16
Toano (*a*)	22.6	33.3	33.0	48.2	58.6	.....	.....	79.8	.....	46.6	32.9	.....	.....	.....	−13	.....	.....
Tybo	29.4	33.2	32.7	46.8	.....	69.0	.....	.....	.....	.....	.....	.....	.....	.....	− 7	.....	.....

[1] Prof. C. W. Friend.

[2] Southern Pacific Railroad Company.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.		Killing frost.	
													Mean.	Extremes.	Last in spring.	First in autumn.
														Max. Min.		
Nevada—Continued.																
Verdi (a)	30.0	.....	36.2	53.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wabuska	.....	41.1	40.6	49.6	54.5	67.0	70.8	68.2	61.4	47.2	36.5	.....	.....	102	May 20	Sept. 20
Wadsworth	30.0	41.8	39.4	51.6	57.5	68.0	70.0	73.8	64.1	50.9	40.8	35.0	51.9	98 −11	May 19	Sept. 26
Wells (a)	23.4	33.7	33.1	46.8	54.2	64.9	66.3	68.2	58.3	.....	34.5	29.8	.....	98 −12	.....	.....
*Winnemucca	27.8	38.0	35.3	44.9	52.6	64.1	66.6	68.0	59.2	48.6	37.2	32.8	47.9	97 −15	May 3	Sept. 26
Wood	23.2	33.8	30.8	44.1	51.8	61.0	62.8	63.7	56.9	47.2	34.4	29.7	45.0	92 −17	May 31	Sept. 17
New Hampshire.																
Alstead	20.2	22.0	37.4	44.8	54.5	60.6	65.5	63.0	58.5	47.4	39.6	20.6	44.5	86 −17	May 21	Sept. 6
Berlin Mills	12.4	16.6	35.6	41.6	50.0	58.8	64.0	61.1	57.2	44.7	37.3	16.8	41.3	96 −25	June 11	Sept. 6
Bethlehem	15.5	19.8	36.1	43.0	50.9	58.2	64.0	60.8	57.9	43.5	37.6	17.9	42.1	84 −21	May 21	Oct. 5
Brookline (a)	21.9	24.9	40.4	46.5	57.0	64.0	68.5	65.3	60.0	49.0	40.3	22.9	46.7	.....	.....	.....
Chatham	16.0	21.0	37.1	42.7	51.0	59.2	63.4	61.8	57.4	44.3	37.2	17.6	42.4	87 −26	May 31	Sept. 25
Claremont	.....	.....	.....	.....	54.8	62.2	66.7	64.6	63.0	.....	.....	.....	.....	91	May 14	.....
Concord	19.4	23.2	39.3	44.8	55.0	61.4	65.8	63.8	58.8	47.7	40.1	20.9	45.0	89 −15	May 14	Sept. 6
Durham	21.8	25.2	41.6	45.5	54.8	61.0	66.4	65.0	59.2	50.2	41.8	25.0	46.5	91 −22	May 14	Oct. 9
Franklin Falls	18.7	22.3	38.0	43.5	53.9	61.0	.....	63.7	59.8	47.4	40.2	20.7	.....	.....	.....	.....
Grafton	[e]16.7	[e]18.7	39.0	43.3	51.9	58.8	64.0	63.2	57.7	44.0	38.8	18.5	42.9	89 −19	June 11	Sept. 6
Hanover	16.0	20.0	37.2	45.0	53.2	60.2	65.4	63.2	58.7	46.2	39.0	18.7	43.6	89 −21	May 18	Oct. 10
Keene	19.6	23.2	38.9	46.0	54.6	60.9	66.4	63.8	59.8	48.4	40.5	20.6	45.2	90 −22	June 6	Sept. 6
Littleton	12.7	21.8	37.6	40.6	47.8	57.6	63.9	61.0	57.4	44.2	35.6	16.2	41.4	.....	.....	.....
Nashua	21.2	24.6	41.6	47.1	57.7	65.2	68.8	67.4	62.5	51.2	40.6	22.8	47.6	95 −14	May 12	Sept. 15
Newton	21.8	25.6	40.4	44.8	54.4	60.7	65.4	64.0	59.2	49.2	41.4	23.6	45.9	90 −16	May 31	Sept. 6
Peterboro	18.2	22.5	38.0	44.8	53.7	60.6	65.4	63.4	59.2	48.2	41.3	20.8	44.7	88 −20	June 6	Sept. 6
Plymouth	17.0	20.9	37.6	44.3	53.8	61.0	66.8	63.8	60.2	46.0	38.2	19.4	44.1	92 −14	May 12	Oct. 10
Sanbornton	18.0	22.0	37.9	43.4	52.9	58.8	64.0	63.0	58.2	46.8	39.3	19.2	43.6	87 −17	May 10	Oct. 10
Stratford	13.8	17.6	36.8	42.4	51.6	58.4	64.6	61.6	58.3	44.2	[f]39.3	14.6	41.9	89 −24	June 11	Sept. 6
New Jersey.																
Asbury Park	30.2	28.3	42.6	48.2	58.6	65.2	72.4	70.8	65.6	57.9	52.2	34.9	52.2	94 5	May 29	Oct. 30
*Atlantic City	30.8	29.0	42.0	48.2	57.6	65.2	72.1	71.0	66.5	58.8	51.6	35.8	52.4	94 12	Mar. 20	Oct. 30
Barnegat	.....	.....	.....	.....	.....	.....	.....	71.4	66.2	57.9	[f]52.5	34.8	.....	95	.....	Oct. 22
Bayonne	28.3	27.3	44.0	50.7	60.6	68.5	73.9	72.0	66.0	57.2	48.9	31.4	52.4	95 8	Apr. 15	Oct. 22
Belvidere	25.8	26.4	44.2	51.0	61.0	67.5	72.6	68.9	63.7	55.0	47.6	27.6	50.9	92 0	May 29	Oct. 22
Bergen Point	28.0	27.4	43.5	50.4	59.8	67.6	72.8	70.4	64.6	56.1	49.2	31.2	51.8	92 7	May 29	Oct. 22
Beverly	29.8	28.6	45.8	51.8	62.2	69.6	75.0	71.6	66.3	56.9	50.2	32.6	53.4	95 6	Apr. 16	Oct. 22
Blairstown	24.8	24.3	41.8	49.6	59.4	65.2	71.9	68.2	62.2	52.6	46.0	26.2	49.4	93 −4	May 29	Oct. 10
Bridgeton	31.4	29.6	46.6	52.2	64.2	72.5	77.0	73.6	67.8	58.6	51.8	35.1	55.0	100 7	May 29	Oct. 22
Camden	31.0	28.8	46.6	52.6	62.7	69.7	75.6	73.0	66.9	57.7	51.1	33.5	54.1	95 11	Mar. 20	Oct. 29
*Cape May	31.2	29.2	42.5	49.1	58.8	65.0	72.2	71.8	67.2	59.8	52.0	36.8	53.0	92 14	Mar. 26	Dec. 1
Cape May court-house	31.0	29.5	44.2	50.2	60.7	68.7	74.8	72.0	67.4	59.0	52.3	36.0	53.8	98 8	Apr. 16	Oct. 22
Charlotteburg	24.8	24.6	40.8	47.0	57.6	68.5	68.8	67.0	60.8	53.5	46.1	28.0	48.5	88 −5	May 29	Oct. 10
Chester	24.6	24.0	41.2	47.5	57.5	64.5	70.4	67.0	60.8	52.8	46.5	27.2	48.6	92 0	Apr. 17	Oct. 22
Clayton	29.6	27.6	45.0	50.8	62.0	69.6	74.6	71.1	66.0	56.8	50.8	33.0	53.1	95 7	May 29	Oct. 22
College Farm	28.4	27.2	44.6	51.3	61.1	68.6	73.5	70.1	64.4	55.9	49.0	30.6	52.1	95 6	.....	.....
Dover	23.7	24.5	41.3	48.1	58.0	65.3	70.6	67.9	60.1	51.7	45.2	27.4	48.6	94 0	May 29	Oct. 10
Egg Harbor City	29.5	28.0	44.2	49.4	61.0	.....	73.7	70.4	65.3	57.0	50.6	34.3	.....	98 7	May 29	Oct. 22
Elizabeth	29.8	28.5	44.6	51.4	61.6	68.8	73.6	70.9	64.6	56.5	48.7	31.4	52.5	95 6	Apr. 15	Oct. 22
Englewood	29.4	28.8	44.0	50.6	60.4	67.6	73.4	71.4	65.6	56.0	49.6	32.9	52.5	91 −6	Mar. 19	Oct. 29
Flemington	28.4	27.4	44.2	51.0	61.2	68.4	74.0	70.6	65.0	55.7	48.6	30.0	52.0	95 4	Apr. 16	Oct. 22
Freehold	28.7	27.0	43.4	50.5	58.9	67.4	72.5	69.4	63.8	[f]56.2	48.6	30.8	51.4	92 6	Apr. 16	Oct. 29
Friesburg	.....	27.6	44.8	50.8	61.6	69.3	74.8	71.2	66.0	56.8	51.0	33.8	.....	97 5	May 29	Oct. 22
Hanover	25.3	25.8	43.4	49.2	58.5	65.8	71.3	67.9	62.2	53.2	47.0	28.5	49.8	98 0	May 29	Oct. 22
Hightstown	29.2	27.7	45.6	51.8	61.2	69.0	73.8	70.8	65.2	55.7	49.8	31.8	52.6	94 9	May 29	Oct. 22
Imlaystown	29.0	28.0	45.0	51.8	62.4	69.6	74.8	71.5	65.8	56.8	50.4	32.4	53.1	94 8	May 29	Oct. 23
Indian Mills	30.1	28.4	45.8	51.7	62.2	69.4	74.2	71.4	65.8	56.9	51.4	34.0	53.4	97 1	May 29	Oct. 22
Lakewood	29.6	28.4	45.0	50.4	60.0	67.3	72.4	69.1	64.4	56.8	50.3	33.8	52.3	93 7	Apr. 20	Oct. 22
Lambertville	28.8	27.4	44.6	51.4	61.4	68.2	73.5	70.8	65.0	56.3	49.6	30.6	52.3	92 6	Apr. 15	Oct. 22
Layton	23.0	22.8	40.2	47.8	57.9	64.2	70.2	66.3	60.7	51.6	45.2	25.8	47.8	92 −11	May 29	Oct. 10
Moorestown	29.8	28.0	45.3	51.4	61.2	68.3	73.6	70.6	65.4	56.7	50.4	32.9	53.6	92 9	Apr. 16	Oct. 22
Newark	27.2	27.1	42.8	49.7	59.6	67.6	72.6	70.4	63.6	55.2	48.4	30.3	51.2	93 6	Apr. 6	Oct. 22
New Brunswick	28.7	28.2	46.0	51.8	61.4	69.0	74.2	71.6	65.4	56.4	49.2	31.2	52.8	94 8	Mar. 27	Oct. 22
Newton	25.3	24.0	41.6	48.4	58.4	[d]64.8	72.0	68.6	62.2	52.8	46.2	25.4	49.1	92 −2	Apr. 20	Oct. 22
Oceanic	29.4	27.8	43.6	.....	59.5	67.8	72.4	70.0	64.8	56.9	50.8	33.7	.....	92 8	Mar. 27	Oct. 29
Paterson	29.8	29.9	45.2	52.4	62.2	68.8	73.4	70.2	64.7	56.8	49.9	31.8	52.9	95 8	Apr. 5	Oct. 22
Pemberton	.....	.....	.....	50.8	60.8	68.4	73.8	70.4	65.2	56.0	49.6	32.7	.....	95	May 29	Oct. 22
Perth Amboy	.....	.....	.....	.....	.....	.....	.....	[d]70.4	64.9	56.1	49.6	.....	.....	.....	.....	.....
Plainfield	27.4	27.3	43.8	50.2	59.6	67.1	73.2	69.9	63.8	54.2	47.0	30.0	51.1	94 6	May 29	Oct. 10
Ringwood	25.3	26.1	41.4	48.5	57.8	65.0	[d]70.1	66.8	61.2	53.7	47.0	28.0	49.2	94 −8	May 29	Oct. 10
Rivervale	.....	27.2	42.4	49.0	57.6	65.2	71.0	67.3	61.0	53.4	46.2	28.2	.....	97 −9	May 16	Oct. 10
Roseland	25.4	25.4	41.8	48.2	57.5	65.3	70.7	67.8	61.6	[d]54.2	.....	.....	.....	92	May 29	Oct. 15
Salem	30.8	29.2	46.2	51.5	63.2	70.4	75.9	72.8	67.2	58.0	51.6	34.0	54.2	98 9	Apr. 16	Oct. 29
Somerville	28.1	28.0	44.8	51.4	61.0	68.4	73.2	69.8	64.4	54.4	48.0	29.7	51.6	96 5	May 29	Oct. 10
South Orange	27.0	26.8	42.8	49.6	59.0	66.8	72.2	68.7	62.8	53.6	46.6	29.7	50.5	91 6	May 27	Oct. 22
Sussex	25.2	24.8	42.0	49.2	59.4	65.4	70.8	67.2	62.8	53.0	46.2	26.3	49.4	89 −4	Apr. 20	Oct. 10
Toms River	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50.2	33.2	.....	.....	.....	Oct. 22
Trenton	31.4	30.2	45.9	.....	.....	69.2	74.4	71.0	66.4	58.2	52.0	35.6	.....	90 10	.....	Oct. 22
Tuckerton	29.8	28.7	43.7	48.4	59.4	68.0	73.7	70.8	66.4	58.0	51.2	34.5	52.7	97 8	Apr. 18	Oct. 22
Vineland	30.4	28.4	45.3	51.3	62.5	70.0	74.2	70.8	65.7	57.1	50.6	34.0	53.4	99 7	Apr. 16	Oct. 22
Woodbine	30.2	28.2	44.0	49.6	60.6	67.8	73.1	70.3	65.4	57.3	50.4	34.4	52.6	95 6	May 29	Oct. 22
New Mexico.																
Alamagordo	43.8	45.7	49.2	63.0	71.9	82.4	78.8	79.7	71.0	60.6	[e]47.4	41.7	61.3	103 13	Apr. 31	Nov. 3
Albert	38.8	44.6	45.3	57.8	67.5	75.4	75.8	78.0	68.2	60.0	46.8	38.9	58.1	108 1	Apr. 1	Nov. 3
Albuquerque	37.4	41.2	43.0	56.7	64.7	75.6	75.4	74.2	66.4	56.5	44.4	34.4	55.8	100 12	Apr. 23	Nov. 3
Alma	38.8	43.2	43.8	55.0	59.8	.....	.....	.....	.....	.....	.....	40.1	.....	.....	May 19	.....
Arabela	.....	[d]45.0	45.6	59.2	66.1	78.8	.....	72.3	64.6	.....	47.0	42.5	.....	.....	Mar. 31	Nov. 3

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
New Mexico—Continued.																	
Aztec	c28.0	35.6	.....	.....	f60.1	71.4	71.8	73.4	.....	.....	.....	.....	.....	.....	.....	May 20	.....
Bluewater	25.0	30.8	34.8	50.8	59.2	70.4	70.8	67.6	59.4	48.6	36.4	24.7	48.2	103	−12	May 24	Sept. 27
Carlsbad	45.8	53.0	54.6	68.0	74.9	82.8	78.0	80.7	74.0	67.5	d54.6	45.6	65.0	112	13	Mar. 31	Nov. 3
Cloudcroft	28.1	28.6	30.0	.....	.....	.....	.....	.....	50.4	44.3	34.6	29.7	.....	.....	− 2	.....	Sept. 12
Dorsey	.....	.....	.....	.....	.....	.....	67.8	68.9	59.4	52.2	40.2	32.6	.....	.....	.....	.....	Sept. 12
East Las Vegas	33.9	38.0	39.0	51.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 3	.....
East View	.....	.....	.....	.....	59.2	70.0	67.4	67.2	63.6	52.7	38.0	30.7	.....	.....	.....	May 20	Sept. 27
Engle	40.2	43.7	45.0	59.8	66.2	75.8	75.2	75.2	68.0	.....	.....	i38.8	.....	.....	.....	Apr. 21	.....
Espanola	.....	.....	.....	.....	60.2	72.4	71.8	a72.0	.....	52.3	41.0	28.6	.....	.....	.....	May 22	Sept. 27
Folsom	28.2	34.3	36.8	49.4	58.2	65.4	66.4	67.8	58.3	49.3	38.8	31.0	48.7	94	− 7	May 23	Sept. 12
Fort Bayard	40.6	44.6	44.0	57.2	61.8	72.4	70.4	70.2	63.8	57.2	44.4	39.9	55.5	98	15	Apr. 21	Oct. 3
Fort Stanton	c36.6	38.5	40.5	53.2	g57.8	70.8	66.7	68.2	60.6	52.5	40.7	36.6	51.9	105	5	Apr. 30	Sept. 27
Fort Union	34.9	37.8	35.5	50.2	56.2	66.8	66.5	68.3	59.0	52.4	41.1	35.0	50.3	95	− 6	May 23	Sept. 11
Fort Wingate	34.4	35.7	35.2	51.4	56.2	65.1	67.0	68.9	62.0	53.4	40.8	32.9	50.3	95	− 4	May 21	Sept. 27
Gallisteo	32.0	34.4	36.4	53.6	i62.2	71.2	69.8	70.8	62.2	52.0	.....	.....	.....	96	.....	Apr. 22	Oct. 4
Gallinas Springs	36.0	41.4	43.1	55.8	66.6	75.9	75.6	76.0	65.6	55.8	45.6	35.0	56.0	105	− 6	Apr. 4	Oct. 27
Horse Springs	33.5	37.3	36.4	51.2	56.4	67.5	66.6	65.8	.....	.....	.....	.....	.....	.....	.....	May 22	.....
Las Vegas	33.2	37.6	38.1	53.4	h58.3	71.2	68.6	69.6	61.0	51.6	40.2	32.7	51.7	98	− 9	Apr. 26	Oct. 3
Las Vegas Hotsprings	34.8	.....	.....	52.9	58.4	67.8	67.0	68.1	61.0	53.0	41.8	35.2	.....	94	2	Apr. 26	Sept. 27
Los Lunas	.....	37.6	43.6	59.4	65.0	75.7	78.0	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 9	.....
Lower Penasco	46.1	45.1	44.4	62.3	70.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 8	.....
Mesilla Park	43.0	46.5	50.0	62.3	68.4	78.0	77.2	76.6	69.4	60.8	49.0	42.3	60.3	106	13	Apr. 12	Oct. 26
Olio	.....	35.2	38.5	53.1	63.8	71.8	75.6	75.6	.....	.....	.....	28.6	.....	110	.....	May 5	.....
Raton	31.8	36.6	36.6	50.7	64.6	69.4	70.8	66.4	58.1	52.2	44.6	32.8	51.2	98	− 2	May 23	Sept. 26
Roswell	39.7	45.4	49.7	63.0	68.8	76.6	75.0	76.1	68.4	60.1	49.5	42.0	59.5	107	10	Mar. 31	Nov. 3
San Marcial	41.4	.....	f49.2	65.3	.....	85.5	.....	.....	.....	.....	.....	k35.3	.....	.....	.....	Apr. 1	.....
Santa Fe	33.7	35.9	36.2	52.2	57.0	68.7	67.4	68.4	60.0	51.8	39.6	31.2	50.2	91	8	May 20	Nov. 3
Socorro	39.4	43.5	47.1	62.4	68.6	80.4	78.0	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 31	.....
Taos	26.9	32.7	35.6	51 1	57.3	69.0	68.6	69.8	61.6	52.4	40.8	25.9	49.3	100	−10	May 21	Sept. 28
Winsors	f28.2	30.8	29.6	43.4	47.8	57.0	56.3	58.2	50.9	43.2	34.4	28.6	42.4	87	− 8	July 7	Sept. 2
Woodbury	35.2	39.4	39.8	56.5	61.4	73.6	73.5	73.8	.....	.....	.....	.....	.....	.....	.....	May 19	.....
New York.																	
Addison	22.6	22.4	39.6	c47.5	57.6	62.9	70.6	66.2	61.2	50.6	45.8	26.7	47.8	91	−10	May 16	Sept. 15
Adirondack Lodge	15.2	15.0	32.0	37.8	46.6	54.0	60.0	55.6	54.0	40.9	37.2	17.0	38.8	79	−26	June 11	Sept. 5
Albany	22.6	23.6	39.6	48.5	57.0	64.5	70.4	68.2	63.0	51.2	43.4	23.4	48.0	92	−11	May 11	Oct. 10
Alden	22.8	20.6	38.2	45.4	55.3	61.6	70.2	65.4	63.4	50.9	45.6	26.6	47.2	88	− 5	May 15	Oct. 10
Angelica	19 8	18.9	37.7	44.0	54.3	60.4	68.2	64.2	62.2	51.0	43.4	24.6	45.7	95	−18	June 9	Oct. 9
Appleton	24.2	22.5	38.6	44.9	54.0	60.6	69.4	66.0	62.0	51.0	45.8	27.6	47.2	91	0	May 11	Oct. 10
Arcade	.....	.....	.....	.....	.....	58.8	67.6	e61.2	e58.8	d47.0	42.2	22.2	.....	.....	.....	June 8	Sept. 14
Athens	.....	.....	.....	.....	.....	64.8	69.4	66.8	61.9	51.6	44.4	23.3	.....	90	.....	.....	Oct. 17
Atlanta	19.9	19.3	37.4	44.4	54.0	60.4	68.2	63.7	59.6	48.1	43.0	23.2	45.1	89	−18	May 29	Sept. 15
Auburn	23.2	22.4	39.5	46.9	56.2	62.9	70.7	67.2	63.1	49.8	45.8	25.4	47.8	90	− 7	May 14	Oct. 10
Avon	22.2	19.8	38.6	45.4	54.6	61.8	70.0	64.4	61.0	50.6	44.9	25.7	46.6	89	− 7	May 29	Sept. 15
Axton	12.4	14.8	33.0	40.3	48.6	56.4	63.0	59.0	54.8	41.4	42.2	15.6	40.1	86	−30	June 11	Aug. 13
Baldwinsville	21.4	22.0	38.9	47.6	f56.4	62.6	70.4	66.6	62.6	50.2	44.7	24.8	47.4	89	− 9	May 14	Oct. 10
Bedford	29.6	25.4	41.4	47.6	56.9	64.1	70.5	70.0	68.0	53.6	47.6	27.0	49.8	96	− 3	Apr. 20	Oct. 21
Binghamton	21.6	21.2	38.4	46.2	55.0	62.2	69.2	65.6	60.8	49.6	44.2	24.6	46.6	89	− 9	May 15	Oct. 10
Bolivar	19.1	18.0	36.4	42.8	54.8	59.9	66.8	62.6	58.4	49.4	42.8	23.0	44.5	86	−19	June 9	Sept. 5
Bouckville	19.6	20.0	36.8	43.8	53.5	60.2	67.0	64.4	60.3	47.2	42.5	21.6	44.7	87	−16	May 16	Sept. 5
Brockport	22.4	20.8	38.2	45.8	55.8	61.8	70.6	65.8	62.2	50.0	45.0	25.2	46.9	92	− 1	May 11	Oct. 10
Buffalo	24.8	22.2	39.2	45.0	54.8	61.4	69.8	67.0	64.2	51.8	47.8	27.6	48.0	85	3	Apr. 15	Oct. 29
Caldwell	17.7	20.1	36.8	46.0	54.3	60.4	66.6	64.4	60.6	48.3	41.4	21.1	44.8	88	−14	May 14	Oct. 10
Canaan Four Corners	20.5	20.7	37.6	44.2	53.0	60.4	66.0	63.1	59.6	48.2	42.3	21.3	44.7	86	−17	May 29	Oct. 10
Canajoharie	19.8	22.0	36.6	45.4	54.2	61.0	67.2	64.8	60.6	49.2	41.6	20.8	45.8	88	−16	May 30	Sept. 15
Canton	13.6	15.1	36.0	44.3	52.2	59.5	67.6	.....	.....	.....	40.5	18.6	.....	87	−25	June 11	.....
Carmel	23.6	24.4	40.6	48.7	58.5	66.2	70.0	68.5	63.0	52.2	46.4	26.4	49.0	91	− 9	May 10	Oct. 10
Carvers Falls	14.6	17.1	35.2	46.2	52.5	60.2	66.4	63.6	60.1	45.2	40.2	17.9	43.3	90	−25	May 21	Oct. 10
Catskill	24.1	25.2	40.2	49.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cedarhill	22.0	23.8	39.6	47.8	57.0	63.5	69.0	66.8	61.2	51.8	43.2	22.6	47.4	91	−10	May 12	Oct. 10
Cooperstown	19.0	18.6	35.4	42.9	52.5	60.0	66.2	63.0	58.6	47.0	41.4	21.4	43.8	84	−13	May 16	Sept. 15
Cortland	24.4	23.6	36.8	46.7	55.8	61.6	68.8	65.1	62.0	49.8	44.7	24.6	47.0	92	−10	June 6	Oct. 10
Cutchogue	28.4	28.4	42.2	47.7	57.0	64.3	69.8	70.6	65.8	55.6	48.6	32.2	50.9	89	2	Apr. 4	Oct. 22
Elba	20.6	18.6	37.3	43.2	53.2	59.2	68.6	63.6	60.6	47.6	43.5	24.0	45.0	88	− 5	May 11	Oct. 10
Elmira	23.7	23.2	40.4	48.6	58.1	65.0	72.6	68.3	62.6	51.5	46.3	27.2	49.0	93	− 2	May 12	Oct. 10
Fayetteville	21.9	22.3	39.0	47.1	56.8	62.5	70.1	66.2	63.2	49.8	45.7	25.2	47.4	90	−13	May 15	Oct. 10
Franklinville	18.6	17.6	36.3	42.6	54.0	59.7	67.4	63.0	60.4	50.5	44.0	23.4	44.8	86	−16	June 9	Sept. 17
Gabriels	12.8	17.0	38.3	40.8	49.2	56.2	63.0	59.4	57.2	.....	.....	.....	.....	.....	.....	June 11	Sept. 6
Glens Falls	19.4	22.8	39.4	48.0	57.3	63.7	69.0	67.0	62.4	49.4	42.0	21.4	46.8	89	−15	May 14	Oct. 10
Gloversville	17.6	18.8	37.0	c46.1	53.5	60.5	67.2	64.3	59.5	47.0	40.6	20.2	44.4	88	−20	May 31	Sept. 15
Greenwich	c19.1	22.2	e39.2	46.4	d55.0	60.5	67.6	65.0	61.2	e48.8	41.7	20.0	45.6	87	−26	May 21	Oct. 10
Griffin Corners	19.5	21.0	36.4	42.4	52.6	58.2	64.2	61.2	57.0	47.6	41.9	d21.8	43.6	84	−12	May 17	Sept. 6
Harkness	.....	.....	.....	.....	53.8	61.2	68.8	66.8	62.2	46.5	41.6	19.0	.....	.....	.....	June 1	Oct. 10
Hemlock	22.5	21.0	37.5	45.7	55.6	63.0	70.8	66.1	62.8	50.0	46.0	26.8	47.3	86	− 6	May 10	Oct. 10
Honeymead Brook	21.9	24.4	40.1	47.6	56.2	63.4	68.6	66.0	61.0	50.8	43.6	22.8	47.2	89	−12	May 10	Oct. 22
Humphrey	18.6	17.8	35.0	41.5	54.3	59.6	66.8	61.5	59.0	49.4	.....	.....	.....	.....	.....	May 29	Sept. 15
Indian Lake	13.8	17.2	33.5	40.3	49.4	55.4	63.0	59.2	56.9	43.4	38.6	17.8	40.7	86	−22	June 11	Aug. 13
Ithaca	22.0	21.4	38.3	46.6	54.5	62.2	69.8	65.6	61.1	49.2	44.9	25.2	46.7	88	− 2	May 10	Oct. 10
Jamestown	22.6	20.2	40.2	d42.5	53.4	61.2	70.0	65.0	61.2	51.4	44.6	25.0	46.4	89	−10	May 29	Sept. 15
Keene Valley	15.5	19.2	35.8	43.4	51.4	59.2	65.6	61.0	58.6	44.8	40.7	18.9	42.8	90	−20	June 11	Sept. 6
Liberty	.....	.....	.....	.....	54.8	61.8	64.8	63.8	57.8	48.4	42.3	.....	.....	.....	.....	May 16	Sept. 15
Little Falls (city res.)	19.0	19.3	36.6	45.9	53.6	60.2	67.0	64.9	60.4	48.3	41.3	20.7	44.8	87	−18	May 10	Sept. 15
Lockport	25.8	.....	d40.7	47.0	56.2	62.2	69.9	65.3	62.2	50.7	45.8	26.9	.....	.....	.....	May 11	Oct. 10
Lowville	16.0	18.2	35.4	43.4	52.4	59.5	67.3	62.7	60.0	45.4	39.8	18.4	43.2	87	−25	May 21	Sept. 6
Lyons	24.9	23.6	39.0	c48.6	e58.8	e64.0	72.4	e67.8	64.4	c51.0	c46.9	c26.0	49.0	99	− 8	May 11	Oct. 17
Meredith	16.8	17.7	33.6	41.2	51.4	57.4	64.4	61.1	56.5	.....	.....	.....	.....	.....	.....	May 29	Sept. 6
Middletown	24.2	22.8	40.4	48.8	58.4	64.9	70.8	67.6	61.3	52.6	45.8	26.0	48.6	90	− 2	Apr. 1	Oct. 22
Mohonk Lake	22.2	22.3	38.3	45.4	d56.0	62.6	67.7	65.2	59.6	50.1	44.0	22.2	46.3	84	− 7	May 10	Oct. 26

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov	Dec.	Annual. Mean.	Annual. Extremes. Max	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
New York—Continued.																	
Moira	15.1	16.8	36.0	45.8	53.0	59.6	68.3	64.6	61.6	45.4	[d]42.3	.....	.....	88	.....	May 15	Oct. 4
Mount Etrick	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.4	44.6	.....	.....	.....	.....	.....	.....
New Lisbon	16.8	18.0	34.6	41.8	51.6	58.0	64.8	61.5	57.0	45.6	40.4	20.0	42.5	85	−19	May 21	Sept. 6
*New York	29.2	28.5	44.0	50.6	60.2	68.2	73.6	71.4	65.9	56.9	50.0	32.2	52.6	91	8	Mar. 25	Nov. 29
North Hammond	.....	.....	36.5	46.6	53.6	61.8	69.9	66.0	63.2	47.6	41.2	.....	.....	.....	.....	May 10	Oct. 10
North Lake	.....	[c]15.8	34.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Number Four	14.6	17.2	34.0	40.8	.....	55.6	63.6	59.4	57.6	43.8	40.0	19.4	.....	81	−28	.....	Sept. 14
Nunda	23.2	21.8	40.4	44.2	55.8	.....	.....	65.0	.....	.....	46.3	26.6	.....	.....	8	May 21	.....
Ogdensburg	16.7	20.0	36.3	46.8	53.3	61.7	.....	65.6	62.4	45.8	40.6	18.3	.....	.....	−20	May 11	Oct. 10
Oneonta	20.3	22.0	38.5	44.2	54.7	61.8	68.2	65.5	61.0	49.4	43.8	23.5	46.1	94	−12	May 21	Sept. 15
*Oswego	22.4	22.5	37.4	44.9	51.8	58.8	67.6	65.4	61.6	49.6	44.3	24.3	45.9	88	−12	May 10	Oct. 17
Otto	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45.0	22.8	.....	.....	.....	.....	.....
Oxford	19.3	20.5	37.6	44.4	55.0	61.0	67.3	64.0	59.7	48.1	43.0	23.0	45.2	85	−15	May 21	Sept. 6
Penn Yan	22.8	22.0	38.8	46.6	55.9	[c]63.8	[d]71.6	66.8	62.9	50.2	45.4	25.0	47.6	90	− 4	May 11	Oct. 10
Perry City	19.8	19.8	36.5	44.4	53.6	61.4	68.8	63.6	59.5	47.6	43.6	23.2	45.2	89	−10	June 6	Sept. 15
Plattsburg	17.8	18.6	36.9	45.8	53.1	59.4	68.8	65.5	59.0	47.4	40.4	20.0	44.4	94	−15	May 12	Oct. 10
Port Jervis	23.5	24.5	41.4	48.6	59.0	64.8	70.6	68.1	61.8	52.2	45.2	24.6	48.7	91	− 7	Apr. 28	Oct. 22
Primrose	26.6	27.2	42.4	48.6	59.0	67.2	72.0	68.8	62.4	53.7	45.2	28.9	50.2	96	0	Apr. 17	Oct. 10
Richmondville	20.0	20.6	37.8	44.6	54.4	62.0	67.3	64.7	59.8	48.4	[d]42.7	22.0	45.4	90	−16	May 21	Oct. 10
Ridgeway	23.4	20.8	38.2	45.4	54.6	61.5	70.0	65.6	62.5	50.2	45.2	26.5	47.0	88	1	May 11	Oct. 10
*Rochester	23.5	22.4	39.4	46.2	55.2	62.0	70.8	66.2	63.2	50.3	46.0	26.6	47.6	91	2	May 11	Oct. 10
Rome	20.9	21.0	38.6	46.2	55.0	62.8	69.2	65.8	60.0	49.6	42.8	23.4	46.2	89	−19	May 29	Oct. 10
Romulus	22.8	21.9	39.2	46.2	55.0	62.4	69.8	[d]66.8	61.6	50.4	45.7	25.4	47.3	88	− 3	May 15	Oct. 10
Saranac	13.9	17.5	34.8	42.4	50.2	57.8	64.9	60.4	58.2	44.0	39.4	17.5	41.8	86	−23	June 11	Sept. 6
Saratoga Springs	16.8	22.4	40.0	48.3	57.1	62.6	68.3	66.5	63.9	.....	.....	20.4	.....	94	−28	May 16	Oct. 10
Setauket	28.8	28.2	42.0	48.6	58.0	65.8	70.2	70.0	64.8	55.8	48.8	32.6	51.1	89	3	May 27	Nov. 29
Shortsville	22.9	21.4	38.7	46.0	55.0	62.2	69.6	65.5	62.7	50.8	46.4	25.2	47.2	88	− 1	May 14	Oct. 10
Southampton	29.1	28.0	41.0	46.0	54.9	63.4	68.8	68.2	64.4	55.4	48.6	32.9	50.1	85	3	Apr. 4	Oct. 22
South Canisteo	21.7	20.6	38.0	45.2	55.2	60.7	67.9	64.4	59.0	49.5	43.0	24.4	45.8	90	−11	June 9	Sept. 15
South Kortright	19.8	19.8	36.6	43.3	52.9	59.0	65.4	62.4	58.0	47.4	42.8	21.8	44.1	86	−20	May 21	Sept. 6
South Schroon	15.6	19.5	35.8	43.2	51.8	58.3	64.3	61.6	57.6	44.2	39.2	18.5	42.5	87	−21	May 29	Sept. 6
Spier Falls	.....	.....	.....	.....	.....	62.8	68.1	65.6	61.2	49.2	41.9	20.4	.....	.....	.....	.....	Oct. 10
Straits Corners	[d]18.6	19.1	37.0	[d]43.9	53.4	[e]61.2	68.8	[d]64.2	58.5	[d]47.7	43.6	[e]23.0	44.9	89	−10	June 6	Sept. 14
*Syracuse	.....	.....	.....	.....	.....	.....	.....	.....	62.0	49.8	45.4	23.8	.....	.....	.....	.....	Oct. 22
Ticonderoga	20.2	22.4	38.6	48.5	55.5	63.0	66.6	65.2	61.5	47.7	42.2	21.9	46.1	91	−17	May 11	Oct. 10
Volusia	21.8	19.6	36.5	42.8	54.8	60.6	68.0	63.4	60.6	49.8	44.4	24.8	45.6	91	− 6	May 11	Oct. 10
Walton	20.7	20.8	38.0	44.6	53.8	59.6	66.5	63.8	60.0	49.0	43.6	23.0	45.2	90	−13	May 29	Sept. 14
Wappingers Falls	24.8	23.9	41.3	49.4	58.6	65.8	69.5	67.7	61.6	51.8	43.9	23.2	48.5	88	−14	Apr. 17	Oct. 22
Watertown	19.7	20.5	37.4	44.9	53.8	61.3	70.4	66.3	62.1	48.1	42.8	21.6	45.7	89	−22	May 15	Oct. 10
Waverly	21.2	22.4	39.1	47.7	57.6	63.5	71.8	66.6	61.6	50.4	44.7	24.9	47.6	91	− 9	May 29	Sept. 15
Wedgewood	19.9	19.7	36.8	44.7	54.0	61.0	68.6	65.0	60.4	48.2	44.4	23.4	45.5	87	− 3	May 15	Oct. 10
Wells	16.9	19.2	36.9	43.4	53.6	58.4	65.1	63.0	58.8	46.3	40.6	19.9	43.5	88	−28	June 9	Sept. 6
West Berne	21.2	22.4	40.0	45.4	54.7	60.6	66.5	63.5	60.0	49.2	42.2	20.5	45.5	87	−21	May 21	Sept. 7
West Chazy	14.6	18.0	36.1	45.2	50.3	60.4	67.2	.....	59 8	45.7	.....	.....	.....	.....	.....	May 12	Oct. 10
Westfield[2]	23.9	20.4	38.4	.....	.....	61.4	69.6	65.4	62.4	.....	.....	26.8	.....	.....	.....	.....	.....
Westfield[3]	26.0	20.8	38.3	44.0	54.6	61.8	70.2	[e]66.2	[e]60.2	51.7	45.8	.....	.....	88	.....	May 11	Oct. 10
Windham	20.2	20.0	36.8	44.1	53.2	60.8	67.0	62.3	58.3	48.6	42.1	24.3	44.8	92	−12	May 21	Sept. 6
Wolcott	.....	.....	.....	.....	54.9	60.9	69.8	66.4	61.8	49.6	44.0	24.2	.....	90	.....	May 14	Oct. 10
North Carolina.																	
*Asheville	.....	.....	.....	.....	.....	.....	.....	.....	63.3	56.2	51.9	38.4	.....	.....	.....	.....	Oct. 16
Biltmore	.....	.....	44.8	53.0	65.6	69.8	71.6	70.8	.....	.....	.....	.....	.....	.....	.....	Apr. 9	.....
Brevard	[a]34.5	33.6	45.8	52.5	65.8	70.8	72.7	72.2	64.4	54.4	51.0	38.0	54.6	95	8	May 27	Oct. 13
Brewers	36.8	34.0	46.5	52.3	68.2	69.9	75.5	73.8	65.6	59.2	53.8	38.8	56.2	98	9	Apr. 18	Oct. 15
Chapelhill	37.6	34.2	50.6	[c]56.9	71.2	76.7	83.7	78.6	70.6	62.8	56.2	40.6	60.0	107	14	Apr. 3	Oct. 30
*Charlotte	38.4	36.6	51.7	57.8	72.4	76.5	80.2	76.8	70.0	62.4	57.7	42.4	60.2	98	16	Mar. 19	Nov. 28
Cherryville	.....	35.2	49.5	55.8	71.5	[a]73.4	[a]79.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cranberry	34.9	29.0	42.5	48.3	63.6	66.0	69.9	67.6	59.8	53.3	49.2	35.2	51.5	79	4	Apr. 9	.....
Edenton	39.8	37.9	53.6	58.8	69.4	76.4	80.6	[b]75.8	70.8	62.7	58.6	45.6	60.8	98	18	Mar. 7	Oct. 23
Fayetteville	40.6	39.0	53.6	59.3	71.5	77.4	80.4	77.4	71.9	64.8	57.5	44.2	61.5	101	15	Apr. 2	Nov. 28
Flatrock	.....	.....	53.2	55.2	69.8	72.8	71.4	64.1	56.2	.....	.....	.....	.....	.....	.....	Apr. 18	Oct. 15
*Goldsboro	41.3	37.9	52.4	56.5	70.4	76.3	80.1	76.4	70.8	62.8	55.2	43.3	60.1	100	16	Apr. 2	Nov 28
*Greensboro	36.2	34.0	48.7	55.4	70.0	73.1	78.4	75.3	67.0	60.6	55.0	39.8	57.8	97	16	Apr. 3	Nov. 28
*Hatteras	42.0	39.2	50.7	56.7	68.2	75.4	79.7	77.0	73.2	67.8	60.6	48.8	61.6	92	24	Mar. 19	Dec. 9
Henderson	36.4	34.2	50.1	55.7	69.8	75.6	79.8	76.1	69.2	61.0	55.4	42.1	58.8	99	15	Apr. 2	Oct. 30
Hendersonville	37.0	32.6	46.5	53.2	66.7	71.2	73.7	72.6	65.0	58.1	52.4	40.7	55.8	95	8	Apr. 14	Oct. 15
Henrietta	38.6	36.5	51.5	56.5	72.8	76.5	79.2	77.8	69.4	61.2	55.6	41.8	59.8	102	14	Apr. 3	Oct. 29
Highlands	33.8	27.2	41.2	48.8	63.4	66.3	69.2	69.0	.....	52.7	44.9	33.6	.....	87	0	Apr. 9	Oct. 14
Horsecove	37.4	33.4	44.9	52.2	66.0	69.4	72.1	70.8	62.8	56.9	52.2	39.0	54.8	90	8	Apr. 9	Oct. 29
Hot Springs	41.2	37.6	51.0	54.9	70.2	72.8	76.4	75.2	67.3	59.4	54.4	41.2	58.5	95	11	Apr. 9	Oct. 15
Kinston	41.3	38.4	54.9	61.2	72.8	77.5	82.6	78.6	72.6	62.9	57.2	45.5	62.1	104	15	Apr. 21	Nov. 10
*Kittyhawk	40.6	37.1	48.6	54.6	67.6	74.0	80.0	76.2	72.3	66.8	59.2	45.3	60.2	96	20	Mar. 19	Dec. 9
Lenoir	37.0	33.7	47.8	51.8	69.4	70.8	[c]75.3	74.8	66.0	58.8	53.1	38.1	56.3	96	9	Apr. 13	Oct. 13
Lexington	.....	.....	.....	.....	.....	.....	.....	.....	69.0	60.0	55.0	42.0	.....	.....	.....	.....	Oct. 30
Linville	31.0	26.4	39.0	48.2	[a]60.7	63.2	66.2	64.0	56.2	48.7	43.3	32.3	48.3	84	0	Apr. 28	Sept. 14
Littleton	36.0	33.8	50.0	55.8	67.2	73.8	78.4	75.4	67.8	61.1	54.4	39.8	57.8	100	12	Apr. 2	Oct. 30
Louisburg	37.2	35.2	51.5	57.9	70.0	76.2	80.2	76.6	69.3	62.4	55.0	[b]41.4	59.4	100	7	Apr. 3	Oct. 29
*Lumberton	39.4	38.4	53.1	59.0	72.6	77.8	82.1	78.2	71.6	63.6	56.6	44.6	61.4	102	18	Mar. 20	Nov. 28
Marion	37.4	35.0	48.9	55.4	69.6	72.8	76.5	75.8	67.8	60.6	54.7	[c]39.9	57.8	100	9	Apr. 3	Oct. 30
Marshall	35.5	[a]33.3	[c]46.3	[b]54.2	[a]67.2	.....	.....	.....	[c]59.6	[b]55.8	[a]50.3	.....	.....	.....	.....	Apr. 11	Oct. 15
Mocksville	35.0	33.0	45.8	52.7	65.6	69.7	74.4	75.1	67.7	59.8	52.2	37.4	55.7	96	8	Apr. 11	Oct. 14
Moncure	38.9	36.6	52.1	57.4	70.9	76.7	81.0	77.4	70.6	61.6	55.2	42.0	60.0	106	7	Apr. 4	Oct. 29
Monroe	37.5	34.9	50.0	55.6	71.1	75.8	78.8	76.4	67.8	60.6	54.2	42.4	58.8	103	11	Apr. 11	Oct. 30
Morganton	37.6	35.4	.....	56.0	70.2	73.4	76.3	75.9	68.1	59.3	53.6	40.6	.....	98	10	Apr. 3	Oct. 15
Mountairy	34.8	34.7	47.6	53.7	68.4	70.8	75.8	73.4	65.6	58.0	52.2	38.2	56.1	95	13	Apr. 11	Oct. 30
*Newbern	44.4	.....	54.6	60.4	70.6	75.7	80.6	77.8	71.8	65.2	58.1	46.2	.....	98	16	Apr. 10	Dec. 9

[2]John R. Rogers. [3]D. H. Beadle.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
North Carolina—Cont'd.																	
Oakridge	38.6	36.8	48.5	55.4	70.1	78.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Patterson (a)	32.8	33.2	44.1	50.8	65.0	69.7	71.5	68.7	61.9	52.9	48.4	34.8	52.8	92	13	Apr. 14	Oct. 15
Penelo	39.5	36.6	53.0	57.6	69.6	76.6	80.2	77.3	70.1	63.4	55.9	.....	.....	102	12	Apr. 3	Oct. 30
Pittsboro	33.5	33.0	48.4	56.6	.....	75.9	82.3	75.0	70.0	62.8	56.8	48.6	.....	105	10	Apr. 3	Oct. 15
*Raleigh	37.6	36.0	51.0	57.6	70.7	76.4	80.7	77.0	70.2	63.0	56.5	42.4	59.9	101	17	Mar. 19	Nov. 28
Redsprings	.....	.....	°54.3	59.4	72.2	77.6	81.0	.....	74.6	66.2	.....	.....	.....	.....	.....	.....	.....
Reidsville	36.2	34.4	49.4	55.8	69.8	.....	78.4	76.4	69.5	61.4	56.4	40.0	.....	99	14	Apr. 5	Oct. 30
Rockingham	39.0	36.6	51.7	59.2	71.8	76.4	80.6	76.8	70.8	62.9	57.7	44.6	60.7	103	14	Apr. 9	Nov. 28
Roxboro	35.9	33.9	50.3	ƒ57.2	69.5	74.4	79.2	75.7	68.4	62.4	55.6	40.2	58.6	100	13	Apr. 3	Oct. 30
Salem	35.2	34.4	49.0	55.6	71.1	74.4	78.4	76.2	67.8	59.0	53.2	38.9	57.8	107	4	Apr. 5	Oct. 15
Salisbury	38.4	°36.5	50.6	57.2	73.4	77.3	ᵍ82.1	°78.0	70.2	62.1	56.0	.....	.....	102	15	Apr. 10	Oct. 30
Saxon	35.2	33.0	48.2	53.9	68.6	71.8	77.4	74.2	67.0	59.6	53.1	38.8	56.7	100	8	Apr. 14	Oct. 15
Selma	37.8	36.4	52.4	57.8	71.2	77.8	83.0	77.6	71.4	62.8	55.8	42.5	60.5	104	12	Apr. 3	Oct. 30
Settle	36.7	35.6	49.0	55.9	70.9	75.2	79.0	76.8	69.9	60.4	55.6	41.2	58.9	98	6	Apr. 5	Oct. 30
Sloan	41.6	38.5	53.6	58.0	70.6	76.3	80.2	76.4	71.4	ᵈ65.0	59.0	46.5	61.4	100	16	Apr. 2	Dec. 6
Soapstone Mount	35.6	33.4	°49.2	54.8	68.6	73.6	77.7	74.2	67.4	59.4	53.4	39.8	57.3	98	4	Apr. 5	Oct. 15
Southern Pines[1]	41.7	39.4	55.4	61.7	75.2	80.0	83.0	79.8	74.4	65.6	58.2	44.0	63.2	.....	.....	Apr. 2	Nov. 28
Southern Pines[2]	40.0	37.8	53.6	59.4	72.6	77.7	80.4	77.4	71.3	64.6	58.4	44.4	61.5	101	16	Apr. 2	Oct. 30
Southport	44.4	43.3	55.0	60.8	72.4	78.8	ᵍ82.3	.....	75.9	69.4	62.4	50.5	.....	100	17	Mar. 19	Nov. 28
Springhope(a)	38.8	39.6	51.2	56.2	69.8	75.2	78.1	75.1	70.0	62.8	57.8	42.9	59.8	99	15	Apr. 2	Nov. 1
Statesville	36.0	33.8	48.6	56.2	70.9	73.4	77.6	75.0	69.6	60.0	54.7	38.6	57.8	98	9	Apr. 9	Oct. 15
Tarboro	°39.1	37.5	53.9	°59.6	71.6	ʰ78.6	83.4	79.7	72.6	65.2	57.4	°42.4	61.7	104	14	Apr. 8	Oct. 30
Washington	43.6	40.8	54.6	60.2	73.2	79.2	84.0	.....	.....	66.0	59.7	46.2	.....	.....	18	Apr. 1	Dec. 5
Waynesville	37.2	31.8	45.8	51.1	64.4	67.9	71.4	72.4	68.5	57.8	54.2	41.9	.....	93	6	Apr. 14	Oct. 15
*Weldon	36.4	33.4	49.9	55.4	67.6	74.4	79.5	75.4	68.6	61.6	54.0	40.2	58.0	99	17	Apr. 2	Oct. 30
*Wilmington	43.4	41.4	54.7	60.0	71.0	76.4	80.5	77.4	72.4	66.1	59.8	49.0	62.7	100	19	Mar. 19	Dec. 9
North Dakota.																	
Amenia	11.9	13.6	31.2	°41.0	56.8	60.0	66.9	64.7	°53.4	44.4	26.6	°8.2	39.9	96	—29	May 10	Sept. 4
Ashley	9.8	9.6	ᶠ26.2	39.6	56.0	57.8	69.1	64.5	52.2	43.2	27.2	8.1	38.6	98	—30	June 21	Sept. 4
Berlin	11.8	11.6	28.0	39.7	55.0	56.9	66.7	62.4	52.3	44.2	29.2	7.7	38.8	98	—35	June 21	Sept. 4
*Bismarck	14.2	11.6	26.4	42.1	57.4	58.2	68.8	66.3	55.6	45.0	29.7	10.0	40.4	98	—29	June 21	Sept. 12
Bottineau	.....	.....	.....	.....	50.6	.....	70.6	61.2	.....	41.0	22.0	2.4	.....	94	.....	.....	Sept. 4
Buxton	13.7	14.0	29.7	39.7	56.5	ᵉ60.0	ᵉ67.9	63.6	53.8	44.6	28.8	8.4	40.1	90	—32	May 10	Sept. 12
Cando	10.1	8.8	ᵈ27.0	38.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Churchs Ferry	11.4	9.8	26.8	36.5	54.6	55.8	66.4	63.7	53.2	43.0	24.6	4.0	37.4	95	—32	May 10	Sept. 4
Coalharbor	17.4	13.0	25.8	42.8	57.4	58.9	69.8	66.0	54.5	43.6	29.6	7.4	40.5	100	—30	May 9	Sept. 12
*Devils Lake	13.2	14.6	26.5	39.8	55.3	58.4	68.3	65.0	54.2	44.0	29.3	4.6	39.4	90	—32	May 10	Sept. 11
Dickinson	14.6	11.8	27.2	41.2	56.8	°56.0	.....	.....	.....	.....	.....	.....	.....	.....	—31	May 26	.....
Dunseith	8.6	8.8	.....	.....	59.6	51.0	60.6	59.2	.....	.....	.....	3.0	.....	85	—39	June 20	.....
Edgely	15.9	14.8	28.8	42.0	56.6	59.8	70.4	65.6	56.2	46.8	30.0	11.3	41.5	97	—26	May 7	Sept. 12
Elbowoods	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—0.3	.....	.....	.....	.....	.....
Ellendale	15.5	16.4	29.6	42.3	59.2	59.6	69.8	66.6	54.0	46.9	31.0	10.6	41.8	97	—28	June 21	Sept. 12
Falconer	ƒ9.6	15.2	27.0	.....	°58.4	°58.8	68.4	.....	.....	.....	.....	.....	.....	.....	.....	June 21	.....
Fargo	.....	°14.6	30.6	39.8	55.3	58.2	67.8	63.7	54.0	44.6	27.8	7.6	.....	94	—31	June 21	Sept. 4
Forman	14.8	14.6	29.6	41.2	57.0	58.9	67.0	63.6	51.6	°40.0	25.8	6.7	39.2	98	—29	June 21	Sept. 4
Fort Yates	16.8	14.8	28.4	43.1	58.7	60.4	70.2	68.1	58.0	46.2	32.0	13.8	42.5	105	—29	.....	.....
Fullerton	13.8	13.2	28.6	40.7	56.8	58.5	68.6	65.2	53.7	44.8	29.2	8.8	40.2	98	—31	Apr. 30	Sept. 4
Gallatin	12.8	11.4	26.6	37.8	52.9	54.6	64.8	60.6	50.2	41.1	26.2	8.5	37.5	92	—32	June 21	Sept. 4
Glenullin	17.1	14.2	27.8	42.0	57.0	58.0	68.2	66.2	55.5	44.8	30.8	12.8	41.2	101	—23	June 21	Sept. 12
Grafton	12.9	13.2	27.9	.....	.....	60.4	68.5	63.6	53.1	43.0	25.0	°6.6	.....	92	—31	.....	Sept. 12
Hamilton	11.8	12.5	25.1	.....	55.0	58.1	68.4	61.0	52.8	43.0	28.8	.....	.....	91	—33	June 21	Sept. 4
Hannaford	13.2	11.2	28.2	40.0	55.3	57.8	67.5	63.4	53.2	43.3	28.2	7.6	39.1	95	—31	June 21	Sept. 4
Jamestown	12.5	10.1	28.2	38.6	55.2	58.1	67.9	65.0	53.6	43.6	29.4	7.0	39.1	97	—28	June 21	Sept. 4
*Langdon	.....	.....	.....	35.0	51.8	55.2	63.9	61.6	52.7	.....	.....	.....	.....	.....	.....	.....	.....
*Larimore	11.9	10.8	27.1	36.8	53.2	57.4	66.8	61.6	51.4	42.5	26.0	6.8	37.7	95	—34	June 21	Sept. 4
*Lisbon	.....	.....	.....	39.4	55.8	58.6	68.2	65.2	53.1	.....	.....	.....	.....	.....	.....	.....	.....
McKinney	12.8	8.0	21.8	39.9	°54.6	55.3	64.9	62.7	51.4	42.0	°24.8	1.0	36.6	93	—35	May 8	Sept. 3
Mayville	11.4	12.8	28.5	40.2	57.0	60.4	69.6	.....	53.8	.....	29.0	8.0	.....	97	—30	May 10	Sept. 11
Medora	17.0	17.0	30.8	42.9	56.4	59.6	68.4	66.9	55.4	44.8	31.2	ᵈ12.2	41.9	96	—30	May 25	Sept. 3
Melville	14.6	13.0	30.4	41.0	57.0	59.4	ᶠ67.7	64.2	°51.4	45.0	29.3	9.9	40.2	93	—29	June 20	Sept. 4
Milton	8.1	10.1	24.6	37.0	53.5	56.4	ᶠ64.0	61.8	51.3	40.6	21.8	3.2	36.0	91	—36	June 20	Sept. 3
Minnewaukon	.....	.....	.....	.....	57.0	58.2	67.2	64.4	53.0	43.6	.....	7.5	.....	92	—29	June 21	Sept. 4
Minot	19.6	11.6	26.2	44.2	60.8	60.2	70.1	66.4	57.8	46.6	29.8	11.0	42.0	96	—27	May 9	Sept. 17
Minto	11.4	11.4	27.0	38.0	55.0	57.8	67.0	61.7	52.6	42.3	26.2	6.0	38.0	93	—34	June 21	Sept. 4
Napoleon	10.9	10.7	25.2	40.7	57.8	59.8	71.4	66.8	54.1	44.8	27.8	9.8	40.0	106	—30	June 21	Sept. 12
New England	14.0	.....	27.3	40.7	ᵍ54.0	56.4	65.6	65.5	.....	43.0	28.8	11.2	.....	100	—27	May 26	Sept. 12
Oakdale	19.6	17.0	27.6	41.7	56.4	56.6	68.0	66.6	57.0	47.8	30.0	12.4	41.7	95	—22	June 21	Oct. 2
*Pembina	9.4	.....	.....	37.2	54.2	58.2	68.0	62.8	51.6	41.7	23.6	3.8	.....	92	—34	June 21	Sept. 12
Portal	12.0	7.4	°25.2	38.0	°51.7	54.4	63.0	63.8	51.6	ᵐ39.0	24.7	1.6	36.0	90	—33	May 9	Sept. 3
Power	13.0	15.0	30.4	42.0	57.2	59.8	69.4	64.9	54.7	44.4	29.6	8.8	40.0	97	—28	June 21	Sept. 4
Steele	11.4	9.6	°26.7	°42.0	58.9	59.7	68.8	66.1	54.0	°42.8	28.1	8.2	39.7	93	—30	June 21	Sept. 11
University	13.6	14.2	31.0	40.2	57.0	59.8	67.9	62.2	52.2	42.8	26.6	°5.6	39.4	88	—33	May 10	Sept. 11
Valley City	5.6	7.6	ᵈ24.0	ᵈ37.8	.....	58.9	69.6	63.6	55.6	45.0	ᵐ28.8	°2.0	.....	96	—29	June 21	Sept. 11
Wahpeton	17.5	18.6	35.3	44.0	59.7	62.0	71.0	66.4	55.2	.....	31.2	10.8	.....	99	—24	May 9	Sept. 11
*Williston	13.8	10.8	25.4	40.4	55.1	57.5	67.4	65.5	53.6	43.3	25.6	4.3	38.6	94	—30	Apr. 29	Sept. 12
Willow City	10.4	8.7	22.4	40.0	ᵐ50.1	°54.0	64.3	62.8	50.6	40.0	24.9	1.0	35.8	91	—34	.....	Sept. 4
Woodbridge	11.0	10.0	23.8	37.0	53.3	55.3	64.4	63.0	50.6	40.5	23.2	.....	.....	90	—36	June 21	Sept. 4
Ohio.																	
Akron	25.6	21.5	40.4	46.0	60.2	64.2	72.0	66.5	62.6	53.0	46.8	27.8	48.9	92	— 7	May 10	Oct. 29
Annapolis	26.2	20.9	39.8	46.0	61.0	64.5	71.8	66.9	.....	.....	.....	.....	.....	.....	.....	May 11	Sept. 14
Atwater	.....	.....	.....	.....	.....	.....	.....	64.7	61.0	51.3	46.1	26.3	.....	.....	.....	.....	.....
Bangorville	25.6	21.0	42.2	48.0	62.4	65.7	72.8	67.5	62.1	52.5	46.5	27.0	49.4	95	—11	May 29	Sept. 14
*Bellefontaine	27.4	21.4	41.3	46.5	62.0	66.6	73.4	68.5	62.6	53.3	47.3	27.4	49.8	92	— 8	Apr. 15	Oct. 29

[1] P. H. Beck.

[2] State Horticultural Farm.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Ohio—Continued.																	
Bement							71.2				48.7						
Benton Ridge	26.8	21.8	41.6	48.6	[1]63.6	66.6	74.2	68.0	[1]62.1	54.4	48.6	28.0	50.4	93	− 8	May 29	Sept. 14
Bethany	30.6	23.2	44.0	51.8	67.1	71.4	77.4	73.6	66.9	58.6	51.3	32.2	54.0	100	− 5	Apr. 15	Sept. 14
Bladensburg	25.1	22.0	41.7	45.8	.....	.....	72.8	67.9	62.3	52.5	.....	.....	.....	.....	.....	.....	Sept. 14
Bloomingburg	28.8	22.2	42.1	49.2													
Bowling Green	25.6	20.7	41.3	47.7	59.8	65.0	73.6	67.1	62.2	53.2	47.8	26.7	49.2	91	− 8	May 15	Sept. 14
*Bucyrus	[1]25.6	19.5	39.0	46.8	62.4	65.3	74.9	68.0	62.6	53.8	47.9	27.8	49.5	.....	.....	May 29	Sept. 14
Cambridge	27.8	24.9	43.5	49.0	63.2	66.9	73.4	67.8	64.0	55.6	48.7	31.2	51.3	95	− 7	May 10	Sept. 14
*Camp Dennison	29.8	23.2	44.9	52.0	67.2	71.3	76.0	72.4	66.0	56.8	50.1	32.8	53.5	97	− 8	Apr. 17	Oct. 15
*Canal Dover	27.1	22.4	41.2	46.4	61.1	65.8	74.0	67.4	61.9	52.5	46.4	29.2	49.6	95	−10	May 28	Sept. 14
*Canton	26.8	22.2	41.0	46.0	61.2	66.3	73.6	67.0	62.3	52.6	46.6	28.1	49.5	93	− 5	May 10	Sept. 15
Cardington	26.4	20.6	41.1	50.9	60.6	65.4	72.2	67.0	62.2	53.0	47.8	28.4	49.6	93	−13	May 10	Sept. 14
Celina	25.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Chillicothe				49.5	62.8	70.5	76.4	75.3	67.0							Apr. 15	
*Cincinnati	31.5	25.1	44.8	52.8	67.6	71.8	77.4	74.3	66.6	58.6	52.4	33.0	54.7	96	0	Apr. 8	Nov. 28
*Circleville	29.6	23.6	43.1	50.3	65.6	69.2	74.8	71.4	65.4	57.2	50.0	32.2	52.7	95	− 3	Apr. 17	Sept. 14
Clarksville	30.1	22.7	44.2	51.0	66.2	69.7	75.5	72.5	66.6	57.5	51.6	32.0	53.3	94	− 6	Apr. 15	Sept. 14
*Cleveland	26.2	21.0	39.6	46.0	57.6	64.4	72.2	67.6	62.9	53.4	48.8	28.8	49.0	91	− 4	Apr. 15	Nov. 28
Cleveland[1]	27.3	22.7	40.9	46.6	59.0	65.0	72.6	66.8	63.2	54.0	49.3	30.0	49.8	90	− 5	Apr. 8	Nov. 28
Cleveland[2]	26.0	22.0	40.8	47.0	58.2	66.0	72.8	67.2	63.1	53.1	48.2	28.5	49.3	92	− 4	Apr. 15	Oct. 29
Clifton	28.8	21.8	43.1	49.6	64.4	67.2	73.2	69.9	64.8	56.4	50.6	31.7	51.8	92	− 7	Apr. 15	Sept. 14
Coalton	29.3	24.6	43.5	50.2	65.9	69.0	74.8	71.0	66.0	57.4	50.2	33.6	53.0	98	− 5	May 29	Sept. 14
Colebrook	24.8	18.5	[1]39.8	44.0	57.5	62.4	71.2	64.4	61.2	[1]52.4	.....	27.6	.....	.....	.....	Apr. 28	Sept. 3
*Columbus	28.8	23.2	42.7	50.1	65.0	68.2	75.2	70.6	65.2	56.2	49.8	30.7	52.1	95	− 4	Apr. 15	Oct. 15
*Dayton	28.9	22.2	43.0	49.3	65.4	69.8	75.8	71.9	65.4	56.4	49.8	30.6	52.4	97	− 8	Apr. 18	Oct. 29
*Defiance	26.2	21.0	41.4	47.0	60.8	65.3	73.1	67.4	60.7	53.4	47.8	27.2	49.3	94	− 9	May 28	Sept. 14
Delaware	27.3	21.2	41.6	47.7	63.0	66.5	73.8	68.2	63.0	53.9	48.2	28.7	50.3	95	− 9	May 10	Sept. 14
Demos	27.2	23.2	41.6	48.4	63.9	67.6	73.6	73.6	64.9	55.0	49.4	30.6	51.6	93	− 3	May 10	Oct. 15
Elyria	25.0	21.4	39.7	46.5	59.8	64.4	73.0	67.2	62.8	53.6	47.7	28.4	49.1	93	− 7	May 10	Oct. 10
*Findlay	27.9	22.2	42.2	48.0	62.4	67.8	75.8	69.7	64.2	55.8	48.9	28.0	51.1	98	− 8	Apr. 24	Sept. 14
Frankfort	29.2	23.0	42.6	49.8	65.2	67.8	72.8	69.2	64.0	55.6	49.2	31.8	51.7	92	− 4	May 10	Oct. 15
Fremont	26.8	22.4	42.0	49.0	61.4	66.9	74.4	68.3	63.3	54.6	48.8	28.6	50.5	.....	.....	Apr. 24	Oct. 29
Garrettsville	24.4	20.8	40.0	45.0	58.2	63.6	71.4	65.4	61.2	52.1	46.6	27.8	48.0	91	−13	May 29	Sept. 15
*Granville	27.3	22.5	42.6	47.4	63.2	66.6	73.9	69.2	63.7	55.1	48.4	[2]29.2	50.8	95	−10	Apr. 24	Sept. 15
Gratiot	27.1	22.4	42.4	48.1	63.6	67.1	73.9	68.6	64.2	53.7	48.6	30.0	50.8	93	− 7	May 29	Sept. 14
Green	31.2	26.2	43.6	51.4	67.0	71.5	75.4	72.4	65.8	57.5	51.8	34.8	54.0	96	− 3	Apr. 15	Oct. 15
Greenfield	30.8	23.8	43.1	50.7	66.2	69.0	75.0	72.1	64.7	56.6	50.3	31.0	52.8	94	− 1	Apr. 14	Oct. 15
Greenhill	24.7	20.2	39.8	44.6	58.3	62.8	70.9	65.5	61.3	51.8	45.5	27.2	47.7	91	−12	May 29	Sept. 14
*Greenville	29.2	23.1	43.4	49.7	64.8	69.0	76.2	70.4	63.4	55.9	50.0	29.6	52.1	97	− 7	May 29	Oct. 29
Hanging Rock	31.1	27.6	44.8	51.2	67.3	69.0	76.1	72.6	67.5	59.2	52.2	36.5	54.6	99	5	Apr. 18	Oct. 15
Hedges	26.0	20.6	41.2	49.6	63.0	66.4	73.8	66.4	62.6	53.8	47.8	26.6	49.8	95	−10	May 29	Sept. 14
Hillhouse	23.2	18.9	37.8	43.8	55.9	62.2	72.0	65.0	61.2	51.0	45.8	26.8	47.0	91	−10	May 29	Oct. 10
Hillsboro	28.6	22.6	42.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hiram	23.9	19.4	39.6	45.0	59.3	63.6	72.0	.....	62.1	53.0	46.4	26.0	.....	.....	.....	May 28	Oct. 15
Hudson	24.0	20.6	39.8	45.2	59.1	63.0	73.0	66.6	62.8	51.5	45.7	25.6	48.1	99	−10	May 29	Oct. 10
Jacksonboro	29.0	22.8	42.9	48.8	64.8	68.9	76.4	72.5	65.2	55.2	49.6	29.4	52.1	97	− 6	May 29	Oct. 15
Killbuck	25.8	22.8	41.8	47.1	62.0	65.6	72.6	67.2	63.1	54.0	46.2	27.2	49.6	92	− 7	May 15	Sept. 14
Lancaster	28.4	23.6	43.2	49.8	63.9	67.6	74.0	68.9	63.9	55.6	49.7	30.8	51.6	94	− 4	Apr. 17	Sept. 14
Lima	27.8	20.6	39.9	49.4	62.9	67.2	73.2	68.6	63.4	54.9	48.5	26.8	50.3	95	− 9	May 29	Sept. 14
Logan	28.4	24.8	.....	[2]52.0	.....	.....	74.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McConnellsville	28.4	24.4	42.2	48.6	64.4	67.0	74.8	70.0	64.7	56.2	49.6	31.6	51.8	95	− 3	Apr. 24	Oct. 15
Manara	28.1	22.4	42.2	48.4	64.2	68.6	74.5	69.8	63.6	54.7	48.0	29.8	51.2	95	− 8	May 29	Sept. 14
Marietta	30.6	27.2	45.4	52.5	66.6	69.0	75.2	71.1	66.0	57.4	51.5	34.7	53.9	93	4	Apr. 15	Nov. 9
Marion	28.0	21.9	42.0	48.2	63.4	67.3	74.0	69.0	64.0	54.5	48.8	28.2	50.8	96	− 9	May 29	Sept. 14
Medina	25.2	20.4	40.4	45.8	60.8	66.4	73.4	67.7	63.6	53.6	47.4	27.7	49.4	94	−12	May 29	Oct. 20
Milfordton	24.3	18.6	39.9	45.3	61.4	64.8	72.4	67.0	62.0	53.4	46.6	27.0	48.6	93	−10	May 28	Sept. 14
Milligan	27.6	23.0	42.0	48.3	63.8	66.8	73.7	68.8	63.8	55.2	48.4	31.4	51.1	95	− 8	May 10	Sept. 14
Millport	24.8	21.9	39.0	45.4	61.4	64.2	72.0	66.0	61.4	52.1	45.2	27.2	48.4	.....	.....	May 10	Sept. 14
Montpelier	24.5	19.8	39.8	47.6	60.4	63.0	72.3	65.4	60.3	52.6	45.5	25.5	48.1	92	−10	May 29	Sept. 15
Moorefield	28.1	23.6	41.8	46.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 28	Sept. 14
Napoleon	27.2	22.8	43.9	48.2	62.0	66.4	74.3	68.6	62.6	55.6	49.0	27.8	50.7	93	− 7	Apr. 15	Oct. 29
New Alexandria	27.7	23.6	42.6	48.8	64.8	67.6	74.4	69.7	63.7	55.7	49.6	30.6	51.6	97	− 3	May 10	Oct. 15
New Berlin	26.4	21.2	40.8	45.6	61.1	65.0	73.2	67.3	61.6	50.2	44.6	27.4	48.7	93	− 8	May 29	Sept. 14
New Bremen	26.8	21.0	42.2	50.6	64.1	68.3	71.9	.....	63.2	54.7	48.4	26.1	.....	94	−10	May 29	Sept. 14
New Paris	28.3	21.6	42.6	50.2	63.8	68.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Richmond	31.7	23.7	45.1	51.7	67.8	71.8	76.6	74.2	67.3	59.6	52.6	33.6	54.6	97	− 1	Apr. 8	Nov. 9
New Waterford	26.0	21.8	40.4	46.5	62.0	66.8	73.0	66.7	61.5	51.0	46.3	28.6	49.2	.....	.....	May 29	Oct. 8
North Lewisburg	26.7	21.3	41.6	49.0	64.0	67.3	74.0	69.3	63.6	55.5	48.4	28.3	50.8	94	−10	May 11	Sept. 14
North Royalton	25.4	21.6	39.8	45.8	60.0	64.2	72.0	66.1	62.8	53.3	47.5	[2]27.0	48.8	.....	.....	May 29	Oct. 29
*Norwalk	26.8	21.6	40.0	46.4	60.4	66.8	73.7	67.0	63.1	53.7	48.1	27.2	49.6	95	− 7	May 15	Sept. 14
Oberlin	26.5	22.4	40.6	46.4	60.0	65.3	75.6	66.8	63.0	53.6	47.8	29.0	49.8	94	− 6	May 10	Oct. 10
Ohio State University	27.6	21.4	41.7	47.6	63.2	67.4	73.6	68.8	63.1	53.6	48.4	29.5	50.5	94	− 7	May 10	Sept. 14
Orangeville	22.7	19.6	40.8	44.7	58.5	63.3	71.7	65.1	61.6	52.4	45.4	27.0	47.7	91	−17	May 29	Sept. 14
Ottawa	26.4	20.5	41.4	49.4	61.8	66.0	73.4	67.6	61.6	54.7	47.8	26.7	49.8	94	−10	Apr. 15	Sept. 14
Pataskala	26.9	21.3	41.9	48.2	63.4	66.9	73.8	69.0	63.2	54.8	48.1	29.4	50.6	95	− 9	May 29	Sept. 14
Philo	28.6	23.7	42.9	49.8	65.6	69.8	76.2	71.0	67.0	57.8	50.8	31.0	52.8	98	− 3	May 10	Oct. 15
Plattsburg	27.0	20.5	42.1	49.2	64.7	68.2	75.4	70.5	64.8	55.2	48.8	29.4	51.3	98	−10	May 28	Sept. 14
*Pomeroy	30.2	26.4	45.0	50.2	66.6	69.0	76.3	71.4	64.3	57.6	50.6	35.5	53.6	99	3	Apr. 14	Oct. 15
Portsmouth	32.5	28.0	47.5	54.6	69.0	72.3	77.3	74.6	68.2	58.6	52.2	36.2	55.9	98	3	Apr. 8	Nov. 9
Richwood	27.5	21.6	42.4	48.6	63.3	67.6	74.9	69.6	64.0	55.0	48.9	29.2	51.0	95	− 8	Apr. 24	Sept. 14
Ripley	30.1	23.5	42.6	50.4	67.2	69.2	74.3	71.1	64.6	57.6	50.8	32.6	52.8	96	0	Apr. 8	Oct. 14
Rittman	26.2	22.0	42.1	45.6	60.7	66.1	72.2	66.4	61.5	53.0	46.7	28.0	49.1	.....	.....	May 15	Sept. 14
Rockyridge	25.3	22.2	41.5	48.0	60.0	67.6	74.3	67.8	62.8	54.2	48.3	27.4	50.0	94	− 9	May 29	Sept. 14
*Sandusky	26.8	21.5	40.2	46.8	59.2	65.6	74.4	69.0	63.6	54.2	49.4	29.2	50.0	93	− 4	Apr. 5	Nov. 8
Shenandoah	24.2	20.8	40.2	45.8	59.7	64.8	72.2	66.0	61.7	53.0	46.4	27.2	48.5	93	−10	Apr. 24	Sept. 14
Sidney	27.4	22.4	42.7	49.0	65.2	68.6	75.4	70.1	63.4	56.4	49.4	29.1	51.6	96	− 7	May 29	Sept. 14
*Somerset	29.2	23.8	44.3	49.4	66.3	69.6	77.0	72.7	67.5	57.6	51.4	33.2	53.5	.....	.....	Apr. 15	Oct. 15

[1] G. A. Hyde.

[2] Rev. F. Odenbach.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Ohio—Continued.																	
Thurman	31.0	25.9	45.6	51.5	66.2	69.8	74.4	71.6	67.7	57.6	52.4	34.6	54.0	94	0	Apr. 15	Oct. 15
Tiffin	27.0	22.1	41.2	48.0	60.8	67.0	74.4	68.2	63.8	54.5	48.6	28.2	50.3	92	− 5	May 15	Sept. 14
*Toledo	25.6	21.8	39.8	48.2	59.8	66.2	74.6	68.6	62.6	53.4	47.6	27.4	49.6	92	− 7	Apr. 15	Oct. 29
Upper Sandusky	27.6	22.0	42.2	48.9	62.1	67.4	75.0	69.8	63.6	*55.4	49.0	*29.8	51.0	96	− 7	May 29	Sept. 14
Urbana	27.3	21.2	40.4	47.5	62.2	66.3	72.3	67.2	61.2	52.9	46.0	26.2	49.2	90	− 7	Apr. 17	Sept. 14
Vanwert	25.9	19.9	.....	47.6	61.4	.....	71.3	.....	.....	.....	47.2	27.3	.....	.....	.....	Apr. 28	.....
Vickery	26.0	21.2	40.0	47.0	59.1	65.8	74.0	67.5	63.0	54.3	48.2	27.8	49.5	94	− 6	Apr. 24	Sept. 15
Warren	24.6	20.2	40.9	46.0	58.6	64.8	73.8	66.5	62.8	52.8	47.0	28.5	48.9	98	− 7	May 29	Sept. 15
Warsaw	26.0	22.4	41.0	45.9	61.4	65.6	73.2	67.6	62.6	52.4	46.5	29.6	49.5	96	− 8	May 29	Sept. 14
*Wauseon	24.9	21.4	39.8	47.6	60.2	65.6	74.2	68.6	62.0	53.6	47.4	26.3	49.3	95	−10	May 15	Sept. 15
Waverly	30.4	25.7	43.8	51.2	67.0	70.7	76.1	72.6	66.0	57.8	50.9	34.0	53.9	98	− 1	Apr. 17	Oct. 15
Waynesville	28.0	22.3	42.8	50.3	64.8	68.0	78.6	*70.8	64.3	55.7	48.6	29.6	51.6	94	− 6	May 29	Sept. 14
Wellington	26.0	21.9	40.8	46.4	60.8	66.4	74.0	67.4	63.5	53.8	47.6	28.4	49.8	95	− 7	May 15	Oct. 10
Westerville	*25.8	*22.2	39.0	.....	63.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 15	.....
Wooster	26.2	21.4	41.3	46.2	61.4	65.6	73.0	66.4	62.7	54.0	47.4	28.5	49.5	97	− 9	May 15	Sept. 14
Oklahoma.																	
Ames	*34.2	35.6	50.6	.....	.....	76.2	80.8	85.2	68.2	62.8	51.3	.....	.....	107	− 3	.....	Oct. 5
Arapaho	37.8	34.7	52.0	59.2	76.0	76.2	79.4	86.4	72.2	.....	.....	.....	.....	110	− 9	Apr. 8	.....
Beaver	36.8	34.8	47.4	58.4	69.6	74.3	78.3	84.7	66.6	59.4	.....	.....	.....	110	− 8	Mar. 31	Sept. 27
Blackburn	34.8	33.5	50.6	58.8	70.2	73.9	77.9	82.6	63.6	60.6	.....	.....	.....	105	− 4	Apr. 1	.....
Burnett	37.2	38.8	52.7	62.5	71.6	79.6	80.2	84.6	68.6	62.6	54.4	38.4	60.9	107	5	Apr. 1	Nov. 27
*Chandler	37.3	37.7	52.8	62.3	70.8	77.4	79.6	81.6	67.0	62.6	55.4	35.1	60.0	104	3	Mar. 31	Nov. 25
Cleo	.....	.....	.....	.....	.....	.....	.....	80.8	64.2	62.9	50.8	35.6	.....	.....	.....	.....	Oct. 28
Clifton	36.8	36.3	51.9	62.9	70.0	77.7	80.5	84.8	68.4	62.9	56.0	37.3	60.5	107	4	Mar. 31	Nov. 27
Cloud Chief	35.4	34.8	51.6	61.0	69.7	76.6	79.5	84.4	69.0	62.9	52.4	36.4	59.5	106	0	Apr. 1	Nov. 17
*Enid	.....	.....	.....	59.0	69.0	74.8	80.1	84.0	67.6	*62.1	.....	.....	.....	106	.....	.....	.....
Fort Reno	34.5	*35.4	51.8	60.8	70.4	76.8	79.8	83.0	64.9	61.0	52.5	35.8	58.9	107	−10	Mar. 31	Sept. 24
Fort Sill	39.2	41.2	53.6	63.3	70.4	78.3	79.3	84.6	69.5	63.6	53.8	38.3	61.3	105	4	Apr. 1	Nov. 17
Guthrie	38.4	34.8	50.2	61.4	70.2	76.9	79.6	83.6	68.0	64.3	56.5	37.4	60.1	103	− 1	Mar. 31	Nov. 26
Hennessey	38.8	36.0	52.6	62.4	70.5	76.6	80.9	86.2	*68.4	64.1	50.0	35.6	60.2	107	0	Apr. 1	Nov. 17
Jefferson	34.5	33.3	49.6	60.2	71.4	75.7	79.4	83.8	68.8	63.2	51.1	33.7	58.7	108	− 6	Mar. 31	Oct. 28
Jenkins	35.0	33.6	50.9	59.6	*70.2	75.0	78.3	82.8	68.6	62.4	50.4	33.6	58.4	106	− 4	Apr. 1	Nov. 14
Kenton	35.2	38.4	43.2	55.8	66.0	74.0	75.5	78.0	66.6	.....	45.1	35.8	.....	105	− 7	Apr. 23	.....
Kingfisher	36.6	36.4	51.2	61.8	70.3	77.4	80.3	85.2	69.7	64.4	52.4	36.9	60.2	106	0	Apr. 1	Nov. 17
*Mangum	39.7	41.4	53.6	63.3	73.1	80.2	83.5	88.2	71.0	64.4	53.8	.....	.....	114	3	Mar. 17	Nov. 17
Newkirk	31.8	33.6	49.0	59.8	70.8	75.9	79.3	83.6	65.6	62.7	52.1	33.3	58.1	106	− 1	Mar. 31	Nov. 17
Norman	35.8	36.1	51.8	60.4	70.2	76.9	*79.0	83.8	68.2	63.2	53.3	.....	.....	105	1	Mar. 31	Nov. 16
*Oklahoma	35.8	35.4	51.0	61.3	70.2	77.0	78.9	83.2	67.4	63.0	53.0	36.4	59.4	101	0	Mar. 30	Nov. 17
Pawhuska	34.0	32.1	50.0	59.2	72.4	78.2	81.1	83.5	66.0	61.1	53.2	34.4	58.8	112	−10	Apr. 1	Nov. 26
Perry	35.6	34.2	50.6	60.7	69.8	75.6	79.8	84.6	68.0	62.7	52.8	35.3	59.1	105	− 4	Mar. 31	Nov. 17
Sac and Fox Agency	.....	.....	.....	61.4	70.8	78.0	79.9	85.6	70.0	61.9	53.4	36.4	.....	107	.....	.....	Nov. 27
*Shawnee	38.2	37.6	52.8	63.2	71.4	78.4	79.9	83.9	66.2	63.2	.....	*36.2	.....	105	4	Apr. 1	.....
*Stillwater	.....	36.2	51.5	60.8	69.9	75.9	79.6	83.2	66.2	61.2	53.9	36.2	.....	104	.....	Mar. 31	Nov. 27
Taloga	35.4	35.8	48.8	59.1	69.6	75.0	80.2	85.4	68.6	62.4	51.3	36.0	59.0	111	− 1	Apr. 1	Oct. 5
Temple	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.4	.....	.....	.....	.....	.....
Ural	.....	.....	.....	.....	.....	.....	.....	.....	66.4	62.2	52.2	.....	.....	.....	.....	.....	Nov. 14
Watonga	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.0	37.6	.....	.....	.....	.....	.....
Waukomis	36.6	35.0	50.9	60.3	70.9	76.4	80.2	85.0	68.2	63.4	51.4	36.0	59.5	107	0	Apr. 1	Nov. 17
*Weatherford	38.4	38.2	53.0	61.6	72.8	78.3	80.7	85.4	69.5	63.9	.....	34.2	.....	110	− 2	Apr. 1	.....
Oregon.																	
Albany (*a*)	38.9	46.6	44.5	48.5	55.3	60.8	68.0	65.6	58.3	.....	.....	.....	.....	.....	.....	Apr. 23	Sept. 27
Alpha	38.6	46.8	44.5	48.0	53.9	57.4	61.0	62.6	59.6	54.8	45.0	41.4	51.1	100	16	Apr. 24	Oct. 1
Arlington	.....	.....	.....	52.4	59.8	65.5	70.2	72.6	63.9	55.8	42.8	34.8	.....	101	− 2	Apr. 9	Nov. 19
Ashland	37.9	44.8	43.2	48.6	54.4	61.0	65.2	68.1	62.6	54.5	42.8	39.2	51.9	102	12	Apr. 27	Sept. 28
*Astoria	40.8	46.6	44.6	48.0	53.2	57.6	60.3	61.6	58.1	55.6	47.4	43.8	51.5	86	19	Feb. 5	Dec. 16
Aurora (*a*)	39.4	47.2	45.5	51.3	57.5	62.6	65.8	68.0	61.4	56.0	45.2	40.6	53.4	.....	.....	Apr. 12	Nov. 25
Aurora (near)	37.2	45.2	44.5	48.7	55.8	59.4	62.4	64.4	59.6	53.6	44.2	39.3	51.2	99	10	Apr. 13	Nov. 20
*Baker City	26.2	34.8	35.8	43.8	52.1	57.8	62.2	64.5	57.0	49.4	36.5	28.8	45.7	96	− 8	June 17	Sept. 28
Bay City	42.4	47.2	43.6	46.8	51.4	55.0	57.0	57.4	54.8	53.9	46.5	42.8	49.9	90	18	Mar. 29	Nov. 19
Bend	*28.2	37.0	*34.8	40.8	47.8	52.4	57.8	60.1	54.0	45.6	36.1	31.4	43.8	97	−19	(†)	(†)
Beulah	24.0	34.2	36.1	45.1	†47.8	64.4	66.1	67.6	57.8	48.8	35.2	25.9	46.1	105	−16	(†)	(†)
Blackbutte	40.4	47.2	43.5	50.2	55.4	61.3	64.3	66.0	60.2	51.6	43.0	38.0	51.8	97	13	Apr. 22	Nov 4
Blalock	32.4	38.6	47.4	53.4	62.2	70.0	73.4	77.1	66.4	57.6	44.5	35.3	54.9	107	− 2	Apr. 12	Oct. 24
Brownsville (*a*)	42.8	49.6	48.2	51.3	55.9	63.4	66.2	67.8	61.1	54.7	48.2	43.9	54.4	.....	.....	Mar. 29	Nov. 20
Burns	26.2	34.8	35.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−20	.....	.....
Cascade Locks	37.6	39.2	43.9	49.4	57.2	60.8	65.0	67.1	61.6	55.8	43.6	35.0	51.4	98	7	Apr. 13	Nov. 20
Comstock (*a*)	41.0	46.8	46.5	51.2	54.5	58.5	61.4	61.6	56.0	51.5	43.6	39.8	51.0	.....	.....	Apr. 22	Nov. 4
Corvallis	37.7	45.6	44.8	48.4	55.1	60.6	63.6	66.0	60.1	53.6	44.2	40.2	51.7	98	11	Apr. 23	Sept. 27
Dayville	33.3	41.8	41.7	49.0	56.0	59.6	63.5	65.3	58.8	52.1	41.6	38.0	50.0	.....	− 3	May 4	Aug. 29
Detroit	35.2	39.9	40.6	46.8	53.6	59.0	62.6	65.4	58.8	52.4	.....	.....	.....	106	5	Apr. 24	Aug. 28
Doraville	.....	.....	41.2	46.7	53.6	57.4	61.4	64.0	58.4	53.0	41.8	37.2	.....	98	.....	Apr. 23	Nov. 5
Eugene	38.6	46.8	44.6	49.2	55.0	59.7	63.0	65.2	60.2	54.4	45.8	41.8	52.0	97	14	Mar. 29	Nov. 4
Fairview	40.9	47.2	.....	49.2	54.0	56.7	*59.9	59.8	.....	54.6	47.8	47.2	.....	93	19	Apr. 27	Nov. 5
Falls City	36.9	44.0	42.5	46.6	53.1	57.0	60.8	63.2	57.8	51.3	42.6	38.8	49.6	100	13	Apr. 27	Nov. 4
Forestgrove	38.4	44.8	44.3	48.6	†55.8	.....	.....	.....	.....	54.9	43.8	39.0	.....	.....	7	May 18	Nov. 5
Gardiner	43.2	49.2	45.4	46.6	49.8	52.0	55.3	56.6	60.0	56.9	50.8	47.6	52.0	93	23	Mar. 24	Nov. 20
Glenora	36.8	41.5	41.0	45.8	53.0	56.8	60.6	63.0	58.2	51.8	42.2	37.8	49.0	100	12	Apr. 13	Nov. 5
Government Camp	29.5	34.4	31.2	36.1	42.2	47.8	52.2	55.6	52.9	48.2	34.2	†31.3	41.3	87	−11	(†)	(†)
Grants Pass	37.8	45.4	45.1	49.4	56.4	62.2	66.2	69.6	62.6	53.8	43.5	39.7	52.6	107	16	May 4	Sept. 17
Grass Valley	.....	.....	.....	.....	.....	.....	.....	.....	.....	48.6	38.4	29.1	.....	.....	.....	.....	Oct. 1
Hare	44.0	46.7	42.9	46.7	50.6	56.4	57.8	60.6	.....	.....	.....	.....	.....	92	21	Mar. 24	.....
Heppner	31.0	40.4	42.7	48.4	55.6	61.3	66.9	67.0	63.2	54.4	42.4	34.2	50.6	103	−16	May 30	Sept. 28
Hood River (near)	32.8	37.7	43.1	48.4	56.4	60.4	64.6	66.5	60.5	54.2	41.4	32.8	49.9	98	− 3	Apr. 13	Sept. 29
Huntington	29.4	38.8	44.2	53.1	61.0	69.0	74.4	77.2	64.4	55.1	39.7	31.0	53.1	103	− 9	May 2	Oct. 21
Jacksonville	37.1	44.2	44.4	49.8	54.7	62.6	67.8	70.6	65.0	55.0	41.2	38.1	52.5	104	14	Apr. 13	Sept. 28
Joseph	22.9	30.5	32.0	39.0	48.2	52.8	57.6	60.4	53.1	46.6	32.4	26.1	41.8	90	−21	(†)	(†)
Junction (*a*)	41.6	49.3	46.2	49.7	56.3	62.6	66.0	68.3	61.9	57.2	47.4	44.4	54.2	.....	.....	Mar. 29	Nov. 26
Kerby	38.8	45.4	43.2	48.2	54.2	61.9	65.0	68.0	61.5	52.3	42.9	39.6	51.8	105	17	May 3	Sept. 17

†Every month.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Oregon—Continued.																	
Klamath Falls	30.2	37.8	38.6	45.2	52.8	60.7	63.2	63.3	54.0	°47.4	38.4	33.3	48.3	103	− 5	(†)	(†)
Lafayette (a)	39.7	46.7	45.5	51.7	58.4	63.4	67.9	69.8	63.3	54.9	44.5	40.8	53.9	.....	.....	Apr. 12	Nov. 3
Lagrande	30.6	37.0	38.8	44.9	52.0	62.0	63.6	66.2	57.8	50.6	38.2	32.8	47.9	100	−10	June 5	Sept. 17
Lakeview	29.6	35.2	33.4	39.2	46.0	51.5	64.2	61.6	53.0	43.0	31.3	.....	.....	102	−13	(†)	(†)
Lonerock	30.6	37.0	.....	.....	.....	55.8	60.6	63.0	56.6	52.2	39.4	33.1	.....	95	−16	.....	Sept. 24
McKenzie Bridge	.....	41.9	.....	47.0	53.6	58.9	62.6	64.5	59.8	53.6	40.8	34.9	.....	107	.....	June 17	Sept. 17
McMinnville	38.4	45.4	44.8	48.4	55.4	59.4	63.2	64.7	60.0	54.6	44.4	40.0	51.6	101	6	Apr. 13	Sept. 16
Merlin (a)	38.8	46.7	47.6	51.0	56.9	64.8	.....	.....	62.8	52.6	44.8	42.0	.....	.....	.....	Apr. 27	Nov. 20
Monmouth (a)	38.7	44.2	42.9	48.6	53.9	59.2	63.4	63.2	60.8	54.3	43.4	40.2	51.1	.....	.....	Apr. 23	Nov. 20
Monroe	37.5	46.2	44.1	48.4	55.1	59.1	63.6	66.2	.....	54.3	44.4	40.6	.....	99	14	Apr. 12	Sept. 28
Mount Angel	.....	46.0	45.0	49.2	55.4	60.2	64.2	66.6	60.8	54.2	44.4	39.7	.....	100	.....	Mar. 29	Nov. 5
Newberg	37.6	45.8	44.6	48.2	55.0	59.2	63.3	64.8	60.5	54.3	43.8	39.3	51.4	101	9	Apr. 12	Nov. 3
Newport	44.2	48.9	44.7	48.6	52.6	55.5	56.5	56.5	54.8	55.2	48.4	45.0	50.9	88	17	Mar. 24	.....
Pendleton	32.2	42.2	°48.7	‡51.8	59.7	64.6	70.0	71.3	63.2	.....	43.0	35.3	.....	104	− 5	Apr. 14	Sept. 28
Pine	20.6	34.8	38.6	46.4	55.6	58.4	65.2	°65.4	56.2	52.4	38.3	23.8	46.3	105	−27	(†)	(†)
*Portland	38.4	44.6	45.0	49.0	56.2	61.4	65.2	66.8	62.0	56.6	46.1	40.4	52.6	97	13	Mar. 28	Nov. 23
Prineville	.....	41.0	.....	.....	57.2	58.8	65.7	64.4	59.8	52.4	42.5	36.2	.....	99	− 9	May 23	Sept. 4
Riddles (a)	41.3	47.6	44.9	50.1	56.6	62.4	65.7	65.0	61.4	55.1	46.0	42.4	53.2	.....	.....	Mar. 29	Nov. 28
Riverside	°24.4	.....	.....	46.2	.....	.....	67.4	68.0	.....	b49.8	38.6	.....	.....	105	−17	.....	Aug. 17
*Roseburg	40.8	47.9	45.6	50.1	56.1	60.7	64.6	66.8	61.5	55.1	46.2	42.4	53.2	99	19	Mar. 29	Dec. 17
Salem	38.8	46.2	45.0	49.5	55.8	60.9	65.9	.....	59.6	53.6	44.0	41.3	.....	.....	7	Apr. 23	Sept. 22
Sheridan (a)	40.6	45.8	45.6	46.8	56.4	61.7	67.4	64.6	61.8	55.1	48.0	42.5	53.0	.....	.....	Apr. 10	Nov. 20
Silverlake	29.1	37.0	34.0	41.4	47.6	54.8	.....	.....	.....	.....	.....	32.0	.....	.....	−22	June 30	.....
Silverton (a)	37.8	46.9	46.9	52.0	58.1	66.4	69.0	66.0	58.2	57.5	49.6	44.6	54.4	.....	.....	Mar. 14	Nov. 22
Siskiyou (a)	37.4	39.4	37.2	44.0	58.2	62.2	67.2	68.2	65.6	54.0	40.7	36.4	50.5	.....	.....	May 20	Nov. 4
Smock	28.9	35.4	39.9	45.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−10	.....	.....
Sparta	24.6	33.2	33.0	42.8	51.9	58.8	63.8	70.2	58.2	50.5	35.4	28.2	45.9	98	−14	June 6	Sept. 25
Springfield (a)	39.4	45.8	45.6	49.3	.....	.....	67.6	67.2	59.6	49.8	41.9	40.2	.....	.....	.....	Mar. 29	Nov. 5
Stafford	36.8	45.0	44.2	48.4	54.6	59.1	63.7	68.0	.....	.....	.....	.....	.....	103	10	Apr. 12	Sept. 28
The Dalles	32.8	38.5	45.4	52.2	61.3	65.1	69.7	71.0	63.2	54.8	43.0	34.4	52.6	101	− 2	Apr. 13	Nov. 5
Toledo	43.0	48.5	45.1	48.6	53.7	58.3	60.9	62.6	60.4	56.7	48.0	43.9	52.5	97	15	Apr. 10	Nov. 19
Umatilla	.....	.....	.....	.....	62.2	68.0	73.4	75.6	65.0	56.4	43.8	34.1	.....	105	.....	.....	Nov. 5
Vale	24.6	35.2	39.8	48.2	55.5	62.2	65.6	67.4	58.5	48.6	38.0	27.9	47.6	99	−14	(†)	(†)
Wamic	.....	.....	.....	.....	54.1	59.4	64.7	.....	58.4	51.8	40.0	30.4	.....	105	.....	July 7	Sept. 16
Warm Spring	.....	.....	.....	.....	°55.7	61.6	66.0	68.0	60.2	52.4	41.8	33.1	.....	102	.....	May 29	Aug. 18
Westfork (a)	42.5	48.2	44.6	48.0	53.6	59.8	.....	60.4	58.8	53.3	.....	.....	.....	.....	.....	Apr. 27	Sept. 29
Weston	26.4	37.9	40.7	45.4	53.3	58.6	63.6	65.9	57.4	51.3	38.6	32.3	47.6	99	−15	June 16	Sept. 19
Williams	39.2	45.6	45.5	49.6	55.3	61.2	63.4	67.6	61.4	52.6	44.8	40.4	52.2	101	15	May 5	Sept. 17
Pennsylvania.																	
Aleppo	27.8	24.9	43.2	48.0	63.2	66.2	73.4	68.0	63.7	55.9	49.7	31.3	51.3	92	− 9	May 15	Oct. 14
Altoona	25.5	21.6	39.4	°49.5	60.8	65.2	71.5	67.0	61.7	53.0	°45.6	28.0	49.1	94	− 2	May 29	Sept. 15
Athens	21.6	22.8	39.2	47.2	56.6	63.2	70.6	66.2	61.5	51.2	°44.5	26.4	47.7	92	− 6	Apr. 28	Oct. 10
Bellefonte	27.2	24.8	43.4	50.6	62.6	67.2	73.0	68.9	63.9	54.5	48.8	30.0	51.2	91	− 3	May 29	Oct. 10
California	29.5	26.4	43.4	49.2	64.8	66.8	74.8	70.0	66.8	57.4	51.5	34.9	53.0	94	− 1	Apr. 4	Oct. 15
Cassandra	24.5	21.1	38.8	45.1	58.1	62.7	68.8	64.2	60.0	50.4	45.0	27.2	47.2	89	− 4	May 10	Oct. 22
Centerhall	20.8	.....	.....	.....	.....	.....	.....	.....	.....	51.2	47.3	28.2	.....	.....	.....	.....	Oct. 15
Coatesville	28.8	27.9	44.3	51.0	61.8	69.3	75.4	71.4	65.3	55.8	49.4	31.3	52.6	97	5	Apr. 10	Oct. 22
Derry Station	28.4	23.9	41.9	‡46.2	61.6	66.5	72.4	67.6	63.8	56.8	48.1	30.7	50.6	91	0	May 29	Oct. 15
Drifton	23.7	‡24.1	40.9	45.4	55.4	65.5	67.5	.....	.....	.....	.....	.....	.....	.....	.....	May 28	.....
Dushore	20.7	20.7	37.4	45.4	54.8	62.0	68.3	63.4	58.2	48.1	41.8	23.8	45.4	90	−11	May 28	Sept. 15
Dyberry	18.3	19.8	37.8	‡44.2	.....	.....	67.1	62.3	58.8	48.4	43.2	22.3	.....	86	−13	.....	Sept. 6
East Mauch Chunk	25.1	25.2	41.9	49.4	60.2	66.4	72.2	68.0	62.7	51.8	46.2	28.1	49.8	94	− 3	May 29	Oct. 10
Easton	26.6	26.4	43.2	51.0	61.2	68.6	73.0	68.6	63.3	53.8	47.4	28.0	50.9	91	5	Apr. 15	Oct. 22
Emporium	24.0	22.7	40.1	47.2	58.8	63.7	70.4	65.9	60.5	50.9	45.2	27.0	48.0	89	− 8	May 29	Oct. 22
Ephrata	27.4	25.8	43.4	50.2	61.2	68.2	74.6	70.9	65.0	55.9	49.2	29.3	51.8	94	2	May 29	Oct. 10
*Erie	25.4	21.0	39.2	45.7	55.8	62.5	71.0	66.7	63.9	52.8	49.0	28.8	48.5	88	− 2	Apr. 8	Nov. 8
Everett	°26.1	°22.0	‡38.6	°47.1	60.2	64.8	72.1	‡66.8	°61.7	‡52.7	°46.4	‡28.2	48.9	94	0	Apr. 27	Oct. 21
Forks of Neshaminy (a)	27.0	27.2	42.2	49.6	60.2	65.7	73.2	°69.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Franklin	24.4	21.7	41.1	45.8	58.4	63.1	71.0	65.4	61.8	52.0	47.0	25.9	48.1	92	−14	May 29	Oct. 10
Grampian	22.8	20.0	37.9	46.0	57.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 10	.....
Hamburg	.....	.....	.....	.....	.....	.....	.....	70.0	64.1	54.2	47.6	29.2	.....	.....	.....	.....	Oct. 22
Hamlinton	20.0	19.8	36.6	44.4	54.4	62.2	.....	65.0	58.0	49.0	43.0	.....	.....	.....	.....	May 27	Oct. 10
*Harrisburg	27.6	26.6	43.3	51.0	62.0	69.0	74.3	70.6	64.3	55.1	48.8	30.0	51.9	96	7	Apr. 4	Nov. 29
Hawthorn	25.4	‡19.8	41.4	45.9	59.6	64.3	71.3	67.8	62.2	.....	.....	.....	.....	.....	.....	May 17	.....
Huntingdon	27.8	25.4	41.4	49.0	61.6	66.6	72.6	68.8	62.8	54.7	50.0	29.8	50.9	100	− 1	May 29	Oct. 15
Irwin	.....	.....	.....	.....	66.0	66.5	73.3	67.6	63.4	52.4	48.6	30.2	.....	96	− 4	.....	Oct. 8
Johnstown	28.6	25.0	42.9	49.1	63.2	68.2	74.6	69.4	64.2	55.4	49.7	30.8	51.8	97	− 2	May 29	Oct. 15
Kennett Square	30.2	°28.4	44.6	.....	61.6	68.6	73.8	‡71.8	64.0	55.2	49.8	31.5	.....	91	5	May 29	Oct. 22
Lancaster	26.8	25.4	‡43.2	.....	‡63.6	71.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville	20.8	21.2	37.4	44.2	56.7	62.5	69.0	65.3	60.8	°49.5	44.2	24.2	46.3	91	−12	May 10	Oct. 9
Lebanon	27.4	26.2	43.4	50.4	61.6	68.6	74.0	°69.1	63.8	54.8	°48.2	28.4	51.3	96	0	May 29	Oct. 11
Leroy	21.0	20.4	37.3	45.5	56.2	62.2	69.0	65.9	60.7	49.3	44.8	24.4	46.4	88	− 5	May 29	Oct. 10
Lewisburg	25.5	24.0	42.0	50.0	60.5	66.4	72.4	68.5	62.9	52.4	46.7	26.6	49.8	92	− 5	May 29	Oct. 10
Lockhaven	26.3	25.4	43.2	51.0	63.4	68.0	73.8	70.0	64.4	54.2	47.8	28.6	51.3	93	0	May 29	Oct. 22
Lycippus	25.4	21.9	41.1	46.9	61.6	66.6	72.5	68.8	65.4	54.4	50.3	30.6	50.5	90	− 2	May 11	Oct. 29
*Philadelphia	31.2	29.7	46.2	52.6	62.6	70.4	75.6	73.0	67.1	58.0	50.9	33.7	54.2	95	12	Mar. 20	Nov. 29
Philadelphia[1]	31.7	30.0	46.6	52.8	63.4	71.4	76.1	73.0	67.0	58.0	51.4	34.0	54.6	96	13	Mar. 20	Nov. 29
*Pittsburg	30.4	26.7	44.2	50.5	64.5	68.4	75.4	71.0	66.2	57.6	51.2	32.2	53.2	93	2	Apr. 28	Nov. 9
Pocono Lake	20.0	19.4	35.6	43.5	54.4	61.0	66.2	62.3	57.7	48.9	43.0	23.5	44.6	85	−12	May 30	Sept. 17
Pottstown	31.6	29.4	46.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Quakertown	27.8	26.3	43.2	50.0	60.4	67.6	73.4	69.4	64.0	54.9	48.6	29.2	51.2	93	1	May 29	Oct. 10
Reading (b)	26.7	25.7	42.8	50.4	61.6	68.2	73.2	69.2	62.3	53.4	46.4	29.6	50.8	.....	.....	.....	.....
Renovo	.....	.....	.....	48.6	61.2	.....	71.5	67.6	61.8	52.8	47.2	28.3	.....	.....	.....	May 28	Oct. 21
Saegerstown	22.6	19.4	39.8	49.7	57.6	62.2	70.3	64.8	61.2	50.6	46.4	26.2	47.1	92	−24	May 29	Oct. 8
St. Marys	21.2	19.4	37.8	44.8	57.2	61.2	67.8	63.8	58.8	49.8	42.7	23.2	45.6	.....	− 5	May 10	Sept. 15
*Scranton	24.6	24.3	40.8	48.4	58.3	65.0	71.0	67.4	62.0	51.5	45.6	27.2	48.8	90	2	May 10	Oct. 10
Selinsgrove	27.4	24.9	43.2	51.0	60.9	66.8	72.8	68.8	63.6	54.2	48.2	28.4	50.8	91	− 3	May 31	Oct. 10
Smethport	21.0	20.4	37.7	43.5	55.3	.....	68.0	64.0	59.0	49.2	43.6	24.2	.....	.....	.....	May 29	Sept. 15

[1] John Comley. † Every month.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
Pennsylvania—Continued.														Max.	Min.		
Somerset	19.4	16.5	41.8	47.7	57.2	61.6	67.5	63.6	60.4	51.8	47.8	26.9	46.8	90	−16	May 29	Sept. 13
South Bethlehem	26.5	25.8	42.7	50.6	61.0	68.2	73.1	69.0	62.6	54.1	48.8	29.0	51.0	92	6	Apr. 16	Oct. 10
South Eaton	24.0	24.8	40.8	48.6	58.2	64.6	70.8	66.2	61.3	52.2	45.6	26.9	48.7	88	− 1	May 10	Sept. 6
State College	24.6	20.9	39.6	46.9	58.8	64.2	70.6	65.9	61.1	51.6	46.0	27.2	48.1	89	− 1	May 29	Oct. 10
Swarthmore	28.4	.....	43.5	51.6	.....	70.5	.....	[1]71.0	65.7	55.2	48.9	.....	.....	.....	.....	Apr. 3	.....
Towanda	21.9	22.4	39.8	47.6	57.6	63.8	70.2	66.6	61.0	51.2	44.5	25.8	47.7	89	− 7	May 15	Oct. 10
Uniontown	30.8	26.8	44.2	49.4	64.3	68.7	75.4	70.6	66.2	57.2	51.4	34.6	53.3	90	4	Apr. 8	Nov. 28
Warren	23.4	22.8	35.2	39.2	53.7	62.4	69.9	65.4	61.2	[2]53.0	45.4	25.8	46.4	91	− 9	May 15	Oct. 21
Wellsboro	23.4	24.6	39.9	46.6	55.7	62.1	69.8	66.2	60.8	50.4	45.8	27.3	47.7	92	− 5	May 29	Sept. 6
Westchester	28.5	26.9	43.8	50.7	61.6	69.4	75.0	71.8	65.6	56.4	50.2	31.2	52.6	93	6	Apr. 4	Oct. 22
Westtown	28.0	28.4	43.8	.....	61.0	70.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 29	.....
Wilkesbarre	25.8	25.4	41.2	48.4	59.4	66.4	72.2	68.2	62.9	51.9	45.8	29.2	49.7	95	6	May 1	Oct. 22
Williamsport	24.6	23.4	40.3	48.2	60.2	67.2	71.9	68.2	62.7	54.0	47.4	29.0	49.8	93	3	Apr. 15	Oct. 30
York	28.6	26.5	43.6	51.3	63.5	70.0	75.8	71.1	64.6	55.5	49.6	30.0	52.5	99	4	Apr. 5	Oct. 22
Rhode Island.																	
*Block Island	29.0	29.4	40.4	45.2	52.6	60.8	66.1	66.9	63.6	55.4	48.6	33.3	49.3	80	− 1	Apr. 4	Nov. 29
Bristol	27.9	28.7	41.3	46.8	55.6	63.4	67.0	.....	63.8	54.6	46.5	30.6	.....	79	− 5	Mar. 25	Nov. 29
Kingston	24.8	26.0	40.0	45.7	54.3	62.6	67.0	66.8	61.9	52.0	44.8	27.2	47.8	90	−12	May 10	Oct. 10
*Narragansett	27.0	27.8	40.4	45.6	53.9	62.8	67.4	66.8	63.2	53.7	46.0	29.4	48.7	88	− 5	.....	Oct. 11
Pawtucket	27.3	28.4	42.5	49.2	59.0	66.6	70.6	70.2	64.3	54.0	47.6	29.0	50.7	.....	.....	.....	.....
Providence[1]	27.8	28.8	43.8	50.0	60.4	67.8	71.1	70.1	64.2	54.4	46.8	30.0	51.3	93	− 6	Mar. 26	Nov. 28
Providence[2]	26.0	27.1	42.0	47.2	57.1	64.6	68.4	68.0	63.0	52.9	45.6	27.9	49.1	.....	.....	.....	.....
South Carolina.																	
Aiken	44.3	42.2	55.9	61.3	.....	81.3	79.4	78.8	80.6	69.6	60.6	48.4	.....	104	14	Apr. 2	Nov. 28
*Allendale	42.6	43.8	56.7	62.9	76.6	79.8	85.0	76.0	74.4	66.7	60.6	48.8	64.5	103	19	Mar. 19	Nov. 28
Anderson	42.2	39.2	52.3	[3]61.4	74.8	79.0	81.6	79.0	71.5	63.6	58.2	44.8	62.3	105	13	Apr. 2	Nov. 28
Barksdale	41.2	36.0	51.0	57.0	76.0	80.0	80.4	79.9	.....	.....	.....	[4]48.6	.....	102	11	Mar. 23	.....
*Batesburg	42.8	42.8	53.4	60.0	74.1	78.0	81.2	76.7	70.4	62.5	58.0	46.1	62.2	104	11	Mar. 19	Nov. 28
Beaufort	49.4	46.4	58.1	64.0	75.6	79.9	83.1	80.6	76.2	69.7	64.0	53.6	66.7	104	24	Mar. 19	Nov. 28
Bennettsville	.....	.....	.....	.....	.....	.....	.....	78.6	72.6	65.6	59.4	47.5	.....	.....	.....	.....	Nov. 28
Blackville	44.2	42.8	56.2	62.7	77.4	79.6	83.2	80.1	73.5	66.2	60.2	47.6	64.5	105	17	Mar. 20	Nov. 28
Bowman	45.6	43.5	56.8	62.8	75.8	78.8	82.0	78.4	73.2	65.8	60.0	51.5	64.5	103	16	Mar. 20	Nov. 28
*Charleston	47.2	44.4	57.3	62.2	74.8	79.6	82.8	80.4	75.3	69.0	63.2	52.4	65.7	103	23	Mar. 19	Nov. 28
*Cheraw	39.7	36.9	52.4	58.6	71.8	77.1	80.8	77.2	71.4	63.6	57.0	44.6	60.9	104	16	Apr. 2	Nov. 28
Clarks Hill	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.4	.....	.....	.....	.....	.....
Clemson College	38.4	38.4	49.6	58.2	72.7	77.2	79.4	77.3	69.4	60.8	54.8	41.4	59.8	100	11	Mar. 20	Nov. 27
*Columbia	43.1	41.0	54.6	61.0	74.2	78.4	82.3	78.5	72.4	65.1	59.6	47.3	63.1	101	18	Mar. 19	Nov. 28
Conway	43.0	42.2	55.0	60.6	72.0	77.5	82.1	79.4	73.4	66.2	59.6	47.8	63.2	104	18	Apr. 2	Nov. 28
Darlington	41.5	40.2	54.0	61.0	73.6	79.3	82.9	79.2	73.0	65.2	58.8	46.3	62.9	107	15	Apr. 2	Nov. 27
Due West	41.0	39.5	53.3	60.1	74.8	.....	.....	78.6	71.5	64.2	59.8	46.4	.....	.....	17	Mar. 19	Nov. 28
*Florence	40.8	40.4	53.7	60.1	74.4	79.8	84.4	79.4	72.1	65.2	59.2	46.8	63.0	107	19	Mar. 20	Nov. 28
Gaffney	37.9	36.2	51.3	58.0	74.6	78.2	81.6	79.0	71.2	62.7	56.8	42.3	60.8	105	15	Apr. 2	Nov. 28
Georgetown	49.1	.....	58.9	63.0	74.0	80.7	.....	79.8	.....	68.0	60.2	49.6	.....	.....	20	Mar. 19	Nov. 28
Gillsonville	47.2	45.2	56.8	62.8	74.8	79.3	83.2	79.7	74.4	66.3	60.8	50.4	65.1	107	11	Apr. 2	Nov. 28
*Greenville	36.8	35.4	47.6	54.9	69.9	73.5	77.1	74.3	66.5	59.0	53.7	40.6	57.4	96	12	Apr. 9	Nov. 28
*Greenwood	39.6	37.8	51.8	58.8	74.0	78.5	80.6	78.4	72.0	62.4	56.8	43.0	61.1	103	17	Apr. 2	Nov. 28
Heath Spring	40.6	38.2	51.5	58.8	72.4	77.4	82.8	79.4	72.6	62.8	55.0	42.0	61.1	105	14	Mar. 19	Nov. 28
*Kingstree	41.9	41.0	54.1	59.0	71.7	76.5	80.7	77.3	71.6	64.3	58.2	49.0	62.1	100	16	Apr. 2	Nov. 28
Liberty	40.0	38.2	51.5	58.6	74.0	78.7	80.4	79.0	70.0	61.2	55.8	42.7	60.8	105	12	Apr. 9	Nov. 28
Little Mountain	41.8	40.2	54.0	60.5	74.2	79.2	82.7	79.0	73.0	64.6	58.8	46.2	62.8	105	15	Apr. 9	Nov. 28
Longshore	40.6	39.6	53.4	59.4	74.0	78.8	[5]82.3	78.4	71.4	63.8	58.0	45.2	62.1	104	15	Apr. 9	Nov. 28
Lugoff	41.4	39.7	54.6	60.8	73.6	78.5	82.0	78.9	72.8	65.1	58.8	.....	.....	105	15	Apr. 8	Nov. 28
Pinopolis (a)	45.1	43.9	57.1	63.7	74.6	79.2	.....	79.4	73.4	67.1	62.1	52.0	.....	.....	20	.....	.....
*St. George	43.4	41.6	55.6	61.5	74.8	78.2	82.3	78.8	72.4	66.0	59.4	48.9	63.6	100	18	Apr. 2	Nov. 28
*St. Matthews	42.8	41.9	55.2	61.9	73.8	77.7	82.0	78.6	72.0	65.6	59.2	47.9	63.2	100	18	Apr. 2	Nov. 28
Saluda	.....	.....	.....	60.6	75.4	79.4	82.6	79.0	71.4	63.5	57.6	45.0	.....	104	.....	Apr. 9	Nov. 28
Santuck	38.8	37.6	52.2	57.8	72.0	77.3	81.0	77.8	70.2	62.4	55.8	44.0	60.6	104	13	Apr. 9	Nov. 28
Seivern	43.2	41.2	54.7	60.8	74.3	78.1	82.0	78.5	72.6	64.1	60.2	48.6	63.2	106	11	Apr. 7	Nov. 28
Societyhill	41.0	39.7	54.0	60.7	73.4	79.1	82.3	78.4	71.7	64.0	57.8	45.4	62.3	100	18	Mar. 19	Nov. 28
*Spartanburg	37.7	37.3	50.6	57.8	73.4	76.6	79.7	77.4	69.5	61.2	55.8	42.0	59.9	101	15	Mar. 20	Nov. 28
Statesburg	44.4	41.9	56.6	62.4	74.4	78.8	83.0	78.4	73.2	65.9	60.6	48.8	64.0	104	17	Apr. 9	Nov. 28
Summerville	46.8	44.4	56.8	62.2	73.4	77.2	81.6	78.2	72.2	65.6	60.6	49.9	64.1	102	18	Mar. 18	Nov. 27
Sumter	44.2	43.0	56.4	61.5	73.3	77.8	.....	.....	71.5	65.6	57.8	.....	.....	105	19	Mar. 20	Nov. 28
Temperance	42.0	41.2	53.4	[6]61.0	72.6	78.0	82.3	[7]79.4	73.3	.....	58.2	[8]45.8	.....	105	11	Apr. 2	Nov. 27
Trenton	42.6	41.1	54.1	60.6	75.0	79.0	82.4	78.6	72.4	64.0	59.6	[9]46.6	63.0	104	16	Mar. 19	Nov. 28
Trial	44.2	41.6	51.9	60.0	73.0	77.4	81.6	77.8	71.7	64.3	63.7	51.3	63.2	103	10	Apr. 9	.....
Walhalla	38.4	38.0	48.9	57.2	.....	74.8	77.3	75.6	66.8	.....	.....	.....	.....	99	13	Apr. 8	.....
Winnsboro	40.8	39.9	53.6	59.8	73.6	77.9	82.6	78.7	72.2	64.4	58.6	43.4	62.1	104	15	Apr. 9	Nov. 28
Winthrop College	39.8	37.2	55.1	58.5	73.0	77.2	80.4	77.3	70.6	63.0	57.8	43.3	61.1	100	15	Apr. 9	Nov. 28
*Yemassee	43.8	43.0	56.4	61.8	75.8	80.2	83.5	80.4	74.0	66.3	61.2	49.2	64.6	103	18	Mar. 19	Nov. 28
Yorkville	41.2	40.0	54.4	60.8	75.9	79.3	82.0	79.1	72.1	64.6	59.6	44.8	62.8	102	15	Apr. 9	Nov. 28
South Dakota.																	
*Aberdeen	15.0	12.5	30.4	44.0	59.4	61.4	71.6	67.6	55.6	46.0	33.2	8.2	48.7	106	−31	June 21	Sept. 4
Academy	22.9	19.9	35.4	46.4	61.2	64.4	74.6	69.2	60.6	51.8	36.4	15.8	46.6	106	−20	Apr. 26	Sept. 12
Alexandria	21.3	15.2	36.4	45.8	60.3	63.0	72.7	67.5	57.8	52.6	36.6	12.0	45.1	98	−26	June 21	Sept. 12
Armour	21.4	18.3	36.7	47.2	60.3	63.4	72.4	69.7	56.2	50.4	35.9	12.6	45.4	102	−24	June 20	Sept. 12
Ashcroft	21.7	22.0	32.2	43.2	57.0	60.4	68.2	68.0	55.8	48.0	32.6	17.8	43.9	99	−29	June 20	Sept. 11
Bad Nation	[10]25.8	21.2	[11]36.4	.....	66.1	68.0	.....	.....	.....	.....	.....	.....	.....	111	.....	June 21	Sept. 12
Bowdle	13.0	12.0	29.3	42.0	57.6	59.1	69.9	66.6	56.0	47.2	28.6	9.2	40.9	101	−28	June 20	Sept. 11
Brookings	17.2	16.1	33.4	42.2	58.2	60.2	69.6	65.1	54.2	47.5	33.0	10.6	42.3	94	−28	June 22	Sept. 12
Canton	21.0	17.7	38.0	47.0	62.6	65.2	72.0	68.4	58.2	51.8	36.8	16.0	46.2	94	−25	June 21	Sept. 12
Chamberlain	23.2	19.0	35.3	47.4	62.2	64.7	74.9	71.0	60.4	51.7	37.0	14.8	46.8	107	−24	Apr. 26	Sept. 12
Clark	19.4	.....	.....	41.6	57.8	60.4	70.0	67.7	57.3	50.0	32.0	11.9	.....	98	.....	June 21	Sept. 12
Desmet	17.8	16.2	33.6	44.0	59.0	61.4	69.9	65.8	55.4	49.1	31.4	.....	.....	93	.....	June 21	Sept. 11

[1] City engineer.

[2] Ladd Observatory.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
South Dakota—Cont'd.																	
Doland	17.4	16.0	33.4	43.4	59.7	62.2	70.9	67.4	55.4	48.0	32.2	10.7	43.1	98	−28	June 22	Sept. 4
Elkpoint	22.2	19.2	40.2	50.6	63.8	68.0	75.6	70.8	61.8	54.6	37.6	17.6	48.5	102	−32	Apr. 26	Sept. 11
Fairfax									60.6			15.6					
Faulkton	17.8	15.2	30.4	42.2	58.8	60.2	70.8	66.9	55.8	47.4	31.0	11.6	42.3	102	−23	Apr. 26	Sept. 12
Flandreau	17.3	16.6	35.0	44.4	58.8	60.8	69.2	65.9	55.6	49.8	33.4	11.6	43.2	94	−24	June 21	Sept. 12
Forestburg	18.8	15.4	34.4	45.1	61.2	62.6	71.6	68.2	58.4	49.5	34.0	9.8	44.1	101	−30	June 22	Sept. 12
Fort Meade	25.9	22.9	33.4	41.4	58.2	.....	72.2	72.4	59.1	52.0	36.2	[c]24.6	.....	106	−20	Apr. 26	Sept. 12
Fort Randall	[e]22.0	[e]19.6	[e]40.8	48.8	[e]63.2	[e]63.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gannvalley	21.1	17.4	35.7	46.8	62.4	63.9	74.0	70.4	60.0	51.2	35.4	13.1	46.0	108	−20	June 21	Sept. 12
Gary	19.1	19.8	.....	.....	.....	.....	.....	67.0	54.0	49.9	30.8	10.4	.....	.....	−26	.....	Sept. 11
Gettysburg												29.2					
Grand River School	18.3	15.2	30.6	44.2	59.8	61.4	72.4	68.9	57.6	47.6	31.9	11.4	43.6	102	−28	June 21	Sept. 12
Greenwood	26.2	21.2	38.5	49.4	64.6	67.6	75.0	71.8	61.4	53.8	39.4	15.8	48.9	97	−22	Apr. 23	Sept. 12
Hartman	19.0	15.5	33.4	.....	.....	.....	.....	.....	.....	.....	.....	18.4	.....	.....	.....	.....	.....
Hotch City	23.1	15.8	34.4	46.3	61.3	64.0	74.2	69.6	59.4	50.2	36.5	13.8	45.7	108	−29	June 21	Sept. 12
Howard	20.2	18.4	34.4	43.4	58.6	59.0	67.3	64.0	53.8	50.5	32.8	.....	.....	95	.....	June 28	Sept. 12
Howell	18.6	15.6	31.7	43.0	59.0	60.8	71.5	67.8	55.8	47.3	31.2	11.6	42.8	103	−27	June 21	Sept. 12
*Huron	18.9	16.6	34.4	43.6	60.2	61.8	71.4	67.8	56.8	48.9	33.6	11.0	43.8	101	−26	Apr. 26	Sept. 12
Interior	29.1	23.7	37.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ipswich	16.2	14.3	30.0	44.0	60.4	[e]62.3	71.3	67.2	53.8	46.3	31.2	10.5	42.3	100	−31	June 21	Sept. 4
Kimball	21.2	16.8	34.3	45.2	61.0	63.2	72.6	68.3	58.6	50.8	35.3	14.6	45.2	101	−24	Apr. 26	Sept. 12
Leola	14.7	12.8	28.0	[e]1.4	56.2	59.1	70.7	66.2	.....	.....	[f]25.4	8.4	.....	100	−35	June 21	.....
Leslie	21.9	19.6	33.4	47.4	63.0	64.0	72.8	70.1	58.0	47.8	33.4	13.4	45.4	101	−29	June 26	Sept. 12
Marion	20.2	16.3	34.6	[f]43.6	[e]60.7	63.2	71.8	67.0	57.2	51.1	[b]34.4	15.0	44.6	95	−22	June 21	Sept. 12
Mellette	18.8	17.2	33.0	44.2	59.2	61.6	70.8	67.1	57.2	47.9	32.7	11.7	43.4	102	−30	June 21	Sept. 12
Menno	21.6	17.6	37.2	[d]47.0	62.4	64.2	71.6	68.9	58.6	52.2	36.5	13.6	46.0	95	−20	June 21	Sept. 12
*Millbank	19.4	17.6	34.4	44.2	58.0	61.4	70.6	66.8	56.4	49.6	33.6	13.3	43.8	100	−30	May 10	Sept. 12
*Mitchell	21.4	18.1	35.4	45.4	61.4	64.0	71.6	68.0	57.2	51.8	35.0	13.1	45.2	100	−30	Apr. 26	Sept. 12
Mound City	14.0	12.2	28.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oelrichs	21.6	24.9	34.4	44.6	58.0	63.6	69.8	70.4	59.7	[e]59.4	33.6	20.2	45.9	105	−16	May 5	Sept. 11
Pedro	.....	21.4	36.9	46.0	61.2	63.4	73.5	71.2	59.8	50.0	35.6	13.9	.....	102	.....	June 21	Sept. 11
*Pierre	23.2	18.8	35.0	46.6	63.4	65.2	75.0	70.6	60.4	51.2	36.0	15.4	46.7	108	−22	Apr. 23	Sept. 19
Pine Ridge	22.8	24.6	35.4	45.4	59.2	63.8	71.0	.....	58.2	48.6	37.8	[c]21.8	.....	104	−31	May 6	Sept. 12
Plankinton	18.2	16.6	34.0	43.6	61.1	64.2	73.2	[e]69.7	59.2	51.1	36.4	14.8	45.2	99	−23	June 21	Sept. 12
Ramsey	.....	.....	.....	43.9	60.6	62.6	71.4	67.2	56.0	48.2	32.8	11.4	.....	96	.....	June 21	Sept. 12
*Rapid City	25.3	24.6	34.4	43.1	57.9	60.5	68.8	69.1	59.3	51.0	35.8	23.4	46.1	102	−22	Apr. 15	Sept. 18
*Redfield	17.1	15.3	32.1	42.0	58.4	60.3	70.4	66.8	55.0	46.8	31.0	10.1	42.2	101	−30	June 21	Sept. 12
Rochford	19.6	26.1	26.8	36.4	48.0	55.4	60.9	.....	.....	.....	.....	.....	.....	95	.....	June 21	.....
Rosebud	25.0	21.6	35.2	46.8	62.4	65.5	75.0	71.4	60.7	51.6	38.4	18.4	47.7	109	−25	Apr. 26	Sept. 12
St. Lawrence	20.8	15.2	32.8	40.0	57.3	[b]59.2	71.1	67.2	56.8	.....	.....	.....	.....	101	.....	Apr. 26	Sept. 12
Sioux Falls	20.2	16.6	35.1	46.2	61.6	63.4	72.2	67.4	56.6	50.7	35.0	13.8	44.9	93	−22	Apr. 23	Sept. 12
Sisseton Agency	18.2	17.7	31.5	41.2	57.2	59.9	69.8	65.8	55.4	45.4	31.5	11.6	42.1	98	−26	May 9	Sept. 12
Spearfish	26.8	24.9	33.8	41.2	56.2	60.0	68.6	66.8	56.8	49.9	37.5	25.6	45.7	101	−21	June 21	Sept. 12
Tyndall	.....	.....	37.2	47.4	63.2	66.2	72.8	69.3	60.0	52.6	37.6	15.8	.....	95	.....	May 27	Sept. 12
Vermillion	23.0	19.4	38.2	48.1	64.4	66.6	73.5	70.6	60.4	54.1	36.2	15.6	47.5	96	−18	June 23	Sept. 12
Watertown	[d]14.8	15.3	.....	42.2	56.8	60.2	68.8	65.8	.....	47.4	30.0	9.8	.....	96	−26	June 21	Sept. 12
Waubay	14.8	14.6	30.4	38.3	56.8	59.2	67.8	64.0	53.4	46.0	27.8	9.4	40.2	96	−29	June 21	Sept. 4
Wenthworth	18.2	16.3	35.4	44.1	59.8	61.6	71.9	67.7	57.7	50.2	33.4	10.6	43.9	97	−24	June 21	Sept. 12
Wessington Springs	.....	.....	32.4	.....	.....	64.2	73.1	69.4	60.3	[e]52.8	35.4	.....	.....	101	.....	.....	Sept. 12
*Yankton	.....	19.5	37.5	48.2	63.4	65.4	73.2	70.2	59.9	53.8	38.0	17.4	.....	94	−20	Apr. 23	Sept. 18
Tennessee.																	
Andersonville	37.1	38.3	48.2	56.6	70.4	72.6	77.2	75.3	68.4	58.1	53.6	39.0	57.5	97	7	Apr. 10	Oct. 27
*Arlington	.....	.....	.....	58.0	73.8	77.9	81.0	79.0	68.8	60.4	55.1	.....	.....	101	.....	.....	.....
Ashwood	38.9	32.6	50.9	57.5	71.5	76.2	[e]80.1	[f]78.1	68.8	61.2	54.0	40.0	59.2	99	8	Apr. 9	Oct. 15
Benton	38.4	35.4	51.2	56.4	71.8	76.4	[e]80.2	.....	69.6	60.6	54.6	41.6	.....	100	9	Apr. 9	Oct. 15
*Bolivar	[e]36.4	31.4	50.2	59.6	73.7	76.4	79.9	78.1	67.5	60.2	54.5	40.2	59.0	102	12	Mar. 20	Oct. 29
Bristol	33.0	30.4	46.0	51.9	68.3	68.6	.....	70.8	64.0	56.0	51.4	36.2	.....	94	7	Apr. 12	Oct. 15
*Brownsville	.....	.....	.....	55.4	72.8	76.2	79.2	78.4	70.6	59.6	.....	.....	.....	97	.....	.....	.....
Byrdstown	36.2	31.2	49.1	55.2	68.8	73.4	77.5	74.9	68.0	59.8	53.4	38.4	57.2	99	7	Apr. 8	Oct. 29
Carthage	37.2	33.4	49.8	55.5	71.0	76.6	80.5	79.7	69.2	60.8	55.2	38.6	59.0	102	11	.....	.....
*Chattanooga	39.5	36.0	50.4	58.6	72.8	77.8	80.6	79.6	69.7	61.4	55.7	41.6	60.3	101	13	Mar. 19	Nov. 27
Clarksville	36.4	30.2	50.2	57.2	72.0	[e]76.6	81.1	78.2	69.2	61.2	55.0	38.8	58.8	100	8	Apr. 9	Oct. 29
*Covington	36.6	31.6	51.4	59.0	73.4	77.0	80.3	78.5	69.1	61.8	56.1	41.4	59.7	97	12	.....	.....
Decatur	37.0	34.7	50.0	56.6	71.0	75.2	79.0	77.6	68.0	60.4	54.4	40.9	58.7	101	9	Apr. 9	Oct. 29
Dickson	36.8	31.0	49.0	58.0	72.4	76.4	79.8	76.8	68.2	60.5	54.1	39.6	58.6	101	4	Apr. 2	Oct. 15
Dover	36.6	29.6	50.4	.....	.....	[e]75.0	79.8	[e]79.0	.....	.....	.....	38.3	.....	.....	.....	.....	.....
*Dyersburg	.....	.....	.....	.....	74.4	78.0	81.8	80.0	68.2	61.4	.....	.....	.....	.....	.....	.....	.....
Elizabethton	34.8	29.7	46.8	51.2	68.6	69.6	75.2	72.8	65.7	58.2	53.2	38.0	55.3	96	4	Apr. 9	Oct. 15
Erasmus	35.0	31.2	46.4	51.8	66.3	69.5	73.2	71.2	63.4	55.6	49.8	37.4	54.2	95	5	Apr. 18	Oct. 15
Florence	37.3	31.4	50.1	57.0	71.6	75.8	79.4	77.3	68.5	60.8	54.6	40.0	58.6	99	5	Apr. 8	Oct. 29
Franklin	38.2	32.4	50.4	58.6	71.8	76.0	80.3	78.5	69.6	60.6	54.3	40.0	59.2	99	8	Apr. 8	Oct. 29
Grace (*a*)	38.7	34.2	53.0	60.5	73.9	77.8	80.2	79.2	71.1	59.4	57.2	40.8	60.5	102	10	Apr. 8	Oct. 15
Greeneville	36.2	31.2	47.9	52.5	68.2	71.4	75.0	73.7	65.6	57.6	53.0	38.8	55.8	94	5	Apr. 5	Oct. 15
Harriman	35.6	33.7	48.2	55.8	69.8	74.6	77.8	76.5	66.5	58.7	52.4	.....	.....	98	9	Apr. 8	Oct. 15
Hohenwald	36.1	31.2	[e]50.3	56.2	70.1	73.9	76.8	75.8	66.0	59.2	52.5	38.6	57.2	102	2	Apr. 9	Oct. 15
Iron City	37.9	34.8	50.8	58.4	72.2	76.2	79.2	77.8	68.3	59.6	54.4	40.0	59.1	103	7	Apr. 8	Oct. 15
Isabella	.....	33.3	46.2	52.3	69.5	74.8	77.7	76.0	65.6	55.6	51.8	39.2	.....	96	10	Apr. 9	Oct. 29
Jackson	.....	.....	.....	.....	.....	.....	.....	.....	.....	[f]62.2	56.5	41.5	.....	.....	.....	.....	.....
Johnsonville	35.8	31.4	50.8	58.4	73.9	75.8	79.6	77.9	69.0	61.5	54.9	[e]39.0	59.0	103	2	Apr. 2	Oct. 29
Jonesboro (*a*)	.....	34.3	48.8	55.2	.....	[e]72.2	77.0	74.5	65.5	60.6	54.5	40.5	.....	90	.....	Apr. 12	Oct. 29
Kenton (*c*)	.....	.....	49.6	58.2	73.3	76.8	80.3	78.0	67.9	61.2	54.5	38.4	.....	100	.....	Apr. 8	Oct. 29
*Knoxville	36.9	33.8	48.8	55.9	71.2	74.9	78.1	76.8	67.9	59.9	54.0	39.6	58.2	99	10	Apr. 8	Nov. 28
Lafayette	33.4	30.4	45.9	53.6	70.6	74.0	79.6	75.6	[e]66.2	.....	.....	.....	.....	.....	.....	Apr. 8	.....
Lebanon	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.6	53.9	40.6	.....	.....	.....	.....	Oct. 29
Lewisburg	38.4	33.0	50.4	57.5	73.0	77.4	81.2	78.6	69.2	61.1	54.4	39.9	59.5	102	3	Apr. 2	Oct. 29
Liberty	37.8	33.8	51.2	57.1	71.1	74.4	78.4	75.6	68.0	[e]60.0	[b]57.2	[e]39.6	58.7	100	4	Apr. 8	Oct. 29
Lynnville	37.0	32.4	49.5	57.8	72.0	77.4	79.8	76.4	68.5	61.1	55.2	40.6	59.0	99	10	Apr. 8	Oct. 29
McKenzie	37.6	31.2	51.6	59.6	75.4	78.2	82.2	79.4	70.8	[e]64.2	56.4	39.0	60.5	101	9	Apr. 8	Oct. 30

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Tennessee—Continued.																	
McMinnville					70.9	75.4	78.6	76.2	68.6	59.7	54.2	39.5	.....	102	.....	Apr. 8	Oct. 15
Maryville	37.6	34.2	49.6	56.2	71.6	76.0	79.8	78.2	69.1	60.2	54.6	41.2	59.0	103	9	Apr. 8	Oct. 15
*Memphis	39.8	34.9	53.8	61.5	74.8	78.3	81.1	79.9	70.2	64.0	58.0	42.2	61.5	96	15	Mar. 19	Nov. 27
*Milan				59.8	74.4	77.8	81.7	78.6	68.0	60.9				103			
*Nashville	37.5	32.0	50.1	57.9	72.4	76.4	80.8	78.6	69.2	61.6	55.0	40.0	59.3	101	10	Mar. 20	Dec. 6
Newport	36.6	33.9	49.4	55.0	70.2	74.3	77.4	76.4	68.1	59.4	53.2	39.8	57.8	95	10	Apr. 8	Nov. 29
Nunnelly	36.9	32.2	48.8	57.5	71.2	74.8	79.4	76.8	66.8	60.8	54.2	38.8	58.2	102	5	Apr. 2	Oct. 15
Oakhill	37.1	.....	48.4	54.4	68.1	71.4	74.7	73.4	66.0	62.2	.....	38.8	.....	96	10	Apr. 8	Oct. 15
Palmetto	38.8	33.6	51.4	57.9	73.4	77.3	81.2	78.3	69.6	62.1	55.2	40.7	60.0	102	8	Apr. 8	Oct. 29
Peryear (*e*)	35.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pope	36.7	34.0	52.4	59.6	73.3	76.6	80.2	78.2	70.0	61.0	55.4	40.6	59.8	104	5	Apr. 9	Oct. 15
Rogersville	34.8	31.7	47.4	53.8	69.0	71.9	76.3	[c]74.9	67.8	59.8	54.2	39.3	56.7	95	9	Apr. 3	Oct. 29
Rugby	34.9	30.2	47.2	53.2	[k]68.2	70.5	75.2	73.2	64.6	57.2	51.2	36.2	55.2	97	1	Apr. 8	Oct. 29
Savannah	39.2	35.0	52.6	60.4	74.0	77.7	81.6	79.2	70.7	62.0	57.0	41.6	60.9	102	10	Mar. 20	Oct. 29
Sewanee	36.2	31.1	48.1	54.8	69.8	74.4	78.0	76.2	67.0	59.7	53.4	37.8	57.2	98	5	Apr. 9	Nov. 29
Silverlake	31.6	28.2	42.9	48.6	64.4	65.8	70.0	67.2	60.4	53.0	[j]48.5	35.7	51.4	88	− 1	Apr. 19	Oct. 15
Springdale	[c]33.9	.....	.....	54.2	68.4	71.3	75.8	76.0	.....	.....	.....	40.4	.....	.....	.....	Apr. 18	.....
Springfield	.....	.....	.....	.....	.....	75.2	79.9	78.4	67.6	.....	.....	.....	.....	.....	.....	.....	.....
Tellico Plains	39.0	34.8	50.6	55.8	70.9	74.8	78.2	76.7	68.6	60.8	55.3	43.0	59.0	100	7	Apr. 9	Oct. 29
Tracy City	35.5	32.1	48.2	54.4	69.6	73.7	77.0	74.4	65.0	57.4	51.6	37.2	56.3	101	8	Apr. 9	Oct. 15
Trenton	37.3	31.4	51.4	58.8	.....	.....	.....	.....	68.6	61.5	55.5	40.4	.....	.....	.....	Apr. 2	Oct. 29
Tullahoma	36.8	33.0	50.0	56.2	69.8	73.6	77.4	75.9	68.6	58.9	.....	.....	.....	98	6	Apr. 9	Oct. 15
Union City	.....	.....	.....	.....	.....	.....	.....	.....	69.0	63.1	55.0	39.4	.....	.....	.....	.....	Oct. 29
Waynesboro	35.8	[c]33.6	49.6	56.8	71.3	75.5	78.4	[f]77.7	69.8	60.2	54.2	39.6	58.5	103	6	Apr. 8	Oct. 29
Wildersville	[c]36.4	33.8	53.0	58.8	73.2	.....	79.8	76.4	67.9	61.0	56.7	41.7	.....	95	5	Apr. 2	Oct. 29
Yukon	39.9	34.2	52.0	58.8	74.2	78.2	81.6	.....	.....	61.4	56.8	[e]41.1	.....	102	9	Apr. 8	Oct. 29
Texas.																	
*Abilene	43.8	45.3	56.9	68.2	74.1	81.7	79.4	85.2	72.8	66.6	58.0	44.9	64.7	106	10	Mar. 5	Dec. 1
Albany	42.4	44.0	56.4	67.6	74.6	81.4	79.0	85.0	72.9	65.2	57.4	43.7	64.1	100	10	Mar. 5	Dec. 3
*Amarillo	35.4	38.3	45.9	56.8	66.2	73.0	75.0	76.9	66.0	60.2	47.0	36.4	56.4	105	− 4	Mar. 30	Nov. 16
Anna	41.7	42.8	57.2	68.0	[e]74.5	83.5	81.9	85.5	71.8	64.8	58.3	43.4	64.4	106	12	Mar. 18	Dec. 3
Austin[1]	47.8	50.3	61.0	[e]73.4	80.2	85.0	84.8	86.6	79.2	68.7	62.8	50.6	69.2	100	20	Mar. 6	Dec. 3
Austin[2] (*e*)	45.0	47.1	59.7	68.0	76.0	81.7	81.0	83.8	75.0	66.8	60.0	47.4	66.0	.....	.....	.....	.....
*Ballinger	42.0	43.7	56.6	69.2	75.4	82.2	81.2	85.0	73.8	64.4	58.0	45.7	64.8	105	15	Mar. 31	Nov. 17
Bastrop	50.3	51.2	64.0	73.4	79.8	85.0	84.4	87.7	81.8	69.0	65.5	[k]54.6	70.6	106	11	Mar. 6	Nov. 26
Beaumont	49.8	51.0	62.2	70.4	81.0	86.0	86.2	86.6	79.0	68.0	65.5	53.5	69.9	108	30	Mar. 6	Dec. 4
*Beeville	51.4	.....	[e]67.6	73.2	79.6	84.1	84.6	87.5	83.1	74.1	69.4	57.3	.....	104	24	Mar. 6	None.
Bigspring	.....	.....	.....	69.6	76.0	82.9	79.6	85.2	73.2	66.0	55.2	43.7	.....	110	.....	Mar. 31	Nov. 16
*Blanco	46.1	.....	57.8	67.8	75.4	80.8	81.5	83.2	75.8	65.0	60.1	50.2	.....	99	18	Mar. 31	Nov. 27
Boerne (*a*)	45.9	50.0	60.6	69.2	75.5	83.0	80.7	85.4	76.8	67.0	60.7	49.5	67.0	106	22	Mar. 6	Nov. 27
Bowie	42.0	44.3	55.9	67.8	74.6	83.6	82.0	87.4	73.2	66.0	57.8	41.7	64.7	109	7	Mar. 18	Nov. 17
Brazoria	52.2	54.0	63.8	[e]69.4	76.6	79.9	80.8	82.6	78.2	71.1	67.7	57.4	69.5	95	29	Mar. 6	Dec. 5
*Brenham	49.8	49.8	63.4	70.4	77.4	83.3	81.8	84.8	77.2	69.6	64.6	52.8	68.7	100	22	Feb. 21	Dec. 4
Brighton	55.8	54.7	65.2	72.0	78.4	83.2	84.0	84.4	81.9	74.4	71.0	59.7	72.1	95	30	Jan. 27	Dec. 4
*Brownwood	.....	.....	.....	77.8	83.4	82.2	87.6	76.4	65.8	.....	.....	.....	.....	105	.....	.....	.....
Burnet	48.6	52.2	62.2	71.7	76.4	80.3	79.4	84.8	76.0	66.4	59.4	47.6	67.1	103	17	Mar. 30	Nov. 26
Camp Eagle Pass	51.1	[c]51.8	68.4	77.4	80.8	84.0	87.6	89.2	80.6	72.4	65.6	55.4	72.0	109	27	Feb. 20	Nov. 26
Childress	.....	.....	.....	.....	73.9	80.3	80.6	85.4	71.8	65.4	53.7	40.0	.....	109	.....	.....	Nov. 14
Coleman	45.2	47.0	58.4	68.0	[c]73.4	.....	78.4	84.1	72.6	[f]67.5	58.6	47.8	.....	99	14	Mar. 5	Nov. 16
College Station	.....	.....	.....	.....	.....	86.5	83.9	87.2	[e]78.2	71.3	62.6	52.0	.....	104	19	Feb. 4	Nov. 26
Colorado	.....	.....	54.7	67.4	76.4	85.0	81.5	83.6	73.1	63.9	56.8	42.6	.....	113	.....	Mar. 31	Nov. 17
Columbia	51.2	53.5	64.2	70.4	78.0	80.8	81.6	83.4	78.2	70.2	67.2	56.8	69.6	96	27	Mar. 6	Dec. 5
Comanche	44.5	[e]47.2	[f]57.8	69.0	[e]74.0	[f]82.2	80.1	88.0	[e]78.8	66.2	59.6	[f]47.0	65.8	106	12	Mar. 31	Nov. 27
*Corpus Christi	54.8	56.2	66.4	71.6	78.0	81.8	82.7	83.1	80.3	74.8	69.4	59.0	71.5	95	28	Jan. 27	None.
*Corsicana	49.2	48.2	61.0	68.1	77.0	83.6	83.6	85.4	75.4	68.1	61.8	49.6	67.6	104	14	Mar. 5	Dec. 4
Cotulla	52.1	49.0	.....	74.8	81.4	91.4	87.8	89.2	82.7	.....	72.4	55.0	.....	116	32	Feb. 2	None.
*Cuero	52.6	55.0	64.4	72.0	80.7	84.6	85.4	88.1	80.6	71.6	67.2	57.1	71.6	104	25	Mar. 6	None.
*Dallas	43.1	47.4	58.8	67.7	76.1	83.8	82.0	85.0	73.8	65.8	59.2	44.8	65.6	107	15	Mar. 18	Nov. 27
Danevang	51.0	53.5	64.2	70.4	77.7	82.2	83.1	85.4	79.8	73.6	68.0	56.0	70.4	103	24	Feb. 21	Dec. 4
*Dublin	41.6	43.0	56.0	66.6	74.8	81.6	79.4	84.1	73.3	64.5	58.4	44.3	64.0	104	11	Mar. 6	Nov. 17
Duval	49.5	51.4	62.1	71.2	77.6	83.4	83.2	83.8	78.4	71.6	64.5	51.8	69.0	101	21	Mar. 6	Dec. 4
*El Paso	46.8	51.4	53.7	67.5	73.8	82.2	77.9	79.5	73.0	65.7	53.9	46.4	64.8	105	24	Mar. 26	Nov. 27
Estelle	43.3	46.2	58.0	68.5	75.6	84.8	82.3	86.0	74.2	67.6	59.2	45.0	65.9	106	14	Mar. 18	Nov. 27
Fort Brown	.....	59.8	69.2	74.8	80.4	83.4	84.2	85.8	83.2	75.0	71.2	[e]57.2	.....	100	.....	Feb. 6	.....
Fort Clarke	.....	50.1	66.1	71.3	76.1	80.6	83.3	84.3	77.6	70.8	60.6	48.0	.....	107	22	Mar. 5	Nov. 27
Fort Davis	44.2	48.2	52.3	66.6	72.1	79.8	73.2	74.2	67.2	61.2	52.8	45.2	61.4	101	13	Mar. 31	Oct. 5
Fort McIntosh	59.0	55.6	70.0	76.4	83.7	88.9	90.6	92.4	91.5	.....	[k]65.0	59.2	.....	.....	31	Jan. 28	Nov. 27
Fort Ringgold	61.4	63.3	76.0	82.0	86.9	88.4	88.6	89.2	85.2	78.4	74.6	62.8	78.1	109	32	None.	Nov. 27
*Fort Worth	44.0	46.0	57.8	68.7	74.9	83.2	81.6	86.7	72.8	67.2	58.5	45.7	65.6	103	13	Mar. 5	Dec. 3
Fredericksburg	46.2	51.2	59.4	70.0	[f]76.5	83.7	79.9	[f]84.5	76.4	65.6	[k]57.7	[f]48.6	66.6	104	20	Mar. 6	Dec. 3
Gainesville	[c]40.3	42.0	[d]55.3	66.6	[d]73.2	[e]83.2	81.6	[e]86.8	72.5	65.0	57.4	41.2	63.8	108	12	Mar. 31	Nov. 27
*Galveston	51.7	51.0	62.2	69.3	77.2	82.2	82.3	83.6	79.0	72.4	68.0	56.7	69.7	91	32	None.	None.
Gatesville	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.8	62.0	49.4	.....	.....	.....	.....	.....
Georgetown	46.4	49.9	59.4	[c]68.9	77.6	84.0	82.6	84.6	75.4	[d]69.7	64.4	52.5	68.0	105	18	Mar. 6	Nov. 27
Grapevine	43.8	47.0	57.8	[c]68.2	75.3	82.8	81.6	[e]85.4	[e]73.9	[f]66.8	59.8	45.0	65.6	106	9	Mar. 18	Nov. 27
*Greenville	.....	.....	.....	[e]66.6	74.2	83.4	81.0	84.4	72.2	66.2	59.0	42.7	.....	104	.....	.....	Nov. 27
Hale Center	43.2	44.4	52.0	61.4	70.6	78.3	75.9	77.8	69.8	63.9	51.7	45.2	61.2	108	8	Mar. 31	Nov. 17
Hallettsville	50.8	52.7	65.0	72.0	78.7	83.2	83.6	86.7	80.0	70.9	66.8	55.8	70.5	102	25	Mar. 6	Dec. 5
Haskell	42.4	43.6	56.0	67.3	76.6	84.4	82.0	86.6	74.8	66.7	56.5	42.6	65.0	113	8	Mar. 30	Nov. 17
*Hearne	.....	.....	.....	.....	79.1	82.6	82.0	84.0	75.4	67.4	.....	.....	.....	102	.....	.....	.....
*Henrietta	41.2	41.1	55.0	65.5	73.8	83.2	82.8	88.0	71.8	66.2	57.9	41.5	64.0	112	7	Mar. 19	Nov. 27
*Houston	49.6	51.2	63.4	70.1	79.2	83.7	83.8	86.8	79.4	69.9	64.7	53.9	69.6	102	27	Feb. 21	Dec. 5
*Huntsville	47.8	48.2	60.5	70.2	78.2	82.9	82.8	84.6	77.7	69.3	65.8	51.2	68.3	99	22	Feb. 16	Dec. 4
Ira	43.0	[e]45.2	54.8	66.9	74.8	82.4	79.4	82.0	72.6	64.8	57.4	45.0	64.0	110	11	Mar. 30	Nov. 17
Jacksonville	[e]45.2	48.2	59.6	68.4	75.2	80.5	79.6	83.6	74.7	68.0	62.5	50.4	66.3	98	19	Mar. 18	Nov. 27
Jasper	[e]48.0	.....	62.8	69.5	77.4	80.5	.....	84.0	76.9	69.6	65.1	57.0	.....	100	19	Mar. 6	Nov. 27
Kaufman	43.0	47.4	59.1	69.8	78.3	86.2	84.5	88.5	75.0	67.2	60.6	46.8	67.2	107	18	Mar. 31	Nov. 27

[1] W. R. Neville.

[2] Dr. Q. C. Smith.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Texas—Continued.																	
*Kerrville	45.8	49.2	59.0	69.6	74.8	80.4	79.8	82.2	78.4	67.8	64.1	51.4	66.9	102	15	Mar. 8	Nov. 27
*Lampasas	44.5	47.6	60.3	68.6	76.1	82.4	81.4	85.0	74.8	66.0	60.8	47.2	66.2	104	18	Mar. 17	Nov. 27
Llano	48.0	48.9	61.0	72.2	79.0	85.1	83.2	87.9	77.2	69.6	60.5	49.0	68.5	105	20	Feb. 16	Dec. 4
*Longview	44.0	43.8	55.0	65.4	76.8	83.2	82.0	86.0	73.4	65.4	62.0	47.1	65.3	102	21	Mar. 31	Dec. 4
*Luling	49.2	52.5	64.0	71.4	77.9	82.6	84.8	86.2	77.0	68.0	63.8	51.2	69.0	101	20	Mar. 6	Nov. 27
Mann	45.0	48.8	58.8	69.6	76.0	83.4	81.4	84.4	74.6	66.4	62.5	49.1	66.7	103	15	Mar. 31	Nov. 27
Marlin									76.1	69.1	61.8	48.6					
Menardville	43.2	47.0	57.2	67.0	72.9	80.6	81.0	85.0	73.8	65.6	58.2	45.9	64.8	106	15	Mar. 31	Nov. 17
Mount Blanco	39.4	42.4	50.6	61.7	73.0	80.0	77.4	80.2	69.2	62.4	51.6	40.3	60.7	110	6	Mar. 31	Nov. 3
*Nacogdoches	44.8	47.0	59.0	68.7	76.0	79.9	79.8	83.2	74.1	66.3	61.8	48.5	65.8	98	22	Mar. 5	Nov. 27
New Braunfels	49.6	51.4	63.1	72.8	78.4	84.2	83.6	85.2	77.4	69.2	64.5	[d]54.0	69.4	100	23	Mar. 6	Dec. 5
*Palestine	45.9	47.4	59.4	68.2	75.0	81.0	79.8	83.1	73.7	67.2	61.7	49.2	66.0	97	18	Mar. 5	Dec. 4
*Paris	41.1	41.5	56.2	66.0	74.3	80.0	80.2	84.7	71.6	65.0	58.8	44.8	63.7	105	13	Mar. 19	Nov. 27
Pearsall			67.4	75.0	80.6	86.4	86.8	87.7	82.5	72.7	66.6	54.2	.....	110	.....	.....	Dec. 4
Port Lavaca	52.9	[e]55.0	65.4	71.8	78.8	83.4	83.2	85.3	80.6	73.4	68.6	.....	.....	97	26	Jan. 28	.....
Rhineland	42.0	44.5	57.6	68.9	76.4	83.6	81.4	86.2	72.2	65.0	55.4	43.3	64.7	114	7	Mar. 5	Nov. 17
Rockisland	50.8	52.4	63.5	69.8	76.3	81.4	80.6	83.4	78.0	70.4	64.6	54.0	68.8	100	23	Feb. 21	None.
Rockport	57.0	52.4	61.0	70.6	75.4	77.2	80.2	82.4	81.8	74.2	65.0	59.8	69.8	90	30	Jan. 28	None.
Runge	52.8	55.0	[d]66.2	[e]73.0	79.9	85.4	85.6	89.7	81.2	73.0	66.8	54.1	71.9	104	22	Feb. 16	Dec. 3
Sabine							83.0	84.0	77.6	70.2	[d]66.1						
*San Antonio	51.4	53.5	64.4	71.7	77.7	83.8	83.0	85.8	78.6	70.6	64.8	53.2	69.9	103	26	Feb. 16	Dec. 16
Sanderson	46.8	49.0	54.6	69.6	77.6	83.4	82.8	83.4	[k]79.6	70.8	60.6	46.6	67.1	105	22	Mar. 14	Nov. 26
*San Marcos	50.0	51.2	62.6	70.6	78.1	83.1	84.0	84.6	76.4	67.4	63.6	52.6	68.7	100	23	Mar. 7	Nov. 27
San Saba	45.3	48.8	59.8	70.0	76.2	83.2	81.6	85.6	75.2	65.8	60.2	48.8	66.7	106	17	Mar. 31	Nov. 27
Shaeffers Ranch	.....	58.2	68.6	75.4	80.2	86.0	85.2	87.8	83.4	73.8	69.2	57.8	.....	107	.....	Mar. 6	Dec. 4
*Sherman	41.8	41.8	56.3	65.6	74.9	82.8	81.9	85.1	75.2	67.6	60.0	44.2	64.8	100	12	Mar. 5	Nov. 27
Sonora												47.6					
Sugarland	51.3	52.1	63.7	71.1	77.8	81.0	81.5	84.0	77.3	70.5	64.6	56.2	69.3	99	25	Feb. 21	Dec. 3
Sulphur Springs	42.4	44.6	57.2	67.4	74.4	[d]81.8	80.4	84.6	72.6	66.8	60.0	45.6	64.7	101	12	Mar. 18	Nov. 27
*Taylor	47.0	49.4	60.6	70.2	77.4	82.7	81.7	85.0	75.7	68.6	62.4	50.2	67.6	100	18	Mar. 6	Dec. 4
*Temple[1]	43.6	47.4	58.5	69.3	76.8	82.6	80.9	83.6	74.7	66.6	59.2	46.2	65.8	102	17	Mar. 6	Nov. 26
Temple[2]	44.9	47.2	59.8	70.5	77.0	83.0	80.5	83.8	73.8	66.8	59.2	46.0	66.0	100	17	Mar. 4	Nov. 26
Trinity	47.8	50.0	61.4	70.8	77.6	83.0	81.7	85.4	77.6	68.8	63.6	52.6	68.4	103	23	Mar. 6	Dec. 4
Tulia	37.9	38.2	46.8	[d]58.2	68.8	74.3	.....	.....	.....	.....	.....	38.2	.....	109	− 2	Mar. 31	.....
*Tyler	45.2	46.6	61.0	69.2	77.2	83.2	82.0	86.4	78.6	65.7	61.9	47.4	66.6	104	21	Feb. 21	Dec. 4
Victoria	.....	.....	.....	.....	.....	[d]82.5	82.6	86.4	79.7	[j]73.0	67.7	[b]58.0	.....	104	.....	.....	None.
*Waco	46.3	49.8	61.8	71.7	80.0	86.3	85.1	87.6	76.4	66.8	63.2	49.4	68.7	104	18	Mar. 6	Dec. 4
*Waxahachie	44.2	47.6	58.0	67.7	75.4	82.8	81.1	85.2	71.9	65.3	57.8	.....	.....	105	14	Mar. 31	Nov. 26
*Weatherford	43.0	44.3	55.9	67.8	76.0	84.0	82.6	86.7	73.5	66.0	58.8	44.0	65.2	104	11	Mar. 31	Nov. 27
Weimar	.....	54.7	66.4	72.8	79.6	84.6	85.0	88.5	79.6	71.1	65.0	.....	.....	106	.....	Feb. 15	.....
*Wharton	.....	.....	.....	74.5	79.2	82.8	83.2	85.2	80.0	72.4	.....	.....	.....	99	.....	.....	.....
Utah.																	
Aneth	34.0	36.6	41.6	56.0	64.0	74.8	76.0	77.0	67.0	55.2	42.7	26.0	54.2	106	− 2	Apr. 23	Sept. 27
Blackrock	24.4	35.6	35.7	48.9	[k]56.4	66.0	66.6	67.5	58.3	49.4	35.5	28.2	47.7	94	−25	June 3	Sept. 26
Bluecreek (*a*)	27.4	36.4	40.1	54.0	64.1	.....	77.5	77.8	67.8	49.4	43.1	32.6	.....	98	− 5	Mar. 30	Nov. 2
Callao											39.3	32.4					
Castledale	22.9	32.8	[f]32.8	[b]45.1	53.8	66.9	66.6	69.6	59.4	49.3	33.4	21.6	46.2	103	−18	May 19	Sept. 26
Cisco	28.5	32.0	38.6	51.4	.....	.....	.....	75.0	64.4	53.2	41.5	23.0	.....	.....	−12	.....	Oct. 29
Corinne	27.3	35.2	36.8	48.7	58.4	68.4	71.5	72.6	60.8	52.6	39.8	30.9	50.2	102	−10	June 2	Sept. 17
Coyoto	26.7	33.4	31.0	[f]44.9	51.1	[d]63.4	60.8	60.4	54.8	45.7	30.4	18.5	43.4	92	−27	.....	Sept. 21
Deseret	25.0	36.2	37.0	50.8	56.4	[f]68.2	69.5	70.6	59.7	50.8	37.7	30.0	49.3	102	−17	June 3	Aug. 31
Emery	28.3	31.8	33.0	43.0	49.0	59.9	60.4	61.6	56.3	44.8	34.8	24.6	44.0	91	− 8	June 2	Sept. 18
Escalante	27.6	34.5	35.2	49.8	57.5	70.2	69.8	.....	62.0	51.6	37.2	.....	.....	98	−10	May 21	Sept. 27
Farmington	[f]26.2	36.1	36.8	48.2	57.0	66.9	69.8	70.4	[e]61.9	[j]50.7	39.6	31.4	49.6	98	− 7	May 6	Sept. 17
Fillmore	30.8	38.8	38.6	52.8	59.8	71.8	[e]73.8	75.9	65.4	55.8	41.1	33.6	53.2	105	−15	May 20	Sept. 25
Fort Duchesne	13.2	27.0	35.0	[f]48.8	[b]59.6	68.7	68.8	[d]69.4	.....	43.6	30.2	.....	.....	104	−22	May 17	.....
Frisco	31.2	36.4	34.0	49.6	57.4	[e]73.1	71.6	71.2	62.4	52.2	35.6	31.7	50.5	97	− 8	May 19	Sept. 26
Giles	28.9	34.7	39.1	52.5	61.2	71.8	72.8	73.2	63.0	50.2	37.8	19.0	50.4	105	−11	May 21	Sept. 28
Government Creek	26.0	35.5	34.2	47.9	55.4	66.8	70.0	72.1	62.6	[b]52.0	36.2	30.2	49.1	102	−14	May 18	Sept. 26
Greenriver	26.5	.....	44.2	55.4	67.4	76.9	79.1	79.6	65.8	55.9	43.0	17.6	.....	112	−16	Apr. 27	Sept. 27
Grover	29.7	34.0	33.6	47.8	54.8	66.9	66.6	75.0	63.8	49.6	36.1	25.4	48.6	97	− 5	May 22	Sept. 26
Heber	25.6	32.8	32.6	44.6	52.4	61.2	62.4	68.4	55.6	46.2	34.3	24.4	44.6	96	−20	June 2	Aug. 31
Henefer	25.2	32.8	32.8	43.9	51.6	60.0	61.5	62.2	54.3	44.1	34.0	22.4	43.7	95	−27	June 8	Aug. 22
Hite	.....	44.1	47.0	61.0	69.2	81.0	80.4	81.2	72.6	60.8	48.2	33.2	.....	110	.....	Apr. 24	Nov. 15
Kanab										55.6	40.6						
Kelton	23.0	33.4	37.2	50.0	61.1	66.0	67.4	69.3	57.0	47.1	34.0	23.9	47.4	101	−10	Mar. 30	Sept. 17
Lasal	28.8	32.5	31.4	45.2	.....	65.2	66.0	66.2	58.9	49.8	35.2	26.6	.....	94	− 8	June 3	Sept. 25
Levan	25.5	33.6	33.3	47.6	54.8	66.2	68.4	70.0	59.8	49.6	35.5	26.5	47.6	96	−11	May 18	Sept. 26
Loa	20.3	24.8	24.6	[b]39.2	46.0	57.8	60.1	58.2	49.6	40.2	.....	[e]14.0	.....	94	−30	June 28	Aug. 18
Logan	24.9	34.4	34.0	46.8	55.5	65.4	68.4	70.5	60.4	51.4	36.3	29.2	48.1	94	−12	May 5	Sept. 26
Lund	25.8	34.0	34.9	48.6	56.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	−24	.....	.....
Manti	27.1	33.6	33.0	47.4	54.3	65.2	66.2	68.2	58.8	49.6	36.1	25.5	47.1	97	−22	June 2	Sept. 26
Marysvale	27.8	33.6	33.2	47.0	53.0	64.8	65.2	65.8	58.7	50.0	34.8	25.6	46.6	95	−21	June 3	Sept. 26
Meadowville	22.0	30.9	27.6	40.6	49.2	59.2	62.2	63.9	54.6	44.0	33.1	24.6	42.7	93	−20	June 18	Sept. 12
Minersville	28.2	36.8	35.8	51.2	58.5	.....	70.7	71.6	62.9	51.8	35.7	30.6	.....	100	−14	May 18	Sept. 27
Moab	31.8	37.1	42.8	56.9	63.9	73.8	74.4	75.6	65.3	56.3	43.7	28.7	54.2	105	3	Apr. 15	Oct. 4
*Modena	27.1	34.9	33.6	46.8	58.9	67.6	68.3	68.6	62.2	50.0	34.6	29.6	48.1	97	−18	May 21	Oct. 25
Monticello	.....	.....	.....	46.2	54.5	68.0	65.5	66.5	61.4	54.0	34.6	22.6	.....	96	.....	May 19	Oct. 25
Mount Nebo	27.0	36.8	36.4	49.8	[e]59.6	70.0	71.4	74.3	62.0	50.8	.....	[j]27.0	.....	102	−10	May 18	Oct. 2
Mount Pleasant	29.2	34.8	33.0	47.5	56.1	66.8	68.6	.....	60.6	.....	[k]24.9	.....	.....	97	−11	June 1	Sept. 25
Ogden	26.1	36.4	36.8	50.0	58.8	67.6	70.7	71.2	61.6	53.1	39.6	31.2	.....	98	−10	May 4	Sept. 26
Park City	24.3	31.0	24.3	39.8	48.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	−14	.....	.....
Parowan	28.2	34.6	34.6	48.6	56.0	66.8	69.0	69.2	61.5	50.5	33.6	29.0	48.5	102	−14	May 21	Sept. 26
Pinto	27.0	33.2	30.0	[e]45.5	50.2	60.7	62.0	63.4	[e]58.6	46.5	[d]33.7	[e]26.4	44.8	95	−23	June 7	Aug. 30
Plateau	.....	.....	.....	43.7	49.8	60.4	61.9	63.0	55.4	48.4	31.6	22.2	.....	94	.....	June 29	Sept. 12
Promontory	.....	.....	39.0	.....	.....	.....	.....	.....	.....	.....	33.8	.....	.....	.....	.....	.....	.....

[1] W. G. Jones.

[2] Cotton region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Utah—Continued.																	
Provo	28.0	37.0	38.2	49.8	56.4	67.8	69.2	70.6	.....	[d]52.4	40.2	32.8	.....	102	− 7	June 2	.....
Ranch	28.3	29.1	24.6	41.2	48.9	59.2	60.3	61.3	56.4	46.2	32.0	23.3	42.6	92	−15	May 21	Sept. 27
Richfield	27.9	36.0	36.0	48.5	55.0	64.2	65.6	66.2	58.8	50.4	37.9	29.4	48.0	94	−16	June 2	Sept. 11
St. George	34.4	41.6	44.4	59.8	64.2	75.1	76.2	76.4	71.7	63.7	45.2	36.5	57.4	109	2	Apr. 14	Nov. 3
*Salt Lake City	27.5	39.0	38.1	50.2	59.2	69.4	72.5	74.6	64.1	55.2	41.0	33.5	52.0	98	− 4	Apr. 10	Nov. 2
Scipio	26.1	35.6	35.8	48.7	56.3	67.1	68.2	69.1	60.0	50.3	37.8	30.9	48.8	102	−28	May 17	Aug. 30
Snowville	23.8	33.6	33.4	44.9	54.0	61.6	63.8	64.7	54.8	47.8	33.9	25.4	45.1	96	−21	June 18	Aug. 31
Soldier Summit	20.9	26.0	22.4	38.4	47.0	55.2	.....	.....	51.4	[c]42.2	.....	.....	.....	.....	−15	June 29	Sept. 1
Terrace	.....	.....	.....	.....	.....	67.9	[d]70.5	69.4	57.4	48.9	35.4	.....	.....	100	.....	June 3	Sept. 17
Thistle	29.0	38.1	38.8	53.4	59.4	70.8	72.6	67.0	57.2	47.8	36.3	26.6	49.8	106	−25	Apr. 1	Aug. 31
Tooele	26.4	37.3	36.6	49.0	57.4	67.9	71.8	73.4	63.8	52.5	38.8	32.2	50.6	98	− 6	May 19	Nov. 1
Tropic	[a]28.2	28.4	.....	.....	49.3	62.7	62.2	60.4	54.6	39.9	28.0	20.8	.....	99	−14	June 31	Aug. 16
Vernal	23.4	31.8	35.6	50.6	58.9	69.0	69.2	70.2	60.7	51.0	35.2	20.0	48.0	98	−11	Apr. 15	Sept. 26
Virgin	.....	44.2	.....	60.5	65.8	79.0	72.4	77.9	.....	.....	.....	.....	.....	103	.....	.....	.....
Wellington	.....	29.2	33.1	.....	56.3	66.6	67.2	69.0	58.8	48.0	35.0	24.2	.....	101	.....	May 21	Sept. 22
Woodruff	17.2	29.7	.....	38.4	48.2	57.6	59.2	59.2	50.3	42.0	.....	16.5	.....	94	−38	June 21	.....
Vermont.																	
Bennington	21.4	21.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burlington	19.3	21.6	38.0	47.7	55.1	63.2	69.8	66.4	63.2	48.8	42.3	22.2	46.5	87	−10	May 10	Oct. 10
Chelsea	14.2	18.8	33.2	41.7	50.6	58.2	64.0	61.0	56.6	42.5	37.2	16.3	41.2	84	−20	May 14	Oct. 10
Cornwall	17.8	20.7	37.0	47.0	53.6	61.6	67.0	65.4	61.4	47.3	40.6	21.2	45.0	89	−16	May 14	Oct. 10
Enosburg Falls	16.6	14.2	34.2	43.8	50.6	59.6	66.4	62.8	59.6	43.7	38.8	15.8	42.2	90	−20	June 10	Sept. 5
Hartland	15.4	19.6	36.8	44.4	53.2	59.6	63.8	62.6	58.8	46.4	39.1	18.6	43.2	86	−20	May 21	Oct. 10
Jacksonville	15.0	20.4	36.8	42.4	51.5	57.4	63.4	61.4	56.3	44.8	38.8	20.6	42.4	84	−24	May 22	Oct. 11
Manchester	18.4	20.4	37.1	44.7	53.8	60.6	65.6	62.8	60.8	47.9	41.2	20.6	42.3	85	−22	May 21	Oct. 10
Morrisville	33.1	17.7	34.5	44.6	52.3	59.7	65.9	61.3	58.9	46.3	36.4	16.9	42.3	85	−22	June 11	Sept. 25
Newport	14.0	.....	36.5	.....	.....	59.9	.....	62.4	57.2	.....	37.6	14.9	.....	86	−26	.....	Sept. 6
*Northfield	13.0	17.1	34.2	43.2	50.9	57.9	63.6	60.2	56.8	44.2	37.8	15.6	41.2	88	−19	May 14	Oct. 10
Norwich	15.4	19.2	35.8	43.6	52.6	58.3	64.7	62.2	58.2	44.8	[c]39.8	.....	.....	.....	.....	.....	.....
St. Johnsbury	14.2	18.2	36.3	43.8	52.0	59.6	65.9	63.0	59.8	45.6	37.9	16.8	42.8	89	−22	May 31	Oct. 10
Vernon (*f*)	19.5	.....	.....	47.7	56.3	64.9	68.2	66.8	.....	.....	.....	.....	.....	88	−16	May 10	.....
Wells	17.2	20.0	35.1	44.3	53.0	59.8	65.6	63.4	59.8	45.8	38.6	19.2	43.5	86	−25	May 14	Oct. 10
Woodstock	14.1	15.7	33.3	41.6	52.0	60.5	65.8	62.8	61.0	46.8	41.4	19.6	42.9	89	−20	May 18	Oct. 10
Virginia.																	
Alexandria	31.6	30.0	46.9	54.0	66.3	72.9	78.0	73.4	67.6	57.8	51.5	35.2	55.4	101	5	Mar. 26	Oct. 22
Ashland	33.4	32.6	50.8	55.2	67.8	73.0	78.2	73.4	67.3	59.4	52.8	36.6	56.7	100	12	Apr. 14	Oct. 15
Barboursville	35.8	34.4	49.4	54.0	68.0	.....	.....	.....	.....	60.9	64.8	[c]41.4	.....	.....	11	Mar. 26	Oct. 15
Bedford	34.6	33.0	48.4	55.1	69.6	73.6	79.6	76.0	68.3	58.8	54.5	38.1	57.5	102	12	Apr. 4	Nov. 28
Bigstone Gap	33.4	31.8	46.3	52.2	67.2	70.2	74.2	72.6	64.8	57.6	52.0	38.4	55.1	94	6	Apr. 13	Oct. 15
Birdsnest (*b*)	30.6	30.6	43.8	50.8	62.2	70.6	75.3	72.2	66.7	.....	.....	.....	.....	.....	.....	.....	.....
Blacksburg	30.5	27.8	42.2	49.0	64.2	68.4	72.5	71.3	63.2	55.1	48.8	35.2	52.4	95	5	Apr. 18	Sept. 14
Bluemont	.....	.....	.....	.....	.....	.....	.....	.....	66.3	58.4	52.2	34.5	.....	.....	.....	.....	Oct. 22
Bonair	34.4	32.4	48.8	55.5	66.8	73.0	78.0	74.1	67.4	59.8	54.4	38.0	56.9	98	12	Apr. 3	Nov. 2
Buckingham	.....	.....	.....	.....	63.4	[f]67.9	.....	.....	.....	58.8	52.8	39.0	.....	101	.....	Apr. 19	Oct. 14
Burkes Garden	29.0	25.0	40.0	44.7	60.8	62.9	67.6	64.8	57.8	50.7	46.2	32.2	48.5	87	0	Apr. 18	Sept. 14
Callaville	35.8	.....	48.7	55.1	[a]68.6	74.2	78.0	74.6	67.0	61.6	56.9	46.4	.....	99	10	Apr. 2	Oct. 30
*Cape Henry	36.8	34.0	48.3	55.0	65.6	72.4	78.1	74.8	71.1	64.1	56.9	43.6	58.4	101	18	Mar. 7	Dec. 8
Charlottesville	33.8	31.1	48.6	55.0	67.0	71.9	77.2	72.9	67.2	59.4	54.2	36.9	56.3	97	1	Apr. 9	Nov. 2
Cliftonforge	28.0	.....	.....	47.7	.....	67.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 20	.....
Columbia	33.6	33.0	49.7	53.9	68.4	72.7	78.3	74.0	67.6	61.5	51.2	35.2	56.6	108	5	Mar. 21	Oct. 22
Dale Enterprise	30.8	27.0	43.0	50.0	63.5	68.0	74.7	70.3	64.8	56.2	50.3	34.4	52.8	101	2	Apr. 14	Sept. 14
Farmville	33.6	[a]30.2	.....	54.8	69.8	74.7	80.7	75.1	68.0	59.6	.....	38.8	.....	101	4	Mar. 21	Oct. 22
Fredericksburg	32.3	31.0	47.6	54.2	66.9	73.6	78.1	73.9	67.0	58.6	51.9	36.3	56.0	99	11	Mar. 20	Oct. 30
Freeling	.....	32.0	43.9	49.4	62.7	67.0	72.8	73.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grahams Forge	[c]31.5	[c]27.6	[d]45.0	[b]47.0	65.3	[j]66.1	[j]71.4	[c]71.2	.....	[d]54.4	[c]50.0	[k]38.8	.....	91	4	Apr. 14	Oct. 15
Hampton	37.2	35.2	50.0	55.0	67.4	75.2	79.6	76.2	70.6	64.7	56.5	43.2	59.2	97	18	Mar. 19	Dec. 2
Hot Springs	29.5	26.4	42.5	48.6	63.6	68.4	70.3	67.4	60.6	53.4	48.1	[m]36.0	51.2	95	3	May 9	Sept. 13
Lacrosse	.....	.....	.....	.....	.....	.....	.....	.....	71.8	62.2	[a]54.0	40.8	.....	.....	.....	.....	.....
Lexington	33.2	31.0	46.1	52.4	66.2	69.4	75.8	71.9	64.6	57.6	51.8	36.8	54.7	101	9	Apr. 16	Oct. 30
Lincoln	30.4	27.0	44.8	52.0	68.0	73.2	78.4	72.8	66.5	58.2	51.1	33.0	54.5	102	5	Apr. 16	Oct. 22
*Lynchburg	34.2	32.8	48.0	54.8	68.2	72.5	78.5	74.7	67.3	59.0	53.7	38.4	56.8	99	18	.....	Oct. 30
Manassas	33.5	27.7	44.3	50.0	64.2	71.1	77.0	72.6	65.8	58.6	49.8	34.2	54.1	103	0	Apr. 20	Oct. 22
Marion	.....	.....	.....	[d]50.0	65.1	67.2	[a]71.8	[d]70.0	[d]64.6	.....	.....	.....	.....	.....	.....	Apr. 18	Sept. 15
Newport News	40.2	37.0	52.6	.....	69.2	78.0	81.4	78.6	71.4	66.2	57.6	42.6	.....	100	15	Apr. 19	Dec. 1
*Norfolk	37.4	35.8	50.4	56.0	66.6	74.5	79.6	76.0	70.5	64.2	57.4	43.3	59.3	98	18	Mar. 19	Dec. 6
Petersburg	36.8	34.4	50.9	56.2	67.6	72.7	79.4	74.0	68.2	61.0	55.0	40.0	58.0	101	7	Mar. 26	Oct. 30
Quantico	33.0	30.8	48.2	54.4	66.4	72.8	78.0	74.0	.....	[i]58.7	.....	.....	.....	100	6	.....	.....
*Richmond	36.2	34.6	50.0	55.8	67.8	74.3	79.0	75.0	68.6	61.6	54.8	40.1	58.2	98	15	Mar. 7	Oct. 30
Roanoke	36.0	32.2	48.4	.....	[c]66.5	70.7	[a]75.9	74.5	.....	.....	.....	.....	.....	98	10	May 9	Nov. 24
Rockymount	.....	.....	.....	.....	.....	67.0	72.3	70.6	62.3	64.6	51.2	35.0	.....	.....	.....	.....	Oct. 30
Saxe	.....	.....	.....	.....	.....	.....	.....	73.5	[j]64.2	[i]57.2	53.6	38.8	.....	.....	.....	.....	Oct. 15
Spottsville	36.2	33.8	50.0	55.2	67.4	73.9	78.2	74.4	68.6	61.8	55.7	40.9	58.0	101	8	Apr. 14	Oct. 15
Stanardsville	29.4	27.2	42.6	49.0	64.4	67.4	.....	67.8	67.3	.....	.....	.....	.....	100	2	Apr. 28	.....
Staunton	33.8	30.0	45.3	52.4	66.5	69.4	76.3	71.8	65.7	58.4	52.7	36.8	54.9	99	9	Apr. 16	Oct. 15
Stephens City	[c]31.2	30.2	[j]45.4	.....	.....	.....	.....	[a]67.7	[d]65.3	.....	.....	.....	.....	.....	.....	.....	Oct. 17
Warsaw	.....	29.6	47.0	53.7	67.1	73.5	77.9	73.8	68.0	60.4	53.2	37.4	.....	100	7	Mar. 26	Oct. 30
Westpoint	32.8	32.3	47.8	52.6	68.2	75.0	.....	.....	64.8	.....	.....	.....	.....	.....	10	Mar. 27	.....
Wilkerson	.....	.....	.....	.....	68.9	73.2	77.6	74.2	68.0	60.8	53.6	37.5	.....	102	.....	.....	Oct. 30
Williamsburg	35.2	32.6	48.8	53.2	65.4	71.8	74.8	71.8	65.6	60.7	54.2	40.5	56.2	94	12	Mar. 26	Oct. 15
Woodstock	31.8	27.8	44.5	51.9	66.5	69.2	76.8	71.6	65.2	55.6	49.5	33.2	53.6	101	2	Apr. 14	Sept. 14
Wytheville	32.0	29.1	44.0	49.9	66.2	68.1	73.2	72.0	64.2	57.2	50.8	36.2	53.6	94	6	Mar. 13	Sept. 14
Washington.																	
Aberdeen	37.1	42.9	41.7	47.4	53.6	56.6	59.0	59.6	53.9	51.6	42.2	38.0	48.6	90	12	Apr. 23	Sept. 25
Blaine	.....	.....	.....	.....	.....	.....	.....	.....	[a]50.8	49.4	42.2	39.0	.....	.....	.....	.....	Oct. 24
Bremerton	39.3	45.0	44.4	49.1	56.2	59.4	62.6	63.7	57.4	51.5	42.6	38.4	50.8	95	14	Mar. 30	Oct. 28
Bridgeport	[e]29.6	39.4	.....	.....	59.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 14	.....
Brinnon	38.2	43.5	43.3	48.2	55.4	59.9	62.8	63.8	58.0	53.1	43.0	38.4	50.6	90	18	Mar. 29	Nov. 4

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
														Max.	Min.		
Washington—Continued.																	
Cedonia	23.8	31.3	35.2	43.2	52.0	56.0	60.4	63.0	55.2	49.4	32.4	25.2	43.9	88	−12	June 5	Sept. 16
Centralia	[c]36.4	44.0	43.4	48.7	56.0	57.4	62.3	62.4	57.3	53.0	43.6	40.5	50.4	100	5	Apr. 13	Oct. 7
Clearwater	39.0	.....	[c]42.6	46.6	53.4	56.2	59.3	60.0	55.0	52.6	44.2	39.8	.....	88	17	Mar. 29	Nov. 5
Clealum	27.1	32.4	37.2	43.3	52.6	56.8	61.4	63.9	54.5	47.5	34.9	25.2	44.7	98	11	June 5	Sept. 11
Colfax	.....	36.4	39.6	46.2	53.4	56.6	61.8	62.4	55.6	51.0	[c]37.6	33.0	.....	95	−10	Apr. 26	Aug. 28
Colville	25.0	33.5	38.0	45.5	54.8	56.8	61.4	61.5	54.6	51.0	34.0	28.0	45.3	95	−20	June 6	Aug. 28
Conconully	22.0	31.8	35.5	43.8	54.4	58.3	63.0	63.9	54.0	48.3	32.0	22.9	44.2	92	−13	Apr. 26	Sept. 24
Coupeville	38.9	45.2	43.2	48.1	53.6	57.4	60.1	61.1	55.8	52.9	44.2	40.9	50.1	89	13	Mar. 29	Dec. 6
Crescent	25.3	32.9	37.8	43.7	52.8	57.0	62.4	64.2	55.6	49.0	34.0	27.5	45.2	96	−15	June 6	Sept. 17
Dayton	31.6	39.3	.....	48.6	53.7	61.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 26	.....
Eastsound	37.2	34.2	41.0	46.0	52.8	55.6	60.0	60.2	54.2	[c]51.4	39.7	35.8	48.2	86	2	Apr. 17	Nov. 3
Ellensburg	27.4	31.1	39.6	45.8	54.4	58.5	63.0	64.9	56.2	48.6	36.0	23.5	45.8	92	−10	May 4	Sept. 17
Ellensburg (near)	26.2	32.2	38.3	45.2	55.9	60.8	64.7	67.4	55.8	.....	35.6	23.4	.....	.....	.....	Apr. 29	Sept. 17
Grandmound	37.6	44.6	43.0	46.8	55.6	57.6	61.2	62.2	57.5	52.8	43.8	39.8	50.2	93	7	Apr. 23	Oct. 24
Hooper	30.6	38.0	43.2	49.6	58.0	63.5	69.0	70.2	61.6	54.3	40.8	33.6	51.0	104	−18	Apr. 20	Oct. 29
Ilwaco	42.0	46.5	44.8	50.2	55.6	58.8	[c]61.7	59.9	55.8	54.4	46.1	42.2	51.5	91	17	Mar. 29	Nov. 3
Lacenter	36.4	43.4	43.0	47.6	55.6	59.4	61.7	64.3	58.2	53.0	43.0	37.8	50.3	100	8	Apr. 12	Sept. 28
Lakeside	28.2	33.2	41.2	48.8	59.1	63.5	68.5	73.3	61.0	53.8	37.0	26.2	49.5	98	3	Apr. 9	Oct. 31
Lind	26.4	34.0	40.8	49.2	58.8	65.7	71.2	72.2	63.2	54.9	[c]38.2	30.4	50.4	106	−12	Apr. 13	Oct. 10
Loomis	.....	34.4	41.1	49.8	58.6	63.6	69.0	70.4	61.4	.....	37.2	24.0	.....	97	− 1	Apr. 13	.....
Mayfield	35.9	42.4	43.4	[f]47.4	53.6	[c]59.2	61.8	[c]64.6	57.2	51.6	41.6	[c]38.6	49.8	99	10	Apr. 22	Oct. 25
Mottinger Ranch	32.3	39.9	48.4	53.8	62.3	67.6	72.4	74.4	65.0	57.4	44.2	34.8	54.4	105	0	Apr. 13	Nov. 5
Mount Pleasant	35.6	41.4	43.3	48.4	54.6	59.2	62.6	65.2	60.9	54.7	42.4	35.8	50.3	101	9	Apr. 12	Nov. 5
Moxee Valley	29.4	34.8	42.6	48.0	56.4	61.7	66.3	68.2	58.2	50.6	38.4	27.0	48.5	100	− 5	June 4	Sept. 17
*Neah Bay	40.8	44.0	42.6	45.7	50.6	54.4	57.2	58.0	53.6	51.2	44.9	.....	.....	82	20	Mar. 13	.....
*North Head	.....	.....	.....	.....	.....	.....	.....	58.2	55.2	55.3	47.7	44.2	.....	.....	.....	.....	None.
Northport	21.3	29.5	39.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−22	.....	.....
Olga	37.6	45.6	42.8	48.4	55.0	58.2	61.5	[f]60.4	56.5	52.2	44.4	41.6	50.4	83	14	Jan. 31	Dec. 7
Olympia	39.0	44.8	44.6	49.0	56.0	58.9	62.8	62.9	57.2	54.3	45.2	40.8	51.3	99	12	Mar. 30	Nov. 5
Pasco	31.1	38.4	47.0	54.2	64.2	71.0	79.8	.....	.....	.....	.....	.....	.....	108	− 2	Apr. 10	.....
Pinehill	31.3	36.6	43.7	48.8	57.1	62.0	67.0	69.4	61.2	54.4	41.6	32.0	50.4	103	− 8	Apr. 13	Nov. 4
Pomeroy	30.4	39.8	42.7	49.1	57.2	62.8	68.1	69.6	62.2	55.4	40.2	33.6	50.9	103	−10	Apr. 29	Sept. 20
*Port Crescent	37.4	41.2	41.0	43.8	50.6	53.0	56.0	56.8	52.6	49.9	42.5	38.4	46.9	90	12	Apr. 10	Sept 28
Port Townsend	39.4	45.2	43.8	49.1	54.0	57.8	60.4	60.9	56.8	52.8	44.8	41.4	50.5	85	13	Mar. 15	Dec. 17
Pullman	[c]26.2	35.4	38.4	46.4	53.4	58.2	[c]63.1	64.9	58.7	52.6	[c]34.4	31.2	46.9	93	−12	Apr. 15	Sept. 28
Rattlesnake Mountains	.....	.....	.....	44.8	53.8	.....	[f]69.2	69.2	60.0	53.0	38.0	28.4	.....	97	.....	.....	Sept. 16
Republic	.....	.....	35.8	43.3	53.6	56.6	61.5	62.2	53.0	47.6	31.6	24.3	.....	98	.....	June 6	Aug. 28
Rosalia	26.8	35.4	37.4	44.7	53.0	56.8	62.3	62.8	56.2	50.7	36.5	30.4	46.1	94	−14	June 5	Aug. 28
*Seattle	39.8	46.4	45.0	50.0	56.5	60.6	63.8	64.4	58.4	54.3	45.8	41.8	52.2	95	13	Mar. 29	Dec. 17
Sedro-Woolley	.....	45.2	44.6	50.2	55.8	58.8	61.6	59.8	55.4	52.8	42.7	39.3	.....	92	6	Apr. 23	Oct. 1
Silvana	36.8	45.4	[c]43.8	48.0	54.2	57.4	[c]59.4	[c]61.6	55.4	52.8	[f]43.6	40.2	49.9	92	2	Apr. 24	Oct. 23
Snohomish	36.4	44.0	43.8	49.0	55.6	59.2	61.4	61.0	54.9	52.4	43.7	39.0	50.0	90	2	Apr. 13	Oct. 22
Snoqualmie	.....	44.2	43.5	47.2	55.0	59.9	63.2	63.6	56.9	52.6	44.0	40.6	.....	97	8	Apr. 30	Nov. 19
Southbend	40.4	45.6	43.9	.....	54.8	57.4	60.6	61.7	53.8	55.2	45.7	42.4	.....	98	17	.....	Nov. 5
*Spokane	27.8	36.0	39.8	46.6	55.4	60.7	64.9	66.6	58.0	51.3	36.8	30.9	47.9	94	−12	Mar. 3	Nov. 5
Sunnyside	29.2	35.8	43.5	49.0	58.4	63.4	67.8	68.6	60.3	52.4	40.1	30.9	50.0	97	−11	May 18	Sept. 28
*Tacoma	38.4	45.2	43.8	48.2	55.5	59.1	62.3	62.9	57.0	53.0	44.4	40.6	50.9	94	15	Mar. 29	Dec. 18
*Tatoosh Island	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42.4	.....	.....	.....	.....	.....
Trinidad	.....	.....	.....	.....	.....	.....	.....	.....	.....	57.6	39.0	26.1	.....	.....	.....	.....	.....
Union	38.8	43.0	42.8	47.4	54.9	58.7	62.4	63.7	56.9	[c]53.0	43.6	39.0	50.4	95	14	Apr. 13	Nov. 4
Usk	24.2	31.7	34.6	[f]43.7	54.8	58.4	60.3	60.8	[c]50.5	[c]48.4	.....	28.3	.....	93	18	.....	Aug. 28
Vancouver	36.9	43.6	45.6	49.8	55.9	59.6	62.6	63.8	58.8	53.3	45.5	39.4	51.2	96	1	Apr. 12	Nov. 19
Vashon	38.4	44.4	42.8	48.0	55.0	58.6	61.8	62.2	57.0	52.6	45.2	41.3	50.7	87	14	Mar. 29	Dec. 6
*Walla Walla	31.0	39.6	45.4	51.1	58.0	64.6	69.8	72.3	63.3	56.6	43.2	34.4	52.4	100	− 2	Mar. 30	Nov. 20
Waterville	21.4	29.0	34.9	43.6	54.7	58.1	64.3	66.8	54.9	48.2	32.7	22.8	44.3	103	−13	June 5	Sept. 15
Wenatchee (near)	25.6	33.1	39.6	46.0	56.2	60.8	65.6	68.4	59.9	53.0	35.6	25.9	47.5	98	− 4	Apr. 13	Oct. 31
Whatcom	38.9	45.6	44.0	48.0	54.4	57.2	59.8	60.4	55.7	51.1	43.6	40.2	49.9	94	10	Mar. 30	Oct. 24
Wilbur	22.8	30.4	36.6	43.8	52.4	55.3	61.4	62.6	54.5	49.1	34.2	24.4	44.0	95	−19	June 27	Aug. 27
Zindel	.....	.....	.....	.....	.....	[f]66.8	[c]76.8	77.0	68.1	[f]58.4	[c]43.4	36.6	.....	107	.....	.....	Nov. 4
West Virginia.																	
Addison	.....	.....	.....	52.6	66.0	67.4	73.9	[c]71.7	66.2	57.4	50.1	36.0	.....	96	.....	May 10	Oct. 15
Bayard	.....	.....	.....	.....	60.0	62.8	69.0	64.3	59.9	[c]51.2	45.2	29.6	.....	90	.....	May 15	Sept. 15
Beckley	29.9	26.8	39.6	45.7	[c]62.9	68.2	73.6	.....	60.0	51.5	46.8	.....	.....	92	− 6	May 28	Sept. 6
Beverly	27.6	25.0	40.9	47.0	62.4	64.8	71.6	68.0	61.8	53.8	47.0	31.9	50.2	94	− 7	May 10	Oct. 15
Bluefield	31.9	26.9	43.6	50.0	64.9	67.3	72.5	.....	.....	.....	.....	.....	.....	90	1	May 29	.....
Buckhannon	29.9	23.2	41.8	48.7	64.4	67.4	73.6	68.6	.....	.....	.....	33.5	.....	95	−11	May 10	Oct. 15
Burlington	28.6	24.1	40.6	48.5	62.2	67.6	74.4	70.3	63.1	55.0	48.4	32.5	51.3	97	− 1	May 10	Sept. 15
Byrne	33.7	26.2	46.6	.....	70.6	71.7	72.3	72.7	67.8	61.4	55.6	.....	.....	97	2	Apr. 17	Oct. 14
Cairo	.....	.....	.....	.....	65.6	68.8	[c]75.7	71.3	66.0	58.0	52.4	35.1	.....	99	.....	.....	Sept. 15
*Camden	.....	.....	.....	48.8	66.0	62.5	75.5	72.0	64.6	56.8	52.2	34.2	.....	88	− 5	Apr. 14	Oct. 15
Central	29.1	26.0	42.9	48.6	64.0	66.7	74.3	68.8	63.6	57.0	[c]49.3	33.4	51.9	95	− 4	May 10	Sept. 15
Chapel	29.9	.....	.....	48.3	67.0	71.4	78.4	76.0	69.0	.....	51.1	35.0	.....	96	.....	Apr. 14	Oct. 15
Charleston	.....	.....	.....	.....	.....	67.3	[c]78.6	.....	[c]70.5	.....	.....	.....	.....	98	.....	.....	.....
Clay	.....	.....	.....	.....	.....	.....	.....	.....	68.8	.....	55.7	.....	.....	.....	.....	.....	.....
*Creston	.....	24.6	.....	.....	.....	71.6	.....	71.0	64.9	58.4	50.4	35.0	.....	97	.....	Apr. 15	Oct. 21
Cuba	31.2	25.8	44.7	51.0	66.1	68.6	74.3	71.0	65.8	56.8	51.0	34.6	53.4	95	− 5	Apr. 18	Oct. 15
Dayton	29.9	24.6	42.9	48.6	63.9	66.0	73.4	66.9	63.4	56.4	48.8	33.5	51.5	93	− 5	May 10	Sept. 14
Echo	.....	.....	.....	53.7	68.6	71.6	76.8	74.8	67.7	60.0	52.5	37.6	.....	98	.....	Apr. 18	Sept. 15
Elkhorn	33.7	29.9	45.9	51.2	66.4	68.2	73.5	70.5	65.2	57.3	53.0	38.6	54.4	95	4	May 28	Sept. 14
*Elkins	28.4	23.6	39.7	45.6	61.6	63.0	70.2	67.0	60.8	53.0	46.8	31.8	49.3	90	− 5	Apr. 18	Oct. 15
Foster	31.8	28.3	43.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 8	.....
*Glenville	29.2	25.6	42.8	49.8	65.0	68.2	74.3	71.0	64.3	56.6	50.5	33.4	52.6	96	− 7	Apr. 18	Oct. 15
Grafton	29.2	25.2	43.8	48.8	63.8	65.8	72.8	69.0	64.7	56.4	51.1	33.4	52.0	92	− 1	May 10	Oct. 15
Green Sulphur	29.7	29.1	41.4	48.3	63.2	66.4	69.5	69.2	61.0	54.9	48.0	32.2	51.1	90	0	May 29	Oct. 23
*Hinton	31.0	29.6	44.4	50.8	67.1	68.9	75.2	[c]71.8	65.8	57.4	[c]49.2	36.7	54.0	94	6	Apr. 18	Oct. 15
*Huntington	30.4	26.6	42.6	51.2	68.2	71.3	76.3	73.4	66.2	57.2	51.0	35.3	54.1	99	6	Apr. 14	Oct. 14
Josiah	29.3	27.2	43.7	50.6	[c]64.4	68.4	75.8	71.2	65.5	56.0	50.6	32.8	53.0	96	2	Apr. 15	Oct. 15
Leonard	28.4	24.4	41.0	45.9	63.6	62.8	75.5	67.4	62.2	55.5	52.5	30.1	50.8	89	− 2	May 28	Sept. 31

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
West Virginia—Continued.																	
Lewisburg	28.8	26.2	41.3	47.4	63.2	65.4	72.0	69.0	62.0	54.8	48.8	32.9	51.0	93	2	May 29	Oct. 15
Lillydale	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36.2	.....	.....	.....	.....	.....
Logan	34.3	31.4	47.5	54.3	70.0	72.6	78.2	72.8	67.2	60.6	53.8	40.3	56.9	102	3	Apr. 18	Oct. 30
Magnolia	27.9	26.0	42.9	50.2	63.8	67.2	†75.2	70.6	66.1	55.5	43.9	31.1	51.7	100	— 2	May 29	Sept. 14
Mannington	30.7	26.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 18	.....
Martinsburg	29.0	24.3	43.0	50.1	64.6	69.4	75.2	70.6	64.0	55.4	48.0	30.8	52.0	102	0	Apr. 15	Oct. 22
Morgantown	29.4	25.1	44.3	49.4	64.2	67.8	73.6	69.0	65.4	57.2	52.2	33.2	52.6	91	1	May 10	Oct. 15
Moscow	27.8	24.0	42.4	47.6	61.8	64.9	72.4	67.2	62.7	54.6	49.2	30.3	50.4	92	— 3	May 10	Sept. 15
Moundsville	30.8	27.4	44.2	49.8	64.6	67.6	74.6	70.2	65.6	56.7	.....	.....	.....	93	0	May 10	Oct. 15
New Martinsville	31.2	27.8	45.5	49.1	66.2	70.4	76.7	73.0	69.2	58.2	52.2	34.5	54.5	99	0	Apr. 15	Oct. 15
Nuttallburg	30.2	25.7	44.6	51.2	67.1	69.0	74.8	72.0	67.4	60.0	55.1	38.4	54.6	97	1	Apr. 14	Oct. 15
Oceana	31.8	30.0	45.2	51.4	67.2	.....	74.7	.....	.....	.....	.....	37.4	.....	96	0	Apr. 18	.....
Oldfields	32.4	27.8	44.8	50.6	64.7	67.0	.....	.....	°63.9	.....	49.4	33.5	.....	98	1	Apr. 15	Sept. 14
*Parkersburg	30.6	26.1	44.6	51.7	67.0	69.8	75.6	72.0	66.2	57.8	51.6	34.2	53.9	96	4	Apr. 15	Oct. 15
Parsons	27.6	25.2	41.2	.....	58.8	64.4	71.7	67.6	62.5	53.3	46.5	.....	.....	95	— 3	May 15	Oct. 14
Philippi	25.6	20.9	.....	.....	.....	66.8	72.2	68.6	63.4	55.0	49.4	33.4	.....	93	—14	May 15	Sept. 15
Pickens	.....	.....	.....	45.6	63.0	63.6	69.2	66.8	62.0	55.3	48.5	31.6	.....	89	.....	May 29	Oct. 15
Point Pleasant	33.2	28.2	46.6	53.6	69.4	71.2	77.3	72.9	67.2	60.6	53.7	32.5	55.5	97	4	Apr. 15	Oct. 15
Powellton	32.8	29.7	46.2	52.4	67.7	69.6	75.9	73.0	.....	.....	.....	.....	.....	98	4	Apr. 15	.....
Princeton	31.2	28.2	42.8	49.2	64.8	66.4	71.5	69.1	62.6	54.9	48.9	36.0	52.1	89	1	Apr. 18	Sept. 16
Rippon	.....	.....	.....	51.4	63.8	72.1	78.2	71.6	.....	57.2	.....	.....	.....	.....	.....	Apr. 14	Oct. 22
Romney	29.8	26.0	43.1	50.3	64.4	69.2	75.8	70.4	65.6	55.4	49.0	33.2	52.7	98	— 1	May 10	Sept. 15
Ryan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.6	63.0	.....	.....	.....	.....	.....
Southside	33.5	29.6	46.6	52.6	68.5	71.4	77.0	73.7	67.8	58.6	51.4	36.6	55.6	96	7	Apr. 8	Oct. 15
Summersville	29.2	25.4	42.1	48.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 29	.....
Terra Alta	24.6	20.6	39.0	44.2	59.8	62.0	68.4	64.3	60.3	52.8	46.5	28.6	47.6	87	— 5	May 10	Sept. 14
Travellers Repose	.....	.....	.....	.....	.....	.....	.....	64.6	58.8	°50.8	44.8	‡30.1	.....	.....	.....	.....	Oct. 10
Uppertract	31.0	25.8	42.9	49.4	63.6	66.8	71.8	69.6	64.2	56.0	50.3	35.2	52.2	96	— 1	May 10	Sept. 14
Wellsburg	27.2	23.2	41.6	47.4	62.1	65.4	72.2	67.2	62.7	54.2	48.4	30.0	50.1	89	— 2	May 10	Oct. 15
Weston	31.6	26.6	44.8	51.2	69.6	71.8	77.2	72.5	67.0	59.0	52.5	36.4	55.0	96	— 7	Apr. 18	Oct. 15
Wheeling	32.4	29.2	48.2	55.0	68.9	72.4	79.4	73.5	68.8	59.4	52.2	35.2	56.2	99	2	Apr. 8	Oct. 22
Williamson	33.4	30.4	46.1	53.0	68.0	70.8	72.4	73.9	67.2	59.1	52.7	37.4	55.4	96	7	Apr. 13	Oct. 20
Wisconsin.																	
Amherst	15.4	16.4	35.4	42.4	.....	59.8	69.4	66.0	55.4	47.1	41.4	.....	.....	90	—25	.....	.....
Antigo	16.0	15.8	34.0	41.0	54.8	.....	69.2	64.6	55.9	46.6	.....	.....	.....	91	—28	.....	Sept. 12
Appleton	18.8	18.2	35.2	43.8	55.9	61.2	70.2	64.8	58.4	49.2	40.9	19.9	44.7	88	—18	May 11	Sept. 13
Barron	13.6	13.7	34.8	43.4	57.2	59.7	69.4	62.4	57.4	49.4	.....	.....	.....	88	—38	May 10	Sept. 13
Bayfield	.....	.....	.....	.....	.....	.....	.....	.....	56.0	45.8	33.1	17.6	.....	.....	.....	.....	.....
Beloit	22.8	17.4	39.0	47.5	61.3	65.0	70.9	67.1	58.8	51.8	43.7	18.8	47.0	87	—13	Apr. 14	Nov. 6
Brodhead	21.8	16.6	36.6	47.6	62.4	64.6	72.2	67.7	60.0	53.2	44.8	°21.8	47.6	91	—23	Apr. 16	Oct. 14
Butternut	12.8	13.9	32.6	39.5	54.6	57.3	68.0	59.4	51.6	41.1	33.0	†13.0	39.7	92	—34	June 23	Aug. 22
Chilton	17.4	17.0	34.6	43.8	55.4	59.8	70.2	64.3	56.5	47.9	40.2	18.4	43.8	91	—18	May 14	Nov. 6
Citypoint	19.0	18.2	37.1	47.5	60.5	63.3	73.6	.....	°57.8	.....	.....	19.6	.....	98	—18	.....	.....
Darlington	16.4	.....	35.2	42.7	58.7	63.1	70.6	64.6	56.0	49.6	37.9	16.8	.....	89	—28	Apr. 27	Sept. 12
Delavan	21.8	18.3	38.4	44.6	61.3	63.5	72.4	66.5	59.2	51.8	.....	.....	.....	90	—16	Apr. 17	.....
Dodgeville	19.2	15.0	35.4	44.8	59.6	63.1	71.8	67.6	58.4	51.3	41.8	18.2	45.5	90	—24	Apr. 23	Sept. 13
Downing	.....	.....	.....	.....	.....	.....	.....	62.6	55.6	46.8	35.8	16.2	.....	.....	.....	.....	.....
Easton	18.3	15.4	35.8	45.6	56.9	64.0	71.8	66.2	58.2	49.5	40.4	18.3	45.0	93	—30	May 10	Sept. 12
Eau Claire	16.6	15.0	37.7	45.9	60.4	64.4	71.8	67.0	58.6	49.0	38.2	17.2	45.2	89	—33	May 9	Sept. 13
Florence	15.0	17.4	33.6	41.3	54.9	57.6	68.6	62.6	53.6	43.6	35.4	18.1	41.8	88	—26	June 5	Sept. 12
Fond du Lac	21.8	19.8	38.4	46.8	59.9	63.0	71.6	65.2	58.4	50.4	43.6	23.5	46.9	91	—16	May 10	Sept. 12
Grantsburg	13.8	14.4	32.5	42.8	60.4	61.0	70.0	63.8	54.4	45.8	34.6	13.4	42.2	92	—35	May 10	Sept. 13
*Greenbay	19.4	19.4	35.4	43.5	56.4	61.4	71.3	65.5	57.6	48.6	41.2	22.2	45.2	91	—18	May 10	Oct. 4
Hancock	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39.4	18.2	.....	.....	.....	.....	.....
Harvey	21.4	18.2	37.0	46.3	59.2	63.7	71.2	66.0	58.2	50.4	42.8	21.2	46.3	90	—16	May 10	.....
Hayward	15.1	13.6	35.0	40.8	56.8	58.4	69.5	62.8	55.8	45.0	34.0	15.0	41.8	90	—39	June 21	Sept. 12
Hillsboro	18.1	14.4	35.8	44.4	56.8	61.6	70.2	64.6	56.7	49.2	39.8	17.0	44.2	91	—31	May 10	Sept. 12
Knapp	.....	°20.6	39.9	.....	63.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Koepenick	15.0	15.2	35.1	41.6	56.8	60.4	67.8	63.0	54.8	45.3	35.4	17.8	42.4	96	—35	June 23	Aug. 12
*La Crosse	20.4	17.0	38.0	46.8	62.0	64.2	72.6	67.8	58.8	51.9	41.0	19.8	46.7	91	—24	Apr. 3	Oct. 14
Ladysmith	14.9	13.6	34.8	41.2	57.4	59.9	69.1	62.8	55.0	46.0	36.1	15.4	42.2	88	—35	.....	Sept. 13
Lancaster	20.2	15.7	37.8	46.4	61.2	63.0	71.0	67.0	57.7	51.4	40.8	18.4	45.9	90	—26	May 10	Sept. 12
*Madison	21.0	17.9	36.4	45.6	59.8	63.2	71.3	67.4	58.2	51.4	41.9	20.7	46.3	86	—15	Apr. 15	Nov. 7
Manitowoc	21.8	20.6	35.6	42.7	54.8	59.8	69.0	64.5	54.5	49.2	42.4	24.6	45.0	94	—15	Apr. 16	.....
Meadow Valley	17.2	14.0	35.6	.....	58.5	61.4	70.8	65.7	56.8	48.6	39.8	17.6	.....	93	—29	May 15	Sept. 12
Medford	16.6	16.6	35.1	44.2	58.0	62.7	72.7	67.6	57.9	46.4	35.8	18.2	44.3	99	—30	May 10	Sept. 13
*Milwaukee	23.7	21.7	37.3	44.9	55.6	61.8	71.1	67.1	59.0	53.2	44.9	25.8	47.2	91	—10	Apr. 15	Oct. 14
Neillsville	13.8	14.2	37.0	44.4	59.6	63.2	71.7	67.4	57.4	48.4	38.9	17.6	44.5	94	—38	May 15	Sept. 13
New Holstein	19.6	.....	37.0	44.6	57.2	.....	.....	.....	57.6	49.6	40.4	20.1	.....	.....	—17	May 14	Sept. 12
New London	17.8	17.4	35.5	44.2	56.7	62.0	71.4	65.4	57.4	48.2	39.5	19.4	44.6	93	—23	.....	.....
North Crandon	°12.6	14.6	°31.1	40.8	54.2	.....	.....	°61.1	°52.1	°43.2	°32.8	17.0	.....	.....	—32	May 29	Aug. 12
Oconto	19.9	20.1	37.0	43.9	56.2	61.6	70.4	65.2	58.3	48.4	42.6	21.8	45.4	93	—24	May 15	Nov. 6
Osceola	13.2	12.8	34.1	40.7	57.6	61.2	69.4	64.4	56.6	45.7	34.0	13.8	42.0	89	—37	May 27	Sept. 13
Oshkosh	20.7	19.7	°37.8	45.5	57.6	°65.1	71.6	66.0	59.7	50.3	41.6	21.4	46.4	91	—19	May 10	Nov. 7
Pepin	19.9	19.9	36.4	43.6	60.6	65.0	74.4	69.2	59.4	51.0	38.2	.....	.....	92	—32	May 8	Sept. 12
Pine River	18.2	17.1	36.0	45.9	58.2	61.7	71.2	65.4	57.4	49.3	39.9	18.0	44.9	93	—25	May 10	Sept. 12
Portage	21.6	19.4	37.8	48.1	61.5	64.2	71.6	67.0	59.1	51.8	42.7	21.0	47.2	90	—21	May 10	Nov. 3
Port Washington	21.1	19.2	35.1	41.8	58.1	59.4	68.8	64.4	56.2	51.4	42.6	23.2	44.7	92	—19	May 27	Sept. 10
*Prairie du Chien	22.3	18.0	40.0	46.8	63.1	65.8	73.4	69.0	60.6	56.5	48.2	23.8	49.0	95	—26	Apr. 24	Sept. 12
Prentice	°17.3	°14.1	33.2	41.2	56.1	58.2	67.6	62.0	52.9	44.6	34.5	14.5	41.4	87	—28	June 27	Sept. 13
Racine	24.6	21.2	38.4	46.8	57.5	62.6	71.8	68.2	61.0	54.3	45.8	25.8	48.2	95	—14	Apr. 20	Nov. 7
Sheboygan	23.6	21.3	36.6	43.8	57.0	60.8	70.8	65.8	58.0	52.6	44.2	25.7	46.7	94	—13	Apr. 15	Oct. 29
Spooner	.....	.....	32.4	39.6	°58.2	59.6	69.1	°63.4	.....	.....	.....	12.2	.....	87	.....	June 21	.....
Stevens Point	17.4	14.6	36.4	44.6	57.2	61.4	70.5	66.2	56.6	47.4	39.0	18.2	44.1	92	—34	May 10	Sept. 13
Tomahawk	.....	.....	.....	.....	.....	.....	.....	.....	53.5	43.2	34.1	14.8	.....	.....	.....	.....	.....
Valley Junction	21.8	°18.2	.....	.....	.....	.....	73.4	66.6	58.1	51.4	39.2	19.8	.....	90	—22	.....	Sept. 13
Viroqua	13.8	15.9	36.9	44.7	59.0	61.1	69.4	65.2	58.1	50.0	39.8	16.8	44.6	88	—23	May 10	Nov. 3
*Watertown	20.8	17.6	36.7	45.2	58.6	62.5	70.5	65.7	57.2	49.4	42.2	20.2	45.6	90	—20	May 9	Nov. 3

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Wisconsin—Continued.																	
Waukesha	20.8	20.6	37.0	45.0	57.6	61.8	71.0	66.0	56.0	51.4	42.8	22.4	46.2	88	−14	May 10	Nov. 7
Waupaca	17.0	16.6	35.6	44.6	56.8	62.2	71.4	65.6	57.4	48.4	39.0	18.7	44.4	92	−30	May 10	Sept. 19
Wausau	16.8	17.4	35.2	43.4	57.2	61.0	68.8	64.5	56.2	46.8	38.3	19.2	43.7	91	−31	May 27	Sept. 19
Wausaukee	18.2	18.2	36.8	42.8	55.9	61.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	June 5	.....
Westfield	19.8	18.1	36.2	45.9	58.8	63.7	72.2	66.4	58.1	.....	.....	.....	.....	92	−24	.....	.....
Whitehall	17.1	14.0	37.8	45.7	60.6	62.9	70.4	66.0	57.6	49.8	40.1	16.4	44.9	91	−35	May 9	Sept. 13
Wyoming.																	
Alcova	26.4	33.8	34.7	44.3	59.1	65.8	68.6	71.4	59.1	50.5	37.2	28.0	48.2	103	−21	May 19	Sept. 17
Basin	12.4	23.4	36.3	45.6	61.4	67.1	74.0	72.8	59.0	49.0	31.8	20.4	46.1	107	−39	May 4	Sept. 18
Bedford	16.0	28.6	28.3	38.3	48.2	55.8	59.2	58.8	50.2	42.8	29.0	17.6	39.4	92	−26	(†)	(†)
Border	13.9	24.1	24.6	37.9	48.1	56.4	58.8	60.3	49.4	41.4	28.1	9.2	37.7	90	−35	(†)	(†)
Buffalo	23.2	28.6	32.0	40.9	54.6	59.6	65.0	66.0	53.8	47.9	34.0	25.2	44.2	97	−24	June 21	Sept. 12
Burlington	20.8	32.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−22	.....	.....
Casper	.....	35.0	‡35.5	44.2	.....	63.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Centennial	‖19.8	23.9	‡23.8	33.8	46.6	59.0	62.4	58.4	52.0	43.7	29.8	26.0	39.9	89	−20	June 21	Aug. 27
*Cheyenne	25.5	31.2	31.1	41.6	52.8	61.0	63.8	67.0	54.0	47.8	35.8	28.6	45.0	94	−27	May 21	Sept. 12
Chugwater	26.0	31.3	34.3	43.0	53.6	61.3	62.9	‖65.4	55.1	47.4	‡36.0	28.6	45.4	93	−34	June 3	Sept. 6
Daniel	9.3	20.6	15.6	31.8	42.7	51.0	53.2	54.8	45.6	40.6	24.5	14.2	33.7	85	−34	(†)	(†)
Diamondville	18.6	27.6	24.0	38.3	47.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	−22	.....	.....
Embar	24.5	‖34.9	38.4	48.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−25	.....	.....
Evanston	20.1	28.0	28.6	37.7	46.6	55.2	57.6	59.2	52.0	42.4	30.2	20.8	39.4	89	−21	(†)	(†)
Fort Laramie	24.4	27.6	35.8	45.8	57.4	65.6	68.7	72.2	58.6	50.0	38.0	27.0	47.6	103	−30	May 6	Sept. 1
Fort Washakie	20.6	31.2	32.4	43.0	54.8	62.5	65.6	67.4	56.4	47.8	34.0	23.1	44.9	99	−33	May 22	Sept. 12
Fort Yellowstone	17.4	26.7	25.0	36.6	48.4	54.0	58.2	59.3	51.0	44.2	28.9	22.8	39.4	86	−30	June 20	Aug. 20
Fourbear	21.0	27.7	25.6	35.8	48.4	51.8	56.6	58.8	47.9	43.4	31.2	26.0	39.5	86	−32	June 21	Aug. 10
Gillette	.....	.....	‡33.2	40.8	55.4	61.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Griggs	23.3	30.0	32.8	41.6	56.6	60.6	65.3	66.8	55.0	47.6	36.4	23.5	44.9	99	−41	June 3	Sept. 12
Hyattville	21.8	29.6	33.6	44.9	57.4	63.2	68.9	69.0	.....	.....	36.6	27.7	.....	101	−32	May 6	.....
Irma	.....	32.4	32.6	42.8	54.5	59.6	65.4	63.0	54.5	48.7	36.9	31.0	.....	99	.....	June 3	Sept. 12
Iron Mountain	25.4	32.2	31.2	42.2	53.2	61.0	63.3	66.0	54.5	46.5	35.8	28.8	45.0	94	−22	June 21	Sept. 9
Kemmerer	.....	.....	.....	.....	.....	55.2	60.0	60.8	.....	.....	.....	.....	.....	95	.....	.....	.....
Kimball Ranch	‖22.2	‖34.8	‖34.7	.....	.....	.....	.....	.....	54.2	‖50.2	34.8	‖29.4	.....	.....	−30	.....	.....
*Lander	18.9	29.2	31.0	41.8	53.8	61.6	63.4	65.6	54.2	46.2	32.8	22.6	43.4	94	−30	Apr. 23	Sept. 12
Lagrange	.....	.....	.....	.....	‖59.0	64.7	66.6	69.4	‖57.7	51.6	.....	‖26.3	.....	100	.....	.....	Sept. 12
Laramie	22.2	29.0	27.5	‖38.6	49.0	58.0	59.8	62.2	51.5	44.4	32.6	24.0	41.6	91	−18	May 22	Sept. 10
Leo	19.0	25.8	26.4	38.0	48.8	57.0	59.8	62.0	50.4	43.4	29.8	20.0	40.0	93	−36	(†)	(†)
Lolobama Ranch	.....	.....	.....	.....	.....	51.2	54.2	55.4	46.9	41.0	27.6	20.8	.....	86	.....	(†)	(†)
Lovell	‖15.4	24.6	‖33.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−34	.....	.....
Lusk	22.0	27.0	31.4	40.3	55.5	60.4	65.7	66.9	54.6	47.1	32.8	20.6	43.7	99	−30	June 20	Aug. 20
Moore	26.4	33.0	32.3	43.0	58.5	60.6	62.2	65.4	55.2	‖48.8	36.6	28.8	45.5	96	−22	June 21	Aug. 26
Parkman	26.6	29.3	29.6	41.2	54.4	57.2	63.8	65.0	55.6	‖47.4	‖32.4	‖24.1	43.9	93	−31	July 6	Aug. 10
Pinebluff	24.8	31.6	34.8	45.0	56.6	64.7	66.6	70.0	58.2	48.8	37.4	26.1	47.0	101	−25	May 21	Sept. 12
Rawlins	21.2	30.0	31.4	44.5	53.4	61.6	63.3	65.6	53.6	44.4	31.7	24.2	43.7	102	−20	June 2	Sept. 8
Redbank	22.6	30.1	30.6	43.1	55.0	61.8	65.3	67.2	56.8	49.2	36.8	.....	.....	98	−33	May 5	Sept. 12
Saratoga	23.4	28.2	28.3	40.4	51.2	61.2	63 0	64.6	54.4	46.1	31.8	24.8	43.1	95	−15	June 3	Sept. 12
Sheridan	21.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−30	.....	.....
South Pass City	10.6	.....	18.8	31.4	42.4	51.2	54.8	58.0	47.4	36.9	23.2	13.8	.....	86	−25	(†)	(†)
Thayne	15.1	28.2	26.6	37.3	48.9	56.5	57.5	58.2	50.0	41.2	28.5	16.8	38.7	89	−26	(†)	(†)
Thermopolis	17.7	26.5	35.8	46.0	59.2	64.6	69.6	70.4	58.6	47.8	34.8	25.0	46.3	104	−38	May 7	Sept. 12
Porto Rico.																	
Adjuntas	68.7	70.5	69.4	71.6	73.0	73.3	72.6	73.3	73.1	73.1	72.0	70.4	71.8	92	50	.....	.....
Aguadilla	74.6	75.7	76.1	78.6	80.9	82.8	82.8	81.6	80.2	78.2	77.6	76.4	78.7	97	60	.....	.....
Aguirre	77.4	77.8	76.0	77.9	79.0	79.8	80.6	80.2	‖81.3	80.1	78.4	77.5	78.8	93	62	.....	.....
Arecibo	74.7	75.4	74.8	77.0	79.2	80.5	80.5	78.6	78.8	77.0	75.8	73.5	77.2	95	54	.....	.....
Barros	70.4	70.7	71.6	71.8	74.4	76.2	76.3	75.8	74.0	73.4	72.0	69.7	73.0	92	51	.....	.....
Bayamon	76.0	77.5	75.6	78.1	79.8	80.4	81.2	81.6	81.4	81.0	78.6	.....	.....	97	59	.....	.....
Caguas	72.2	71.8	71.0	74.2	76.0	77.2	77.2	78.2	76.4	74.6	74.0	72.4	74.6	95	48	.....	.....
Canovanas	75.6	78.2	76.4	78.6	80.0	81.2	81.7	82.2	81.5	80.0	78.4	77.4	79.3	95	65	.....	.....
Cayey	71.7	74.5	73.7	75.2	76.9	78.4	82.0	81.4	79.4	77.4	74.0	74.2	76.6	98	51	.....	.....
Cidra	77.3	76.9	78.0	79.2	75.2	74.8	76.2	76.8	75.6	74.6	72.8	72.3	75.8	95	54	.....	.....
Coamo	.....	75.6	76.1	76.8	77.0	78.2	80.3	81.5	78.5	79.2	78.4	75.4	.....	96	58	.....	.....
Corozal	72.6	73.5	70.8	73.8	76.4	‖78.6	.....	.....	.....	.....	.....	‖73.1	.....	96	51	.....	.....
Fajardo	77.0	78.3	77.2	78.8	80.0	80.6	82.2	83.0	81.2	79.2	77.2	76.7	79.3	95	64	.....	.....
Guanica	.....	.....	76.5	.....	.....	.....	79.6	79.7	79.6	78.7	77.7	77.0	.....	94	56	.....	.....
Hacienda Amistad	.....	.....	.....	74.0	76.4	77.2	77.9	78.5	78.0	77.0	75.8	73.8	.....	94	54	.....	.....
Hacienda Colosa	73.5	72.8	70.9	75.8	77.4	78.6	78.0	78.8	78.0	76.8	76.0	74.6	75.9	93	56	.....	.....
Hacienda Perla	74.6	76.0	74.7	76.8	77.9	78.4	79.6	81.2	80.5	79.4	77.6	76.6	77.8	98	60	.....	.....
Humacao	77.8	79.0	77.4	79.3	81.4	81.9	84.0	84.4	83.2	82.9	81.7	79.5	81.0	91	58	.....	.....
Isabela	75.8	75.6	76.2	77.2	78.4	79.1	80.0	80.5	78.4	77.2	76.3	74.6	77.4	90	62	.....	.....
Juan Diaz	76.9	77.2	77.1	78.4	‖79.0	80.4	81.4	.....	.....	79.6	79.6	77.6	.....	95	61	.....	.....
La Isolina	71.2	73.2	72.2	74.7	75.2	77.9	‖78.0	78.2	77.4	76.4	75.4	‖74.3	75.3	92	58	.....	.....
Las Marias	75.1	75.4	75.5	75.6	76.6	78.2	78.6	78.6	78.6	77.4	76.8	76.2	76.9	92	61	.....	.....
Manati	75.1	76.6	75.1	76.8	78.8	80.0	79.6	80.8	79.7	78.7	77.0	75.4	77.8	97	57	.....	.....
Maunabo	76.4	77.8	78.4	79.0	80.8	79.2	82.4	84.5	82.0	79.8	77.3	76.7	79.5	96	65	.....	.....
Mayaguez	73.4	75.0	77.0	76.2	79.6	80.8	80.0	80.3	80.0	78.1	77.5	75.8	77.8	97	59	.....	.....
Morovis	.....	.....	.....	75.8	77.3	80.0	‖79.9	80.4	79.5	78.0	77.3	74.7	.....	98	59	.....	.....
Ponce	75.0	75.0	75.2	‖76.9	‖77.6	79.2	80.3	80.7	80.1	79.8	‖78.8	76.6	77.9	94	59	.....	.....
*San Juan	75.4	77.2	75.4	77.4	78.2	79.4	80.3	80.9	80.4	79.8	77.9	77.1	78.3	92	66	.....	.....
San German	.....	‖78.0	76.0	78.6	82.0	82.0	82.4	82.0	81.7	80.6	78.2	76.0	.....	96	61	.....	.....
San Lorenzo	74.7	74.9	73.9	75.9	78.2	78.5	78.8	79.6	79.0	77.9	74.9	73.9	76.7	93	55	.....	.....
San Salvador	70.9	71.9	71.0	72.5	74.3	75.6	75.4	76.2	75.4	75.4	73.7	71.2	73.6	91	56	.....	.....
Santa Isabel	‖76.2	76.4	75.8	77.4	79.0	79.7	80.8	80.3	80.2	79.5	78.0	76.0	78.3	92	60	.....	.....
Utuado	72.8	74.6	74.2	76.6	79.3	79.4	80.6	80.6	79.6	77.5	74.5	74.6	77.0	96	51	.....	.....
Viegues	75.2	77.0	79.9	79.0	83.5	83.4	82.6	80.5	.....	81.9	.....	.....	.....	91	66	.....	.....
Yauco	74.0	75.4	73.7	76.2	77.9	79.4	.....	79.6	79.2	77.8	77.5	75.0	.....	89	59	.....	.....

† Every month.

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PART V.

MONTHLY AND ANNUAL PRECIPITATION, 1902—ALL STATIONS.

The precipitation values given in the following tables have been taken largely from the records of voluntary (unpaid) observers. The paid stations of the Weather Bureau are indicated by an asterisk (*). Probably two-thirds of the voluntary observers have standard rain gages, the remainder having gages similar in pattern to the standard, or, in a few cases, improvised gages of their own construction.

The bracketed values have been obtained by a comparison of the data for adjacent stations, and are to be considered only as an approximation to the true amount.

When two or more observers reside in the same city, the reports of all are given. The discrepancies between the amounts recorded by the separate observers are often considerable; in general, they are due to differences in exposure, although at times one observer may make the last measurement of the month at 6 o'clock a. m., whereas another observer may defer it to 9 p. m., thus causing a difference in the amounts recorded on the first and last days of the month.

The small roman letters in the body of the table indicate the number of days missing from the records for the months in which they appear; thus "c" indicates three days missing, "d" four days, etc.

The monthly and seasonal amounts of snowfall for the winter of 1902–1903 are given for selected stations in the United States at the end of Part V.

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Alabama.													
Ashville	4.34	6.60	10.22	2.10	0.59	0.99	3.07	2.12	6.01	4.28	4.17	6.12	50.61
Benton	4.08	7.93	9.93	1.96	6.10	0.35	.....	3.49	3.58	3.28	4.82	6.88	.....
Bermuda	3.05	11.03	9.32	2.65	3.03	1.00	8.52	11.09	5.00	1.42	4.07	8.05	68.23
*Birmingham	3.79	6.64	10.41	4.52	3.29	1.76	2.21	3.53	3.76	4.60	4.46	5.44	54.41
*Bridgeport	4.44	4.11	6.62	1.85	1.61	1.90	4.18	4.84	3.44	3.43	5.56	4.64	46.62
Burkville	4.22	6.66	10.25	2.10	3.45	0.75	2.45	3.45	4.25	3.45	4.65	7.05	52.73
Calera	4.58	7.49	12.60	2.81	1.65	0.06	3.07	3.08	2.60	3.97	3.44	7.04	52.39
Camp Hill	2.90	8.78	10.08	[1]2.50	.....	.....	.....	4.40	2.20	2.33	5.03	4.80	.....
Citronelle	2.13	8.13	8.58	2.51	3.70	0.21	5.37	3.79	6.23	6.53	3.47	7.91	58.56
*Clanton	7.60	7.24	.....	[1]2.03	4.89	0.27	1.87	3.09	2.08	5.13	5.53	7.67	.....
*Cordova	4.02	6.40	10.23	3.76	.....	1.00	0.51	2.49	2.37	2.50	[1]2.55	5.30	.....
Daphne	1.95	6.45	6.43	1.15	5.53	1.50	2.25	2.25	8.67	4.53	3.42	6.64	50.77
*Decatur	4.23	4.08	6.38	2.02	1.28	3.69	1.94	1.28	2.46	3.07	5.71	4.80	40.91
*Demopolis	3.87	5.10	7.96	2.56	2.56	1.16	1.25	4.63	3.31	5.03	3.16	5.38	45.97
Dothan	.....	.....	.....	0.60	4.06	2.31	2.44	.....	.....	3.34	4.07	2.99	.....
Elba	.....	.....	.....	.....	2.08	2.40	2.33	3.01	.....	.....	.....	.....	.....
*Eufaula	1.32	11.28	11.72	1.57	2.09	3.20	2.87	4.38	5.22	4.92	1.95	5.59	56.11
Eutaw	4.13	3.71	10.43	1.90	3.52	0.61	1.45	3.52	3.56	.....	3.37	5.60	.....
*Evergreen	3.48	.....	7.56	2.90	4.75	0.21	6.63	6.30	7.85	2.30	3.70	4.65	.....
Flomaton	3.11	9.87	6.68	3.31	7.65	.....	.....	6.50	5.15	3.20	4.45	5.77	.....
*Florence [1]	6.01	3.14	6.23	2.52	0.37	3.74	2.20	3.05	6.10	2.13	5.23	6.14	46.86
Florence [2]	5.80	3.29	6.76	2.50	0.47	4.02	3.56	3.29	5.28	2.05	5.79	5.75	48.56
*Fort Deposit	2.16	9.75	6.87	1.14	3.62	1.50	1.73	2.46	1.39	3.90	4.06	8.74	47.32
*Gadsden	4.03	6.88	9.98	2.14	0.91	0.71	2.14	2.09	4.60	3.34	2.73	6.79	46.34
*Goodwater	3.92	5.96	11.12	2.84	2.01	0.44	6.63	3.10	2.93	2.53	4.45	5.76	51.70
Greensboro	4.61	5.28	12.69	2.04	4.91	0.35	2.01	3.36	3.84	5.90	2.89	5.91	53.79
Greenville	4.30	9.53	7.75	1.60	5.65	0.70	3.65	3.90	3.25	.....	3.22	4.37	.....
Hamilton	4.74	3.37	8.39	4.88	0.41	1.32	1.80	5.44	3.97	1.65	5.93	5.34	47.24
Healing Springs	4.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Helena	.....	.....	.....	.....	3.24	1.60	1.20	2.20	0.40	3.33	4.25	5.82	.....
Highland Home	2.63	10.29	7.67	1.90	1.83	0.33	1.39	3.06	3.12	2.42	4.80	7.34	46.78
Letohatchee	2.90	7.66	7.77	1.34	0.95	0.05	0.20	0.59	0.08	3.88	4.19	9.20	38.81
*Livingston	2.36	3.11	10.31	1.76	2.39	2.45	1.22	0.78	4.17	3.50	3.40	5.67	41.12
Lock No. 4	3.56	6.86	9.26	1.82	1.43	1.15	1.25	2.22	3.33	3.25	3.78	7.00	45.41
Madison	3.22	4.60	5.70	2.50	0.92	1.15	0.60	2.04	3.32	3.70	6.10	4.05	37.90
Maplegrove	5.58	5.59	10.57	3.03	0.89	0.63	2.01	1.79	5.73	3.98	4.71	5.91	50.42
*Marion	3.70	7.10	8.60	2.65	1.30	0.44	2.08	3.87	3.59	5.31	3.12	3.68	45.39
*Milstead	.....	.....	.....	.....	.....	.....	2.08	.....	7.80	.....	.....	6.35	.....
*Mobile	2.79	8.82	6.52	2.07	3.00	0.53	2.65	3.30	4.60	4.50	2.53	7.35	48.66
*Montgomery	3.78	8.72	8.60	2.09	5.62	1.57	0.43	2.53	2.94	3.24	3.69	5.46	48.62
Mount Willing	4.05	9.89	8.63	.....	4.73	T.	.....	.....	.....	.....	.....	.....	.....
Newbern	4.38	5.23	8.17	2.59	3.51	0.68	4.48	5.60	3.99	6.10	3.20	5.58	53.51
Newburg	.....	2.71	7.82	3.21	.....	.....	.....	.....	6.06	2.44	6.69	6.99	.....
Notasulga	3.71	.....	.....	3.04	1.81	0.24	2.59	2.65	6.58	4.74	5.71	6.38	.....
Oneonto	4.68	6.40	9.41	2.43	2.14	1.51	3.03	2.55	2.53	2.56	4.79	4.44	46.47
*Opelika	4.37	10.75	12.48	3.33	0.87	1.14	3.53	7.26	5.37	8.18	6.75	6.27	70.30
Oxanna	4.13	4.92	7.59	2.58	1.21	0.24	2.09	3.04	.....	.....	.....	.....	.....
*Ozark	.....	.....	.....	.....	5.59	1.30	3.30	5.30	4.78	3.23	4.46	3.07	.....
Prattville	.....	.....	.....	.....	1.80	T.	2.70	1.03	5.77	3.24	5.83	6.55	.....
Pushmataha	5.65	3.42	8.11	2.75	1.91	1.15	4.72	5.18	4.53	4.10	4.34	5.66	51.52
Riverton	5.52	3.21	12.48	2.54	1.45	3.92	2.08	4.86	12.41	1.39	5.15	7.08	62.04
Scottsboro	5.40	4.73	6.85	2.63	2.35	1.45	2.22	3.87	2.72	3.68	4.47	4.51	44.88
*Selma	3.51	6.01	6.28	1.27	2.16	0.63	1.97	3.39	4.11	5.73	4.50	5.90	45.46
Talladega	4.76	6.58	10.96	1.90	0.85	0.83	3.59	3.44	5.50	2.10	3.42	6.15	50.08
*Tallassee	2.11	9.62	12.04	2.96	2.12	0.52	0.75	4.16	5.51	.....	3.31	5.24	.....
*Thomasville	.....	6.22	5.31	1.19	1.37	T.	2.71	4.88	4.62	2.90	2.60	2.50	.....
*Tuscaloosa	3.54	5.77	9.20	2.54	2.56	1.41	1.08	2.72	4.67	2.72	3.66	4.86	44.73
*Tuscumbia	6.00	3.21	6.11	2.53	1.24	4.81	2.15	4.05	5.30	1.68	3.79	.....	.....
Tuskegee	3.04	.....	9.92	1.33	2.19	0.57	2.11	2.38	8.54	3.73	4.51	6.51	.....
*Union Springs	4.10	15.40	10.82	1.62	4.36	3.62	4.80	1.90	2.06	8.65	2.55	7.35	67.17
Uniontown	4.22	6.86	7.46	2.79	3.65	0.02	0.52	4.60	1.74	7.84	3.31	5.75	48.76
Valleyhead	4.23	4.60	5.86	3.44	2.37	2.14	2.03	2.17	2.54	4.00	3.39	3.83	40.60
Verbena	3.25	7.28	11.55	1.06	4.06	0.00	1.07	4.29	1.83	5.09	.....	6.65	.....
Wetumpka	2.36	9.54	10.40	2.35	1.84	0.14	1.33	3.28	2.59	3.10	4.23	5.34	46.50
Alaska.													
Coal Harbor	6.53	4.24	5.34	4.76	2.98	0.33	1.70	3.05	4.98	4.49	6.48	1.20	46.08
Copper Center	.....	.....	.....	.....	.....	.....	.....	1.08	0.73	2.02	1.50	0.20	.....
Fort Egbert	.....	T.	0.17	0.84	0.64	1.15	2.56	1.28	0.65	0.76	0.62	0.51	.....
Fort Liscum	9.64	1.28	4.70	2.80	3.08	0.24	3.65	8.56	15.72	18.20	6.98	4.43	79.28
Fort Yukon	0.88	.....	.....	0.58	.....	.....	.....	0.74	.....	2.37	1.00	0.75	.....
Fort Gibbon	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.57	0.14	1.36	.....
Juneau Wharf	12.76	2.08	5.64	4.34	3.99	2.41	7.60	12.10	14.24	6.57	7.38	4.26	83.37
Kenai	0.80	0.44	0.50	1.03	0.42	0.59	1.71	2.92	4.69	2.73	0.86	1.55	18.24
Ketchikan	.....	.....	.....	.....	.....	3.31	5.62	22.39	.....	.....	.....	.....	.....
Killisnoo	6.95	2.65	1.50	2.10	3.70	1.60	3.80	4.80	7.20	4.60	2.75	2.90	44.55
Nushagak	1.40	.....	2.45	2.11	1.30	0.40	3.00	.....	.....	.....	.....	.....	.....
Orca	12.02	7.25	0.60	.....	.....	.....	.....	.....	.....	35.56	11.10	11.40	.....
Point Barrow	T.	0.20	0.05	T.	T.	0.46	1.51	0.48	0.38	1.21	.....	0.10	.....
Sitka	11.92	2.25	5.39	4.93	6.10	1.87	7.35	14.96	13.43	8.25	6.19	5.93	88.57
Skagway	.....	.....	.....	.....	0.13	0.30	2.95	3.03	1.66	1.75	1.24	1.44	.....
Teller	0.62	.....	0.09	.....	.....	0.10	2.98	1.18	.....	.....	.....	.....	.....
Tyoonok	3.08	0.52	1.09	0.71	0.88	0.00	2.93	5.40	6.46	4.93	0.94	1.72	28.16
Wood Island	4.59	6.29	4.33	3.01	5.55	1.55	1.87	6.15	5.23	3.75	1.06	4.95	48.27

[1] River observer.

[2] Richard Smith.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Arizona.													
Agua Caliente	0.45	T.	0.33	0.00	.....	.....	0.00	.....	.....	.....	.....	.....	.....
Allaire Ranch	0.36	0.05	0.51	0.00	0.08	0.02	1.48	2.92	0.32	0.40	1.72	2.22	10.08
Arizona Canal Company Dam	1.10	0.15	0.45	0.00	0.41	0.13	0.83	0.80	1.84	0.00	1.92	2.32	9.95
Ashfork	.....	.....	.....	0.10	0.01	.....	0.30	1.00	T.	.....	.....	.....	.....
Aztec	0.25	0.00	0.30	0.00	0.00	0.00	T.	0.15	0.00	0.00	2.00	1.25	3.95
Benson	0.00	0.00	T.	T.	0.00	0.10	T.	1.29	0.04	T.	T.	.....	.....
Bisbee	0.68	0.00	0.29	0.00	0.40	0.30	0.54	5.48	1.64	0.30	1.55	1.85	13.03
Bowie	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.25	.....
Buckeye	0.90	0.10	0.60	0.00	0.00	0.00	0.00	T.	0.40	0.00	1.50	1.20	4.70
Casagrande	1.56	0.00	0.46	0.00	0.00	0.00	0.00	1.53	T.	0.60	1.15	1.70	6.40
Champie Camp	0.95	0.70	0.90	T.	0.30	0.20	0.30	2.10	.....	0.00	5.25	0.90	.....
Cochise	T.	0.00	0.45	0.00	0.20	0.00	0.36	1.35	0.00	0.10	1.95	2.08	6.49
Congress	0.52	1.05	1.30	0.05	0.00	0.27	T.	2.44	1.71	0.00	4.45	1.10	12.89
Dragoon	0.60	1.15	0.45	0.00	0.71	0.00	0.00	2.65	0.33	0.70	1.04	2.70	10.33
Dudleyville	1.21	0.17	0.64	T.	0.16	0.03	0.19	2.49	2.91	0.24	1.01	3.01	12.06
Duncan	0.40	0.40	0.71	0.00	0.36	0.06	T.	2.48	0.46	0.10	0.75	1.62	7.34
*Flagstaff	3.17	1.76	2.72	0.37	0.69	0.16	1.28	6.10	1.12	0.00	6.75	1.74	25.86
Fort Apache	0.58	1.35	0.53	0.00	1.32	0.50	1.63	2.72	1.26	0.30	1.80	2.18	15.17
Fort Defiance	1.31	0.65	1.02	0.30	1.50	0.70	0.22	2.81	1.00	0.50	1.80	1.05	12.87
Fort Grant	0.20	0.40	0.15	T.	0.30	T.	0.90	3.40	1.25	0.90	0.20	2.00	9.70
Fort Huachuca	0.17	0.00	0.02	0.00	0.00	1.03	0.89	4.43	1.21	0.10	2.45	3.37	13.67
Fort Mohave	.....	0.00	.....	0.00	0.00	0.00	0.00	0.00	0.00	.....	.....	.....	.....
Globe	1.65	0.33	0.35	T.	0.70	T.	0.90	1.30	2.00	0.20	1.67	2.35	11.35
Ingleside	0.88	T.	0.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jerome	1.35	1.30	1.50	0.20	0.40	T.	1.20	3.90	0.20	0.00	3.00	1.00	14.05
Kingman	0.25	1.80	.....	0.00	.....	[g]0.00	[h]0.00	1.10	.....	.....	.....	.....	.....
Maricopa	1.00	0.00	0.20	0.00	T.	T.	0.34	0.00	1.04	0.01	1.10	1.20	4.89
Mesa	0.62	0.08	0.35	T.	T.	T.	0.56	0.59	0.71	0.25	1.43	1.19	5.78
Mesa (near)	.....	.....	.....	0.00	0.00	0.00	0.00	1.03	2.20	0.00	1.31	1.13	.....
Mohawk Summit	0.60	0.02	0.33	0.00	0.00	0.00	0.42	0.00	0.00	0.00	.....	1.15	.....
Mount Huachuca	0.56	T.	0.41	0.00	0.08	0.33	1.19	3.45	1.25	0.61	2.30	3.66	13.84
Natural Bridge	1.59	0.85	1.85	0.30	0.76	T.	1.20	0.59	2.87	0.00	3.78	2.33	16.12
Nogales	1.00	.....	0.50	0.00	T.	0.34	0.86	5.61	1.15	0.21	2.41	.....	.....
Oracle	1.42	0.65	1.25	0.05	0.94	0.00	0.66	2.06	0.97	0.13	2.89	3.21	14.23
Oro	0.52	0.59	0.07	0.00	0.47	0.44	0.89	1.86	2.00	0.04	1.36	2.22	10.46
Parker	0.05	0.04	0.45	0.00	0.00	T.	.....	.....	.....	.....	.....	.....	.....
*Phoenix	0.79	0.10	0.46	T.	T.	0.12	0.32	0.56	1.46	T.	2.01	1.06	6.88
Phoenix [1]	.....	0.09	0.36	0.00	0.05	0.23	0.45	0.63	1.28	0.06	1.99	1.05	.....
Pima	0.18	0.04	0.29	T.	0.04	0.04	0.22	1.34	0.10	0.05	0.88	1.55	4.73
Pinal Ranch	1.66	1.03	1.23	0.00	0.46	T.	1.83	1.04	2.01	0.06	4.00	4.62	17.94
Prescott	2.00	0.65	1.73	0.50	T.	0.00	0.28	4.64	1.59	0.00	2.80	0.12	14.31
St. Johns	0.31	0.05	0.20	T.	0.86	0.20	0.06	2.45	1.23	.....	.....	.....	.....
San Carlos	0.80	0.20	0.23	0.00	0.60	T.	.....	.....	.....	.....	.....	.....	.....
Sentinel	0.75	T.	0.10	0.00	0.00	0.00	0.00	0.50	0.50	0.00	1.60	1.04	4.49
Showlow	1.70	0.14	0.62	T.	2.07	0.17	0.70	1.96	2.06	0.00	2.78	2.47	14.67
Signal	0.23	0.12	0.50	0.00	0.00	T.	0.75	1.53	0.79	0.00	2.13	0.60	6.65
Silverking	2.35	0.45	0.40	T.	0.15	.....	.....	.....	.....	.....	.....	.....	.....
Strawberry	2.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Superstition	2.10	0.21	0.73	T.	0.07	0.13	0.58	1.04	2.59	0.01	3.19	2.53	13.18
Taylor	1.00	0.07	0.22	T.	1.16	0.14	0.22	2.42	1.00	0.00	1.02	0.61	7.86
Tombstone	0.13	T.	0.31	0.00	0.06	0.33	0.85	4.07	1.50	0.11	.....	.....	.....
Tonto	1.16	0.68	0.63	0.11	1.06	0.00	0.05	1.50	2.83	0.33	1.71	2.20	12.26
Tuba	0.10	T.	0.45	0.00	0.15	T.	0.37	0.67	0.08	.....	0.97	0.15	.....
Tucson	0.53	T.	0.44	T.	T.	0.19	0.42	1.31	0.58	1.64	1.34	2.15	8.60
Vail	0.07	0.00	0.65	0.00	T.	T.	0.12	T.	0.12	0.25	1.40	0.85	3.46
Walnut Grove	0.45	0.10	0.05	0.00	0.00	0.00	0.10	3.30	1.26	0.05	4.00	0.06	9.37
Willcox	0.35	0.00	0.60	0.00	0.40	0.00	0.40	2.70	0.78	0.20	0.75	1.00	7.18
Williams	.....	.....	.....	.....	.....	.....	0.70	2.42	.....	.....	2.00	.....	.....
Yarnell	0.92	1.15	1.30	0.07	T.	0.61	0.64	2.64	3.15	0.00	4.96	1.01	16.45
*Yuma	0.26	T.	0.21	0.00	0.00	T.	0.11	T.	T.	0.00	0.57	0.78	1.93
Arkansas.													
Alco	1.75	3.71	4.40	2.91	2.93	8.27	0.97	2.85	5.29	1.17	6.82	6.23	47.30
Amity	5.93	3.30	4.88	3.89	8.99	5.58	4.00	1.94	6.21	2.23	8.74	5.27	55.96
Arkadelphia	.....	.....	7.90	[d]3.55	.....	4.75	5.50	1.76	.....	1.56	7.92	5.31	.....
*Arkansas City	2.51	3.27	8.26	1.45	2.50	1.20	6.40	3.50	4.18	2.55	5.39	5.36	46.57
Batesville	.....	3.89	3.12	2.36	1.73	8.30	1.98	1.31	4.79	1.32	6.61	5.67	.....
Beebranch	.....	.....	.....	[d]2.95	3.90	4.35	.....	1.95	3.85	1.40	6.40	6.00	.....
Blanchard Springs	2.54	4.63	6.11	5.56	6.59	4.53	5.77	1.16	6.21	5.36	5.91	5.07	59.44
*Brinkley	5.65	4.38	5.92	3.54	3.22	7.33	5.16	4.13	3.83	3.84	4.49	6.16	57.65
*Camden [2]	6.46	3.30	4.69	2.83	7.38	7.40	10.39	0.90	3.80	2.75	6.16	5.45	61.51
Camden [3]	6.51	3.21	4.72	2.82	6.84	7.01	11.92	0.42	3.72	2.74	6.50	5.77	62.18
Conway	4.46	3.38	5.42	2.45	3.21	3.94	7.71	0.84	4.30	1.93	5.93	6.24	49.81
Corning	4.05	3.29	2.88	2.96	3.40	6.51	0.98	7.54	2.79	1.59	5.86	6.23	48.08
Dallas	3.34	2.87	5.65	5.31	5.43	6.05	3.01	4.60	6.24	2.65	13.11	6.28	64.54
*Dardanelle	1.82	0.92	2.86	2.45	4.01	3.79	6.35	2.40	2.63	1.87	6.88	4.96	40.94
*De Queen	.....	.....	.....	.....	.....	4.53	6.75	0.17	7.23	2.70	9.99	3.48	.....
Dutton	2.00	1.71	5.77	1.88	5.19	6.13	2.80	[b]3.34	2.82	4.88	10.09	5.43	52.04
Elon	2.40	2.15	8.09	7.09	6.03	0.30	6.33	.....	5.83	.....	.....	4.27	.....
Eureka Springs	.....	.....	.....	.....	5.86	9.28	4.34	2.19	2.96	3.76	4.87	3.97	.....
*Fayetteville	0.96	1.79	5.10	3.07	4.33	6.52	0.37	5.19	4.29	4.84	6.69	5.01	48.16
*Forrest City	.....	.....	4.89	2.78	4.20	5.36	[d]1.81	5.74	3.58	4.71	3.97	7.17	.....
*Fort Smith	2.65	1.08	5.19	1.81	2.26	1.66	0.70	3.07	3.21	2.82	7.41	3.26	35.12
*Fulton	4.70	2.45	6.30	2.86	5.15	3.74	10.08	0.45	5.10	1.06	9.36	4.96	56.21
Hardy	2.42	.....	.....	.....	.....	.....	.....	.....	.....	1.59	5.88	5.26	.....
*Helena [2]	6.26	2.04	9.14	2.95	4.15	7.11	1.75	2.73	4.64	2.38	4.39	11.88	59.42
*Helena [4]	5.40	1.73	9.37	2.61	5.59	4.37	1.94	5.59	4.37	2.03	3.56	.....	.....
Ione	1.84	1.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jonesboro	7.04	3.93	6.23	1.17	8.04	7.12	0.88	3.24	5.39	2.81	4.96	6.88	52.59
Keesees Ferry	1.11	2.73	2.22	2.08	7.23	6.58	1.46	.....	.....	.....	.....	.....	.....

[1] Agricultural Experiment Station. [2] River Observer. [3] A. L. Morgan. [4] Cotton Region Observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Arkansas—Continued.													
Lacrosse	.....	2.55	2.35	1.45	3.72	[4]6.07	0.50	5.19	5.09	1.53	5.83	.....	.....
*Lake Village	.....	.....	.....	.....	.....	0.59	4.34	1.52	5.65	2.10	4.64	4.17	.....
*Little Rock	7.13	2.16	4.90	2.92	4.76	4.08	7.46	0.19	5.75	2.34	7.03	5.27	53.99
Lonoke	.....	.....	.....	2.89	4.89	3.64	8.15	0.90	3.80	1.95	5.97	5.17	.....
Lutherville	2.22	1.84	4.17	2.43	3.32	6.82	3.71	4.21	3.42	1.61	8.61	5.68	48.04
*Malvern	6.95	2.10	7.25	4.10	7.05	3.50	5.50	0.95	8.40	2.85	8.20	6.55	63.40
Marianna	7.03	1.77	5.54	2.86	4.47	5.71	4.47	1.47	5.32	3.66	3.55	9.75	55.60
Marvell	5.30	1.49	7.09	2.44	5.26	4.83	8.01	2.26	6.04	3.04	4.29	10.20	60.16
Mossville	2.13	.....	.....	3.05	7.62	7.92	.....	5.84	6.71	.....	.....	5.13	.....
Mountain Home	.....	.....	3.20	1.47	3.77	5.34	1.31	2.33	3.94	2.29	6.15	4.46	.....
Mount Nebo	2.71	3.64	3.46	2.30	3.15	3.62	8.41	2.00	3.83	0.68	8.30	5.01	47.31
New Gascony	5.82	3.80	6.83	3.69	3.67	6.83	8.27	0.06	7.46	7.10	4.05	8.01	65.59
*Newport[1]	6.33	3.28	4.85	1.66	2.18	5.48	1.62	2.33	4.75	1.78	6.05	6.98	47.29
*Newport[2]	6.79	2.32	.....	.....	2.05	5.41	1.50	2.23	5.35	1.90	.....	5.22	.....
Newport[3]	6.97	2.86	5.47	1.64	2.06	5.05	1.79	1.98	4.77	1.89	6.12	7.75	48.35
Oregon	1.02	3.42	3.17	2.43	4.76	5.81	1.74	2.49	3.12	2.55	5.77	4.12	40.40
Osceola	7.03	3.77	5.73	1.28	3.92	.....	.....	.....	.....	.....	.....	.....	.....
Ozark	2.79	2.04	4.80	2.17	3.80	[5]4.73	4.10	3.58	3.35	2.70	11.04	5.42	50.02
Perry	.....	.....	.....	.....	.....	.....	.....	.....	3.79	1.11	5.96	7.46	.....
*Pine Bluff	8.51	2.93	9.27	3.31	2.70	5.72	5.60	1.20	9.31	2.99	4.98	7.02	63.54
Pocahontas	3.71	3.11	3.14	2.99	4.84	6.38	1.52	5.09	5.49	2.27	4.56	5.15	48.25
Pond	1.52	1.07	7.33	3.35	4.31	8.01	2.50	2.18	5.93	2.52	4.42	4.38	47.52
*Prescott	6.02	1.74	5.93	3.74	5.57	6.31	11.98	0.20	5.62	1.99	12.93	5.15	67.18
Princeton	.....	.....	.....	[6]2.97	4.85	3.54	8.64	0.20	6.78	2.79	4.80	6.27	.....
Rison	7.47	2.86	.....	2.58	3.39	4.27	5.75	0.00	5.83	2.89	4.63	7.86	.....
Rosadale	4.17	3.85	5.31	4.40	8.44	4.22	5.81	0.07	7.41	1.79	8.72	4.75	58.94
*Russellville	2.42	2.02	2.62	2.17	3.67	5.73	4.43	2.15	3.16	1.75	7.81	4.45	42.38
Silver Springs	.....	1.16	3.44	3.60	2.77	7.68	1.79	1.62	3.44	2.54	5.94	3.76	.....
Spielerville	1.86	2.53	3.38	2.34	3.77	5.95	3.81	5.44	3.97	1.43	7.63	6.32	48.43
Stuttgart	6.17	2.61	6.91	3.80	3.29	4.92	7.04	0.55	6.80	4.85	3.98	7.69	58.11
*Texarkana	2.98	0.50	6.10	.....	3.15	3.15	13.94	0.67	4.14	1.46	9.18	2.80	.....
*Warren	4.09	3.80	6.66	4.75	4.18	6.28	4.33	0.90	6.70	5.49	6.46	7.36	61.00
Washington	4.60	1.50	6.24	3.92	6.06	3.83	11.91	0.08	7.04	2.64	10.33	4.60	62.75
Wiggs	4.39	3.84	4.63	5.58	5.22	6.38	6.63	1.25	6.44	2.48	10.29	6.11	63.15
Winchester	.....	.....	6.48	2.57	3.53	[4]4.49	8.01	2.47	6.75	1.88	6.15	.....	.....
Winslow	2.46	1.94	6.30	2.01	6.97	4.03	1.46	6.27	6.04	4.02	3.08	4.32	48.90
Witts Springs	2.49	3.00	3.56	2.15	3.56	8.76	1.51	6.71	5.93	1.44	7.44	6.05	52.59
California.													
Angiola	0.45	1.62	1.16	0.62	0.17	0.00	T.	0.00	0.00	0.00	0.63	0.54	5.19
Azusa	1.53	2.97	3.83	0.18	0.17	0.12	T.	0.00	0.07	0.41	2.19	3.14	14.61
Bakersfield	0.44	1.29	0.89	0.59	0.91	0.00	0.00	T.	0.00	0.35	0.88	0.36	5.71
Ballast Point light-house	1.44	1.28	1.68	0.20	0.00	0.00	1.05	0.00	0.00	0.09	2.06	3.10	10.90
Bear Valley	2.45	25.46	8.63	6.07	2.80	0.29	.....	.....	.....	.....	.....	.....	.....
Berkeley	1.36	10.47	4.17	1.55	1.69	0.00	0.00	T.	0.00	2.35	3.21	3.69	28.49
Bishop	0.07	0.55	1.53	0.61	0.06	0.00	T.	0.12	0.05	0.28	0.97	0.03	4.27
Boca	1.30	2.50	2.70	0.10	T.	0.00	0.10	0.00	0.00	.....	.....	1.60	.....
Bodie	0.37	2.24	2.56	0.70	0.50	0.00	0.03	0.40	0.00	0.58	1.47	0.15	9.00
Bowman	2.40	21.08	9.26	5.96	2.76	0.46	0.09	T.	0.02	5.86	10.04	12.99	70.92
Branscomb	4.03	44.35	11.26	8.42	3.27	0.11	0.01	0.07	T.	5.88	27.29	15.66	120.35
Caliente	1.70	3.80	3.65	2.70	0.11	.....	0.00	0.00	0.00	0.00	1.98	1.30	.....
Campbell	0.71	5.21	3.45	1.38	0.58	0.00	0.00	0.00	0.00	1.35	2.17	0.86	15.71
Campo	4.28	4.72	4.00	1.33	0.06	0.12	2.40	0.00	0.00	0.03	2.27	3.04	22.25
Cape Mendocino light-house	3.15	17.40	7.25	5.10	3.05	0.30	0.05	0.00	0.00	3.40	10.35	9.30	59.35
Cedarville	0.92	2.19	1.54	1.11	0.95	0.20	1.15	0.23	0.46	0.31	1.76	2.09	12.91
Chico	1.30	8.53	4.07	1.38	0.76	0.66	0.00	0.00	0.00	2.11	6.31	2.92	28.04
Cisco	1.54	14.17	5.40	1.80	0.90	0.40	T.	T.	T.	6.70	3.40	6.50	40.81
Claremont	1.56	2.72	4.47	0.30	0.10	0.10	0.05	0.00	T.	0.37	1.51	2.61	13.79
Cloverdale	.....	.....	.....	6.02	3.09	0.00	0.00	0.01	0.00	6.22	10.53	4.45	.....
Colusa	.....	.....	.....	.....	.....	0.00	0.00	T.	0.00	1.57	2.64	1.62	.....
Corning	1.85	11.00	3.05	1.85	1.80	0.10	0.00	0.00	0.00	2.45	5.55	1.97	29.62
Coronado	1.70	1.39	.....	0.21	0.06	T.	1.36	0.00	0.00	0.06	1.72	3.73	.....
Crescent City	7.09	27.85	8.24	10.26	6.29	1.93	0.47	0.06	0.76	4.29	18.59	17.29	103.12
Crescent City light-house	6.55	22.30	7.38	10.21	6.46	2.37	0.35	0.00	0.00	4.21	20.61	17.23	97.67
Cuyamaca	8.17	7.50	13.82	[6]2.09	0.14	0.17	1.54	0.00	T.	1.01	5.09	3.66	43.19
Delano	0.74	1.44	1.25	0.85	0.20	0.00	0.00	0.00	0.00	0.99	1.01	0.22	6.10
Delta	2.92	39.82	8.48	7.70	4.02	0.32	T.	0.28	0.00	4.57	14.33	9.68	92.12
Drytown	0.92	8.00	3.14	.....	.....	.....	.....	.....	0.00	1.20	2.90	2.59	.....
Dunnigan	0.98	9.19	3.28	1.91	0.92	0.70	0.00	T.	0.00	2.79	3.73	1.09	24.59
Durham	2.47	11.05	2.68	2.16	1.78	0.00	0.00	0.00	0.00	1.85	4.89	3.73	30.61
East Brother light-house	2.45	17.40	3.45	1.70	0.50	0.00	0.00	0.00	0.00	1.40	4.10	2.85	33.85
Edmanton	2.38	25.42	10.60	6.77	2.49	0.00	0.13	0.02	0.14	4.31	9.83	10.66	72.75
Elcajon	2.28	2.49	2.81	0.33	0.04	0.00	0.75	0.00	0.00	0.20	1.73	2.21	12.84
Elmdale	0.55	3.49	1.00	0.95	0.56	0.00	0.00	0.00	0.00	0.39	1.54	0.59	9.07
Elsinore	2.30	2.08	2.64	0.30	T.	0.21	0.08	0.00	0.00	0.18	1.26	3.04	11.99
Escondido	2.59	3.54	3.68	0.67	0.00	0.04	0.15	0.00	0.00	0.28	2.35	3.04	16.34
*Eureka	1.95	19.49	7.85	4.56	2.70	0.27	0.25	T.	0.14	2.34	10.88	8.33	58.76
Fallbrook	2.84	3.48	3.52	0.75	0.11	0.05	0.23	0.00	0.00	0.29	2.86	4.00	18.13
Folsom City	0.92	8.00	3.46	1.84	1.49	0.07	0.00	0.04	T.	1.85	2.15	4.15	23.97
Fort Bragg	.....	16.34	5.93	4.76	1.97	0.00	0.00	T.	0.00	2.90	10.66	7.05	.....
Fordyce Dam	3.65	20.08	10.90	6.29	2.93	0.32	0.66	0.23	0.31	5.46	6.14	9.22	65.59
Fort Ross	4.72	25.26	6.75	5.91	2.38	0.00	0.00	0.00	0.00	8.95	14.16	7.87	76.00
Foster	2.91	4.40	4.18	1.03	0.19	0.02	0.62	0.00	0.00	0.68	3.56	3.01	20.60
*Fresno	0.41	2.44	1.14	0.70	0.01	T.	0.00	T.	0.00	0.42	2.25	0.54	7.91
Georgetown	1.92	16.95	6.47	3.69	1.44	0.56	0.00	0.05	0.00	3.77	6.66	7.76	49.27
Geyserville	.....	.....	.....	.....	2.59	0.00	0.00	0.00	0.00	.....	.....	2.91	.....
Gilroy (near)	1.02	5.33	2.74	1.12	0.15	0.00	0.00	0.00	0.00	0.81	1.44	1.25	13.86
Glendora	2.40	3.09	5.16	0.22	0.00	0.00	0.00	0.00	0.09	0.18	2.23	2.55	15.92
Goshen	0.50	2.34	1.63	1.29	.....	0.00	0.00	0.00	0.00	0.00	.....	.....	.....

[1] River observer. [2] Cotton region observer [3] G. B. Irby.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
Grass Valley	2.14	20.18	5.25	5.17	1.84	0.23	0.00	T.	T.	4.04			
Greenville	1.06	13.31	5.08	2.59	1.05	0.03	0.43	0.16	0.04	3.79	5.26	7.49	40.27
Hanford	0.40	2.00	1.78	0.47	0.09	0.00	0.00	0.00	0.00	0.36	1.67	0.56	7.33
Healdsburg	2.52	24.76	5.57	5.46	2.21	0.00	T.	T.	0.00	6.10	9.46	4.71	60.79
Hollister	1.19	3.92	2.55	1.53	0.06	0.00	0.00	0.00	T.	0.31	2.03	1.02	12.61
Humboldt light-house	2.78	17.30	8.90	4.97	3.11	0.24	0.25	0.00	0.00	3.45	10.03	7.39	58.42
Idylwild	2.42	5.25	5.53	0.09	0.20	0.10	0.33	0.00	T.	0.10	3.80	2.00	19.82
Imperial	0.75	T.	0.30	0.00	0.00	T.	0.55	0.00	T.	0.00	0.13	1.75	3.48
*Independence	0.04	1.69	1.05	0.17	0.04	0.01	0.17	0.13	T.	0.08	0.41	0.04	3.83
Indio	0.40	0.20	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.50	0.80	2.00
Iowa Hill	1.15	15.75	7.54	3.90	1.04	0.66	0.00	0.15	0.00	3.09	5.70	8.27	47.25
Irvine	1.40	2.35	2.91	0.48	0.17	0.17	0.03	0.00	0.00	0.35	0.86	2.74	11.46
Jackson	1.25	9.36	4.37	2.71	1.99	0.15	0.00	T.	0.00	2.46	4.51	3.73	30.53
Jolon	0.99	6.49	3.03	1.28	0.08	0.00	0.00	T.	0.00	0.60	3.23	1.20	16.90
Kennedy gold mine	1.53	10.67	4.79	3.15	3.40	0.00	0.00	0.00	0.00	2.71	4.50	4.13	34.88
Kent	3.72	28.32	7.04	4.62	2.06	0.00	T.	0.00	0.00	5.94	7.59	5.52	64.81
Kernville	0.30	6.36	2.10	0.74	0.10	0.00	0.00	0.00	0.00	0.16	0.85	0.45	11.06
King City	0.50	4.17	1.58	0.85	0.05	0.00	0.00	0.00	0.00	0.30	2.28	0.59	10.32
Kono Tayee	1.31	10.28	3.85	2.42	1.59	0.00	0.00	T.	0.00	3.92	4.35	2.47	30.19
Laguna Valley				1.05	0.11	0.21	2.32	0.00	0.00	0.48	3.23	2.95	
Lamesa	2.42	3.35	2.49	0.33	0.00	0.00	0.93	0.00	0.00	0.30	2.20	3.03	15.05
Laporte	2.64	33.50	10.09	9.59	2.28	0.84	0.02	T.	0.18	6.94	10.37	12.84	89.09
Las Fuentes ranch	1.31	4.36	2.68	1.36	T.	0.00	0.00	0.00	0.00	1.01	3.16		
Legrand	0.37	3.41	1.84	0.38	0.30	0.00	0.00	0.00	0.00	0.50	2.14	1.14	10.08
Lemoncove	0.56	3.04	2.31	2.57	0.20	0.00	T.	0.00	0.00	0.51	2.05	1.23	12.47
Lick Observatory	1.44	9.42	5.19	2.61	1.14	0.00	0.00	0.00	0.00	2.05	3.01	3.11	27.97
Lime Point light-house	1.70	7.13	2.64	1.00	1.01	0.00	0.00	0.00	0.00	2.05	1.91	1.44	18.88
Livermore		3.62	2.69	0.75	0.32	0.00	T.	0.13	0.00	0.47	2.07	0.87	
Lodi	0.58	6.71	2.38	1.26	0.60	0.00	0.00	T.	0.00	0.66	1.54	1.52	15.25
*Los Angeles	1.62	3.35	2.98	0.16	0.08	T.	T.	T.	T.	0.49	2.08	2.50	13.12
Los Gatos	1.28	14.49	7.59	2.63	1.17	0.00	0.00	0.00	T.	2.80	4.90	1.89	36.75
Lowe Observatory	1.88	3.48	5.97	1.35	0.33	0.30	0.00	0.00	0.00	0.90	3.68		
Mammoth	0.00	0.00	0.36	0.00	0.00	0.00	0.28	0.00	0.00	0.00	T.	0.61	1.25
Manzana	0.67	1.52	1.14			T.	0.00	0.00	0.00	0.03	1.99	1.78	
Mare Island light-house	1.91	7.63	2.68	1.41	0.96	0.00	0.00	0.00	0.00	1.91	2.64	2.26	21.39
Mendota								0.00					
Merced	0.80	2.26	2.26	0.75	0.50	0.00	0.00	T.	0.00	T.	2.25	0.36	9.17
Mercury		24.75	6.17	4.96	2.30	0.00	T.	0.03	0.00	7.51	11.12	5.51	
Mills College	1.32	9.25	3.92	1.89	1.15	0.00	0.00	T.	0.00	3.03	3.44	3.73	27.73
Milo	1.00	6.47	4.33	1.69	0.54	0.00	T.	0.00	0.00	1.10	2.53	1.58	19.24
Milton (near)	0.90	6.32	1.82	1.05	0.97	0.00	0.00	T.	0.00	1.11	2.55	1.61	16.33
Modesto	0.75	4.51	0.77	0.65	0.39	0.00	0.00	0.00	0.00	0.40	1.56	0.65	9.67
Monave	0.17	0.86	0.14	T.	0.00	0.00	0.00	0.00	0.00	T.	0.84	0.21	2.22
Mokelumne Hill	1.05	8.38	4.12	1.82	1.38	0.00	0.00	T.	0.00	2.22	4.31	3.57	26.85
Monterio	0.70	5.65	4.25	2.15	0.42	0.00	0.00	0.00	0.00	0.10	3.94	3.00	20.21
Monterey	1.81	3.87	4.22	1.10	0.03	0.24	0.00	0.00	0.00	0.50	1.66	1.17	14.60
Mount St. Helena	2.80	33.28	4.35	6.55	3.39	0.00	0.00	0.08	0.00	7.02	12.20	8.54	78.21
*Mount Tamalpais	2.02	12.73	4.29	2.79	1.30	0.00	0.03	T.	0.00	2.61	3.82	3.27	32.86
Mutal	0.75	3.23	2.80		1.41							2.25	
*Napa	1.58	12.16	3.66	2.56	1.23	0.00	0.00	0.02	0.00	4.84	4.13	2.94	33.11
Needles	0.05	0.00	0.05	0.00	0.00	T.	0.12	0.13	0.60	0.00	2.20	0.55	3.70
Nevada City	1.91	18.28	5.02	4.66	1.47	0.24	0.00	0.00	0.00	3.95	5.91	7.65	49.09
Newcastle			3.99	2.57	1.01			0.00	0.00	2.09	3.05	4.75	
Newhall	1.00	2.90	2.53	0.34	0.00	0.00	0.00	0.00	0.00	0.82	3.70	2.45	13.74
Newman	0.62	3.62	0.81	0.65	0.25	0.00	T.	0.00	0.00	0.61	1.58	0.49	8.68
Niles	1.48	5.80	3.27	1.31	1.40	0.00	0.00	0.00	0.00	1.06	2.49	1.46	18.27
North Bloomfield	1.60	18.04	6.40	5.29	1.70	0.19	0.09	0.04	T.	4.43	6.09	8.05	51.92
North Ontario	1.51	2.92	5.78	0.29	0.13	0.05	0.00	0.00	0.00	0.41	2.05	2.54	15.68
North San Juan	1.66	19.50	5.90	5.01	2.35	0.18	0.00	0.02	0.03	3.77	6.08	9.66	54.16
Oakland	2.37	9.73	3.51	1.48	1.13	0.00	0.00	T.	0.00	1.98	2.37	3.14	25.71
Ogilby	0.25	0.00	0.15	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.55	0.05	1.09
Oleta	1.07	8.84	5.07	2.09									
Orland	1.53	11.31	2.59	1.55	1.97	0.00	0.00	0.00	0.00	2.66	4.60	1.62	27.83
Palermo	1.55	10.83	2.98	1.98	0.89	0.00	0.00	T.	0.00	2.43	3.49	4.62	28.77
Paso Robles	1.06	5.32	2.50	1.23	0.00	0.00	0.00	0.00	0.00	1.08	0.71	0.96	12.85
Peachland	3.25	20.39	4.94	4.59	2.03	0.00	0.08	0.09	0.03	6.29	7.46	5.31	54.46
Piedras Blancas light-house	1.80	8.96	3.42	1.61	0.16	0.00	0.00	0.00	0.00	1.58	1.59	1.95	21.07
Pigeon Point light-house	1.65	3.10	2.36	0.40	0.05	0.00	0.00	0.00	0.00	0.66	1.62	1.60	11.44
Pilot Creek	2.39	20.77	9.00	5.26	2.56	0.08	0.38	0.17	0.00	4.56	7.59	7.94	60.70
Pine Crest	1.29	4.96	3.55	1.94	0.11	0.00	0.00	0.00	0.00	2.48	5.27	3.03	22.63
Placerville	1.35	10.15	5.33	2.73	1.35	0.60	0.00	0.14	0.04	2.27	4.59	4.42	32.97
Point Ano Nuevo light-house	2.19	7.48	3.00	1.34	1.12	0.00	0.00	0.00	0.00	1.13	1.88	2.25	20.39
Point Arena light-house	3.75	15.07	4.26	4.29	1.68	0.00	0.00	0.00	0.03	4.25	7.41	5.19	45.93
Point Bonita light-house	2.69	9.94	4.41	1.94	1.63	0.00	0.00	0.00	0.00	2.78	3.78	3.81	30.98
Point Conception light-house	0.96	3.65	2.38	1.39	0.07	0.00	0.00	0.00	0.00	1.95	2.67	1.49	14.56
Point Fermin light-house	1.20	3.22	1.86	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.94	4.10	13.32
Point George light-house	4.62	15.14	3.76	4.23	1.23	0.41	0.38	0.02	0.10	1.27	7.84	8.56	47.56
Point Hueneme light-house	1.06	4.48	3.20	0.47	0.02	0.00	0.00	0.00	0.00	1.15	3.35	2.68	16.41
Point Lobos	2.19	6.13	2.66	0.82	0.98	0.00	T.	0.00	0.00	1.91	2.20	2.10	18.99
Point Loma light-house	0.68	0.44	0.91	0.16	0.00	0.00	0.00	0.00	0.00	0.01	1.19	2.78	7.07
Point Montara light-house	2.60	8.57	3.78	2.46	1.14	0.00	0.00	0.00	0.00	3.64	3.15	5.52	30.86
Point Pinos light-house	1.81	4.54	3.72	1.49	0.34	0.00	0.00	0.00	0.00	0.42	1.67	2.19	16.18
*Point Reyes	1.87	6.84	2.15	2.00	1.28	0.00	0.00	T.	0.00	3.68	2.88	2.48	23.18
Point Sur light-house	3.09	7.16	2.89	1.86	0.70	0.00	0.00	0.00	0.00	1.52	2.31	2.60	22.13
Pomona (near)	1.92	3.35	3.85	0.25	0.19	0.23	0.00	0.00	0.00	0.26	1.22	2.39	13.37
Porterville	0.84	2.96	2.28	1.53	0.15	0.00	0.01	0.00	0.00	0.56	1.42	0.79	10.54
Poway	2.47	2.64	3.13	0.59	0.10	0.01	0.80	0.00	0.00	0.38	3.03	2.27	15.42
Quincy	0.98	17.01	4.24	2.88	1.13	T.	0.40	T.	0.02	5.08	7.90	7.68	47.27
Ranch House							T.					2.62	
*Red Bluff	1.99	12.16	3.94	2.85	1.12	0.00	0.00	T.	0.00	3.44	6.64	8.39	35.56
Redding	1.37	19.97	4.73	4.69	2.94	0.00	0.01	0.03	0.00	5.51	7.72	6.24	53.21

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
Redlands	1.64	2.58	2.82	0.36	0.08	0.31	0.07	0.00	0.00	0.06	1.40	1.50	10.82
Reedley	0.34	1.96	1.23	1.70	0.28	0.00	0.00	0.00	0.00	0.50	1.58	0.88	8.47
Represa	0.99	8.78	3.68	1.78	1.25	0.06	0.00	T.	0.00	1.97	2.16	4.75	25.42
Riovista	0.47	5.62	1.81	0.66	0.53	0.08	T.	T.	0.00	1.38	1.69	1.89	14.12
Riverside	0.90	1.81	2.23	0.23	0.16	0.05	T.	0.00	T.	0.09	1.09	1.64	8.20
Roe Island light-house	1.18	5.07	1.77	0.41	0.67	0.00	0.00	0.00	0.00	1.19	1.83	2.18	14.30
Rohnerville	2.75	21.18	8.99	4.85	2.60	0.50	0.34	T.	0.09	3.69	10.95	6.87	62.81
Rosewood	1.16	14.38	3.89	3.49	1.44	T.	0.00	0.15	0.00	2.58	5.45	3.50	36.04
*Sacramento	0.95	6.52	1.99	1.36	0.45	0.01	0.00	T.	0.00	1.67	2.02	2.91	17.88
Sacramento[1]	0.87	7.08	2.18	2.06	0.65	0.01	0.00	T.	0.00	2.11	2.35	3.59	20.90
Salinas	1.01	3.50	2.58	0.87	0.29	0.00	0.00	0.00	0.00	0.52	1.43	1.39	11.59
Salton		T.	0.81	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.22	0.98	
San Bernardino	1.65	3.02	3.89	0.57	0.12	0.15	0.01	0.00	0.00	0.09	1.94	1.94	13.38
*San Diego	1.70	1.57	1.86	0.21	0.06	T.	0.92	T.	T.	0.06	1.53	3.58	11.49
*San Francisco	1.23	7.27	2.65	0.98	1.05	0.00	T.	T.	T.	1.70	1.98	2.32	19.18
San Jacinto	1.55	1.57	2.31	0.53	0.01	0.01	0.10	0.00	0.00	0.06	1.25	2.12	9.51
San Jose	0.81	4.42	2.65	1.29	0.88	0.00	0.00	0.00	0.00	0.95	2.18	0.92	14.10
San Leandro	1.65	7.12	3.77	1.39	1.46	0.00	0.00	0.00	0.00	2.24	3.00	3.25	23.88
*San Luis Obispo	1.46	8.79	4.68	2.44	0.03	T.	T.	T.	0.00	2.00	1.52	1.48	22.40
San Luis light-house	1.69	6.11	3.21	2.20	0.04	0.00	0.00	0.00	0.00	2.14	1.56	1.00	17.95
San Mateo	1.92	7.41	3.53	1.91	1.20	0.06	0.00	0.00	0.00	1.85	3.37	1.90	23.15
San Miguel	0.85	3.65	2.60	0.76	0.00	0.00	0.00	0.00	0.00	0.55	0.61	0.34	9.36
San Miguel Island	1.56	7.00	2.52	1.34	0.23	0.00	0.00	0.00	0.00	1.18	3.14	3.60	20.57
Santa Barbara	1.36	4.40	2.89	1.40	0.07	0.00	0.00	0.00	0.00	1.48	4.01	2.24	17.75
Santa Barbara light-house	1.48	3.94	1.18	1.29	0.03	0.00	0.00	0.00	0.00	1.13	3.30	2.19	14.54
Santa Clara	0.73	4.72	3.12	1.20	0.59	0.30	0.00	0.02	0.00	1.12	2.22	1.15	15.17
Santa Cruz	2.31	14.74	3.23	1.83	0.64	0.00	0.00	0.00	0.00	2.10	2.74	2.23	29.82
Santa Cruz light-house	2.14	13.67	3.32	1.74	0.61	0.00	0.00	0.00	0.00	1.82	2.58	2.12	28.00
Santa Maria	1.78	4.03	2.37	1.70	0.20	T.	0.00	0.00	0.00	1.02	2.59	0.79	14.43
Santa Monica	1.10	3.92	3.27	0.03	0.00	0.00	0.00	0.00	0.00	0.60	3.12	2.97	15.01
Santa Paula	1.80	4.49	3.31	0.50	0.00	0.00	0.00	T.	0.00	T.	3.25	1.16	14.01
Sausalito												6.25	
Santa Rosa	1.79	14.40	4.54	2.61	1.79	0.00	T.	T.	0.00	3.70	5.00	4.43	38.26
Shasta	2.77	34.22	5.33	6.37	3.65	0.00	0.00	0.01	0.00	6.55	12.14	7.37	78.41
Sierra Madre	1.80	3.38	5.19	0.91	0.36	0.05	T.	0.00	0.00	0.56	3.91	3.26	19.42
Snedden	0.61	2.90	2.00								2.50	1.56	
Sonoma	1.66	12.11	3.90	2.05	1.16	0.00	0.00	0.04	0.00	5.07	4.37	2.91	33.27
S. E. Farallone light-house	1.38	6.49	2.30	1.22	0.73	0.00	0.00	0.00	0.00	2.05	3.06	2.00	19.23
Stockton	0.68	5.06	1.85	1.09	0.61	0.00	0.00	0.00	0.00	0.66	1.30	1.26	12.51
Storey	0.60	3.19	1.66	0.91	0.38	0.00	0.00	0.00	0.00	0.35	1.14	1.67	9.90
Summerdale	1.89	13.02	8.19	7.03	1.33	0.11	T.	0.00	0.00	4.85	6.92	3.95	47.29
Susanville	0.70	5.14	2.56	1.31	0.35	0.00	0.54	0.09	0.12	0.78	2.48	3.04	17.11
Tehama	2.00	8.14	2.90	1.47	1.41	0.00	0.00	0.00	0.00	1.84	5.10	2.79	25.65
Tejon Ranch	1.61	1.46	1.74	2.02	0.98	0.00	0.00	0.00	T.	0.20	2.68	2.06	12.75
Templeton	1.60	5.22	3.28	1.90	0.00	0.00							
Trimmer												1.41	
Trinidad light-house	3.09	36.15	6.50	5.58	4.15	0.40	0.60	0.00	0.45	2.66	11.83	9.31	80.72
Truckee	1.10	3.30	5.60	1.28	0.55	0.00	0.45	1.10	0.00	0.50	2.20	3.60	19.68
Tulare[2]	0.42	2.15			0.28	0.00	0.00	0.00	0.00	0.29	1.36	0.49	
Tulare[3]	0.40	2.28	2.14	0.76	0.14	0.00	0.00	0.00	0.00	0.24	1.32	0.50	7.78
Tustin	1.28	2.93	3.13	0.35	0.23	0.00	T.	T.	T.	0.24	1.19	2.82	12.17
Ukiah	2.48	19.41	6.04	3.83	1.67	0.00	0.00	0.00	0.00	4.66	9.21	5.71	53.01
Union			4.69	1.82									
Upperlake	1.35	12.82	3.87	2.85	1.60	0.00	0.00	0.07	0.00	3.60	5.15	3.70	35.01
Upper Mattole	6.43	40.84	13.12	9.71	5.85	0.27	0.07	0.00	0.03	7.94	23.02	15.98	123.26
Vacaville	1.43	12.83	3.57	1.89	1.24	0.00	0.00	T.	0.00	3.53	3.21	2.00	29.70
*Ventura	1.63	3.83	3.01	0.15	0.07	0.00	0.00		0.00	0.45	3.60	2.96	
Visalia	0.64	2.22	1.78	2.30	0.31	0.00	0.00	0.00	0.00	0.64	1.37	0.71	9.97
Volcano Springs	0.58	T.	0.50	0.00	0.00	0.00	0.80	0.00	T.	0.00	0.95	0.95	3.78
Wasco	0.35	1.63	0.96	0.70	0.15	0.00	0.00	0.00	0.00	0.25	0.85	0.36	5.25
Westpoint	1.37	9.58	6.16	3.88	1.92	0.00	0.00	T.	0.00	3.55	5.65	5.02	37.13
West Saticoy	1.60	3.85	2.45	0.45	0.30	0.00	0.00	0.00	0.00	0.00	3.20	1.10	12.95
Wheatland	1.35	7.78	2.76	2.04	1.31	0.00	0.00	0.04	0.00	2.00	2.11	3.81	23.20
Williams	0.83	5.67	2.55	1.15	0.84	0.98	0.00	T.	0.00	1.44	2.95	1.07	17.48
Willetts			7.67	7.00	2.09	0.00	0.00	0.02	0.00	5.55	16.00	9.66	
Willows	1.15	7.65	3.05	1.34	1.93	0.00	0.00	T.	0.00	2.20	4.32	0.96	22.60
Wire Bridge	1.51	12.79	4.95	3.04	0.92	0.55	0.00	T.					
Yerba Buena light-house	1.20	7.40	2.15	0.98	0.34	0.00	0.00	0.00	0.00	1.10	2.30	2.10	17.57
Yreka	0.39	6.68	1.53	1.21	1.08	0.03	0.19	1.01	0.00		3.87		
Yuba City	1.48	7.72	2.42	2.08	1.57	0.00	0.00	0.08	0.00	2.17	3.08	2.77	23.27
Zenia	3.61	34.55	9.03	7.40	2.95	0.16	0.19	0.08	0.12	4.66	17.99	11.95	92.69
Colorado.													
Alford	0.57	0.25	1.60	0.52	1.85	2.02	1.33	0.78	4.59	0.83	0.46	0.55	15.35
Arkins	0.32	0.13	1.20	0.69	2.78	1.56	0.53	0.18	4.13	0.96	0.49	0.83	13.80
Ashcroft	1.26	1.85	1.86	2.04	2.56	0.82	1.01	2.34	2.46	1.63	1.23	1.42	20.00
Blaine	0.34	0.44	1.52	0.41	3.32	1.49	4.25	0.44	T.	1.53	0.07	0.61	14.42
Boulder	0.37	0.48	1.48	1.01	2.32	1.46	1.26	0.53	5.46	1.44	1.29	1.34	18.44
Boxelder	0.16	0.51	2.91	1.11	4.53	1.80	2.05	1.20	4.37	0.91	0.50	1.51	21.56
Breckenridge	0.38	0.84	1.32	1.44	1.25	0.92	2.12	1.53	2.26	0.78	0.30	1.08	14.22
Buenavista	0.26	0.13	0.52	0.00	0.10	0.00	0.01	0.15	0.06	0.50	0.23	0.85	2.81
Canyon	0.74	0.14	0.46	0.84	1.65	1.37	1.76	1.63	0.95	0.34	0.68	0.57	10.63
Castlerock	0.11	0.39	1.09	1.10	2.70	1.50	1.46	1.29	3.17	0.80	0.70	1.36	15.67
Cedaredge	0.48	0.94	0.42	0.68	1.30	0.19	0.98	1.05	1.00	0.40	1.01	1.15	9.60
Cheesman									2.07	0.24	1.50	0.68	
Cheyenne Wells	T.	0.25	1.92	0.78	[4]3.14	2.53	1.58	6.06	0.20	1.32	T.	0.52	18.30
Clearview	0.79	1.18	2.65	0.19	1.68	0.27	1.35	3.18	1.13	0.52	0.51	1.76	15.21
Collbran	0.40	0.28		1.27	1.22	0.97	1.09	1.87	1.08	0.85	1.37	0.86	
Colorado Springs	0.14	0.25	0.77	0.82	5.23	1.56	1.66	2.69	1.60	0.51	0.02	0.82	15.57

[1] S. H. Gerrish. [2] John Twohy. [3] Experiment station.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Colorado—Continued.													
Delta	0.30	0.20	0.06	0.20	1.29	0.26	1.17	1.39	0.37	0.25	0.38	0.94	6.81
*Denver	0.17	0.38	0.63	0.60	1.98	1.89	1.24	0.76	3.70	0.80	0.61	0.59	13.35
Durango	0.70	0.84	0.68	0.20	0.99	0.16	0.91	2.19	2.02	0.92	0.92	2.69	13.22
Fort Collins	0.32	0.15	1.50	0.61	2.13	2.43	1.31	0.67	7.12	1.15	0.27	0.77	18.43
Fort Morgan	T.	T.	.....	.....	.....	1.46	1.14	2.41	3.91	1.04	0.40	0.51	.....
Fox	0.02	0.47	0.64	1.06	5.00	2.05	2.21	2.60	2.29	1.17	0.04	1.55	19.10
Fruita	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[a]1.33	0.17	.....
Garnet	0.15	0.00	T.	0.07	1.18	0.85	0.63	3.20	0.37	0.16	0.54	1.03	8.18
Gilman	1.14	1.07	1.32	2.11	1.20	2.54	1.50	1.81	1.60	1.69	1.33	2.37	17.68
Gleneyre	0.31	0.70	0.97	1.47	2.14	0.73	2.17	2.78	2.50	0.52	0.28	0.77	15.34
Glenwood Springs	0.75	0.50	0.76	1.07	0.62	0.50	0.94	.....	.....	1.04	0.65	0.46	.....
*Grand Junction	0.37	0.44	0.45	0.13	0.37	0.04	0.81	0.77	0.85	0.43	1.10	0.50	5.26
Greeley	0.12	0.16	0.16	0.80	1.77	0.62	0.65	0.48	4.13	0.54	0.73	0.67	10.83
Grover	0.15	T.	0.17	0.80	2.23	1.05	1.75	2.35	2.90	0.50	0.00	1.00	12.90
Gunnison	0.37	0.67	0.46	0.58	1.19	0.36	0.51	2.47	0.47	0.62	1.02	0.78	9.50
Hamps	0.23	0.13	1.37	1.03	4.97	2.52	0.62	2.68	1.87	0.91	0.22	0.98	17.03
Hoehne	0.15	0.41	0.56	0.28	4.43	0.35	0.72	2.64	0.63	0.56	0.23	0.52	11.48
Holly	0.24	0.37	1.80	1.18	2.83	.....	.....	.....	.....	.....	.....	.....	.....
Holyoke (near)	0.09	0.75	1.64	0.75	4.93	4.02	2.30	0.95	4.25	1.64	0.13	0.35	21.80
Husted	0.14	0.27	0.60	1.58	3.89	1.81	1.74	3.20	2.04	0.49	0.11	0.51	16.38
Lake Moraine	0.48	0.54	1.82	0.92	3.38	1.62	2.25	4.05	2.75	1.82	1.44	0.82	21.89
Lamar	0.28	0.64	1.63	1.28	3.96	1.05	1.83	3.01	0.09	1.76	0.36	0.40	16.20
Laporte	0.52	0.10	1.23	0.42	2.16	2.62	0.90	0.63	5.76	1.37	0.25	0.93	16.89
Las Animas	0.25	0.50	1.71	0.16	4.73	1.77	0.96	2.79	0.52	1.22	T.	0.29	14.89
Lay	0.43	0.64	2.21	0.84	0.76	0.34	0.46	0.12	1.28	0.27	0.72	0.72	8.79
Leadville (near)	0.51	0.76	1.77	2.07	0.51	0.55	0.97	2.62	0.47	.....	0.35	0.77	.....
Leroy	0.12	0.72	1.23	1.28	3.16	1.82	0.98	3.70	3.46	0.78	0.09	0.99	18.33
Longs Peak	0.15	0.03	1.36	0.85	2.90	1.40	2.40	1.80	4.42	1.60	1.25	0.78	18.94
Mancos	.....	.....	0.29	.....	.....	0.05	1.23	2.45	1.31	0.14	1.50	1.69	.....
Marshall Pass	0.77	1.92	2.83	0.37	1.40	0.44	1.10	0.96	1.26	2.19	3.29	2.04	18.57
Meeker	0.50	0.78	1.20	0.69	0.65	0.60	1.47	0.32	1.43	0.99	1.10	1.15	10.88
Mitchell	0.84	0.85	0.94	1.35	0.50	0.45	1.47	1.70	1.00	.....	0.77	.....	.....
Montrose	0.41	0.58	0.10	0.26	1.27	0.25	0.90	1.09	0.40	0.10	0.32	0.84	6.52
Moraine	0.25	0.04	1.39	0.70	1.15	0.55	1.45	0.80	3.70	0.30	0.68	0.73	11.74
Pagoda	.....	.....	.....	.....	1.08	0.41	1.59	T.	1.52	0.82	1.39	2.38	.....
Parachute	0.89	0.71	0.46	1.00	0.29	0.44	1.01	0.66	0.90	0.51	1.37	0.46	8.70
Perrypark	0.33	1.38	0.87	0.86	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pueblo	0.14	0.35	0.58	0.24	2.57	1.04	0.95	2.67	0.48	0.44	0.39	0.52	10.37
Rangely	0.28	0.62	0.89	.....	.....	.....	0.41	0.28	1.59	.....	0.41	0.97	.....
Rockyford	0.18	0.57	1.78	0.18	4.02	0.60	0.72	2.72	0.46	0.80	0.41	0.33	12.77
Rogers Mesa	0.31	0.93	0.31	0.59	1.45	0.27	2.04	0.82	1.14	0.27	0.84	0.80	9.77
Ruby	2.60	2.46	3.87	3.40	0.54	0.10	0.65	0.19	0.97	2.57	2.61	5.11	25.07
Russell	1.88	0.44	0.80	0.23	1.60	0.10	0.61	2.80	0.99	0.60	0.97	0.91	11.93
Saguache	0.22	0.13	0.10	T.	1.86	0.31	0.25	2.66	0.64	0.18	0.32	0.42	7.09
Salida	0.14	0.08	0.27	0.04	1.60	0.21	0.58	0.90	1.34	0.65	0.80	0.40	7.01
San Luis	0.48	0.15	0.63	0.07	1.83	0.08	0.53	1.19	0.94	0.46	0.31	0.78	7.45
Santa Clara	0.80	2.00	1.20	0.70	3.18	7.64	0.42	1.63	1.17	1.00	0.95	1.10	15.79
Sapinero	0.98	2.04	0.39	0.55	0.59	0.05	0.43	1.57	.....	0.78	.....	.....	.....
Seibert	T.	0.68	1.60	0.77	4.75	2.00	1.15	3.40	1.51	0.89	.....	.....	.....
Silt	0.42	0.67	0.42	0.69	1.15	0.45	1.44	1.23	1.09	0.77	0.56	0.59	9.48
Sugarloaf	0.15	0.31	2.27	1.23	2.69	2.08	1.56	1.48	3.36	1.33	1.30	1.34	19.10
Telluride	1.05	.....	.....	0.54	2.83	0.18	2.26	2.86	1.97	1.18	.....	[b]4.03	.....
Trinidad	0.60	0.88	0.57	0.17	3.73	0.52	0.84	2.30	0.62	0.52	0.48	0.31	11.54
Twinlakes	0.27	0.16	0.22	0.22	1.52	0.48	0.02	0.99	1.20	0.28	0.22	0.30	5.88
Vilas	0.03	0.27	1.57	0.54	3.68	1.21	2.77	0.70	0.60	1.88	0.20	0.27	13.67
Wagon Wheel	0.41	0.14	0.32	0.02	0.93	0.40	1.25	2.78	1.30	1.10	0.68	0.96	10.28
Walden	0.17	0.18	1.00	0.43	0.45	0.30	1.04	.....	.....	.....	.....	.....	.....
Wallet	0.10	0.12	1.05	0.65	4.45	4.35	T.	4.57	1.70	2.00	T.	0.87	19.86
Westcliffe	1.17	0.17	1.21	0.40	1.55	0.52	1.71	2.96	1.55	1.16	1.38	1.46	15.24
Whitepine	1.00	1.78	1.55	1.81	1.49	1.03	1.28	2.51	0.90	1.36	1.38	1.78	17.87
Wray	0.20	0.74	1.05	0.74	7.00	5.69	3.83	2.71	3.73	1.05	0.16	0.59	26.99
Yuma	0.07	0.56	0.95	0.67	3.76	1.91	2.70	3.33	1.68	0.78	0.20	0.73	17.34
Connecticut.													
Bridgeport	2.68	5.58	6.55	3.85	1.59	5.70	3.28	2.39	5.58	7.67	1.45	7.64	53.96
Canton	3.11	5.98	5.38	5.13	1.44	4.20	7.71	3.73	7.15	6.11	1.06	6.95	57.95
Colchester	2.99	5.10	6.09	3.58	1.55	3.65	4.75	2.10	6.98	5.78	1.36	8.06	51.99
Falls Village	2.12	4.38	4.59	3.79	2.65	4.83	7.42	3.24	8.44	4.96	1.01	6.48	53.91
Gaylordsville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.04	7.16	.....
Hartford	2.12	6.84	6.12	4.31	1.80	4.66	6.51	4.80	7.33	7.72	1.37	8.26	61.84
Hawleyville	3.22	4.82	4.89	3.99	2.36	4.19	5.08	3.14	6.25	6.33	0.84	5.44	50.05
Lake Kenomoc	2.36	4.02	7.75	4.92	1.55	3.99	4.26	1.59	7.82	5.93	1.26	6.53	51.98
Middletown	2.27	5.84	6.01	3.03	0.80	4.33	4.28	.....	.....	.....	.....	.....	.....
*New Haven	1.83	3.58	4.63	3.40	1.61	4.35	3.26	2.14	5.84	6.41	0.79	6.49	44.33
New London	2.09	3.85	2.22	3.20	1.76	2.77	2.23	1.63	4.63	4.21	0.59	5.67	34.85
North Grosvenor Dale	2.49	5.91	5.47	2.86	1.45	3.91	7.34	3.59	3.94	5.66	0.92	7.02	50.56
Norwalk	2.57	4.62	5.71	3.78	2.60	4.72	2.45	3.09	7.87	7.64	1.30	7.02	53.37
Southington	2.10	4.55	6.45	3.40	1.65	3.70	5.65	3.25	7.70	6.10	0.65	8.56	53.75
South Manchester	1.60	5.05	3.58	2.56	1.34	4.39	6.63	2.83	4.72	5.58	1.23	6.72	45.23
Storrs	2.53	5.11	6.35	3.88	1.59	3.24	7.48	2.17	7.05	5.68	1.10	5.86	52.04
Voluntown	2.65	6.72	6.87	4.07	1.21	3.97	4.19	1.67	5.36	4.67	1.45	6.38	49.21
Wallingford	2.07	6.40	7.39	4.34	1.53	4.44	.....	.....	7.58	6.95	1.64	8.60	.....
Waterbury	3.43	6.67	5.56	4.11	2.01	5.16	4.58	2.82	6.42	6.19	1.34	6.92	55.21
West Cornwall	3.26	4.90	4.68	4.76	2.99	5.06	9.40	4.70	7.83	5.42	0.75	7.68	61.43
West Simsbury	2.77	5.06	4.95	4.39	1.61	3.52	7.23	3.50	6.78	6.15	0.98	7.32	58.26
Delaware.													
Delaware City	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.26	.....
Milford	4.00	5.30	3.15	3.77	1.99	6.67	1.77	1.22	6.42	4.02	3.78	5.52	47.61
Millsboro	2.86	4.31	3.86	4.73	1.60	5.61	2.34	2.02	6.20	2.98	2.32	7.42	46.25
Newark	3.98	4.66	4.93	4.71	1.66	5.85	5.68	1.54	6.04	3.33	3.00	7.36	57.15
Seaford	3.73	5.01	2.98	3.79	2.29	6.86	5.55	1.69	5.91	4.23	3.16	4.79	49.99

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
District of Columbia.													
Distributing reservoir	4.34	2.74	5.03	1.73	4.56	2.55	3.22	1.85	5.79	6.23	2.86	5.50	46.40
Receiving reservoir	3.60	2.55	4.33	2.46	3.60	2.89	3.94	2.17	5.96	7.31	2.31	6.39	47.51
*Washington	3.61	4.72	3.78	2.22	3.35	3.70	2.54	1.85	5.30	6.76	3.46	5.29	46.58
West Washington	3.90	4.85	4.11	2.55	3.95	4.11	3.02	2.11	6.71	7.03	3.78	5.72	51.84
Florida.													
Archer	0.32	3.06	6.57	1.23	3.51	6.22	8.67	7.07	10.43	2.27	4.21	9.80	63.36
Avon Park	0.27	5.49	3.29	1.44	3.71	5.70	8.68	4.43	9.03	7.77	1.77	2.44	54.02
Bartow	0.23	5.70	2.02	2.77	2.18	6.62	3.97	4.97	10.79	7.16	1.48	1.52	49.41
Bonifay	3.26	10.52	.....	0.06	2.20	3.60	3.20	[a]2.42	6.19	1.93	5.00	2.25	.....
Brooksville	0.35	4.99	.....	.....	2.54	4.06	3.53	7.47	8.16	3.12	2.57	4.25	.....
Carrabelle	0.78	4.65	6.34	0.85	2.10	7.06	7.08	3.79	17.26	3.77	7.82	6.95	68.45
Clermont	1.42	7.29	3.61	1.67	1.00	2.50	4.64	6.47	8.79	3.78	1.38	1.45	44.00
De Funiak Springs	0.96	10.57	13.62	0.66	2.46	2.71	4.72	7.35	9.33	4.34	4.98	2.98	64.68
Eustis	0.51	4.37	4.56	1.79	3.55	5.31	2.10	2.47	8.16	6.28	1.30	1.96	42.38
Federal Point	0.73	3.72	3.77	1.65	.....	.....	3.72	5.19	9.31	6.97	3.52	6.00	.....
Fernandina	0.50	4.03	5.25	1.37	2.32	3.69	5.36	4.54	20.25	10.09	4.58	7.28	69.26
Flamingo	T.	0.90	0.00	2.45	3.05	4.15	2.94	7.10	3.55	5.30	2.55	1.13	33.12
Fort Meade	0.56	6.95	3.28	1.50	3.70	9.90	9.56	6.51	10.47	9.37	2.40	2.68	66.88
Fort Myers	0.52	6.79	0.18	1.03	1.23	8.63	4.60	3.97	6.60	7.46	0.96	2.93	44.90
Fort Pierce	2.99	3.72	2.95	2.00	0.62	5.92	6.74	5.11	9.47	11.37	2.42	2.26	55.57
*Gainesville	0.27	3.43	4.15	1.70	1.14	8.21	4.85	2.77	10.42	3.30	4.27	7.31	51.82
Holt	2.90	3.30	6.09	2.25	2.15	.....	3.80	.....	[b]2.70	0.98	4.10	.....	.....
Huntington	0.17	4.60	4.08	1.91	0.75	2.66	6.86	3.06	9.28	5.73	3.03	2.55	44.68
Hypoluxo	2.10	5.54	1.62	1.81	3.98	7.88	1.72	4.96	7.98	18.99	3.58	1.00	61.16
Inverness	0.46	5.25	4.95	1.34	5.58	1.93	3.09	4.11	13.82	3.45	2.68	1.36	48.02
*Jacksonville	0.08	3.64	4.20	2.02	1.82	3.65	6.69	4.74	12.78	5.90	4.18	5.82	55.52
Jasper	0.44	6.52	8.08	1.45	2.27	.....	.....	.....	.....	2.69	5.42	6.26	.....
Johnstown[1]	0.48	[c]3.23	6.27	1.16	1.51	6.43	4.72	6.49	11.63	.....	[1]3.68	4.90	.....
*Jupiter	0.98	4.64	0.97	0.97	4.83	3.92	4.73	1.91	6.01	13.74	2.38	0.71	45.79
*Key West	0.15	3.88	0.22	0.82	0.23	9.59	1.57	5.35	3.37	6.36	4.90	2.12	38.61
Kissimmee	0.19	6.07	1.88	1.73	0.34	5.85	5.36	7.27	6.35	3.07	1.15	0.96	40.22
Lake City	0.46	4.24	6.83	2.04	1.79	9.42	7.41	5.21	7.18	[c]3.32	3.20	4.70	55.80
Malabar	.....	4.49	0.83	1.25	2.88	8.63	2.26	1.80	8.48	10.07	2.98	1.10	.....
Macclenny	0.41	3.93	7.98	1.35	1.50	5.23	4.50	4.79	6.92	3.69	3.36	5.30	48.96
Manatee	0.53	5.96	1.36	1.17	1.06	6.28	11.66	4.69	7.40	4.69	1.42	1.68	47.90
Marco	0.21	3.43	0.61	1.21	4.79	8.61	8.41	3.44	4.10	4.80	1.86	3.05	44.52
Marianna	0.70	6.15	12.38	1.27	4.99	3.63	5.14	2.68	12.80	2.50	3.79	1.72	57.75
Merritt Island	0.69	3.84	1.05	1.43	1.83	11.14	5.18	8.50	10.68	9.20	1.43	1.74	56.71
Miami	0.00	5.91	0.00	1.85	0.94	6.01	3.28	5.33	7.81	4.17	7.12	1.86	44.28
Micanopy	0.10	4.55	6.20	1.44	4.25	5.75	.....	.....	.....	.....	2.50	9.57	.....
Molino	.....	.....	.....	1.79	3.60	0.00	5.11	9.13	6.16	2.49	3.55	5.54	.....
New Smyrna	1.10	4.75	1.89	1.80	0.65	5.10	6.40	2.39	10.47	15.20	0.65	.....	.....
Nocatee	0.22	5.66	1.46	0.29	0.57	9.12	5.19	2.87	6.32	5.72	2.44	2.26	42.12
Ocala	0.22	4.03	6.61	1.22	2.32	5.93	8.41	3.90	7.16	6.26	2.81	2.43	51.30
Orange City	0.75	3.88	2.37	2.85	1.15	[c]3.92	.....	.....	.....	.....	.....	.....	.....
Orlando	1.25	4.50	1.81	2.27	1.52	6.94	5.43	3.53	13.66	4.90	0.52	1.35	47.68
*Pensacola	0.63	5.74	8.06	1.55	1.75	1.41	2.01	3.16	8.04	2.69	2.91	3.59	41.54
Pinemount	.....	.....	4.90	0.95	3.31	15.01	4.48	5.17	8.76	2.25	4.12	6.20	.....
Plant City	0.29	4.78	1.16	0.60	1.37	.....	.....	1.87	10.59	.....	.....	.....	.....
Quincy	0.67	6.34	10.81	0.25	2.08	8.06	2.19	0.92	.....	.....	.....	.....	.....
Rideout[2]	0.13	3.93	7.04	2.59	2.17	8.97	2.47	4.33	10.01	5.88	3.85	6.21	57.58
Rockwell	0.00	2.75	5.80	1.20	4.65	.....	.....	.....	11.95	4.20	3.90	1.85	.....
St. Andrew	0.08	3.80	7.79	1.06	7.81	1.96	5.20	3.72	14.39	2.14	5.91	2.54	56.40
St. Augustine	0.00	2.89	.....	0.26	0.49	2.95	4.49	3.89	9.98	8.45	3.30	5.08	.....
St. Leo	0.65	4.77	2.34	1.18	1.93	5.83	3.34	6.93	11.48	3.38	2.23	1.46	45.52
Stephensville	.....	.....	.....	.....	2.35	5.86	8.84	5.97	9.90	3.00	2.40	5.52	.....
Sumner	T.	3.51	6.16	1.45	2.63	1.77	7.41	4.90	9.00	4.08	3.88	14.93	59.72
Switzerland	0.12	2.46	3.45	1.76	1.32	6.30	3.33	3.79	14.73	5.87	3.86	7.63	54.12
Tallahassee	1.06	6.70	11.06	0.84	2.86	9.94	5.83	4.98	7.56	3.49	6.11	5.39	65.80
*Tampa	0.28	5.72	1.91	1.07	4.11	6.43	7.64	7.35	10.14	3.37	0.97	1.39	50.38
Tarpon Springs	0.60	4.54	4.04	1.79	1.11	2.82	7.30	4.78	4.97	2.04	2.24	8.42	39.65
Titusville	0.86	5.02	2.73	1.19	0.27	4.14	6.69	7.01	7.31	8.78	1.77	.....	.....
Waukeenah	1.52	4.70	4.20	1.10	2.90	10.97	2.08	4.25	14.88	5.09	.....	[c]7.33	.....
Wausau	0.57	6.47	12.83	1.70	3.72	[c]4.46	6.28	3.27	10.45	3.43	[c]4.65	2.47	60.25
Wewahitchka	0.77	4.79	11.10	1.23	4.62	4.87	4.57	2.11	12.26	3.02	5.71	3.17	58.22
Georgia.													
Adairsville	3.70	6.29	5.92	1.65	0.40	.....	1.18	4.09	3.90	1.66	4.19	5.47	.....
*Albany	1.36	9.26	11.98	1.17	6.28	6.33	5.22	5.94	3.81	4.13	2.17	5.21	62.80
*Allapaha	0.48	6.80	11.64	1.88	1.36	8.09	5.38	4.08	4.19	2.46	2.78	5.52	54.16
Allentown	0.54	5.24	8.84	2.39	4.49	3.19	6.66	5.80	.....	.....	.....	.....	.....
Alpharetta	3.34	6.85	8.27	1.21	1.13	3.96	1.67	2.28	3.92	1.19	3.84	.....	.....
*Americus	0.93	8.41	13.13	1.33	4.09	3.48	2.99	6.12	2.63	4.89	1.32	2.79	52.11
*Athens	2.70	.....	0.06	1.73	0.86	3.38	3.25	3.56	4.82	1.55	2.72	4.42	.....
*Atlanta	3.30	7.56	6.49	1.84	2.35	2.00	2.83	1.66	5.37	2.11	3.59	4.86	43.96
*Augusta	1.60	6.02	5.40	2.71	3.54	4.55	2.00	4.47	2.33	2.99	2.75	3.43	41.79
*Bainbridge	0.87	7.57	11.85	1.01	3.18	7.16	3.87	3.38	8.19	3.35	1.55	4.44	56.42
Blakely	1.23	9.22	13.40	1.03	3.70	5.23	4.49	4.15	3.17	3.40	4.26	2.17	55.45
Bowersville	4.11	8.59	6.05	1.72	2.65	2.39	3.78	5.72	3.33	3.21	3.86	4.27	49.18
Brent	1.26	10.07	10.57	2.59	2.43	3.04	3.83	3.26	3.99	4.65	5.94	6.70	58.33
*Butler	.....	.....	.....	1.52	2.74	2.33	5.13	5.82	1.38	3.89	2.71	3.85	.....
*Camak	1.00	8.77	6.78	2.41	1.12	4.67	1.20	0.90	1.55	3.69	2.49	3.17	37.75
*Canton	2.94	10.21	4.76	0.78	0.29	1.91	1.43	2.57	2.66	2.18	3.35	5.86	38.94
*Carlton	1.82	9.08	6.50	1.68	1.98	3.41	1.70	4.05	5.48	2.48	2.13	5.42	45.73
Clayton	3.25	9.63	7.81	1.57	3.77	2.16	4.57	2.41	9.69	3.08	5.60	8.09	61.63
*Columbus	2.25	.....	9.79	1.66	2.00	2.01	4.60	4.28	3.96	5.42	3.11	4.60	.....
Coney	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.70	.....
*Covington	2.79	18.42	5.97	2.44	2.63	1.79	2.55	5.55	3.51	3.14	4.10	3.50	51.39

[1] Record from January to May, inclusive, made at Lake Butler, 2 miles northwest of Johnstown.
[2] Record for January to April, inclusive, made at Middleburg, 4 miles northwest of Rideout.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Georgia—Continued.													
*Dahlonega	3.12	8.06	5.92	1.70	1.55	1.31	2.17	3.84	6.82	1.95	4.01	8.00	47.95
Diamond	2.47	8.36	5.93	2.17	2.30	1.80	2.58	5.30	7.18	0.95	5.11	6.82	50.97
Douglass	1.00	7.80	10.25	1.80	3.25	6.30	8.00	1.41	5.26	4.10	5.32	6.50	60.52
*Dublin	1.15	3.75	8.97	1.73	4.33	2.25	6.35	5.05	1.71	3.53	3.16	2.77	44.75
Dudley	.....	.....	.....	.....	.....	.....	.....	.....	2.84	3.56	3.12	2.71	.....
*Eastman	.....	5.78	.....	2.54	2.46	2.53	9.02	3.63	4.08	5.08	2.38	2.91	.....
Elberton	2.96	9.94	6.53	1.77	1.87	2.08	3.06	3.22	4.45	2.60	3.10	4.71	46.29
Experiment	2.04	12.80	7.66	1.88	0.79	1.90	1.54	4.99	2.59	3.53	4.53	2.80	47.05
Fitzgerald	0.72	5.17	8.42	1.27	2.15	3.78	9.38	1.41	5.96	4.79	3.33	3.90	50.28
Fleming	0.65	2.37	8.54	1.65	3.54	6.79	7.12	3.42	5.45	6.45	5.78	4.87	56.63
*Fort Gaines	1.03	6.98	10.41	1.21	3.31	2.86	8.48	5.27	6.64	4.02	3.40	3.14	51.75
Franklin	.....	.....	.....	.....	1.45	.....	.....	.....	.....	.....	.....	.....	.....
*Gainesville	2.83	9.40	7.58	1.76	3.41	2.01	3.85	3.02	7.05	3.26	4.31	6.15	54.63
Gillsville	3.12	10.06	6.24	1.44	1.90	1.65	2.91	2.58	7.17	2.17	4.23	4.48	47.95
Greenbush	1.99	6.96	6.45	0.90	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Greensboro	.....	.....	.....	2.31	1.88	3.16	6.59	6.07	3.71	3.57	3.08	5.15	.....
*Griffin	1.65	12.79	7.54	2.34	1.40	1.50	2.05	4.14	3.19	3.63	3.37	3.11	46.71
Harrison	0.62	5.20	8.65	2.07	0.86	2.91	6.62	11.11	2.84	2.39	2.96	2.66	48.99
Hawkinsville	2.35	5.03	11.09	1.43	2.04	2.51	7.26	4.95	3.82	5.32	.....	3.52	.....
Hephzibah	0.85	6.80	7.51	3.36	1.76	2.68	2.47	2.18	0.55	2.88	.....	2.38	.....
Jesup	0.76	4.08	9.41	2.04	1.91	.....	.....	.....	.....	5.02	6.89	4.16	.....
Lost Mountain	3.78	7.78	6.99	1.82	1.29	2.02	3.79	4.48	5.30	0.92	4.00	5.15	47.32
Louisville	1.58	4.26	7.28	2.31	3.62	3.13	7.32	4.44	1.96	3.80	2.78	2.81	45.29
Lumpkin	3.08	7.51	9.57	1.68	1.75	5.32	4.32	4.38	5.29	2.96	2.51	3.16	51.53
*Macon	1.13	5.15	7.65	1.45	1.97	2.16	5.15	1.84	2.38	2.97	3.31	2.84	38.00
Marshallville	1.00	5.96	9.90	1.62	1.67	3.04	5.96	2.17	2.05	4.45	3.36	2.66	43.84
Mauzy	0.57	5.76	8.83	0.97	2.48	7.23	7.96	2.67	4.98	1.20	3.43	2.83	48.91
*Milledgeville	2.55	6.43	8.61	3.74	1.67	4.62	6.12	4.05	3.49	5.14	3.97	3.09	53.47
*Millen	T.	3.96	5.15	2.70	1.90	4.60	8.22	2.25	0.59	5.46	2.34	3.38	38.55
*Monticello	.....	.....	.....	.....	2.84	4.21	7.93	3.42	1.79	3.37	2.71	5.02	.....
Morgan	1.34	7.76	11.95	0.81	1.61	5.92	3.26	2.07	5.37	2.05	4.64	2.20	48.98
Naylor	0.50	5.70	8.40	2.25	1.90	8.10	4.43	3.18	5.78	3.92	6.36	5.47	55.99
*Newnan	1.72	9.07	7.71	2.52	1.31	2.00	3.14	3.64	4.40	4.71	5.31	5.59	51.12
*Oakdale	3.26	6.85	.....	2.02	1.89	.....	4.26	1.33	3.45	1.80	2.68	6.25	.....
Pelham	.....	.....	.....	.....	.....	.....	6.90	6.55	6.18	.....	.....	.....	.....
Point Peter	4.27	8.33	7.02	2.66	2.80	2.03	2.80	3.89	5.83	2.10	3.41	4.57	49.71
Poulan	0.92	7.19	9.17	1.11	1.77	4.57	5.65	3.19	2.64	3.68	3.65	4.11	47.65
Putnam	0.90	6.63	11.25	0.98	5.01	2.15	5.14	4.00	2.98	4.50	3.12	3.65	50.31
*Quitman	1.09	5.37	9.12	1.90	2.00	9.50	4.62	5.58	7.97	4.08	4.42	11.34	66.99
Ramsey	2.92	5.26	6.08	1.82	1.18	4.32	3.49	5.82	3.70	1.32	3.84	5.38	45.13
*Resaca	3.36	6.77	5.61	1.67	0.50	1.28	3.08	0.97	5.90	2.47	3.83	5.65	41.09
*Rome	3.64	7.49	6.42	1.68	0.68	1.29	2.65	6.80	3.95	2.79	3.82	5.47	46.54
*Savannah	0.30	2.34	5.22	2.47	2.51	2.19	9.28	6.30	3.83	4.72	4.96	3.28	47.35
Saint Marys	0.35	4.16	6.22	1.71	2.09	3.28	6.00	3.89	18.26	10.00	4.02	7.34	67.32
Statesboro	.....	5.10	5.67	1.97	2.51	7.44	3.74	3.15	2.34	6.78	3.22	4.09	.....
Stillmore	.....	.....	7.68	2.52	5.38	5.00	12.29	4.00	3.64	5.07	3.96	.....	.....
Talbotton	2.04	9.30	9.52	1.85	2.90	0.90	4.49	3.33	3.10	4.40	3.33	4.54	49.70
*Tallapoosa	.....	.....	.....	.....	0.56	0.70	1.70	2.13	5.05	1.15	2.67	4.99	.....
*Thomasville	0.79	6.18	10.16	1.56	1.20	7.97	4.52	2.29	9.52	4.15	2.87	6.45	57.66
*Toccoa	1.88	9.44	5.94	1.51	1.51	2.21	3.57	5.83	10.41	3.08	3.62	6.10	55.10
Valona	0.54	3.40	8.57	2.30	1.10	5.50	6.52	4.50	8.47	14.27	3.91	3.20	62.28
Vidalia	1.08	4.38	8.07	2.21	5.11	5.58	4.89	6.07	3.71	2.96	3.84	2.92	50.82
*Washington	1.74	10.15	7.74	2.62	2.87	3.30	1.84	3.72	.....	3.87	4.90	3.80	.....
Waverly	0.75	4.59	7.42	1.04	3.65	3.29	10.12	8.57	10.00	10.24	5.02	3.10	67.79
*Waycross	0.92	4.32	9.02	2.63	6.65	9.59	8.36	2.45	8.92	5.07	3.62	3.00	64.55
*Waynesboro	0.47	3.48	4.62	2.32	0.90	4.05	8.58	3.37	2.10	7.41	.....	4.77	.....
*Westpoint	1.75	11.94	8.22	1.81	2.86	1.54	1.32	4.23	3.09	4.93	5.81	5.44	52.94
*Woodbury	1.53	16.48	7.30	2.33	3.37	2.93	1.76	4.13	2.82	3.11	2.85	3.19	51.80
Idaho.													
Albion	0.88	1.84	0.80	2.27	2.55	0.29	0.43	0.25	0.17	0.18	1.18	2.31	13.25
American Falls	0.52	2.30	0.68	2.31	.....	0.12	T.	0.18	0.38	0.10	1.37	1.22	.....
Atlanta	.....	.....	.....	.....	.....	.....	1.69	.....	.....	.....	.....	.....	.....
Blackfoot	0.55	1.12	0.20	1.27	1.06	T.	T.	0.00	.....	.....	0.10	0.10	.....
Blue Lakes	.....	.....	.....	0.80	0.71	.....	.....	0.61	T.	0.14	1.33	1.60	.....
*Boise	0.63	3.02	0.92	0.77	1.12	1.08	0.75	0.20	0.03	0.69	1.93	1.01	12.15
Burnside	0.56	1.25	0.55	0.75	2.33	.....	1.59	0.45	0.05	0.15	1.90	1.90	.....
Cambridge	.....	.....	.....	.....	.....	.....	.....	.....	0.20	0.41	3.38	4.19	.....
Challis	0.50	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chesterfield	0.60	0.90	0.82	1.01	1.69	1.22	0.73	0.20	T.	.....	.....	1.07	.....
Downey	*0.40	0.80	1.50	0.34	0.19	0.08	T.	T.	0.01	0.01	0.24	.....	.....
Forney	0.66	2.87	1.92	0.51	1.45	1.54	1.31	0.68	0.09	0.62	2.53	3.20	17.98
Garnet	0.45	1.69	1.12	0.46	0.16	0.44	T.	T.	T.	0.31	1.09	1.00	6.72
Grangeville	1.89	0.71	.....	0.51	1.06	.....	.....	.....	0.00	0.71	2.10	2.21	.....
Hailey	0.54	4.79	1.61	0.89	1.24	0.18	0.23	0.04	0.09	.....	.....	2.75	.....
Idaho City	0.26	3.77	1.16	.....	.....	.....	2.00	T.	.....	.....	.....	.....	.....
Lake	0.30	0.70	2.60	0.80	1.50	0.83	1.30	.....	.....	.....	.....	.....	.....
Lakeview	1.90	4.40	2.08	2.24	4.52	1.24	5.38	0.75	1.71	0.32	6.57	5.71	36.77
*Lewiston	0.83	1.72	0.92	0.76	2.72	0.65	1.19	0.69	0.34	0.54	1.90	1.70	13.96
Lost River	0.07	0.74	0.85	0.77	10.61	0.19	0.18	0.21	0.09	0.43	1.62	0.40	6.16
Moscow	2.29	3.49	1.18	1.21	3.28	0.59	2.33	0.27	1.29	1.24	6.59	3.73	27.49
Murray	1.90	4.33	1.95	2.88	5.10	1.69	5.22	1.09	2.22	1.20	8.01	7.10	42.69
Oakley	*0.50	0.60	0.53	1.15	0.10	0.50	0.55	0.00	0.30	0.20	0.60	0.75	5.78
Ola	1.29	5.76	1.91	1.05	1.83	0.60	1.86	0.75	0.33	1.22	3.36	2.87	22.83
Paris	0.22	1.19	.....	2.43	0.70	.....	.....	.....	.....	.....	.....	1.52	.....
Payette	0.86	3.83	0.68	0.30	1.05	0.71	0.50	0.47	0.35	0.55	2.85	1.89	14.04
*Pocatello	0.86	2.07	0.82	2.44	1.67	0.60	0.34	0.17	0.21	0.14	1.14	0.98	11.44
Pollock	0.08	1.67	1.11	1.48	2.96	1.08	0.66	1.32	0.58	0.30	1.55	1.31	13.75
Porthill	1.64	3.31	1.30	0.97	4.12	1.45	2.10	1.06	1.46	0.33	3.19	3.54	24.47
Priest River	1.75	3.91	2.44	3.29	5.18	1.38	5.61	0.75	1.24	0.49	6.98	4.39	37.41
Riddle	0.53	0.90	1.15	1.16	1.06	0.12	0.75	0.77	0.40	0.44	1.43	1.40	10.13
St. Maries	1.27	3.80	2.08	1.54	3.78	1.12	4.32	0.98	1.30	0.79	7.13	4.95	33.06

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Idaho—Continued.													
Silver City	1.42	5.65	3.33	2.06	1.99	1.08	1.24	0.86	0.42	1.44	5.12	4.90	29.51
Soldier	0.55	3.10	2.69	0.72	0.64	0.11	0.47	0.04	0.04	0.38	1.42	2.48	12.64
Swan Valley	0.27	0.53	1.86	0.07	.....	.....	.....	0.10	0.31	T.	0.51	.....	.....
Thunder Mountain	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.88	3.01	5.47	.....
Vernon	0.32	0.67	0.95	0.45	1.08	0.53	1.42	T.	.....	0.35	1.90	.....	.....
Weston	0.27	1.41	1.06	2.70	1.68	[2]0.54	0.31	0.51	0.10	[3]0.29	1.03	1.28	11.18
Illinois.													
Albion	2.00	0.86	2.86	1.85	4.15	4.98	2.33	3.02	3.03	0.93	4.92	4.99	35.92
Aledo	0.58	0.82	2.57	3.39	5.36	7.81	8.79	6.89	5.11	3.51	2.10	1.96	48.89
Alexander	0.79	0.97	3.05	3.26	2.19	7.01	3.27	5.38	4.01	2.29	3.08	2.45	37.66
Antioch	0.45	1.40	1.95	1.80	7.45	5.90	6.25	0.55	7.35	3.67	1.80	0.70	38.77
Ashton	0.73	1.36	1.76	1.51	6.72	10.41	7.26	2.51	4.09	4.18	2.38	1.69	44.60
Astoria	1.70	1.68	4.08	2.52	3.32	8.71	4.83	5.58	3.03	2.77	2.64	2.77	43.63
Aurora	0.56	2.05	3.14	2.16	6.18	13.19	7.43	2.32	7.29	2.02	2.93	1.71	50.90
*Beardstown	.....	.....	5.24	2.74	1.73	8.01	.....	.....	.....	.....	.....	.....	.....
Benton	0.60	0.80	3.66	2.37	2.79	2.88	1.62	3.30	1.80	0.96	4.89	5.55	31.22
Bloomington	0.90	1.75	4.45	2.43	2.07	12.45	7.97	5.81	4.91	2.70	2.75	2.24	50.43
Bushnell	.....	.....	.....	.....	.....	6.90	4.50	.....	.....	.....	.....	.....	.....
*Cairo	3.42	1.37	2.12	3.36	2.13	2.47	0.40	3.26	3.29	0.79	3.51	6.95	33.07
Cambridge	0.62	1.36	2.90	2.48	4.38	7.89	11.55	4.64	5.99	4.19	2.11	2.05	50.16
Carlinville	1.14	0.86	4.18	2.44	3.37	10.82	1.82	5.43	3.76	3.06	3.28	3.39	43.50
Carrollton	.....	.....	.....	[2]2.06	2.23	8.93	3.20	6.07	4.66	2.36	3.69	3.14	.....
Centralia	1.09	0.95	3.89	1.98	1.98	5.03	3.73	5.27	2.70	1.10	3.11	3.88	34.71
Charleston	0.97	1.96	3.77	2.33	3.46	7.78	3.78	4.24	4.98	1.99	2.52	3.94	41.72
*Chemung	0.42	0.80	1.88	0.78	5.30	5.20	6.54	1.06	5.44	.....	.....	.....	.....
*Chester	1.54	1.39	4.06	2.85	3.61	3.27	2.62	4.77	3.48	1.41	3.97	4.08	37.05
*Chicago	0.66	1.53	4.16	2.26	5.08	6.45	5.78	1.44	4.83	1.45	2.03	1.90	37.57
Cisne	1.48	1.00	3.65	1.78	2.97	4.55	1.83	3.29	1.55	0.76	3.18	4.11	30.15
Coatsburg	0.48	1.11	4.31	2.77	4.10	9.90	3.87	4.53	2.01	2.21	2.85	2.80	40.94
Cobden	1.52	2.53	4.22	3.04	3.13	2.78	0.82	4.45	3.42	0.84	4.92	6.36	38.03
Danville	0.98	0.27	2.60	1.88	2.60	.....	0.80	1.59	.....	.....	.....	.....	.....
*Decatur	1.06	1.42	3.93	2.26	2.80	9.08	2.43	7.01	4.98	2.08	2.45	3.83	43.28
*Dixon	0.43	1.05	1.81	1.69	8.00	9.75	8.47	2.62	4.63	3.90	2.37	2.13	46.85
Dwight	0.44	1.43	3.82	2.10	5.72	11.53	7.52	3.62	5.36	2.09	3.11	1.49	48.23
Effingham	0.87	0.40	1.30	3.45	4.02	6.71	2.61	4.98	3.44	2.03	2.81	3.40	36.02
Equality	2.55	1.03	3.09	3.09	2.71	1.84	1.69	3.39	3.74	1.06	4.91	5.17	34.27
Fandon	.....	.....	.....	.....	.....	.....	.....	7.88	3.06	2.42	1.71	2.39	.....
Flora	1.25	0.94	2.64	2.35	1.55	4.63	2.53	3.13	3.37	1.01	2.85	.....	.....
Friendgrove	1.62	0.59	3.41	2.45	2.91	4.48	2.38	2.83	2.76	1.57	4.43	5.13	34.56
*Galva	0.44	1.29	4.17	2.07	5.01	8.96	10.54	3.78	6.04	3.28	1.82	1.64	49.04
*Grafton	1.03	0.96	3.95	2.67	1.41	8.58	1.30	3.58	3.74	1.91	2.43	4.48	35.94
Greenville	0.61	1.37	4.19	2.69	2.63	8.15	2.02	4.41	2.43	3.24	3.41	3.92	39.07
Griggsville	0.56	1.53	2.67	3.99	4.21	7.33	2.89	7.20	3.36	2.58	3.74	2.65	42.71
Halfway	1.87	0.74	3.16	2.57	3.63	2.87	1.57	3.58	2.54	0.78	4.12	4.75	32.18
Halliday	1.42	0.97	2.87	2.09	5.01	3.85	0.90	4.07	1.88	1.51	3.98	4.79	33.34
Havana	0.85	1.42	2.31	2.70	2.57	.....	.....	.....	.....	.....	.....	.....	.....
Henry	0.46	1.60	3.60	2.63	4.14	11.21	11.01	5.44	6.10	1.60	3.38	1.88	53.05
*Hillsboro	0.82	0.89	4.95	2.79	3.31	8.93	1.39	5.71	5.32	2.52	3.34	4.00	43.97
Hoopeston	.....	.....	.....	.....	.....	14.37	4.85	2.30	3.01	1.99	2.88	2.60	.....
Joliet	0.55	1.43	5.51	2.36	7.43	12.86	9.38	3.15	6.28	2.44	2.99	1.68	56.11
Kishwaukee	*0.48	1.63	3.17	1.62	7.88	7.45	6.87	1.49	7.04	2.07	2.94	1.87	44.51
Knoxville	0.52	1.42	3.66	2.22	3.70	9.63	8.07	7.90	4.04	3.27	2.00	2.07	48.50
Lagrange	0.53	1.34	3.19	1.89	6.16	10.64	7.51	2.08	5.91	2.09	2.68	2.31	46.33
Laharpe	0.65	1.30	3.40	2.95	3.00	9.70	6.75	9.05	2.50	2.65	2.90	2.04	46.89
Lanark	0.46	1.27	1.44	2.65	7.14	10.51	9.79	2.26	5.63	3.08	4.53	2.78	51.54
Lasalle	0.35	1.75	3.57	2.30	4.36	8.90	10.70	.....	.....	1.67	3.05	.....	.....
Loami	.....	1.06	2.96	2.79	2.10	7.79	2.38	4.69	4.02	2.49	2.90	1.86	.....
*McLeansboro	1.93	0.96	3.88	2.18	3.30	2.68	2.21	2.71	2.44	0.85	3.66	5.27	32.01
Martinsville	0.54	1.14	3.49	2.49	2.87	6.48	4.28	4.57	3.78	1.39	.....	.....	.....
*Marlinton	0.88	1.81	4.14	3.36	4.51	12.53	6.29	2.37	6.84	1.72	3.37	2.91	50.68
Mascoutah	1.36	0.83	4.78	2.70	3.15	5.00	2.59	4.40	2.52	1.55	3.53	3.75	36.16
Mattoon	1.15	1.95	4.96	6.11	11.00	14.83	1.26	3.09	1.97	1.53	2.22	2.77	62.84
Melrose	.....	.....	1.97	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Minonk	0.48	1.41	3.89	2.23	2.43	9.41	7.76	8.56	4.59	1.59	3.15	1.79	47.29
Monmouth	0.30	0.99	3.21	3.13	3.65	13.97	7.51	8.80	3.48	3.39	2.28	2.56	58.27
Monticello	1.83	1.24	.....	2.87	.....	.....	.....	.....	.....	1.35	.....	1.01	.....
Morgan Park	0.45	1.14	4.76	2.89	7.84	10.70	6.58	2.47	.....	.....	.....	.....	.....
Morrison	0.82	1.62	2.46	1.47	6.48	9.60	8.66	5.32	3.99	2.78	2.91	2.45	48.56
Morrisonville	1.00	0.93	4.20	2.81	1.02	10.61	1.30	4.43	2.89	2.45	2.93	3.02	37.59
*Mount Carmel	2.37	1.10	2.99	2.07	2.52	4.98	1.65	2.66	3.17	1.83	5.00	5.82	36.16
Mount Pulaski	0.67	1.40	4.15	3.34	1.33	8.46	3.34	5.64	4.13	2.24	2.62	2.21	39.53
*Mount Vernon	1.45	0.92	3.92	1.42	5.14	5.35	2.81	2.85	3.26	0.28	4.47	4.91	36.78
*New Burnside	2.89	0.77	3.08	3.49	3.20	3.40	2.04	4.33	5.07	.....	5.71	6.03	.....
Olney	1.41	0.69	2.64	1.51	1.85	4.70	3.07	3.20	2.14	1.33	3.51	4.01	30.06
*Ottawa	0.68	1.41	4.89	2.55	5.64	10.51	10.49	4.40	6.76	1.87	4.29	2.01	55.45
Palestine	2.46	1.43	3.77	2.23	4.60	7.73	1.63	6.22	3.14	2.40	3.37	3.78	42.76
Pana	1.47	0.96	3.83	2.94	1.71	10.43	1.48	5.51	4.01	2.32	3.16	3.68	41.50
*Paris	0.87	1.20	2.93	1.56	4.97	9.04	4.26	4.71	3.31	2.11	4.22	3.89	43.07
*Peoria[1]	0.63	1.21	4.80	2.25	3.03	10.76	7.46	8.32	5.64	2.79	3.06	1.67	51.62
*Peoria[2]	0.62	1.41	2.71	2.29	2.99	9.60	7.30	7.42	6.84	3.78	2.88	1.54	49.33
Philo	1.02	1.56	3.18	1.47	2.23	7.38	5.59	5.39	4.06	3.39	3.23	3.12	41.62
Plumhill	1.21	0.58	4.18	1.94	3.58	5.04	1.88	5.04	3.70	1.17	3.76	4.10	36.18
*Rantoul	0.77	1.90	3.09	2.72	3.29	13.54	5.69	6.09	4.73	2.85	2.37	2.96	50.00
Raum	3.56	1.80	2.82	3.50	3.33	2.16	1.66	4.20	2.83	1.70	4.96	7.16	39.68
Riley	0.53	1.42	2.31	1.31	6.16	6.83	7.78	1.00	3.58	2.90	2.87	2.35	39.06
Robinson	1.05	0.95	2.98	2.78	3.10	6.34	2.22	6.29	2.72	1.65	3.61	4.14	37.88
*Rockford	.....	.....	.....	0.84	8.30	7.74	5.76	1.14	6.43	.....	.....	.....	.....
Rushville	0.67	1.47	4.67	2.76	2.72	8.34	4.38	6.45	4.32	2.86	2.00	2.67	43.31
St. Charles	0.83	2.03	.....	2.11	7.90	7.36	6.85	2.67	6.65	2.19	2.98	1.84	.....
St. John	1.51	1.16	4.20	2.09	3.07	3.03	3.49	2.12	2.44	1.02	4.10	4.54	32.77

[1] River observer.

[2] Corn and wheat region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Illinois—Continued.													
Scales Mound	0.66	1.71	.....	1.85	8.01	7.63	.....	4.08	2.82	1.52	2.77	3.06	.....
Shobonier	1.15	1.07	4.24	2.20	2.04	6.62	.....	.....	.....	.....	.....	.....	.....
*Springfield	1.01	1.01	3.73	3.03	1.80	10.10	1.41	5.12	2.30	2.15	2.82	2.23	36.71
Strawn	0.97	1.70	3.55	2.39	3.59	14.00	.....	.....	5.67	.....	.....	.....	.....
*Streator	0.79	1.32	4.66	2.17	4.37	10.64	8.59	7.11	5.26	3.24	3.48	1.74	53.37
Sullivan	1.05	1.18	2.42	3.40	3.22	8.82	2.70	4.19	3.13	2.24	2.54	3.09	37.98
*Sycamore	0.70	2.72	3.27	1.96	7.97	9.00	7.83	2.27	4.29	3.10	2.95	2.02	48.08
Tilden	0.96	0.76	4.47	2.04	4.70	2.82	2.71	4.15	3.79	1.42	4.09	4.33	36.24
Tiskilwa	0.55	1.46	3.29	2.33	5.05	8.19	10.70	5.00	6.25	2.99	3.75	2.12	51.68
*Tuscola	1.24	1.61	3.95	2.00	2.72	8.56	4.66	5.46	2.85	2.63	2.83	4.24	42.75
Urbana	.....	.....	.....	.....	.....	.....	.....	9.79	4.90	2.10	2.43	2.94	.....
Walnut	0.38	1.38	2.09	1.53	6.50	8.89	11.01	4.63	4.99	3.63	1.89	1.81	48.73
Wellington	0.80	0.57	1.88	1.02	4.71	10.49	2.44	1.90	3.53	1.55	1.94	.....	.....
Winchester	1.52	.....	4.29	3.37	4.80	7.49	3.36	5.63	4.06	2.85	3.48	3.46	.....
Winnebago	0.63	1.43	2.86	1.74	7.62	8.76	5.85	1.58	4.71	1.62	3.06	2.10	41.91
Yorkville	0.56	2.05	2.70	1.15	7.06	14.44	7.99	2.96	8.23	1.80	3.23	1.80	53.97
Zion	0.50	1.80	2.01	1.89	4.69	7.80	8.70	2.89	4.04	1.52	3.12	2.49	41.45
Indiana.													
Anderson	0.67	0.54	3.27	2.03	2.75	10.04	2.64	1.01	5.73	3.13	3.49	3.90	39.20
Angola	1.10	1.32	4.04	1.20	5.28	8.52	3.64	1.55	4.81	1.77	2.66	4.67	40.56
*Auburn	0.43	0.63	2.73	1.42	3.81	7.84	2.57	0.80	[4]4.24	.....	2.07	2.85	.....
Avoca	.....	.....	.....	.....	.....	.....	.....	1.76	3.89	3.28	3.69	4.66	.....
Bedford	.....	0.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Bloomington	0.90	2.50	2.89	2.86	4.40	5.02	4.19	4.64	4.06	3.40	4.51	5.28	44.65
Bluffton	0.85	0.51	3.37	1.92	2.88	9.03	5.21	2.31	6.79	2.13	2.27	2.70	39.97
Butlerville	2.48	1.69	3.31	2.87	5.45	5.75	3.33	2.94	4.21	3.13	5.70	5.02	45.88
*Cambridge City	1.14	0.38	4.16	2.33	3.80	9.75	1.86	2.41	4.92	3.17	2.77	3.56	40.25
Cannelton	.....	.....	.....	2.55	.....	.....	0.21	.....	.....	.....	.....	.....	.....
*Columbus	1.39	0.64	2.81	2.25	4.39	4.30	2.24	1.97	4.13	2.74	3.74	3.90	34.50
Connersville	0.89	0.45	3.61	2.32	4.03	8.96	1.84	1.49	5.11	3.59	2.84	3.62	38.75
Crawfordsville	.....	0.66	3.11	1.60	3.63	6.31	2.70	1.75	4.97	1.40	3.90	4.10	.....
*Delphi	0.85	1.59	2.36	1.52	3.42	13.14	5.16	1.05	4.01	2.99	3.07	3.35	42.51
Edwardsville	4.05	0.94	2.58	2.64	7.37	7.35	1.76	3.54	3.68	1.56	3.96	7.20	46.63
Elkhart	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.70	2.10	2.03	.....
*Evansville	2.36	0.51	3.12	1.91	1.36	3.17	0.41	1.82	2.80	2.66	4.63	5.04	29.78
Fairmount	.....	.....	3.36	1.75	1.78	8.96	.....	.....	.....	.....	.....	.....	.....
*Farmland	0.96	0.63	3.39	1.76	3.51	8.30	1.91	1.48	5.61	2.76	3.67	3.71	37.69
Fort Wayne	0.49	0.97	3.33	2.17	2.95	7.32	2.76	.....	9.87	4.28	3.06	.....	.....
Franklin	1.01	0.48	1.42	1.79	5.32	10.00	2.48	.....	5.50	3.02	3.27	3.91	.....
Greencastle	0.61	1.05	3.39	1.71	3.15	6.88	4.42	2.73	6.44	2.20	3.65	3.98	40.21
Greensburg	.....	0.10	2.18	2.19	2.18	12.55	4.32	1.29	7.65	2.60	4.90	4.25	.....
Hammond	1.44	2.62	4.52	2.27	6.89	7.29	4.54	2.51	3.16	2.06	3.29	2.08	42.67
Hector	0.20	.....	3.23	1.55	3.44	7.04	2.70	1.48	4.35	2.19	2.80	4.00	.....
Holland	.....	.....	.....	.....	.....	5.50	2.33	4.36	3.21	3.27	6.04	7.18	.....
Huntington	1.41	1.09	3.32	1.49	3.94	9.03	3.07	1.93	7.33	4.21	3.29	3.52	43.63
*Indianapolis	0.76	0.54	3.08	1.60	3.66	7.52	3.67	2.09	5.33	2.36	3.03	4.06	37.70
Jeffersonville	4.48	0.63	2.37	2.14	6.68	5.04	1.80	2.85	4.25	1.42	4.21	5.54	41.41
Knightstown	1.06	1.10	4.01	2.00	3.34	7.44	1.54	1.00	5.84	.....	.....	.....	.....
Kokomo	0.78	0.96	2.88	2.55	3.08	9.13	6.30	1.22	6.03	2.13	3.12	2.68	40.86
*Lafayette	0.87	1.82	3.21	3.14	3.64	11.37	6.56	1.40	3.72	3.27	3.47	3.47	45.94
Laporte	0.96	1.85	4.22	2.25	7.64	8.68	5.01	2.75	5.26	1.38	3.27	3.09	45.76
*Logansport	2.88	0.61	2.00	1.48	3.91	9.55	4.90	2.09	4.40	2.65	2.37	3.12	39.96
Madison[1]	3.34	0.63	2.36	2.69	5.89	8.80	3.20	1.23	3.28	2.13	3.69	5.64	37.38
*Madison[2]	2.67	0.36	1.97	2.69	5.80	3.89	2.39	1.25	3.01	2.58	3.54	5.34	35.49
Marengo	1.76	1.33	3.41	2.46	6.04	6.41	2.29	4.56	5.82	3.71	6.24	6.75	50.78
*Marion	1.05	0.82	3.51	1.61	2.59	8.02	6.23	2.10	6.10	2.03	3.45	3.12	40.63
Markle	0.85	0.51	3.45	1.77	3.20	8.20	3.10	1.60	6.70	4.10	2.82	3.75	40.05
Mauzy	0.96	0.56	4.32	2.58	6.09	8.03	2.07	1.36	5.61	4.06	3.55	4.02	43.23
Moores Hill	.....	0.30	2.33	2.70	6.80	5.52	2.47	1.85	5.00	2.06	3.92	4.87	.....
*Mount Vernon	2.63	0.82	2.91	2.13	2.24	4.27	1.37	1.48	2.46	2.87	4.90	6.02	34.10
Northfield	0.80	0.70	2.48	1.85	2.48	6.38	3.80	1.15	5.16	1.83	3.61	3.01	33.25
Oolitic	.....	.....	.....	.....	.....	.....	.....	1.76	3.89	.....	.....	.....	.....
Paoli	2.53	0.87	4.01	2.16	9.31	6.90	1.13	2.89	4.28	3.27	6.59	5.49	49.43
Prairie Creek	0.61	0.78	3.30	2.33	1.55	3.76	3.33	3.09	2.92	1.56	2.60	3.38	29.21
Princeton	1.70	0.90	2.18	1.90	3.30	4.90	2.85	1.97	3.53	2.80	4.26	5.53	35.82
Rensselaer	1.03	1.81	3.23	1.98	2.81	13.90	6.47	1.56	4.20	1.52	3.06	2.79	44.31
Richmond	0.75	0.36	3.28	1.97	3.35	9.41	2.24	2.07	3.87	3.01	3.48	3.77	37.56
Rockville	0.39	1.32	3.03	1.24	3.59	7.29	2.85	5.36	4.73	2.04	3.62	3.11	38.57
Salem	3.06	0.96	3.60	2.31	5.71	5.76	2.09	2.85	4.32	2.70	5.54	7.25	46.15
Scottsburg	2.98	1.10	2.48	2.09	6.42	4.75	2.11	2.57	3.77	3.04	4.32	5.19	40.82
Seymour	2.63	1.23	3.50	3.35	8.50	5.30	5.10	3.19	4.25	2.95	5.90	4.90	50.80
Shelbyville	.....	.....	.....	.....	.....	6.97	2.28	1.67	5.32	3.41	3.86	3.62	.....
*South Bend	1.16	1.45	3.85	2.38	6.94	7.39	4.16	1.58	4.50	1.46	3.35	3.31	41.53
Syracuse	1.08	2.37	3.34	1.74	4.50	8.76	6.27	2.70	6.30	1.61	3.18	3.17	45.02
*Terre Haute	0.86	0.99	2.78	1.78	2.88	6.41	3.18	2.73	3.78	2.51	3.19	3.79	34.88
Topeka	0.40	1.06	2.54	1.36	5.78	6.30	4.45	1.72	4.39	1.41	2.30	1.32	33.03
Valparaiso	0.68	0.83	2.79	1.81	.....	.....	5.51	3.77	5.17	1.56	3.06	1.96	.....
Veedersburg	.....	1.34	3.36	1.14	2.68	8.41	2.48	2.33	4.38	.....	.....	3.46	.....
Vevay	2.70	0.75	1.65	2.80	6.25	4.05	3.75	0.70	3.85	2.80	4.15	6.35	38.80
*Vincennes	1.83	0.98	2.99	1.85	2.20	6.00	2.84	4.68	2.80	2.15	4.40	4.56	37.27
*Washington	2.01	1.64	2.35	2.45	4.47	5.25	3.57	4.33	3.07	4.16	4.38	4.81	42.49
Winamac	.....	.....	3.89	1.54	5.67	10.94	5.59	1.49	3.68	2.60	3.37	.....	.....
Worthington	1.29	0.82	3.51	2.41	5.30	6.82	4.61	3.05	3.26	2.34	3.64	4.57	41.62
Indian Territory.													
*Ardmore	0.33	0.25	3.97	2.81	9.86	0.54	2.33	0.87	9.27	4.06	10.18	2.41	47.58
Bengal	1.40	0.55	.....	4.50	6.10	6.70	.....	.....	.....	.....	.....	.....	.....
Chickasha	0.10	0.08	2.85	3.48	12.56	0.51	2.11	2.51	6.09	2.14	7.62	1.74	41.70
Claremore	.....	.....	.....	.....	.....	.....	.....	.....	3.80	.....	3.63	2.00	.....
*Durant	1.01	0.85	6.40	3.05	8.70	2.30	1.83	2.44	6.98	2.00	7.44	3.36	46.36

[1] Dr. J. Cooperider.

[2] River observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Indian Territory—Continued.													
Fairland	1.01	1.32	4.65	3.56	3.99	6.14	2.95	6.56	4.43	2.49	4.55	2.76	44.41
Goodwater					11.30	5.00	8.90	0.75	6.77	2.85	12.10	4.86	
Hartshorne	1.82	1.42	5.51	6.40	7.56	3.97	2.79	2.20	4.40	1.38	9.52	2.95	49.92
Healdton	0.03	0.20	3.72	3.49	13.34	0.65	2.97	0.25	7.55	3.22	11.50	3.94	50.86
*Holdenville	0.90	0.13	4.45	4.73	7.66	1.52	0.62	1.00	13.64	1.38	5.45	2.41	43.89
*Marlow	0.05	0.06	3.34	4.91	12.25	0.40	0.76	0.95	7.45	3.16	10.87	1.39	45.59
*Muscogee	0.98	0.45	3.91	2.37	5.34	3.95	1.67	3.17	8.83	2.68	3.91	3.25	40.51
Pauls Valley	0.16		5.50					0.68	6.42	3.20	9.40	2.25	
Ravia												2.72	
Roff	0.60			3.15									
Ryan	0.02	0.10	2.59	1.65	10.46	0.57	1.91	0.83					
*South McAlester	1.43	0.79	5.59	5.16	8.84	4.19	2.00	2.04	5.31	3.56	9.57	4.72	53.20
Tahlequah	1.50	1.26	7.81	2.67	3.42	6.98	0.52	6.14	7.62	2.71	5.23	4.04	49.90
*Tulsa	1.20	0.70	3.38	2.46	11.30	0.75	0.10	2.89	5.97	2.30	3.55	3.43	38.03
Wagoner				[b]1.50	6.00		2.70	3.10	9.10	1.80	3.90	4.20	
*Webbers Falls	1.72	0.56	5.04	2.85	6.70	3.87	2.54	0.96	7.24	2.30	8.60	4.12	46.50
Iowa.													
Afton	1.30	0.40	0.71	1.85	7.31	4.88	8.67	5.80	7.32	4.32	1.90	2.30	46.76
Albia	0.82	0.92	0.91	2.85	5.48	7.93	8.82	7.27	6.42	4.57	3.34	1.92	51.25
Algona	1.04	0.50	0.13	1.10	5.49	4.10	6.03	7.49	4.95	1.10	2.50	2.45	36.88
Allerton						7.15	8.77	11.06	6.24	3.52	2.28	1.48	
Alta	0.94	0.40	0.87	1.51	4.31	6.89	12.24	6.34	3.94	1.11	2.77	1.97	42.99
Amana	0.88	1.10	1.45	1.83	5.30	6.86	6.17	9.41	6.36	3.71	1.77	1.97	46.81
Ames	1.32	0.38	2.70	2.31	6.69	10.01	8.06	7.12	1.66	2.56	1.11	1.87	45.79
Atlantic	1.70	0.59	2.08	1.37	4.48	6.89	9.36	4.75	4.44	2.61	2.68	2.66	43.51
Audubon					4.64	5.86	8.72		4.98	1.79	1.78	1.75	
Baxter	0.70	0.75	0.90	3.21	4.95	10.76	6.60	6.57	4.85	4.33	2.30	1.95	47.87
Bedford				1.50	5.13	10.62	7.63	7.38	4.76	2.95	2.10	2.13	
Belknap	0.60	0.69	1.59	3.58	2.63	8.90	6.68	6.17	5.17	4.35	2.65		
Belleplaine	1.07	2.39	3.45	2.57	7.13	7.12	6.20	13.53	5.64	2.85	3.13	2.40	57.48
Bonaparte	0.55	0.55	1.84	4.15	2.69	9.94	8.06	8.12	3.51	4.01	3.18	1.47	48.07
Britt	0.55	0.47	0.46	0.95	6.36	3.87	6.83	7.24	3.41	1.18	2.29	1.93	35.54
Buckingham	1.09	1.06	1.60	1.45	3.78	13.56	7.66	10.13	4.13	1.82	2.17	1.40	49.85
Burlington	0.89	1.16	2.52	3.21	3.17	11.65	7.27	10.62	2.77	3.79	2.37	2.13	51.55
Bussey	1.00	1.52	0.66	1.49	5.45	5.89	7.26			4.49	1.88		
*Carroll	1.35	0.30	2.38	1.88	2.58	9.34	9.52	5.56	5.39	1.10	2.51	2.58	43.94
*Cedar Rapids	1.03	0.90	1.55	1.30	4.61	5.57	7.52	9.93	4.83	2.71	1.47	1.96	43.38
*Centerville	0.30	1.14	1.20	2.46	3.27	6.97	7.00	8.99	4.98				
Chariton	0.74	1.15	1.10	3.42	5.60	7.19	10.07	8.23	9.10	4.55	2.89	1.91	55.95
*Charles City	0.65	0.33	2.19	1.05	9.19	8.36	7.92	6.71	2.80	1.13	3.18	2.30	45.81
Chester				0.86	14.62	5.74	6.21	2.79	2.56	2.09	2.38	4.37	
*Clarinda	1.23	0.30	0.92	1.79	7.18	11.64	8.02	6.76	4.72	4.23	2.05	2.53	51.37
Clearlake	0.90	0.66	0.65	0.78	6.85	5.30	9.15	4.60	1.65	1.05	2.30	1.95	35.84
Clinton	0.63	1.18	2.19	1.45	6.04	9.90	7.79	4.08	3.79	3.15	2.51	2.09	44.80
College Springs	1.05		1.95	1.11	7.86	9.61	9.91	6.00	3.50	3.63	3.66	2.44	
Columbus Junction	0.46	0.92	2.06	2.82	4.81	7.77	10.90	15.47	4.00	4.77	3.16	2.16	58.80
Corning	1.50	0.50	1.08	1.56	5.87	5.70	8.72	7.83	5.01	3.43	2.04	3.10	46.34
Council Bluffs	1.05	0.06	0.56	1.29	3.33	9.84	10.23	3.30	2.21	2.24	1.67	1.91	37.69
Cresco	0.60	1.63		1.00	9.47	4.12	8.41	2.80	2.93	1.60			
Cumberland	1.10	0.21	4.33	0.51	2.26	6.06	8.99	5.36	5.46	3.23	1.37	1.80	40.68
Danville		1.28	2.47	3.85	4.15	12.74	7.73	8.86	2.90	4.05	1.98	1.10	
*Davenport	0.60	0.96	1.76	1.40	4.57	7.55	6.38	7.25	3.20	2.81	1.95	1.88	40.31
Decorah	1.20	1.35	1.77	1.27	11.63	5.35	8.43	1.78	3.86	1.51	2.07	3.09	43.22
Delaware	0.67	1.09	1.78	1.26	7.49	6.62	5.97	3.31	3.56	1.50	1.79	2.25	37.29
Denison	1.00	0.14	1.60	1.19	2.69	4.62	11.34	8.59	4.02	0.82	1.40	1.40	33.81
*Des Moines	0.91	0.52	1.15	1.55	4.69	7.27	5.95	7.82	5.03	3.70	1.65	1.77	42.01
Desoto	0.80	0.25	1.97	1.00	3.26	6.02	7.86	7.68	5.76	3.76	1.90	[c]2.79	43.05
Dows	0.75	0.54	2.12	1.38	4.38	5.82	12.19	11.10	2.66	0.95	2.22	1.70	45.81
*Dubuque	0.74	1.43	1.76	1.11	8.67	6.97	6.80	1.57	3.93	2.26	0.86	2.24	38.34
Earlham			1.33	1.07	3.75	5.55	8.46	8.54	5.80	3.71	2.14	2.59	
Eldon	0.65	0.72	1.24	2.94	1.97	6.72	5.63	7.18	5.25	4.38	2.10	1.45	40.23
Elkader	0.77	1.19	2.17	0.97	11.81	12.46	8.10	2.14	4.12	1.87	1.91	2.50	50.01
Emerson	0.34		0.52		5.52	6.90	8.47	5.05	2.90	0.50	2.05		
*Estherville	0.36	0.29	0.73	2.06	5.65	5.61	5.61	6.06	2.65			1.80	
Fairfield	0.55	0.74	1.43		2.45	9.34	11.40	9.54	4.13	4.71	2.11		
Fayette	0.82	1.48	2.27	1.13	15.59	8.81	9.07	4.92	3.86	1.47	2.13	2.76	54.31
Fertile										1.69			
Fonda	1.50	0.88	1.00	2.68	6.16								
*Forest City	0.72	0.40	0.29	0.92	7.10	5.85	6.58	5.61	3.95	1.32	2.34	2.80	37.79
Fort Dodge	0.90	0.40	2.15	2.10	2.89								
Fort Madison	1.10	1.52	2.67	3.48	4.37	9.05	7.91	7.19	2.29	3.51	2.69	3.20	48.88
Galva	0.50	0.20	0.22	1.29	2.53	7.01	10.39	4.91	3.68	1.06	2.78	1.90	36.47
Gilman	0.72	0.89	0.80	2.67	4.41	7.00	7.88	6.94	3.85	2.91	2.35	1.60	42.02
Glenwood	0.73	0.29	1.92	0.40									
Grand Meadow	0.85	1.97	2.73	1.36	18.04	6.55	10.70	1.98	4.61	1.33	2.15	2.44	54.71
Greene	0.58	0.89	1.94	0.83	7.28	4.67	8.79	8.24	4.00	1.39	2.32	2.30	42.33
Greenfield	0.91	0.38	1.34	1.23	6.76	6.27	10.87	5.77	6.30	2.91	1.46	1.98	46.38
Grinnell	0.49	1.23	1.52	2.82	4.92					3.60	2.16	2.26	
Grinnell (near)	0.80	1.13	1.18			9.39	11.57	7.45	4.57	4.55	2.05	2.50	
Grundy Center	1.16	0.79	2.08	1.70	7.11	16.04	8.74	9.81	4.67	1.65	2.28	2.05	58.08
Guthrie Center	1.25	0.16	1.86	0.88	3.30	6.99	9.27	7.91	5.49	2.27	1.91	2.27	43.56
Hampton	1.46	0.87	2.88	1.07	7.45	8.30	10.95	5.77	4.67	1.33	2.16	2.42	49.33
Hanlontown											2.14		
Harlan	1.67	0.15	2.01	0.96	8.31	7.87	12.63	3.32	5.63	2.25	1.45	2.69	48.94
Hopeville	0.53	0.61	0.98	1.59	4.70	5.67	7.89	8.37	8.60	4.62	1.90	1.69	47.15
Humboldt	0.45	1.29	0.86	1.58	3.51	8.00	8.81	7.36	3.15	1.14	2.28	1.57	40.00
Ida Grove										1.47	0.21	3.10	
Independence	0.93	1.10	1.51	1.14	10.46	9.03	9.51	4.42	3.27	1.65	1.40	1.72	46.14
Indianola	0.84	0.72	1.12	1.61	5.54			9.48		3.25	2.69		
Inwood					7.75	2.85							

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Iowa—Continued.													
*Iowa City	1.29	0.85	1.29	1.91	3.75	7.46	6.89	10.91	5.87	3.12	2.25	2.21	47.80
*Iowa Falls	1.60	0.84	2.15	1.10	5.86	10.01	11.28	7.66	3.46	1.60	1.90	2.11	49.57
Jefferson	0.95	0.37	1.21	0.83	4.68	9.21	10.65	8.27	5.32	3.62	2.34	2.32	49.77
*Keokuk	0.44	1.02	2.24	3.13	3.63	7.59	4.87	6.93	1.82	2.38	2.60	2.21	38.86
*Keosauqua	0.58	0.77	1.85	3.27	2.14	9.13	6.43	7.10	4.16	3.70	3.22	2.21	44.56
Knoxville	0.68	.....	0.94	.....	.....	.....	8.23	8.08	6.68	.....	.....	.....	.....
Lacona	1.15	1.25	1.75	2.50	7.20	6.25	8.50	8.70	5.86	4.66	2.55	3.60	53.97
Lansing	.....	.....	.....	1.08	11.36	3.52	6.87	3.18	3.00	1.76	1.75	2.12	.....
Larchwood	.....	0.50	1.14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Larrabee	0.95	0.60	0.63	0.55	3.26	4.79	7.19	6.95	3.45	0.80	1.48	2.17	32.82
*Leclaire	0.55	1.03	2.52	1.60	5.17	10.62	7.57	6.60	3.67	3.71	1.64	1.38	45.86
Lemars	0.98	0.20	0.65	2.68	1.46	4.68	7.08	3.65	4.67	0.44	0.35	3.15	29.99
Lenox	0.70	0.20	0.83	1.02	4.71	5.99	7.86	6.86	4.26	3.11	1.58	1.69	38.81
Leon	.....	.....	.....	1.85	3.76	7.72	10.11	8.24	9.08	3.77	2.37	2.03	.....
Logan	1.30	0.50	0.43	1.08	2.88	7.52	11.34	5.36	3.40	3.26	1.53	2.14	40.74
Maple Valley	0.75	0.30	0.80	1.48	3.68	6.73	12.87	6.94	3.71	1.19	3.16	1.97	42.48
*Maquoketa	0.73	1.31	2.23	1.69	5.73	8.67	8.80	3.57	6.39	2.37	2.17	2.35	46.01
*Marshalltown	1.11	0.72	1.37	2.05	7.65	12.31	7.69	7.87	5.70	1.81	2.66	.....	.....
Monticello	0.68	0.92	1.72	.....	5.81	9.78	7.80	3.31	4.82	1.39	.....	2.46	.....
Mountayr	1.45	0.67	0.69	2.27	5.13	8.18	7.44	9.09	7.29	3.30	2.00	2.57	50.08
Mount Pleasant	0.19	0.87	1.93	3.29	3.70	10.96	8.70	10.06	4.88	4.65	1.82	1.08	52.13
Mount Vernon	0.90	0.70	1.73	1.30	4.49	8.10	7.20	10.65	5.80	3.86	0.77	2.40	47.90
New Hampton	0.90	0.74	1.94	1.04	12.04	7.38	8.19	3.72	6.75	1.40	2.37	2.20	48.67
Newton	1.37	0.72	1.01	2.79	.....	8.87	7.91	7.06	4.96	6.66	2.56	2.13	.....
Northwood	0.80	0.77	0.55	1.26	9.46	6.96	8.48	5.88	2.55	3.11	2.42	2.68	44.92
Odebolt	0.91	0.30	0.99	1.13	2.30	6.25	13.57	3.72	3.41	1.06	1.78	2.50	37.90
*Ogden	1.08	0.15	1.87	1.23	6.61	7.86	8.87	7.01	3.26	2.69	2.02	1.63	44.27
Olin	0.80	0.94	1.89	1.30	5.59	6.63	8.47	5.34	6.35	2.88	1.72	2.87	44.78
Onawa	1.15	0.36	1.28	2.50	1.48	5.50	13.48	4.24	4.75	1.56	3.15	2.85	42.25
Osage	0.57	0.70	1.19	1.11	9.58	7.60	6.31	4.18	2.10	1.46	2.10	2.41	39.31
*Osceola	.....	.....	.....	1.59	6.69	6.42	10.35	7.26	7.89	3.82	3.54	2.34	.....
Oskaloosa	0.28	0.88	0.97	3.31	3.72	7.24	8.79	7.57	5.12	3.60	1.87	1.58	44.88
Ottumwa	0.60	1.50	1.22	3.08	3.90	8.42	7.32	6.42	10.41	4.80	2.25	0.67	50.59
Ovid	0.81	1.16	1.12	2.55	4.83	6.04	11.57	8.64	7.57	4.60	2.44	2.39	53.72
Pacific Junction	0.93	0.08	2.13	0.92	3.65	6.64	9.88	5.15	2.17	2.78	1.48	2.55	38.36
Pella	0.55	0.84	.....	2.14	.....	.....	.....	.....	.....	.....	.....	.....	.....
Perry	0.96	0.36	3.47	0.86	6.25	8.72	9.60	9.38	3.60	3.94	2.51	2.54	52.18
Plover	0.60	0.60	0.52	1.43	4.79	7.24	9.94	9.48	4.19	1.48	2.45	1.10	43.82
Primghar	0.45	0.30	.....	1.10	2.20	2.10	5.46	4.45	.....	0.80	.....	.....	.....
Redoak	1.22	0.29	1.76	1.01	4.66	8.90	11.19	5.71	4.28	2.71	3.31	2.52	47.56
Ridgeway	2.83	2.28	1.85	1.16	9.59	5.94	9.34	2.66	3.33	1.57	2.48	5.51	48.54
Rockford	.....	0.08	0.85	0.75	5.25	5.17	6.97	6.12	2.23	0.70	1.85	1.58	.....
Rockwell City	1.35	0.20	1.60	1.65	4.90	6.12	9.85	7.82	3.91	1.45	1.66	3.00	43.51
Ruthven	0.65	0.46	0.60	1.43	6.31	3.30	8.80	9.23	2.70	.....	.....	.....	.....
Sac City	1.45	0.18	1.18	1.28	3.63	5.63	12.61	8.03	3.09	1.16	1.97	2.16	42.37
St. Charles	1.04	0.61	1.08	1.53	5.19	6.71	12.77	7.58	5.96	5.77	2.59	2.75	53.58
Scranton	1.20	1.10	1.41	1.11	3.09	6.77	11.30	5.70	.....	1.79	1.40	2.50	.....
Sheldon	0.71	0.65	0.56	0.76	4.81	1.46	5.90	6.14	3.31	0.70	0.47	1.12	26.59
*Sibley	0.80	0.40	0.50	1.54	2.56	1.89	5.58	9.25	3.98	0.68	0.53	1.85	29.06
Sigourney	0.56	0.90	0.96	3.84	4.21	8.61	11.03	7.53	3.77	4.59	2.44	2.25	50.69
Sioux Center	0.40	0.65	1.19	3.37	3.77	1.63	5.64	5.05	4.15	0.28	0.35	2.60	29.08
*Sioux City	0.83	0.30	0.50	1.29	1.27	2.22	5.03	2.19	4.49	0.63	0.16	1.43	20.34
Spirit Lake	0.60	0.20	.....	.....	4.95	2.98	5.41	6.08	.....	0.48	.....	1.46	.....
Stockport	0.43	0.53	1.61	3.33	2.88	9.11	9.34	8.21	4.54	4.35	4.19	2.23	50.75
*Storm Lake	0.89	0.32	0.86	1.86	4.22	5.37	10.49	5.52	3.11	1.13	2.94	1.92	38.63
Stuart	.....	.....	.....	1.40	6.12	6.13	10.34	8.17	.....	.....	.....	.....	.....
Thurman	0.75	0.02	1.16	0.88	4.61	9.66	8.80	8.72	4.46	4.47	2.71	4.31	50.49
Tipton	1.10	0.55	3.25	2.45	5.85	8.35	8.90	9.40	5.50	5.90	2.72	1.70	55.67
Toledo	.....	.....	.....	1.91	.....	.....	.....	9.35	4.50	2.16	2.57	1.40	.....
Villisca	1.55	0.60	0.92	1.98	5.11	7.37	10.52	.....	4.78	3.08	2.20	2.80	.....
Vinton	0.75	1.13	1.59	0.91	6.64	8.26	8.75	8.03	8.39	2.03	1.76	1.35	44.59
Wapello	0.31	0.90	2.39	3.61	3.27	7.87	8.11	9.55	4.65	4.99	2.44	1.99	49.48
Washington	0.49	1.01	1.67	2.66	2.58	7.68	7.80	12.94	3.13	5.29	2.35	2.47	49.37
Washta	1.10	0.45	0.65	2.00	0.87	3.54	10.02	3.91	3.86	0.71	1.82	3.10	32.03
*Waterloo	0.93	1.47	2.29	1.28	8.54	6.81	10.61	7.70	4.86	1.50	1.83	1.94	49.76
Waukee	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.86	2.96	.....
Waverly	0.92	1.39	2.05	1.04	9.50	5.77	7.07	4.57	4.27	1.89	2.36	2.10	42.43
Westbend	0.70	0.67	0.41	.....	2.97	4.39	8.36	7.12	2.99	1.19	1.87	2.34	.....
Westbranch	.....	0.82	2.68	1.65	3.97	6.88	7.68	7.71	5.20	3.82	1.92	1.63	.....
West Union	1.20	.....	2.28	1.41	11.83	6.36	8.42	2.02	4.89	1.48	1.94	.....	.....
Whitten	0.95	0.10	1.71	1.93	6.69	11.52	8.45	6.98	3.49	0.88	1.68	.....	.....
Wilton Junction	0.81	0.96	2.67	2.14	4.85	8.33	8.46	7.60	3.98	4.84	3.24	2.03	49.41
Winterset	1.20	0.47	1.05	1.15	5.19	6.90	11.08	8.36	5.88	4.57	2.26	2.09	50.14
Woodburn	0.98	1.15	0.92	1.96	4.68	6.60	9.83	6.80	7.10	4.66	2.45	2.40	49.53
Kansas.													
Abilene	0.90	.....	0.85	0.95	5.45	10.94	7.05	.....	.....	.....	.....	0.40	.....
Achilles	0.42	0.38	0.82	0.81	6.00	2.70	3.35	4.16	2.54	1.67	0.06	0.86	23.67
Altoona	0.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Alton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.63	.....
Anthony	0.40	0.65	2.54	1.53	10.39	2.97	3.15	3.56	2.37	1.27	1.07	0.72	30.42
Atchison	0.87	0.39	0.68	1.07	6.76	5.05	7.91	7.06	3.67	3.36	1.96	1.60	40.38
*Baker	.....	.....	.....	0.95	5.44	7.44	8.18	5.37	4.59	.....	.....	.....	.....
Beloit	0.80	0.34	0.52	0.52	5.10	7.52	3.04	3.78	3.75	3.10	.....	.....	.....
Burlington	0.99	2.60	2.67	4.00	6.44	9.07	4.30	10.44	3.94	2.25	2.74	1.63	51.07
Chanute	0.45	1.22	2.60	.....	.....	.....	.....	.....	.....	.....	.....	1.71	.....
Clay Center	.....	.....	.....	.....	6.65	11.66	5.35	10.19	2.96	3.33	1.76	1.09	.....
Colby	0.31	0.36	0.81	0.67	3.46	1.92	3.26	6.29	2.50	1.69	0.03	0.82	22.12
Columbus	1.03	2.15	5.11	3.55	8.88	12.45	2.41	5.76	6.56	1.75	4.15	2.57	56.87
*Concordia	0.77	0.19	0.90	0.44	8.31	7.34	4.37	5.22	3.14	3.25	1.14	0.75	35.22
Coolidge	0.10	0.40	.....	1.15	3.67	1.88	1.80	2.71	0.41	.....	.....	.....	.....

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Kansas—Continued.													
Cottonwood												1.17	
Cunningham								3.73	1.55	1.58	1.14		
Delphos	1.03	0.43	0.66	0.52	5.77	10.40	2.59	7.57	3.77	3.40	0.99	0.88	38.01
*Dodge	0.34	0.16	1.58	0.76	3.35	2.49	3.73	1.62	0.60	2.26	0.53	0.28	17.70
*Dresden	1.01	0.59	1.18	0.80	4.80	4.67	3.46	2.25	2.26	1.79	T.	0.83	23.64
Ellinwood	2.31	0.70	1.30	0.42	5.19	6.00	3.37	6.33	2.87	1.60	0.91	1.09	32.09
Emporia	1.00	1.20	2.90	2.72	10.06	9.17			2.93	2.23	1.53		
Englewood	0.50	0.40	1.57	1.13	10.00	5.45	3.85	1.87	0.40	2.68	1.07	0.60	29.52
Eureka	0.55	1.12	3.68	1.57	9.69		3.87	8.76	4.75	1.93	1.83	1.51	
Eureka Ranch	0.63	0.59	0.73	0.37	4.17	6.53	2.27	4.39	7.20	2.31	0.04	0.98	30.21
Fallriver	0.65	1.35	2.70	1.99	9.18	10.20	1.80	7.38	5.00	1.91	3.78	0.81	46.75
Farnsworth	0.20	0.40	0.80	0.25	3.00	5.33	2.21	2.89	4.88	2.28	T.	0.63	22.87
Fort Leavenworth		0.10	1.21	0.65	6.05	3.49	6.88	5.93	4.50	2.69	1.57	1.05	
*Fort Scott	1.19	2.83	3.95	1.58	7.65	4.95	3.56	10.98	4.51	0.95	4.06	1.56	47.77
Forsha					3.45	2.50		5.61	1.69	1.76	1.35	0.65	
Frankfort	1.15	0.16	1.89	1.65	5.46	6.37	9.75	7.64	3.85	3.72	2.58	1.73	45.95
Fredonia			3.09	1.94	11.40	11.33	2.93	9.29	4.43	1.09	2.46	2.32	
Garden City	0.25	0.87	2.46	0.70	6.26	2.43	0.98	0.88	1.00	2.62	0.20	1.00	19.65
Gove	0.40	0.12	0.67	1.02	3.06	2.85	5.06	3.42	6.07	2.25	T.	1.70	26.62
Grenola	0.53	0.65	2.84	1.58	10.57	8.21	2.42	8.72	5.41	1.72	3.19	1.37	42.21
Hanover	0.90	0.39	0.81	1.25	4.86	6.79	6.35	9.23	3.45	4.00	1.95	0.85	40.83
Harrison	0.83	0.67	0.65	0.19	6.17	6.23	9.68	2.76	6.23	2.52	0.31	0.66	36.90
*Hays	1.00	0.55	3.80	0.26	4.28	6.44	3.84	5.64	4.98	2.56	T.	1.35	34.65
Holton									6.33	3.05	2.71	1.53	
Horton	1.42	0.31	1.14	0.90	6.43	7.02	7.77	5.80	5.33	3.34	2.83	1.83	44.12
Hoxie	1.20	1.10	0.80	0.87	4.27	3.28	3.05	6.15	3.98		T.	1.05	
Hutchinson	1.11	1.42	2.02	0.63	8.98	4.90	1.14	8.25	1.75	2.22	1.48	0.83	34.73
Independence	0.61	0.64	2.95	2.55	9.63	8.58	2.97	6.22	6.26	0.82	6.26	2.09	49.58
Jetmore	0.47	0.15	1.90	0.76	3.97	3.45	6.36	2.24	0.93	2.10	0.45		
La Crosse											0.25	0.65	
Lakin	0.16	0.33	1.63	1.16	4.72	0.48	0.71	0.34	0.33	1.93	0.15	0.40	12.37
Lawrence	1.65	0.61	2.80	1.53	4.52	5.63	9.05	6.62	4.16	3.28	2.09	1.83	43.74
Lebanon	0.80	0.50	1.00	T.	3.50	5.20	9.80	3.80	6.70	2.10	0.00	0.90	33.80
Lebo	0.89	1.26	2.47	3.03	10.29	10.01	4.90	12.60	6.79	2.71	2.42	1.60	57.97
Leotl	0.15	0.02	0.92	1.02	3.27	3.18	3.63	1.57	1.32	1.70	0.80	0.42	17.60
Little River	1.52	0.19	1.23	0.38	6.29	7.14	5.62	6.64	2.03	1.97	0.96	0.65	34.62
*Macksville	1.42	0.12	1.58	0.57	6.26	6.72	3.18	2.64	1.83	1.76	1.13	0.69	27.90
*McPherson	1.99	0.50	1.91	1.13	7.01	7.30	2.89	6.92	3.82	3.24	1.30	0.90	38.91
Madison	0.71	1.20	3.22	2.90	8.75	10.22	4.46	8.94	4.16	2.35	1.84	1.60	50.35
*Manhattan	1.09	0.48	1.37	0.80	7.30	7.96	5.81	10.29	3.45	2.19	2.41	1.18	44.33
Marion	1.80	0.60	1.45	0.75	10.15	6.20	2.15	7.50	2.95	2.25	2.25		
Meade				0.60	7.17	5.67	2.06	2.82	0.75	2.93		0.50	
Medicine Lodge	0.65	0.23	2.04	1.21	9.68	3.90	2.19	2.22	3.47	1.28	0.79	0.72	28.38
Minneapolis	0.63	0.22	1.02	0.81	4.52	10.31	2.37	7.99	3.22	2.31	1.86	0.75	35.51
Moran	0.80	3.50	2.35	2.86	7.45	5.50	4.57	14.36	3.16	1.06	1.86	1.89	49.26
Mounthope	1.17	0.82	1.63	0.77	7.24	4.98	2.73	6.73	2.05	1.72	1.21	0.92	31.97
Ness City	0.88	0.42	1.62	0.50	2.37	4.62	7.09	3.01	3.47	2.02	0.04	0.61	26.65
Newton	1.05	0.95	2.16	0.68			1.69	4.80	3.70	2.13	1.74	1.20	
Norwich	0.49	0.42	2.42	0.66	8.87	3.52	2.78	3.95	1.57	1.23	1.15	0.71	27.77
Oberlin	0.85	0.65	1.60	1.35	4.89	3.43	5.43	2.25	1.60	2.36	0.00	1.35	25.76
Olathe	1.50	1.30	2.54	1.28	4.48	4.41	9.11	8.24	4.37	2.42	2.35	1.10	43.10
*Osage City	1.15	0.79	2.25	1.63	7.68	7.95	6.35						
Oswego	0.45	1.12	5.06	2.71	8.32	9.54	3.69	6.82	5.41	1.35	3.97	2.21	50.65
Ottawa	1.18	1.77	2.74	1.73	4.67	5.86	4.27	6.93	5.77	2.47	2.15	1.59	41.13
Paola				2.55	10.04	6.09	5.07	7.76	6.08	2.37		1.45	
Phillipsburg	0.73	0.47	0.95	1.03	3.39	5.66	2.55	2.51	7.02	2.54	0.00	1.36	27.91
Pittsburg												2.17	
Pratt	0.95	0.15	1.51	1.02	9.14	4.25	3.92	5.81	1.84	1.95	0.75	0.55	31.86
Republic									4.92	3.10	1.37	0.60	
Rome	0.53	0.84	2.14	2.99	10.88	5.29	2.74	4.30	4.11	1.91	2.36	1.12	39.21
Russell												0.85	
Salina	1.38	0.46	1.05	1.02	5.19	7.33	3.53	5.81	2.90	2.69	2.28	0.84	34.48
Scott	0.20	0.30		0.65									
*Sedan	0.31	0.78	4.69	2.10	9.65	9.46	3.37	6.01	5.57	0.97	2.96	2.22	48.09
Seneca	1.25	0.40	1.36	0.67	4.08	5.35	7.62	8.34	2.36	3.25	2.01	1.70	39.39
*Topeka	1.56	0.51	1.62	0.76	4.43	4.64	3.87	6.01	3.56	2.26	2.13	1.26	32.61
*Toronto	0.85	1.82	3.22	1.65	10.42	7.90	4.05	9.27	5.01	1.70	3.52	2.35	51.76
Ulysses	0.15	0.50	2.10	0.58	3.46	2.83	0.45	1.20	0.40	1.58	T.	0.70	13.95
Valley Falls	1.39	0.28	0.52	0.66	9.22	4.44	5.13	6.89	2.94	2.18	1.93	1.19	36.77
Viroqua	0.50	0.20	2.02	0.60	4.28	2.18	3.87	0.37	0.25	2.17	0.44	0.10	16.98
Wakeeney (near)	0.60	0.37	1.19	0.64	5.66	4.55	4.01	5.03	8.57	2.71	0.02	0.83	29.66
Wallace	0.32	0.58	0.49	0.63	4.80	3.19	3.00	4.07	1.80	1.55	0.28	0.50	21.16
Walnut												2.48	
Wamego	1.32	0.66	1.12	0.75	6.78	7.11	6.08	11.53	4.88	2.95	2.42	1.55	47.15
*Wichita	0.32	0.75	2.79	0.87	10.33	7.11	4.12	5.28	2.69	2.02	1.76	0.69	38.73
Winfield	0.75	1.67	3.34	1.78	9.87	5.01	3.09	4.75	4.95	1.45	3.08	1.28	41.02
Yates Center	0.54	2.43	2.98	2.11	10.28	7.61	4.55	10.83	5.11	1.67	2.84	2.07	53.02
Kentucky.													
Alpha	6.28	2.34	9.68	3.37	2.42	6.64	1.01	4.90	5.20	3.03	6.77	7.56	59.20
Anchorage	4.44		2.13	1.67	5.90	4.65	1.97	3.17	3.62	1.70	4.35	5.44	
*Bardstown	5.47	2.00		2.28	3.35	5.71	1.95	4.25	3.75	2.17	4.31		
*Beattyville										2.72	3.50	6.69	
Berea	6.58	1.19	5.05	1.98	2.77	6.81	2.49	2.69	3.98	2.53	4.33	7.26	47.61
Blandville	4.80	2.00	3.54	3.98	2.20	4.80	0.57	5.70	4.61	1.33	4.90	9.78	48.27
*Bowling Green	8.25	1.39	6.18	2.68	3.82	3.22	0.72	2.58	4.35	2.78	4.49	9.24	49.66
*Burnside	5.68	1.33	6.95	2.18	1.60	3.67	0.71	1.70	3.86	3.58	5.16	7.72	43.44
*Cadiz						4.26	2.19	2.24	2.51	2.84	4.75	9.60	
Carrollton	3.76	0.46	1.26	2.24	3.62		2.79	1.04	3.50	2.26	3.38	5.52	
*Catlettsburg	4.33	2.16	3.03	2.92	4.58	5.36	4.85	1.21	2.31	2.78	3.15	6.95	43.63
Centertown	6.40	0.59	3.37	3.68	2.17	3.35	0.91	1.71	5.32				

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Kentucky—Continued.													
*Earlington	6.62	1.09	3.68	2.62	3.23	3.95	0.93	1.40	3.62	3.74	5.04	9.40	45.32
Edmonton	7.37	1.40	7.03	2.86	2.77	2.77	3.31	1.78	4.96	2.57	4.29	9.82	50.93
*Eubank	6.68	1.49	7.10	1.89	2.33	4.05	1.78	4.54	3.22	2.56	3.98	7.52	47.14
*Falmouth	3.57	0.64	2.48	4.17	5.50	4.89	2.30	2.12	3.21	2.09	3.51	6.25	40.76
Fords Ferry	3.46	.....	3.22	3.15	4.15	4.18	1.08	2.07	4.50	T.	5.93	8.51	.....
*Frankfort	4.52	0.81	3.86	1.72	6.63	5.50	1.68	1.16	4.74	2.29	3.80	6.90	43.01
Franklin	4.36	0.98	5.10	3.20	1.65	1.40	0.50	0.90	4.35	1.50	3.45	7.75	35.14
*Greensburg	7.54	0.60	4.80	2.02	2.42	3.46	4.27	2.18	4.88	3.07	5.05	8.82	49.11
*Henderson	3.63	0.67	3.30	2.42	1.37	3.23	1.32	1.96	3.65	2.54	5.48	6.46	36.03
*High Bridge	.....	.....	.....	.....	3.38	7.77	1.86	4.52	2.52	2.56	3.39	8.50	.....
*Hopkinsville	6.75	1.74	5.93	3.76	4.81	5.18	0.26	2.29	3.51	2.54	5.14	11.38	53.29
Irvington	3.78	0.54	2.80	1.96	2.75	5.23	0.92	3.95	5.10	1.03	3.68	5.92	37.66
Jackson	.....	.....	.....	.....	.....	.....	1.59	1.11	3.32	2.36	5.92	6.17	.....
Leitchfield	6.61	0.89	3.91	3.31	2.94	5.51	0.89	2.15	8.25	1.04	4.45	11.97	51.92
*Lexington	4.77	0.90	2.92	1.27	2.43	5.19	2.33	1.89	2.60	2.11	3.09	6.60	36.10
Loretto	4.54	1.48	3.40	.....	3.79	7.26	1.38	3.67	3.69	3.26	4.29	7.41	.....
*Louisville	4.67	0.62	2.10	2.05	6.41	6.51	1.87	2.74	4.03	1.15	3.85	5.65	41.65
Manchester	4.55	1.64	7.55	1.99	2.48	7.54	3.89	2.39	4.38	2.45	5.50	7.10	51.46
Marrowbone	5.42	0.73	7.29	3.04	2.46	4.05	1.35	3.89	5.27	2.38	3.80	7.82	47.50
Mayfield	.....	.....	.....	2.94	2.74	2.36	0.57	[b]3.00	2.64	3.28	4.47	8.12	.....
*Maysville	4.65	0.70	3.20	2.68	4.05	5.48	2.59	1.56	4.78	2.84	3.23	6.51	41.77
Middlesboro	.....	.....	.....	.....	.....	.....	.....	2.15	1.83	2.53	4.10	5.10	.....
*Mount Sterling	5.57	1.38	4.16	2.13	3.87	4.79	2.98	2.21	2.93	2.08	4.14	8.97	45.21
*Owensboro	4.80	0.88	3.47	2.68	2.73	2.31	1.18	1.18	5.59	3.06	5.48	5.91	39.27
Owenton	3.87	3.00	3.26	2.82	5.17	6.35	4.07	1.69	3.30	1.90	5.43	7.42	48.28
*Paducah[1]	4.16	1.63	3.65	2.62	2.63	2.69	1.94	4.02	6.18	2.91	5.90	9.20	47.53
*Paducah[2]	4.45	1.80	4.04	2.64	2.35	2.74	3.56	3.28	6.48	2.67	6.68	9.53	50.22
Pikeville	6.36	3.60	6.00	2.02	2.59	7.32	1.73	1.40	2.84	1.98	4.13	4.07	44.04
Princeton	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.63	4.13	9.08	.....
*Richmond	.....	.....	4.00	1.26	3.24	6.28	3.92	2.15	1.58	2.70	3.55	7.67	.....
*St. John	5.65	0.85	3.67	2.14	3.73	5.16	1.17	4.04	8.26	1.36	4.67	7.19	47.89
Scott	2.95	0.63	1.65	3.68	5.58	4.33	2.58	0.86	4.67	1.78	3.52	5.14	37.37
Shelby City	7.65	0.67	5.51	2.37	3.44	4.66	3.39	3.44	5.03	2.41	4.33	9.60	50.50
*Shelbyville	3.43	0.76	3.71	1.67	5.14	3.82	2.45	2.45	3.40	2.32	3.35	5.84	38.35
Taylorsville	.....	.....	.....	.....	5.62	7.63	2.31	3.67	4.97	1.40	4.38	6.55	.....
Warfield	8.10	3.37	6.71	1.86	2.53	5.38	.....	.....	2.87	3.03	5.18	4.20	.....
*Williamsburg	4.12	.....	6.94	3.67	3.17	5.05	1.61	2.91	3.65	2.32	5.86	4.02	.....
*Williamstown	.....	.....	.....	.....	.....	5.64	1.31	1.35	2.65	2.56	3.81	5.67	.....
Louisiana.													
Abbeville	0.95	1.75	2.18	3.51	6.07	1.88	5.65	6.44	3.36	3.23	3.92	5.45	44.39
*Alexandria	1.68	4.06	2.66	2.41	9.09	0.53	2.12	2.02	4.51	6.12	5.67	4.37	45.24
*Amite	2.45	5.17	4.06	3.73	1.45	2.46	2.83	1.45	5.38	2.78	2.58	7.10	41.44
*Baton Rouge	2.40	3.95	4.36	3.13	2.60	1.71	2.31	3.79	6.51	2.81	4.90	6.76	45.23
Burnside	2.88	.....	4.82	6.49	3.62	1.18	4.97	3.46	6.93	3.64	5.21	6.24	.....
Calhoun	2.26	2.48	8.64	3.90	3.21	0.99	7.07	4.46	5.73	3.58	5.63	4.17	52.12
Cameron	0.48	2.78	1.49	4.51	4.12	1.14	3.40	2.45	8.48	1.94	3.47	4.14	38.40
*Cheneyville	2.14	4.10	3.25	2.08	5.40	0.20	2.75	1.60	7.73	2.30	4.15	5.04	40.74
Clinton	2.64	4.20	4.76	2.44	2.89	0.77	6.97	7.63	7.59	2.01	3.95	6.44	52.29
Collinston	2.85	3.05	11.45	2.99	3.81	2.29	5.49	2.22	6.94	4.00	4.80	5.39	55.28
*Covington	2.27	4.89	4.72	3.44	1.72	1.10	5.95	4.39	3.42	2.03	4.08	6.75	44.67
*Donaldsonville	3.27	3.80	4.70	4.90	3.75	1.10	6.35	2.75	5.20	4.62	4.96	4.20	49.60
Emilie	2.70	3.19	2.88	5.10	2.07	2.19	3.15	4.73	3.38	1.44	5.01	6.18	42.02
Farmerville	.....	.....	14.34	4.42	4.89	0.86	5.77	0.20	.....	1.75	.....	3.94	.....
*Franklin	1.57	2.17	4.78	5.65	5.98	1.52	4.55	7.36	6.43	2.16	4.06	5.59	51.82
Grand Coteau	1.61	3.47	2.60	2.52	1.80	1.16	2.15	4.97	6.76	2.69	4.20	5.68	39.61
Hammond	2.35	4.21	4.05	3.23	3.25	1.41	3.19	6.44	4.17	4.96	4.06	5.69	47.01
Houma	.....	2.70	4.65	3.62	4.38	1.53	4.69	5.74	5.12	1.72	3.81	7.28	.....
Jeanerette	1.57	2.37	3.14	1.66	.....	.....	.....	.....	.....	.....	2.50	2.37	.....
*Jennings	3.17	1.32	2.39	2.95	3.66	1.22	4.59	3.38	10.94	5.12	6.68	4.42	49.79
*Lafayette	1.35	4.06	2.57	3.41	1.98	2.12	2.90	2.04	4.33	3.09	4.38	5.02	37.25
*Lake Charles	0.47	2.87	2.37	2.98	6.08	0.28	5.06	1.17	5.48	4.82	6.22	3.39	41.19
Lake Providence	2.99	2.91	12.11	3.42	2.56	3.82	3.97	1.84	6.35	1.00	5.59	4.52	51.08
Lakeside	0.47	2.99	1.35	2.59	5.71	1.51	2.48	4.73	3.46	1.75	8.70	3.20	38.94
Lawrence	0.25	5.85	4.15	4.79	3.27	0.33	3.13	3.79	6.38	3.41	.....	8.13	.....
Libertyhill	1.95	2.67	7.39	4.99	3.55	0.99	6.27	0.85	7.65	3.44	5.71	3.45	48.91
*Mansfield	1.50	3.67	6.22	3.26	2.55	3.60	8.53	0.02	9.41	4.32	6.10	4.39	53.57
*Melville	2.60	3.30	4.40	3.50	[b]3.15	0.85	1.76	4.30	5.00	2.20	4.53	8.00	43.59
*Minden	.....	3.91	5.51	3.83	4.89	[b]2.53	6.27	0.51	5.14	3.36	5.76	4.15	.....
*Monroe	2.15	2.96	8.83	3.92	1.38	0.27	3.89	1.23	7.95	2.35	5.63	3.44	44.00
New Iberia	0.80	2.90	3.70	4.30	5.00	1.75	[d]7.15	7.10	4.50	3.10	4.10	5.60	50.00
*New Orleans	0.97	3.83	4.07	3.71	1.56	1.46	4.24	2.93	6.68	2.42	3.65	6.09	41.61
*Opelousas	0.83	3.00	4.04	2.30	2.75	0.37	3.77	2.00	6.56	4.37	4.27	5.51	39.77
Oxford	1.63	3.57	5.96	2.89	2.03	3.84	6.58	1.00	8.46	3.97	6.87	2.10	48.90
Paincourtville	3.98	3.17	5.30	4.30	5.45	3.58	3.12	6.62	10.70	2.26	.....	.....	.....
Plain Dealing	4.41	2.60	5.74	4.98	7.05	12.52	15.42	0.59	9.18	3.82	7.30	5.30	78.91
*Port Eads	1.29	[b]7.24	3.87	5.40	1.09	.....	1.38	6.34	8.79	9.11	5.42	6.07	.....
Prevost	0.49	.....	.....	.....	.....	0.00	0.70	.....	.....	.....	.....	.....	.....
*Rayne	0.66	4.27	2.73	1.20	3.61	1.37	3.03	2.81	7.65	1.08	4.73	6.80	39.94
Reserve	.....	5.13	3.35	4.18	2.84	2.13	6.20	4.19	4.32	1.47	4.50	6.07	.....
*Robeline	2.20	3.40	[c]3.00	2.20	2.55	1.00	5.21	2.72	4.80	2.00	5.90	2.70	37.68
Ruddock	2.85	4.12	1.50	3.90	1.46	1.60	2.20	.....	.....	.....	.....	.....	.....
Ruston	1.95	2.68	9.73	3.26	5.46	0.70	5.74	0.75	5.80	3.10	6.04	4.15	49.36
*Schriever	0.66	3.59	4.12	3.72	4.80	2.28	3.02	9.69	5.70	2.81	3.38	6.77	50.54
*Shreveport	1.34	2.27	7.88	2.93	3.10	8.34	8.02	0.02	4.33	3.40	5.48	2.77	49.88
Southern University	0.13	5.46	2.42	3.23	.....	1.13	.....	.....	.....	.....	.....	.....	.....
Sugar Experiment Station	1.44	2.92	4.16	3.60	1.49	1.30	1.77	3.31	6.18	2.70	3.41	6.83	39.11
Sugartown	1.77	4.26	2.95	2.36	2.77	0.00	7.27	4.69	7.93	2.97	5.93	4.22	48.12
Venice	0.88	8.24	5.66	4.68	2.74	0.00	3.16	6.10	4.89	7.69	4.40	6.84	55.28
Wallace	1.33	3.21	3.15	4.38	2.81	4.18	3.82	4.12	4.45	0.99	4.81	4.59	41.84
White Sulphur Springs	2.38	.....	4.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] River observer.

[2] Corn and wheat region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Maine.													
Bar Harbor	4.05	3.83	14.37	3.07	2.52	7.60	1.75	3.24	2.50	5.11	1.79	7.12	56.95
Belfast	3.37	2.59	12.70	3.00	1.85	6.38	1.52	4.62	1.84	5.05	1.34	4.90	49.16
Bemis	.....	1.58	4.82	†0.41	4.15	4.63	1.02	3.71	2.62	.....	.....	.....	.....
Calais	4.24	3.33	10.06	3.05	4.37	4.60	1.37	4.20	.....	.....	.....	.....	.....
Carmel	.....	2.42	10.97	2.51	2.94	5.57	4.02	3.08	2.06	3.71	2.02	2.45	.....
Cornish	4.18	2.61	8.10	6.56	3.05	4.92	3.24	8.36	6.68	6.80	1.70	7.06	63.26
Danforth	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.71	.....
*Eastport	3.41	3.06	9.11	2.16	3.85	2.51	1.05	3.23	3.43	3.36	1.47	5.77	41.41
Fairfield	2.25	1.54	7.76	2.41	2.54	4.04	2.22	4.06	1.86	4.01	1.03	4.68	38.40
Farmington	3.06	2.32	8.43	3.67	5.16	5.28	1.93	3.84	3.60	4.68	1.19	4.31	46.97
Fort Fairfield	.....	.....	2.62	0.57	2.10	4.38	2.99	2.55	†3.10	.....	0.95	.....	.....
Gardiner	2.67	1.70	10.33	3.71	2.01	4.52	2.07	4.46	3.22	4.90	1.21	5.35	46.15
Houlton	.....	.....	.....	1.25	2.87	8.06	3.28	4.09	4.10	4.73	1.88	4.62	.....
Kineo	2.15	3.60	4.73	2.65	4.67	6.15	4.03	3.01	5.46	.....	0.81	2.01	.....
Lewiston	3.04	3.01	8.96	4.37	2.67	5.21	2.02	3.52	3.70	5.07	1.45	5.26	48.28
*Mattawamkeag	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.47	4.88	.....
Mayfield	3.21	3.60	9.50	4.16	3.40	7.39	2.95	6.36	4.33	5.83	1.65	4.12	56.50
Millinocket	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.88	5.23	.....
North Bridgton	4.36	2.55	8.21	4.67	3.98	5.50	2.66	4.21	4.11	5.72	1.78	6.27	54.02
Orono	3.65	1.80	8.89	2.94	2.77	6.03	1.81	4.96	1.94	5.04	1.76	4.77	46.36
Patten	.....	.....	.....	1.00	3.52	6.20	3.00	3.80	4.30	4.80	.....	2.20	.....
*Portland	2.73	3.34	8.76	3.97	2.17	3.78	2.21	4.36	4.08	4.95	0.86	6.54	47.75
Roach River	.....	.....	.....	.....	3.56	9.29	4.30	5.32	.....	3.21	.....	.....	.....
Rumford Falls	1.76	2.19	3.12	3.31	5.32	4.45	2.31	3.86	3.88	4.14	1.47	4.60	40.41
*Solon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.42	3.51	.....
The Forks	.....	.....	.....	3.20	4.62	.....	2.92	3.43	5.39	3.40	2.30	3.10	.....
Van Buren	.....	.....	.....	2.17	4.42	6.54	3.48	2.69	5.64	5.51	2.24	2.75	.....
Vanceboro	.....	.....	.....	.....	.....	4.15	2.26	2.54	2.60	5.97	0.90	2.70	.....
*Winslow	2.31	1.49	8.90	2.51	2.24	4.61	2.62	.....	2.29	5.54	1.17	4.25	.....
Maryland.													
Annapolis	3.55	5.75	3.95	3.60	2.42	7.00	2.10	1.45	6.70	6.90	5.40	7.80	56.62
Bachmans Valley	4.60	6.14	4.56	2.86	1.46	5.13	5.34	1.89	6.87	10.72	3.57	8.24	61.38
*Baltimore	3.05	4.68	3.41	2.90	1.62	4.30	2.45	4.31	7.19	6.85	3.71	5.66	50.13
Boettcherville	3.05	3.45	4.80	4.89	1.90	3.00	1.80	2.91	1.86	3.46	1.96	4.97	38.05
Boonesboro	3.06	4.89	3.91	2.48	1.97	3.30	3.13	1.65	.....	.....	.....	.....	.....
Cambridge	3.30	5.64	3.82	4.18	2.93	7.04	5.99	2.02	4.49	6.14	2.70	5.36	53.61
Charlotte Hall	3.45	.....	.....	.....	3.69	.....	.....	1.29	.....	4.32	.....	.....	.....
Chase	3.44	4.35	3.96	3.76	1.17	4.35	2.51	2.82	7.03	7.42	3.66	7.62	52.09
Cheltenham	4.49	4.92	2.98	2.80	2.06	5.06	5.06	0.97	4.85	7.03	3.28	5.19	48.68
Chestertown	3.88	5.76	3.50	3.91	2.21	5.48	4.07	1.48	6.83	6.32	3.88	6.83	54.15
Chewsville	3.30	4.44	3.98	2.54	1.26	4.28	3.09	0.91	1.64	3.73	2.48	3.98	35.63
Clearspring	3.11	2.97	5.92	3.11	1.88	1.89	3.10	2.11	2.56	3.59	2.16	7.03	39.43
Coleman	2.40	4.22	4.08	3.01	1.55	.....	.....	.....	.....	.....	3.89	7.42	.....
Collegepark	3.72	4.46	3.64	2.25	2.70	4.10	6.21	3.48	7.39	5.78	3.95	5.21	52.78
Colora	4.21	6.25	3.99	5.15	1.29	4.80	4.96	1.77	12.93	6.32	2.72	6.81	61.20
*Cumberland	3.18	2.55	4.69	4.42	1.32	3.12	3.23	1.59	1.38	3.49	1.84	5.09	35.90
Darlington	3.39	5.44	3.77	4.37	1.89	4.17	7.29	1.42	9.50	6.61	2.25	7.91	58.01
Deerpark	3.75	4.18	3.66	4.83	4.76	4.96	3.35	3.70	2.92	4.52	2.50	7.09	50.22
Denton	1.80	3.56	1.99	2.12	1.94	7.81	2.41	2.08	4.80	5.98	1.85	3.15	39.49
Easton	4.11	4.91	3.63	3.63	1.62	7.38	3.71	2.39	4.90	6.71	3.07	4.58	50.64
Fallston	3.11	5.53	4.52	4.38	0.94	5.58	2.58	2.10	9.09	8.06	3.29	6.70	55.88
Frederick	3.52	4.49	4.30	2.54	1.08	4.59	3.75	1.59	3.66	4.87	3.43	5.99	43.81
Grantsville	3.58	3.68	4.99	4.34	3.64	5.91	4.19	2.65	3.15	4.00	1.85	5.72	47.85
Greatfalls	2.80	3.62	3.78	1.94	1.11	2.90	3.26	1.52	7.09	7.82	3.09	5.41	44.34
Greenspring Furnace	3.72	3.86	4.04	2.84	1.47	3.82	2.69	1.35	1.48	3.68	2.52	5.67	37.14
Guard	3.89	2.48	3.74	4.35	4.04	6.29	.....	.....	.....	.....	.....	.....	.....
Hancock	3.63	3.69	4.30	4.38	2.03	4.31	2.17	2.31	1.38	3.42	1.84	5.46	38.92
Harney	3.18	4.31	4.38	3.03	0.82	3.96	2.83	1.74	3.91	5.77	3.11	5.51	42.55
Jewell	3.05	5.05	2.56	2.37	2.29	7.68	4.28	0.87	5.51	7.12	3.55	5.59	49.92
Johns Hopkins Hospital	3.69	3.98	4.26	3.77	1.77	4.17	4.04	3.82	7.07	7.38	3.11	7.64	54.70
Laurel	3.15	6.41	3.71	3.11	1.88	4.11	2.89	3.70	11.42	5.83	3.70	5.59	55.50
Longwoods	4.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McDonogh	3.62	4.29	2.89	3.26	1.02	3.89	2.28	1.51	5.70	7.22	4.29	4.84	44.81
Mount St. Marys College	3.14	4.47	5.66	2.97	0.98	4.09	3.02	1.45	3.62	7.42	3.01	5.58	45.41
Newmarket	3.56	5.43	4.21	3.01	0.97	5.57	4.77	2.35	3.92	6.52	3.69	6.23	50.23
Pocomoke	3.20	4.79	1.82	3.50	1.70	.....	.....	2.50	6.67	2.05	3.36	.....	.....
Princess Anne	3.21	5.59	1.96	3.93	2.15	3.47	2.46	2.51	5.26	3.06	3.27	3.71	40.58
Queenstown	3.98	5.27	3.33	.....	.....	.....	.....	.....	.....	6.47	4.33	7.06	.....
Rockhall	3.38	4.09	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sharpsburg	2.90	4.07	4.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Smithsburg	3.24	5.52	3.05	4.60	1.42	.....	.....	.....	.....	.....	.....	.....	.....
Solomons	2.88	4.63	2.69	3.15	2.82	4.00	6.43	2.08	4.91	5.04	2.32	3.45	44.40
Sudlersville	4.25	6.85	3.30	3.90	2.28	9.00	.....	1.57	6.68	4.97	3.68	6.21	.....
Sunnyside	6.75	4.82	5.55	4.20	4.36	6.91	4.41	2.87	4.28	4.77	3.69	8.63	61.24
Tacoma Park	3.90	4.22	4.55	3.19	2.64	4.25	7.53	2.57	8.60	6.24	3.54	6.06	57.29
Taneytown	.....	2.97	4.82	2.76	0.73	4.23	2.75	.....	3.79	.....	.....	.....	.....
Van Bibber	3.32	5.18	4.79	4.33	1.19	5.57	5.75	1.26	8.06	7.29	3.57	7.46	57.77
Western Port	2.25	3.49	3.89	3.26	2.88	3.36	2.67	1.76	2.37	2.41	2.34	3.07	33.75
Woodstock	3.58	5.26	3.82	3.71	1.04	4.98	2.61	2.86	7.78	6.35	2.93	6.65	51.57
Massachusetts.													
Amherst	2.13	3.32	5.47	2.92	2.42	4.54	4.66	4.65	5.83	5.59	1.27	4.27	47.07
Bedford	1.67	4.04	5.55	3.53	2.66	1.81	3.11	4.66	4.54	5.05	0.82	5.60	43.04
Blue Hill (Summit)	2.05	5.73	6.75	2.81	1.38	3.78	3.15	2.76	2.94	4.54	1.33	5.50	42.72
*Boston	1.65	4.19	5.29	2.87	1.07	1.77	2.88	2.20	2.08	4.36	1.09	4.48	33.93
Cambridge	2.36	4.76	6.40	.....	.....	.....	3.09	2.86	3.00	.....	1.19	5.99	.....
Chestnuthill	1.98	7.76	5.27	3.88	1.20	2.69	3.57	2.96	3.16	4.79	1.46	5.53	44.25
Cohasset	1.74	5.76	6.17	3.26	1.11	4.50	2.36	1.76	3.14	4.49	1.68	6.65	42.62
Concord	1.66	3.12	5.02	3.35	2.39	1.89	2.78	4.26	5.78	4.76	0.85	5.32	41.18
East Templeton	1.46	2.31	3.81	3.43	1.96	3.57	4.28	3.06	3.11	4.65	0.32	6.01	37.97
Fall River	2.39	5.82	5.50	3.39	1.02	3.52	1.72	0.68	3.05	4.11	1.48	6.76	39.44

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Massachusetts—Continued.													
Fitchburg[1]	2.00	3.20	5.25	6.19	2.31	2.93	3.50	3.97	4.53	6.30	0.73	6.75	47.66
Fitchburg[2]	2.06	2.85	5.23	3.65	2.69	2.85	3.42	3.85	4.23	6.28	0.45	6.34	43.90
Framingham	2.71	6.65	6.45	4.62	1.79	2.42	2.97	4.07	4.34	4.20	1.36	6.61	48.19
Groton	2.29	3.99	4.53	3.95	2.60	2.14	3.91	4.20	4.40	6.38	0.97	6.39	45.75
Holyoke	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.23	8.30	.....
Hyannis	2.12	4.17	6.61	2.68	1.13	5.11	1.98	0.54	3.04	5.89	2.68	6.51	42.46
Jefferson	2.96	.....	5.36	4.01	1.60	2.33	4.07	5.50	4.18	6.76	0.95	7.21	.....
Lawrence	2.24	3.06	6.66	5.39	2.41	2.50	5.09	4.77	3.77	4.29	0.78	5.92	46.88
Leominster	1.96	4.08	5.13	4.39	2.84	1.95	3.28	4.34	3.76	6.54	0.65	4.90	43.82
Lowell	2.27	6.16	5.28	5.47	2.37	2.11	3.56	5.16	6.29	5.29	0.86	6.29	51.11
Ludlow Center	1.78	2.70	4.30	3.71	1.72	3.23	3.81	4.50	4.91	5.30	1.39	6.50	43.85
Middleboro	2.19	7.10	5.82	2.37	1.13	4.89	2.34	1.79	3.10	5.02	1.64	6.06	43.45
Monson	2.30	3.26	5.46	3.52	2.61	4.69	5.59	4.30	4.43	5.08	0.93	7.20	49.37
*Nantucket	2.75	2.87	4.55	2.23	0.74	6.34	1.76	0.27	2.35	4.25	1.96	5.90	35.97
New Bedford	2.38	5.78	6.91	3.72	1.36	2.48	3.21	2.09	3.92	6.19	1.85	5.53	45.42
*Pittsfield	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.94	5.32	.....
Plymouth	2.22	5.47	7.82	2.98	1.52	3.68	1.89	1.43	3.87	5.32	1.72	6.77	44.69
Princeton	3.10	4.20	4.84	4.43	2.98	3.09	3.96	3.62	4.30	6.56	0.92	7.39	49.39
Provincetown	2.46	3.62	6.35	2.58	1.28	4.05	2.04	0.67	1.73	3.88	1.96	6.53	37.15
Salem	.....	6.77	.....	4.44	1.25	2.19	2.70	2.59	2.90	5.06	.....	5.53	.....
Somerset	3.40	6.03	6.44	3.55	1.04	4.55	2.19	1.28	3.58	3.88	1.88	5.83	43.65
Springfield	1.33	4.00	4.74	3.42	1.40	2.76	3.90	4.62	.....	.....	.....	.....	.....
Sterling	2.30	4.72	5.12	4.37	2.61	2.51	4.16	3.01	3.72	6.38	0.76	7.00	46.66
Taunton (*c*)	2.10	6.77	5.72	3.52	1.41	4.87	2.86	2.85	3.17	3.68	1.76	5.56	44.27
Webster	2.00	2.97	6.63	2.95	1.60	3.88	4.24	3.09	5.15	5.34	0.74	6.58	45.17
Westboro	2.62	5.23	4.02	3.72	1.53	2.78	3.03	2.93	4.82	4.70	1.42	6.41	43.21
Weston	2.06	5.56	5.35	3.76	1.59	2.52	4.28	4.12	4.83	4.37	0.92	6.43	45.79
Williamstown	1.24	2.45	3.56	3.70	3.30	4.83	4.64	5.14	4.01	3.66	0.97	4.41	41.91
Winchendon	2.02	3.14	4.88	3.35	2.88	3.71	5.01	4.87	4.24	4.25	1.00	6.70	46.05
Worcester	1.97	2.62	3.75	2.59	1.64	2.08	4.29	3.58	2.65	5.00	0.66	5.03	35.86
Michigan.													
Adrian	0.62	0.70	2.54	0.84	3.72	10.03	3.83	0.89	5.34	1.36	1.25	1.60	32.72
Agricultural College	0.43	0.44	3.16	1.70	4.92	7.28	7.13	0.68	5.88	1.53	2.46	2.89	38.50
Allegan	[4]0.17	1.50	.....	.....	5.12	5.20	3.98	0.55	5.62	2.87	2.86	3.65	.....
Alma	0.34	1.21	4.09	1.08	3.13	6.37	5.75	1.45	4.27	4.35	3.19	2.34	37.57
*Alpena	0.77	0.56	1.51	2.54	2.98	3.14	5.60	2.53	2.44	2.34	2.86	1.75	29.02
*Ann Arbor	0.60	1.21	2.69	0.77	4.72	7.56	10.70	0.63	6.41	1.95	1.83	2.48	41.55
Ampere	0.30	0.50	1.30	0.60	2.70	2.50	3.80	.....	2.38	0.82	1.52	1.10	17.52
Arbela	0.10	0.52	3.77	1.10	5.77	10.20	7.59	2.06	6.05	2.71	3.53	3.44	46.84
Baldwin	0.20	0.90	4.43	1.90	4.78	4.45	4.17	1.55	3.60	1.65	2.45	1.48	31.56
Ball Mountain	0.38	0.69	1.83	1.71	5.94	10.40	8.61	1.22	6.53	2.75	2.58	1.81	44.45
Baraga	0.90	1.10	0.40	.....	.....	.....	.....	.....	0.14	1.00	.....	1.60	.....
*Battlecreek	0.32	0.52	3.09	2.22	4.36	8.05	7.74	0.36	6.90	1.79	3.61	2.47	41.43
Bay City	0.08	0.43	6.09	1.11	4.32	6.50	8.46	2.55	4.10	4.38	2.44	3.18	43.64
Benzonia	1.21	2.30	3.19	1.52	3.25	3.66	3.97	1.71	4.54	[3]2.05	.....	4.25	.....
Berlin	0.50	0.55	2.43	1.64	4.00	6.53	8.29	4.02	5.65	2.47	1.72	1.83	39.63
Berrien Springs	1.75	3.20	4.32	2.54	4.67	8.60	4.62	1.20	5.73	2.72	3.07	4.45	46.87
Big Rapids	0.35	0.95	4.39	1.65	4.45	5.03	5.17	1.45	3.03	2.97	2.53	2.93	34.90
Birmingham	0.30	0.62	2.42	0.81	2.44	6.50	6.45	0.40	5.88	2.29	1.21	1.71	31.03
Boon	1.15	1.28	3.99	1.96	4.08	5.19	5.72	3.35	2.71	2.46	1.66	2.15	35.70
Calumet	3.44	1.97	1.65	2.44	3.07	3.30	2.50	1.76	3.69	3.14	3.87	4.16	34.99
Carsonville	0.40	0.99	.....	.....	.....	.....	.....	.....	2.83	.....	.....	.....	.....
Caseville	.....	.....	.....	.....	.....	.....	.....	.....	3.86	4.57	.....	.....	.....
Cassopolis	1.21	1.40	4.40	2.19	5.20	7.70	4.70	0.60	4.70	1.80	3.50	3.60	41.00
Charlevoix	1.18	1.55	1.45	1.55	2.41	2.90	2.47	0.33	0.75	2.00	5.05	2.45	24.09
Charlotte	.....	0.40	4.15	2.18	5.57	6.03	6.49	0.65	6.96	1.94	*1.97	2.00	.....
Chatham	2.16	3.12	1.04	3.96	2.11	3.32	3.53	3.42	2.21	3.70	3.66	2.55	34.78
Cheboygan	0.70	0.60	1.45	2.26	2.05	4.08	2.00	1.54	2.05	2.75	3.45	1.10	24.03
Clinton	0.35	0.61	3.04	0.49	5.79	6.28	8.87	1.14	5.21	1.90	1.59	2.51	36.78
Coldwater	0.40	0.58	2.91	0.80	4.73	7.40	5.25	1.00	5.85	1.56	2.60	2.50	35.58
Deerpark	3.09	4.15	0.64	2.21	1.85	4.05	1.99	.....	1.86	2.25	2.93	5.00	.....
*Detroit	0.57	0.72	2.66	0.60	3.52	6.97	7.55	0.60	6.50	1.54	1.57	2.73	35.53
Detour	2.50	2.10	1.33	2.69	2.78	4.12	1.04	1.35	1.89	2.31	5.29	3.34	30.74
Dundee	0.62	0.90	2.85	1.02	4.11	9.54	4.35	1.10	5.08	1.57	1.45	3.14	35.78
Eagle Harbor	1.87	.....	1.20	2.17	3.88	3.65	1.47	2.02	2.27	2.19	3.98	2.16	.....
East Tawas	0.15	0.64	3.10	1.29	2.24	3.41	6.11	4.04	1.97	3.16	1.65	2.19	29.95
Eloise	0.28	0.68	.....	0.46	4.61	7.80	10.67	1.09	6.53	1.80	1.15	2.14	.....
*Escanaba	0.56	1.61	0.88	2.11	3.08	2.56	2.31	1.37	1.62	2.07	2.66	1.88	22.21
Ewen	0.97	1.80	0.70	1.40	0.70	.....	.....	0.40	2.76	1.78	.....	1.62	.....
Fairview	0.65	0.95	.....	.....	.....	.....	5.92	0.96	2.85	.....	.....	.....	.....
Fennville	0.55	2.50	1.27	1.50	4.70	5.58	3.42	0.85	6.17	2.21	3.71	2.85	35.31
Fitchburg	0.70	0.48	3.69	2.58	5.79	9.28	8.51	1.00	6.53	1.99	2.37	3.39	46.31
*Flint	0.42	0.52	3.28	1.59	3.96	7.20	6.60	1.50	6.43	2.66	2.90	1.84	38.90
Frankfort	0.25	1.05	1.10	0.50	4.50	.....	.....	0.78	1.47	1.43	1.97	1.46	.....
Gaylord	1.41	0.70	1.70	2.60	8.80	4.20	5.30	1.00	3.25	3.20	6.00	1.10	39.26
Gladwin	0.30	.....	.....	.....	.....	3.45	4.65	2.65	2.60	1.90	2.45	1.47	.....
*Grand Haven	0.53	1.48	3.64	1.59	4.58	3.85	4.85	0.53	5.28	3.17	2.76	2.60	34.81
Grand Marais	.....	.....	.....	.....	.....	4.03	2.46	2.29	2.09	2.08	3.53	3.56	.....
Grand Rapids	0.40	2.40	4.48	1.46	5.61	6.30	5.91	0.40	4.09	1.50	4.62	2.69	39.86
Grape	0.50	0.68	3.30	1.09	5.54	9.44	3.98	1.00	6.38	1.66	1.61	2.73	37.81
Grayling	1.10	0.85	2.05	1.92	4.70	4.10	5.00	3.35	1.00	2.55	3.85	1.70	32.17
Hagar	.....	.....	.....	.....	.....	.....	5.55	1.85	8.22	5.92	5.14	3.01	.....
Hanover	0.59	0.93	3.90	1.18	7.13	7.02	6.48	0.11	4.12	2.15	.....	.....	.....
Harbor Beach	0.87	0.55	4.32	1.35	2.91	4.71	7.34	2.48	3.91	3.00	1.60	1.65	34.69
Harrison	0.35	0.83	4.19	1.68	3.47	3.17	4.75	[3]1.71	.....	.....	2.63	2.80	.....
Harrisville	1.57	0.95	3.43	1.87	2.81	4.11	6.78	1.79	1.81	3.44	1.94	4.09	34.59
Hart	1.20	3.05	3.85	2.15	4.23	3.46	3.43	1.68	3.03	2.29	2.05	1.56	31.98
Hastings	0.45	0.77	4.12	1.90	5.72	5.33	4.48	0.75	6.14	2.68	2.81	3.20	38.35
Hayes	0.25	0.20	5.67	1.20	2.34	4.46	6.57	3.28	4.04	6.19	2.68	2.16	37.79

[1] Dr. Jabez Fisher. [2] Dr. A. P. Mason.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Michigan—Continued.													
Highland Station	0.70	1.32	3.06	1.40	4.21	7.85	6.42	0.96	6.15	2.28	2.14	2.50	38.99
Hillsdale	0.80	0.69	3.52	1.03	4.01	7.18	5.16	0.44	5.03	1.64	2.16	3.03	34.69
*Houghton	1.90	1.34	1.47	2.48	2.92	2.25	2.74	1.82	2.59	2.57	3.18	4.60	29.86
Humboldt	1.05	0.85	0.45	0.72	2.29	4.61	3.95	0.30	1.37	1.76	2.01	0.97	20.33
Ionia	.....	0.60	1.31	0.86	3.00	6.20	.....	.....	.....	.....	.....	.....	.....
Iron Mountain	0.41	0.88	1.09	3.22	2.58	2.83	4.10	2.16	1.86	1.48	2.74	1.55	24.87
Iron River	.....	.....	.....	2.60	2.10	5.15	3.50	2.15	2.65	2.55	4.30	2.45	.....
Ironwood	0.57	0.43	1.08	1.80	1.31	2.91	3.33	1.47	2.47	1.94	2.85	1.78	21.94
Ishpeming	1.60	1.10	1.30	2.73	3.15	2.35	4.37	2.40	2.05	3.71	3.05	1.50	29.31
Ivan	1.10	1.70	3.18	2.19	3.46	4.04	5.61	1.94	2.60	3.05	2.73	2.45	34.05
Jackson	0.65	0.80	3.07	0.90	5.88	7.60	6.60	0.49	5.00	1.62	1.52	2.97	37.10
Jeddo	0.51	0.86	2.42	1.40	6.63	6.35	6.20	2.94	5.84	2.12	1.86	2.20	39.33
Kalamazoo	0.50	0.81	2.24	1.88	3.44	5.21	6.23	2.06	5.11	2.98	3.65	[a]4.06	38.17
Lake City	0.60	1.60	0.90	0.67	2.05	6.03	3.22	0.55	T.	0.75	1.37	0.70	18.44
*Lansing	0.38	0.56	4.12	1.69	3.91	7.07	6.99	0.39	5.66	1.65	2.30	2.32	37.04
Lansing[1]	0.23	0.50	4.06	1.78	4.39	7.43	7.28	0.44	5.94	1.76	2.41	2.09	38.31
Lapeer	.....	.....	.....	1.67	.....	.....	4.30	2.89	7.47	1.78	1.01	.....	.....
Lathrop	.....	2.65	0.90	[b]4.00	.....	2.67	.....	.....	.....	.....	1.80	[c]2.68	.....
Lincoln	0.60	0.24	1.19	1.52	2.86	3.03	4.64	1.19	1.88	3.31	0.80	0.50	21.76
Ludington	0.25	1.16	2.11	1.70	3.97	6.68	4.95	.....	.....	0.30	0.92	1.25	.....
Mackinac Island	1.30	0.67	1.66	2.83	2.18	4.05	2.50	3.97	2.12	2.62	4.26	2.37	30.53
Mackinaw	0.59	0.57	1.29	3.58	2.64	4.56	2.21	2.95	1.71	3.32	5.87	2.14	31.43
Mancelona	2.25	2.05	1.24	2.78	4.37	4.02	4.03	0.76	3.59	2.90	4.15	1.55	33.69
Manistee	0.90	1.80	4.51	1.58	5.74	5.93	9.01	0.97	.....	0.55	0.53	1.75	.....
Manistique	1.14	1.85	1.01	2.83	3.52	3.60	4.48	3.35	1.94	2.16	4.00	2.41	32.09
*Marquette	1.75	1.24	0.67	3.33	2.14	2.98	2.14	2.17	1.20	1.97	3.39	3.79	26.77
Menominee	0.75	1.00	0.46	2.49	2.62	4.99	4.41	1.41	2.38	1.60	2.03	0.85	24.99
Midland	0.55	0.32	3.66	0.85	3.43	4.24	7.06	2.35	4.98	3.40	2.39	2.20	32.43
Mio	0.76	1.97	3.86	2.16	2.31	3.01	3.61	2.33	1.95	3.62	2.86	1.97	30.41
Montague	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.14	.....
Mount Clemens	0.45	0.35	1.17	0.40	1.50	.....	5.03	0.72	3.43	3.10	1.30	.....	.....
Mount Pleasant	0.60	0.50	4.14	0.96	3.96	5.66	6.47	1.67	2.09	2.65	1.75	1.83	32.28
Muskegon	0.35	1.18	3.83	1.11	4.46	3.49	7.11	0.61	4.15	2.57	2.25	2.35	33.46
Newberry	1.20	[d]1.00	0.01	1.22	1.01	2.30	3.06	1.10	2.40	1.10	2.20	1.30	17.90
North Marshall	0.40	0.55	[e]1.80	1.10	3.80	7.05	9.50	0.40	7.10	2.85	1.85	[f]2.85	39.25
Old Mission	1.20	.....	2.72	1.87	4.22	8.21	3.35	1.07	2.61	2.97	3.66	[h]1.48	.....
Olivet	0.51	0.43	3.25	2.34	3.43	8.28	8.83	1.82	7.44	2.53	2.55	2.83	43.74
Omer	0.15	0.15	2.65	0.84	4.15	2.63	4.96	1.78	2.12	3.41	[i]1.69	1.12	25.65
Onaway	1.60	T.	0.89	2.13	2.83	3.22	2.58	2.31	1.80	2.20	4.07	1.61	25.24
Ontonagon	3.40	2.46	1.26	1.67	1.97	2.06	2.83	1.67	3.46	1.58	3.66	3.90	29.87
*Ovid	0.17	0.21	3.57	1.14	4.26	5.25	7.02	0.77	5.26	2.57	2.58	1.81	34.61
Owosso	0.16	0.40	4.09	1.50	4.60	5.19	11.06	0.42	7.11	2.20	1.80	0.61	39.13
Petoskey	0.85	1.20	0.85	1.60	1.24	2.25	0.92	0.40	0.23	2.92	3.15	[c]1.88	17.49
Plymouth	0.65	0.80	.....	.....	.....	5.53	5.10	0.20	5.10	1.81	1.33	1.20	.....
Pontiac	0.50	0.68	1.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Austin	0.20	0.60	1.60	1.00	3.80	4.32	5.60	1.80	2.79	2.18	1.45	1.18	26.52
*Port Huron	0.52	0.76	2.65	1.25	4.58	5.30	5.29	4.05	6.27	2.57	1.75	1.43	35.77
Reed City	0.30	1.55	3.79	1.84	5.26	4.92	4.97	1.93	3.36	2.81	2.57	2.47	35.77
Roscommon	0.40	0.70	1.55	.....	.....	.....	.....	.....	0.38	0.47	0.44	1.12	.....
Saginaw	0.36	0.56	4.70	1.13	5.16	5.78	6.97	2.48	5.81	2.96	2.52	2.56	40.99
St. Ignace	1.54	0.22	1.52	2.05	2.44	3.87	3.73	3.71	2.12	1.40	3.88	0.75	27.23
St. Johns	0.25	0.22	2.54	1.31	4.68	4.41	7.14	0.42	5.28	2.46	2.13	.....	.....
St. Joseph	0.94	1.77	4.24	3.93	5.51	7.38	4.66	1.59	4.37	3.43	3.25	4.05	45.12
*Sault Ste. Marie	0.98	0.58	0.95	2.00	2.60	3.04	2.20	1.54	2.44	4.42	3.54	1.71	26.00
Sidnaw	0.60	0.70	.....	1.68	.....	.....	.....	0.30	.....	.....	1.51	2.25	.....
Somerset	[c]0.30	[c]0.50	[i]1.64	[g]0.58	[g]3.84	[f]5.37	[g]3.71	T.	4.08	1.55	1.10	[j]0.90	.....
South Haven	0.61	1.25	4.30	2.13	4.19	5.07	3.90	0.65	6.25	1.87	3.92	2.32	36.46
Stanton	[h]0.35	.....	.....	1.75	4.72	6.15	.....	.....	.....	4.73	2.58	.....	.....
Thomaston	.....	0.60	0.70	0.90	1.31	1.13	2.24	1.47	2.96	2.52	2.43	2.00	.....
Thornville	0.65	1.10	1.84	1.49	4.35	6.64	9.09	3.21	5.90	2.77	2.02	2.75	41.81
Traverse City	2.00	1.80	1.64	0.97	3.30	2.89	5.60	1.07	.....	.....	.....	[h]1.55	.....
Vans Harbor	.....	.....	.....	.....	.....	3.43	2.66	1.13	2.48	1.64	1.51	.....	.....
Vassar	0.86	0.91	6.22	0.92	1.78	4.90	4.60	1.71	4.83	1.96	1.37	1.89	31.45
Wasepi	0.52	0.76	3.16	1.58	6.13	8.86	4.07	0.86	5.91	1.72	2.66	3.76	39.49
Waverly	0.50	1.33	4.12	1.41	3.90	5.62	2.35	0.24	3.72	4.89	4.00	3.21	35.29
Webberville	0.10	0.47	3.27	1.60	4.33	7.10	6.27	1.24	6.57	2.24	2.14	2.00	37.83
West Branch	0.45	1.33	3.11	1.91	4.64	2.97	4.98	1.41	2.23	2.67	2.81	2.14	30.65
Wetmore	1.40	1.85	.....	.....	.....	.....	.....	.....	2.23	3.10	3.03	[c]1.85	.....
Whitecloud	0.30	1.70	3.20	1.10	2.25	3.30	5.30	1.00	.....	.....	.....	.....	.....
Whitefish Point	1.10	2.40	0.68	2.23	1.88	3.44	2.75	2.36	3.06	2.64	3.86	1.10	27.50
Ypsilanti	0.57	0.84	2.23	0.62	5.73	7.86	9.24	0.44	7.28	1.45	2.05	3.46	41.77
Minnesota.													
Ada	0.06	0.67	1.47	0.88	3.75	7.24	4.63	3.12	[c]1.02	.....	0.20	0.85	.....
Albert Lea	0.59	0.23	0.20	1.65	9.39	6.68	7.49	3.93	5.37	1.52	3.11	1.82	41.93
*Alexandria	0.16	0.11	0.46	1.38	5.79	3.07	8.32	3.07	0.48	0.81	0.32	1.36	20.28
Angus	.....	.....	.....	2.47	2.85	2.11	2.04	2.79	0.92	2.86	0.46	0.73	.....
Ashby	0.26	0.85	1.13	1.66	4.69	2.31	2.45	2.77	0.18	2.58	0.45	1.42	20.75
Beardsley	0.10	1.05	4.85	1.79	3.99	3.01	2.00	2.64	0.06	1.85	0.57	1.30	23.21
Beaulieu	.....	0.05	0.85	2.36	3.19	4.20	.....	2.79	0.67	3.45	0.46	0.38	.....
Bemidji	0.20	0.67	0.97	1.76	3.93	1.09	3.75	4.85	0.73	2.74	0.68	0.95	22.32
Bird Island	0.28	0.82	0.36	1.61	3.42	2.13	6.26	4.91	1.95	1.38	0.75	2.39	26.26
Blooming Prairie	0.50	0.97	0.10	2.70	8.05	4.05	6.40	3.90	3.60	1.95	3.52	1.70	37.44
Brainerd	0.69	0.36	0.61	0.97	6.59	3.59	3.12	4.32	.....	2.75	1.65	2.48	.....
Caledonia	0.92	1.24	2.11	1.79	11.13	4.34	6.38	1.99	4.04	1.94	2.72	2.27	40.87
*Campbell	.....	.....	.....	1.14	3.31	1.39	2.70	2.41	0.28	.....	.....	.....	.....
Collegeville	0.28	0.34	0.47	0.63	3.00	2.08	3.08	1.32	1.29	0.98	1.17	1.67	16.31
*Crookston	0.11	0.73	1.91	1.41	3.25	2.35	2.92	3.24	1.27	2.42	0.42	0.45	20.48
Currie	.....	.....	.....	.....	.....	2.10	.....	.....	.....	.....	.....	.....	.....

[1] Dr. H. B. Baker.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Minnesota—Continued.													
Deephaven	0.76	0.65	0.13	3.02	3.86	2.60	6.65	5.92	4.66	1.44	1.64	1.62	32.95
*Detroit City	0.35	0.84	1.54	1.72	6.67	3.76	1.78	4.55	0.32	2.93	0.90	0.43	25.69
*Duluth	0.74	0.70	0.77	1.09	3.89	3.68	4.54	3.30	1.52	2.03	1.85	2.03	26.14
Faribault	0.30	0.67	0.66	1.81	5.16	5.44	8.33	5.52	4.91	1.05	2.70	2.37	38.92
Farmington	0.55	1.70	0.81	2.91	6.41	2.14	7.17	5.26	3.63	1.45	2.47	2.72	37.22
*Fergus Falls	0.22	0.60	1.80	1.43	4.06	3.60	1.93	1.80	0.66	2.85	1.38	0.94	21.27
Glencoe	0.28	0.23	0.50	1.95	4.75	3.73	2.87	3.24	3.42	1.35	1.37	1.20	24.89
Grand Marais				0.51	3.76	4.22	3.02						
*Grand Meadow	0.75	1.05	1.29	1.30	10.94	6.07	6.79	4.05	2.19	1.84	2.57	3.19	42.03
Hallock	0.10	0.65	2.90	0.39	4.13	3.12	4.39	1.72	1.76	1.57	0.56	0.18	21.47
Hoyland	0.44	0.96	1.03	1.36	3.29	4.39	3.19	3.69					
Lakeside	0.30	0.45	0.60	2.20									
Lake Winnibigoshish	0.34	0.37	0.51	1.07	5.59	2.33	3.38	5.89	0.86	1.20	1.51	1.06	24.10
Leech	0.33	0.60	1.01	1.21	5.52	1.98	4.86	5.29	0.77	3.64	1.73	1.29	28.23
Long Prairie	0.28	0.45	1.15	1.54	6.48	6.90	3.05	3.11	0.51	2.17	1.38	1.43	28.45
Luverne	0.57	0.25	0.40	0.97	4.43	2.58	6.13	8.30	5.00	0.61	0.65	2.55	32.44
Lynd	0.33	0.58	0.55	1.69	3.47	2.12	2.18	6.29	1.99	1.01	0.76	2.63	23.55
Mapleplain	0.62	0.79	0.52	2.96	3.54	2.94	9.24	3.41	4.14	2.01	1.66	3.19	35.02
Milaca				1.24	3.79	4.96	4.84	2.06	2.41	2.26	2.06	0.91	
Milan	0.35	0.80	1.15	1.05	4.09	1.74	1.59	1.97	[1]0.60	1.00	1.04	2.97	18.35
*Minneapolis	0.44	0.47	0.30	2.70	4.33	2.00	6.05	5.94	4.08	1.40	1.74	2.61	32.01
Minneapolis[1]	0.46	0.53	0.27	2.84	4.32	2.09	5.89	6.29	4.52	1.51	1.86	2.37	32.95
*Montevideo	0.42	0.66	1.09	1.31	3.40	2.08	2.40	4.25	0.73	1.05	0.98	2.35	20.72
*Moorhead	0.56	0.62	2.26	3.62	6.56	3.22	2.82	3.42	0.74	4.74	0.54	1.02	29.12
Morris	0.20	0.50	0.97	2.28	4.26	2.22	6.09	4.03	1.20	1.67	0.68	1.81	25.91
Mount Iron	0.20	0.20	1.01	1.09	6.08	3.44	4.76	5.25	2.52	2.40	2.13	2.05	31.13
New London	0.26	0.39	0.41	1.49	3.17	1.70	3.32	3.15	2.00	1.59	0.60	2.00	19.99
New Richland	0.05	0.55	0.16	1.23	5.32	4.94	11.98	4.96	2.81	1.51	2.04	2.66	38.81
*New Ulm	0.80	1.10	0.41	1.91	3.18	5.76	4.84	5.87	3.08	1.45	1.58	1.74	31.72
*Park Rapids	0.48	0.62	1.12	1.79	6.22	2.88	1.92	3.61	0.90	2.36	1.27	0.96	24.13
Pine River	0.22	1.30	1.09	1.25	10.83	6.54	4.53	10.15	0.85	5.35	1.73	2.02	45.86
Pipestone	0.12	0.27	0.51	1.15	4.76	1.77	1.34	10.60	1.85	1.45	0.86	1.52	26.20
Pleasant Mounds	0.23	0.55	0.43	1.31	5.24	8.53	4.72	6.01	2.59	0.94	1.79	2.46	34.80
Pokegama Falls	0.55	0.62	1.20	1.20	5.03	2.44	3.04	5.45	1.76	1.97	2.55	1.32	27.13
*Redwing[2]	0.46	0.69	0.90	2.36	6.75	2.29	8.72	4.36	4.01	2.62	4.02	1.56	38.74
Redwing[3]	0.80	0.37	0.65	2.26	6.77	2.60	6.45			2.70	3.28		
Reeds	0.61	0.43	0.37	1.85	8.28	3.79	6.70	6.50	2.71	2.56	3.45	2.09	39.34
Rolling Green	0.60	0.41	0.35	0.92	4.65	2.54	6.65	4.70	2.88	0.51	2.16	1.90	28.37
St. Charles	0.56	1.20	0.70	1.52			5.49						
St. Cloud	0.30	T.	0.35	0.58	2.79	2.92	4.75	2.32	2.19	1.63	1.53	1.43	21.09
*St. Paul	0.53	0.68	0.58	3.04	3.92	2.49	5.50	5.64	3.16	1.33	2.40	2.48	31.75
St. Peter	0.30	0.96	0.10	2.37	3.17	5.04	7.60	4.54	2.52	2.62	2.01	1.07	32.30
Sandy Lake Dam	0.38	0.31	0.82	1.42	6.18	3.69	3.80	4.31	1.20	2.31	2.46	1.32	28.20
Shakopee	0.58	1.07	0.47	3.09	5.24	3.06	6.51	5.55	3.90	1.34	1.86	3.10	35.77
Tower	0.70	0.20	0.52	1.30	7.50	2.00	1.90	4.20	4.90	2.70	2.40	1.80	30.12
Two Harbors	0.64	1.35	0.39	1.37	4.08	3.00	5.23	2.54	2.28	2.57	1.79	1.87	27.11
Wabasha	0.75	0.67	0.85	2.22	8.22	2.80	6.43	6.87	3.08	2.26	3.27	2.81	39.73
Warroad	0.10	0.40		0.95	0.65								
Willmar	0.18	1.05	0.56	2.80	3.70	1.19	3.72						
Willow River	0.90	0.35	0.55	1.29	3.87	3.77	4.58	4.17	1.56	2.82	2.38	2.11	28.35
*Winnebago City	0.40	0.55	0.97	1.91	5.56	5.13	7.57	4.52	3.31	1.04	2.26	2.08	35.30
Winona	0.70	0.83	0.89	1.68	9.19	4.29	6.67	2.92	1.46	1.77	2.09	2.46	34.95
*Worthington	0.53	0.70	0.70	0.73	3.46	2.18	5.70	7.13	2.53	0.14	0.98	2.27	27.04
Mississippi.													
*Aberdeen	4.37	3.42	9.57	3.35	1.59	2.74	6.76	4.67	3.22	1.56	4.50	6.35	52.10
Agricultural College	4.07	5.68	15.34	3.11	1.48	1.93	3.91	1.17	2.67	2.16	4.79	7.07	53.38
Austin	6.76	2.11	9.49	1.75	5.48	6.19	3.11	7.29	7.04	2.32	6.08	12.44	70.06
*Batesville	5.05	2.65	12.79	2.63	1.56	2.01	4.58	3.70	4.25	1.87	6.07	6.60	53.56
Bay St. Louis	0.93	5.47	4.78	3.78	3.08	2.05	2.36	5.28	5.06	7.65	2.89	7.64	50.97
Biloxi	1.17	6.48	5.00	2.23	2.23	1.16	2.19	4.80	4.85	3.61	3.68	5.71	43.01
Booneville	6.18	2.86	10.98	2.55	1.65	3.24	6.10	2.60	3.33	0.63	5.70	7.10	52.92
*Brookhaven	3.45	4.35	11.25	3.65	3.20	2.04	3.61	3.15	5.22	1.06	4.35	8.00	53.27
Canton	3.42	2.30	13.84	3.91	3.93	0.27	1.72	4.16	2.73	1.23	3.19	5.02	45.72
Cleveland	3.37												
*Columbus	3.45	5.29	9.18	3.24	1.19	0.74	4.42	4.78	3.75	2.99	5.25	5.51	49.79
*Corinth		2.91	12.14	2.25	0.58	3.26	1.11	5.46	4.22	1.00	5.86	8.68	
Crystalsprings	2.88	3.03	6.89	2.22	3.53	0.40	4.59	5.75	6.79	0.82	4.47	7.17	48.54
Duckhill		2.88	10.30	3.55	0.76	0.02	3.19	0.86	4.61	0.57	5.67		
Edwards				2.30	4.37	0.57	5.55	2.01	6.24	1.98	3.43	5.86	
Fayette	2.20	4.25	7.57	[2]2.05	[3]3.85	1.00	1.35	3.10	11.26	0.65	5.65	4.12	
Fayette (near)	2.58	3.48	6.83	2.51	3.95	0.87	3.14	5.10		0.53	4.03	4.16	
Greenville[4]	2.58	3.07	7.89	3.11	4.57	0.97	2.13	1.31	5.46	2.48	6.64	4.96	45.17
*Greenville[5]	2.10	2.75	7.26	2.91	4.60	0.84	2.06	1.79	5.17	2.52	6.56	4.95	43.45
*Greenwood		2.91	11.30	3.10	2.32	0.62	6.09	3.75	7.13	0.69	5.97	5.28	
Hattiesburg	6.22	4.22	7.04	2.92	3.95	1.31	5.27	7.16	7.17	4.20	2.98	5.15	57.59
*Hazlehurst	1.13	4.20	7.38	2.38	4.10	1.11	3.48	3.64	5.33	1.06	3.75	7.14	44.76
*Hernando		1.95	6.61	2.84	2.35	5.61	2.39	5.23	2.83	1.63			
*Holly Springs	4.49	2.03	9.08	3.31	2.44	5.55	3.60	6.58	2.73	1.22	5.96	8.17	55.16
Indianola	3.26	2.28	9.59	4.02	3.80	1.95	2.98	2.50	6.65	1.00	8.20	3.90	49.63
*Jackson	3.71	3.35	10.72	2.81	4.19	1.65	4.13	7.02	4.50	2.95	2.90	5.72	53.65
*Kosciusko					1.05	1.66	1.44	3.87	6.53	1.23	5.18	5.38	
*Lake	3.77	3.30	11.13	3.00	2.63	0.37	2.88	6.35	4.36	2.13	3.77	6.22	49.91
Lake Como								7.35	5.22	1.65	3.28	6.07	
Laurel		4.93	8.51								3.75	5.33	
Leakesville	3.56	3.87	7.37	3.32	4.63	0.76	4.42	2.63	5.87	5.75	3.28	5.47	51.43
Louisville	3.42	4.44	11.19	4.67	2.11	1.08	3.87	2.00	5.62	1.42	4.61	4.75	49.18
*Macon		5.76	10.32	1.04	0.78	0.74	2.25	2.75	4.89	0.94	3.86	4.27	

[1] J. H. Aschenbeck. [2] River observer. [3] State Training School. [4] Robert Somerville. [5] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Mississippi—Continued.													
Magnolia	2.63	5.44	5.70	2.60	2.45	0.43	5.16	2.66	5.01	1.29	3.30	6.64	43.31
*Meridian	2.93	4.38	9.90	2.42	2.55	0.22	3.10	3.47	7.14	4.28	4.27	5.40	50.06
*Natchez	2.40	2.80	5.20	2.00	3.55	1.40	5.25	3.85	6.22	0.97	4.70	4.25	42.59
Nittayuma	3.59	2.97	10.84	4.36	5.20	0.78	3.21	1.51	6.62	0.92	3.96	4.03	47.99
*Okolona	3.81	3.64	9.37	2.82	1.33	0.60	4.86	4.64	2.57	0.97	5.09	7.01	46.71
Palo Alto	4.06	3.18	9.25	2.55	0.49	0.95	3.45	3.07	2.94	1.24	4.61	7.30	43.09
Patmos	.....	.....	.....	.....	2.32	1.76	2.68	1.02	6.91	0.64	4.96	4.73	.....
Pearlington	1.26	3.94	4.53	2.85	6.82	0.24	2.21	7.19	5.73	2.63	2.08	7.48	46.96
Pittsboro	4.22	3.04	9.67	2.66	0.65	1.87	3.58	2.23	3.55	0.38	5.41	6.88	44.14
Pontotoc	2.75	2.53	7.26	2.22	0.81	2.49	2.69	4.42	4.56	0.43	6.72	5.73	42.61
Poplarville	3.29	4.59	.....	.....	.....	.....	.....	.....	3.33	4.16	3.43	6.15	.....
*Port Gibson	2.84	2.92	9.86	2.82	3.04	0.26	4.88	0.90	8.29	0.67	3.69	4.26	44.43
Ripley	4.77	.....	14.53	3.09	3.14	2.85	6.07	1.47	5.47	0.52	5.15	4.20	.....
Shoccoe	5.05	0.86	9.27	2.08	1.41	T.	3.31	6.25	3.28	3.76	2.77	5.53	43.57
Stonington	3.20	3.48	7.55	2.46	3.18	0.25	4.44	2.19	8.09	0.95	4.69	4.23	44.71
Suffolk	3.20	4.18	4.61	2.48	5.01	1.56	5.87	2.53	4.37	1.41	5.37	7.04	47.63
Swartwout	1.84	7.00	5.45	2.40	4.18	2.60	2.26	4.59	8.76	4.34	4.78	9.75	57.95
Thornton	.....	4.08	10.46	5.89	2.70	1.52	2.15	0.50	5.73	0.58	4.05	.....	.....
*Tupelo	4.31	3.64	9.84	3.33	0.78	2.06	2.23	3.59	4.11	0.65	5.88	8.20	48.62
University	4.15	3.20	11.86	3.16	2.53	2.05	3.08	3.03	5.94	0.48	5.53	6.01	51.02
*Vicksburg	2.32	2.42	12.26	2.74	3.18	0.61	6.68	1.03	6.47	1.62	3.80	4.18	47.31
Walnutgrove	3.69	3.88	13.41	1.97	2.14	2.10	3.28	5.69	3.45	1.10	4.03	4.35	49.09
Watervalley	6.45	2.74	12.33	2.36	3.70	1.70	4.35	2.92	5.36	T.	5.85	5.46	52.82
*Waynesboro	3.95	5.15	8.09	2.90	2.73	2.20	3.46	5.95	5.57	2.48	2.21	4.71	49.40
Woodville	2.63	3.45	3.84	2.59	2.49	0.47	6.00	3.54	3.80	1.51	5.25	7.90	43.47
*Yazoo City	2.65	2.42	13.20	3.25	3.00	0.27	3.54	6.20	5.05	1.00	3.99	4.07	48.64
Missouri.													
Appleton City	1.02	2.06	4.97	4.11	8.43	4.62	6.81	11.08	6.98	1.40	4.06	3.17	58.71
Arthur	0.94	3.02	4.63	2.46	6.88	5.84	4.89	11.49	6.87	1.35	3.57	2.27	54.11
Avalon	0.78	1.00	2.82	[b]1.49	6.46	4.53	4.97	6.12	6.47	3.25	3.07	1.85	42.81
*Bagnell	.....	.....	3.98	3.13	4.64	8.33	.....	.....	.....	.....	.....	.....	.....
Bethany	1.07	0.33	0.69	1.40	8.80	9.93	5.55	7.56	10.66	2.75	3.12	2.16	53.52
Birchtree	0.94	.....	3.63	2.43	2.99	7.45	1.82	4.62	4.90	1.83	5.70	3.85	.....
*Boonville	0.65	1.03	4.50	2.00	4.95	4.74	7.54	8.22	6.87	2.10	3.44	1.82	47.86
*Brunswick	1.40	1.33	3.73	1.26	4.68	5.15	7.21	6.21	4.48	2.02	3.74	2.02	43.23
Carrollton	.....	0.90	.....	1.74	.....	7.60	5.09	6.04	6.02	.....	.....	0.94	.....
Caruthersville	.....	.....	.....	.....	.....	.....	0.15	4.20	3.49	2.52	5.92	9.31	.....
*Columbia	1.04	0.90	3.58	3.42	4.33	6.56	7.66	6.64	2.60	2.52	2.89	2.20	44.34
Conception	1.30	0.15	0.70	1.18	7.00	7.18	6.53	4.28	6.17	3.10	1.51	1.42	40.52
Cowgill	.....	1.05	2.63	0.93	7.01	7.67	8.70	6.25	.....	.....	.....	.....	.....
Darksville	0.85	0.90	3.65	2.20	6.80	6.40	4.20	5.42	4.35	2.45	2.84	[c]0.71	[c]40.77
Dean	0.75	1.25	6.85	4.67	4.20	8.14	2.41	4.67	4.19	2.59	4.64	4.21	48.57
Desoto	0.99	1.01	4.02	3.41	5.03	5.69	2.61	6.03	4.19	1.96	3.32	3.83	42.09
Downing	0.65	0.48	1.45	2.33	2.16	6.89	5.89	7.32	5.07	3.40	3.52	2.10	41.26
Edgehill	1.80	1.31	4.34	4.21	3.02	6.44	2.07	7.55	2.92	1.52	3.73	3.60	42.01
Edwards	.....	.....	.....	3.44	5.99	6.01	6.49	8.24	5.08	2.16	2.89	2.17	.....
Eightmile	1.40	2.74	3.45	1.44	4.16	6.11	4.66	8.31	4.77	1.30	2.08	1.97	42.39
Eldon	1.20	1.79	.....	7.13	3.73	7.97	3.09	6.92	2.61	2.21	.....	.....	.....
Fairport	1.26	0.67	1.33	0.98	7.55	7.44	6.38	5.11	6.74	2.97	2.38	1.34	44.15
Fayette	1.15	1.23	3.91	1.37	5.14	3.75	7.15	6.46	6.20	2.66	3.11	1.67	43.80
Fulton	1.40	0.95	2.91	3.43	4.42	5.04	4.47	4.88	2.62	3.19	2.76	1.98	38.05
Galena	1.61	2.71	5.93	3.61	5.32	6.29	3.03	0.96	.....	.....	.....	4.80	.....
Gallatin	1.70	.....	2.19	1.24	6.80	5.75	7.51	5.20	5.10	3.33	2.69	1.69	.....
Gayoso	6.31	2.89	3.91	1.86	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glasgow	0.85	1.85	3.30	2.35	4.10	3.76	5.82	6.30	3.64	1.66	2.46	1.58	37.67
Gorin	0.80	0.57	1.51	2.36	2.54	6.18	3.56	5.19	4.10	2.67	3.35	2.06	34.89
Grant City	.....	.....	.....	2.42	6.70	11.97	7.06	7.61	7.61	2.86	2.69	1.55	.....
Halfway	1.00	2.49	4.62	3.80	7.05	9.26	2.18	10.40	7.76	2.55	3.65	2.35	57.11
*Hannibal	0.78	0.68	2.95	2.99	4.83	6.22	2.96	4.02	2.26	2.94	2.53	1.76	35.02
*Harrisonville	1.02	1.86	3.50	1.88	4.02	4.29	4.90	8.36	5.15	1.64	2.81	1.99	41.42
Hazlehurst	1.25	1.00	2.01	0.95	5.84	5.62	4.71	6.62	5.83	2.62	2.78	1.47	40.70
*Hermann	0.98	1.08	3.15	3.63	4.12	7.31	2.92	4.28	1.81	2.87	3.87	2.54	38.56
Houston	0.94	2.08	4.66	2.48	5.21	7.19	1.98	6.42	2.61	2.67	4.90	3.93	45.07
Huntsville	.....	.....	.....	.....	.....	.....	5.59	4.86	4.26	2.72	3.19	1.42	.....
Irena	0.89	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Ironton	1.31	1.25	5.46	3.45	2.37	5.40	3.04	7.97	3.69	2.10	3.28	4.08	43.40
Jackson	2.44	2.20	3.06	3.72	1.80	5.03	1.70	3.19	4.65	0.87	5.71	6.35	40.72
*Jefferson City	1.12	0.73	4.26	4.24	3.14	8.89	4.97	5.06	3.80	2.38	[f]2.37	3.47	44.43
Joplin	1.05	1.98	4.85	4.90	6.25	10.19	3.77	6.41	6.76	2.24	4.61	1.64	54.65
*Kansas City	0.77	0.97	2.74	1.02	5.77	4.20	9.63	3.77	5.23	2.49	2.04	1.89	40.52
*Kidder	1.96	0.72	2.13	1.17	8.55	4.31	8.84	4.07	4.76	2.63	2.79	1.63	43.56
Koshkonong	1.89	2.31	3.60	3.06	8.79	4.48	1.47	3.84	3.44	2.60	5.87	5.33	41.68
*Lamar	0.69	2.32	4.18	2.51	8.02	8.26	2.39	8.52	8.66	1.92	4.54	2.09	54.10
Lamonte	0.92	3.12	2.62	2.51	5.17	2.55	7.64	4.65	5.91	1.77	2.49	2.09	41.44
Lebanon	1.40	2.00	4.69	4.61	7.16	9.12	1.88	7.25	3.85	2.59	4.33	3.96	52.84
*Lexington	0.85	1.36	3.95	1.56	7.22	6.07	8.30	5.34	3.59	2.43	2.51	1.94	45.12
Liberty	0.81	0.75	2.22	0.93	5.93	4.57	6.29	8.16	5.84	1.63	2.71	1.34	41.18
Louisiana	1.50	1.57	3.42	2.93	4.93	7.68	5.06	5.23	3.62	3.06	3.26	2.99	45.25
McCune	1.08	2.14	.....	.....	.....	6.44	.....	.....	.....	.....	.....	.....	.....
Macon	0.76	0.96	2.69	1.58	5.44	6.44	3.77	3.92	3.69	3.05	3.61	1.99	37.90
Marblehill	2.40	1.41	3.03	3.79	1.64	3.83	1.79	3.79	4.64	1.14	4.52	5.00	37.98
Marshall	0.55	2.09	3.88	1.66	4.45	3.79	7.07	6.11	3.33	2.45	2.79	2.38	40.55
*Maryville	1.35	0.91	0.95	0.72	5.71	7.70	7.82	4.70	8.05	3.05	2.23	2.05	45.24
*Mexico	1.11	0.69	3.36	2.06	4.21	8.79	7.28	5.04	2.28	2.43	2.73	2.14	42.12
Miami	1.02	1.80	4.64	2.15	3.74	4.50	5.23	8.10	3.83	4.43	3.63	1.52	44.59
Mineralspring	0.62	1.15	4.93	3.20	4.75	8.52	.....	.....	.....	.....	.....	3.30	.....
Monroe City	0.87	0.68	3.51	3.18	4.66	6.78	5.35	5.92	2.13	2.45	3.33	2.30	40.26
Montreal	1.22	1.48	4.07	4.42	4.72	8.78	3.15	8.19	3.38	3.57	3.22	2.80	49.00
Mountaingrove	0.73	2.55	4.78	2.46	3.00	5.75	1.71	7.69	4.12	2.64	6.06	3.43	44.92
Mount Vernon	0.34	3.17	7.67	4.51	7.88	12.56	6.38	4.86	5.14	3.95	4.03	5.16	65.64

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Missouri—Continued.													
Neosho	0.88	2.11	5.27	4.42	4.95	9.28	4.33	3.50	6.00	2.81	4.29	3.34	51.18
Nevada	0.98	2.89	4.70	1.55	9.80	5.14	2.65	10.28	5.92	1.35	3.95	2.19	51.20
New Haven	1.10	1.83	4.27	3.40	2.22	6.89	2.81	4.86	2.81	3.06	3.73	4.21	41.19
*New Madrid	5.64	2.11	3.23	2.35	2.48	2.76	0.38	6.51	2.92	1.65	5.95	8.62	44.60
New Palestine	0.50	0.91	4.08	2.82	5.17	4.05	7.37	4.60	5.60	2.12	3.64	1.70	42.56
Oakfield	0.97	1.40	3.99	2.13	5.89	6.19	1.83	5.67	2.14	3.22	3.99	3.98	41.40
Olden	1.42	2.75	4.81	2.64	4.40	4.57	0.96	4.86	6.70	2.49	6.21	4.99	46.80
Oregon	1.38	0.44	0.87	1.30	6.42	7.52	10.77	4.42	7.69	4.72	2.80	2.41	50.74
Palmyra	0.73	0.68	3.02	2.83	5.82	5.67	3.45	4.02	2.00	3.31	3.90	1.78	67.21
Phillipsburg	0.84	1.37	4.35	3.15	4.74	8.58	2.18	6.63	2.75	2.70	3.85	.....	.....
Pinehill	1.36	1.75	4.44	3.21	3.30	5.10	2.13	5.31	5.66	1.42	2.19	2.69	38.56
Poplarbluff	3.77	2.00	3.04	3.68	1.95	5.87	1.50	7.31	4.84	.....	5.05	7.23	.....
Potosi	1.43	2.60	5.04	3.19	4.43	6.48	2.88	8.10	3.58	1.85	.....	.....	.....
Princeton	0.96	1.02	1.37	2.04	8.58	10.59	8.08	8.70	7.38	2.89	3.35	1.85	56.81
Richmond	0.91	1.22	3.86	1.09	5.24	5.49	7.45	6.79	.....	.....	3.13	.....	.....
Rockport	1.78	0.27	1.57	0.78	5.73	7.08	8.17	2.76	4.83	3.89	3.02	2.44	42.32
Rolla	1.31	1.31	4.15	2.61	5.96	8.15	3.11	8.20	2.57	2.46	4.06	4.82	48.71
St. Charles	1.16	0.90	3.77	2.37	3.52	7.34	3.82	5.94	2.03	3.48	3.49	4.18	42.00
*St. Joseph	1.10	0.14	0.46	0.90	6.46	6.93	6.34	2.94	4.06	3.29	2.00	1.74	36.36
*St. Louis	1.18	0.83	4.50	2.49	3.04	7.86	2.34	5.20	1.98	2.00	3.20	3.81	38.43
Sarcoxie	0.28	1.36	5.31	3.71	5.29	11.25	3.78	5.46	6.11	2.33	4.48	3.08	52.44
Sedalia	1.20	3.01	3.49	2.75	5.30	3.62	7.51	7.06	6.99	1.33	2.87	1.85	46.98
Seymour	1.20	2.44	4.69	4.24	4.86	8.80	2.85	6.22	4.19	3.40	4.41	4.37	51.67
Shelbina	.....	.....	3.61	1.60	4.77	7.89	2.43	4.39	5.58	2.99	3.58	1.46	.....
Sikeston	3.85	1.62	2.68	3.71	2.23	3.64	0.40	4.65	4.65	1.05	4.80	7.16	40.44
*Springfield	1.12	2.18	5.05	3.68	4.26	9.12	4.04	4.80	4.47	3.04	4.20	3.34	49.30
Steffenville	0.95	0.95	2.74	2.28	6.32	6.84	2.71	5.62	3.92	2.59	3.05	2.57	40.54
Sublett	1.20	0.70	2.05	3.02	3.62	8.69	5.89	6.07	5.63	.....	.....	.....	.....
Trenton	1.20	0.82	1.49	2.30	4.28	5.49	6.01	8.08	5.16	2.97	2.92	2.02	42.74
*Unionville	1.07	1.15	1.82	1.97	3.92	8.52	8.44	9.65	6.25	2.86	3.85	1.98	51.48
Vichy	.....	1.20	5.19	2.67	5.48	8.39	2.16	7.10	2.80	2.63	3.96	4.71	.....
Warrensburg	1.16	2.62	4.93	1.78	4.83	4.26	6.46	6.78	5.06	2.07	2.17	1.68	43.80
*Warrenton	1.23	1.64	3.99	3.11	1.83	5.04	3.02	4.67	3.50	2.95	4.06	3.75	38.79
Wheatland	0.65	2.52	5.85	3.85	9.93	5.44	2.97	8.40	10.92	1.91	3.73	1.95	58.12
Willowsprings	1.45	2.84	3.97	2.46	6.46	6.16	1.56	6.18	5.18	2.53	5.65	4.62	49.06
Windsor	1.47	.....	.....	.....	5.39	5.08	4.93	7.86	.....	1.42	2.06	1.53	.....
Zeitonia	0.64	2.82	4.67	6.88	2.81	6.72	2.40	7.16	3.67	2.66	3.92	3.95	48.20
Montana.													
Adel	0.50	0.35	1.03	0.31	4.45	2.48	2.66	0.85	0.78	0.16	.....	.....	.....
Anaconda	0.39	0.75	1.08	0.90	0.86	[1.32	1.75	0.01	T.	T.	0.79	1.18	9.03
Augusta	0.14	0.49	0.76	0.35	4.16	0.79	.....	0.77	0.36	T.	0.32	1.00	.....
Bigtimber	*0.05	0.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boulder	0.05	0.51	0.39	0.61	2.38	0.70	1.99	0.60	0.41	0.40	1.25	1.05	10.34
Bozeman	0.41	0.66	0.77	1.21	3.90	2.60	0.87	1.13	2.07	.....	1.11	0.73	.....
Butte	T.	1.00	0.75	1.35	3.20	0.75	1.15	0.25	0.10	0.20	0.65	0.90	10.30
Canyon Ferry	.....	1.58	0.48	0.53	4.76	0.86	1.97	0.35	0.35	0.80	0.43	0.74	.....
Chester	0.00	0.50	T.	.....	0.58	3.64	.....	.....	.....	.....	.....	.....	.....
Columbia Falls	1.55	1.50	0.80	0.79	6.57	3.66	2.52	1.88	1.48	T.	2.77	3.48	26.50
Crow Agency	0.05	0.74	1.22	1.75	3.03	1.10	0.95	0.90	0.45	0.20	0.15	0.70	11.24
Culbertson	T.	1.08	0.82	0.44	3.01	3.91	2.04	0.82	T.	0.62	0.53	0.33	13.60
Deerlodge	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.06	.....
Dell	.....	.....	.....	2.18	0.42	0.16	0.08	.....	.....	.....	.....	.....	.....
Dillon	0.99	0.45	0.96	4.95	2.47	1.74	1.18	1.26	0.24	0.16	1.21	0.56	16.17
Ekalaka	.....	.....	.....	0.85	3.42	1.41	1.89	1.79	.....	.....	.....	0.60	.....
*Fort Benton	0.40	0.60	T.	0.22	.....	.....	1.22	0.27	0.18	0.04	0.10	0.90	.....
Fort Logan	0.00	0.05	2.80	0.14	3.21	1.75	1.98	T.	T.	0.90	1.00	0.12	11.95
Glasgow	0.20	1.40	1.24	0.51	.....	1.77	0.03	0.32	0.15	0.23	1.39	0.54	.....
*Glendive	0.50	1.60	2.90	0.30	4.81	2.87	1.75	2.50	0.15	0.30	1.00	1.50	20.18
Greatfalls	0.16	1.02	0.19	0.05	5.93	4.02	2.14	0.55	0.74	0.07	0.45	0.39	15.71
Hamilton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.08	1.41	.....
*Havre	0.24	0.27	0.09	0.15	4.77	3.80	0.79	0.66	0.42	0.24	0.99	0.52	12.94
*Helena	0.14	0.46	0.58	0.60	3.61	0.46	1.98	0.32	0.39	0.21	0.59	0.75	10.09
*Kalispell	0.77	1.67	0.46	0.59	4.50	1.51	2.65	0.95	0.76	0.16	2.95	2.24	19.21
Kipp	0.10	0.70	0.57	0.05	5.95	3.35	3.74	0.68	.....	0.30	1.55	1.90	.....
Lewistown	0.55	1.30	.....	2.00	4.00	6.00	3.60	0.70	0.40	T.	0.65	1.30	.....
Livingston	0.04	0.29	0.18	1.90	0.76	1.75	0.25	1.00	0.80	.....	.....	0.13	.....
Manhattan	0.05	0.44	0.55	0.55	3.90	[1.31	1.30	0.00	1.14	0.01	0.70	.....	.....
Marysville	0.25	1.05	1.15	0.35	4.55	0.62	3.36	0.92	0.43	0.18	2.66	1.85	17.37
*Miles City	0.05	0.31	1.15	0.67	2.86	2.21	1.12	1.34	0.47	0.10	0.10	0.22	10.60
Missoula	0.46	0.64	0.40	1.44	4.53	0.48	.....	0.25	0.46	0.25	1.94	.....	.....
Ovando	0.97	2.44	0.61	1.02	5.28	.....	3.19	*1.18	0.81	.....	3.76	.....	.....
Parrot	0.04	0.39	0.09	1.41	2.69	1.09	1.01	.....	0.45	0.35	.....	.....	.....
Plains	0.35	1.10	0.10	0.55	3.47	1.03	4.74	0.78	0.87	0.15	2.60	2.40	17.84
Poplar	T.	1.58	0.56	0.50	3.12	2.81	1.18	.....	0.39	0.79	0.65	1.06	.....
Redlodge	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.50	.....
Ridgelawn	0.11	0.88	1.17	0.42	2.85	3.77	0.85	0.84	0.06	.....	0.83	1.17	.....
St. Pauls	0.25	0.64	0.14	0.92	5.63	4.01	0.52	2.31	0.78	0.30	0.74	1.01	17.25
St. Peter	0.56	0.38	0.56	0.26	6.64	4.25	2.53	0.43	0.80	0.38	0.68	0.30	17.77
Springbrook	0.37	1.03	2.76	0.77	2.64	3.14	1.27	1.87	0.23	0.80	0.67	1.36	16.91
Toston	0.03	0.76	.....	.....	3.17	1.12	1.41	0.61	0.29	0.14	0.20	0.87	.....
*Townsend	0.20	0.43	0.72	0.64	3.54	1.47	1.09	0.44	0.18	0.25	0.60	0.58	10.14
Troy	2.17	2.89	1.28	1.72	3.64	0.62	5.44	0.61	1.51	0.63	5.91	5.81	32.03
Twin Bridges	0.35	0.80	0.22	1.52	3.70	0.70	0.80	0.65	0.10	0.30	0.70	.....	.....
Twodot	0.20	1.40	1.45	0.50	2.85	0.95	1.10	T.	0.50	0.50	2.50	1.80	13.75
Utica	0.14	0.24	0.45	1.72	1.41	3.28	1.84	0.67	0.32	0.18	2.04	0.25	11.94
Wibaux	.....	0.25	.....	1.40	3.33	2.95	.....	.....	.....	.....	.....	.....	.....
Winston	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.30	0.75	.....
Yale	0.50	1.00	1.75	0.99	1.20	2.98	2.44	0.87	T.	0.09	0.94	0.80	13.56

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska.													
Agate	0.33	0.34	1.90	1.21	1.58	4.71	2.13	0.22	1.38	0.68	0.40	1.60	16.48
Agee	0.75	0.68	2.03	1.37	1.60	3.32	3.31	8.67	6.92	0.99	0.15	3.95	33.74
Albion	1.10	0.60	0.97	1.03	3.59	3.33	9.62	3.88	3.58	2.10	0.17	1.00	30.97
Alliance	0.60	0.50	1.41	2.30	1.20	4.45	1.60	2.00	2.55	.....	.....	1.55	.....
Alma	0.83	0.54	0.95	0.48	6.61	4.30	7.34	1.51	3.75	2.47	T.	1.18	29.96
Ames	0.50	T.	0.89	1.32	2.91	6.76	7.86	2.68	3.24	2.41	1.48	2.08	32.13
Ansley	0.52	0.57	0.88	1.03	4.41	4.08	5.64	3.12	3.19	2.24	T.	1.10	26.78
Arapahoe	0.40	0.35	0.59	2.98	5.72	.....	4.06	1.44	2.80	.....	0.20	0.70	.....
Arborville	0.60	0.35	1.05	1.04	5.79	11.15	8.50	4.21	3.69	4.00	0.51	0.59	41.48
Arcadia	0.40	0.55	1.60	1.25	6.74	3.25	7.88	.....	3.40	0.35	T.	0.60	.....
*Ashland [1]	1.31	0.02	0.40	0.94	3.22	8.72	13.86	5.41	2.70	2.67	1.49	1.79	42.53
Ashland [2]	.....	T.	0.71	0.88	3.48	9.20	14.51	5.40	2.80	2.40	1.34	.....	.....
Ashton	0.20	0.43	1.88	0.70	5.60	6.58	8.31	4.43	4.62	3.53	0.17	0.85	37.30
Auburn	1.15	0.09	1.09	0.97	7.23	9.42	9.88	3.18	4.98	4.75	2.57	2.18	47.49
Aurora	0.60	0.87	1.42	1.76	5.95	6.85	5.96	2.08	5.68	4.96	0.33	0.80	37.26
Bartley	0.70	0.35	1.21	1.33	5.80	3.22	4.00	2.20	2.78	1.68	0.09	0.55	23.91
Beatrice	1.10	0.14	0.61	0.87	5.68	10.17	7.35	3.97	5.13	2.59	1.90	0.85	40.36
Beaver	0.60	0.35	0.49	0.62	5.82	4.26	6.82	1.53	2.57	2.06	0.04	0.79	25.95
Bellevue	0.94	0.08	0.90	0.71	3.86	6.73	10.24	4.66	2.59	2.78	2.38	2.55	38.42
Benedict	0.60	0.54	0.68	1.57	7.10	9.90	9.31	4.92	3.41	4.01	0.77	1.00	43.81
Benkelman	0.25	0.38	1.00	1.01	7.77	2.70	4.00	1.93	3.70	.....	0.00	1.50	.....
Blair	0.61	0.09	1.25	1.50	2.63	7.91	10.27	3.75	3.72	2.17	1.40	2.08	37.38
Bluehill	0.40	0.60	0.80	0.13	3.57	5.05	11.05	2.60	5.30	3.05	0.37	0.35	33.27
Bradshaw	0.62	0.38	1.41	1.57	7.83	8.97	9.19	5.01	5.50	5.15	1.03	0.70	47.36
Bridgeport	0.30	0.50	1.33	1.00	2.93	5.10	3.31	2.93	3.32	1.04	T.	0.80	22.56
Broken Bow	0.32	0.32	0.76	1.11	5.59	2.76	6.98	2.75	3.93	1.41	0.00	0.72	26.65
Burchard	0.90	T.	0.60	0.75	5.64	8.10	7.81	3.34	4.20	3.51	2.96	1.47	39.28
Burwell	0.60	0.35	1.75	2.13	4.45	5.32	5.73	3.89	5.01	0.81	0.15	0.95	31.14
Callaway	0.70	0.35	1.30	0.90	6.25	3.95	4.40	1.35	3.95	0.95	0.10	0.95	25.15
Cedar Rapids	.....	.....	.....	.....	.....	.....	.....	.....	3.77	2.58	0.22	0.58	.....
Central City	0.60	0.05	1.10	0.92	5.63	7.51	10.16	4.63	3.29	3.52	0.45	0.80	38.66
Chester	1.25	0.35	0.59	0.29	6.11	7.17	10.43	6.34	5.05	2.98	0.92	0.50	41.98
Cody	0.20	T.	.....	0.80	1.76	2.46	0.88	1.62	0.08	0.58	0.18	0.95	.....
*Columbus	0.65	0.14	0.67	1.44	3.64	7.83	8.40	2.40	1.78	3.28	0.47	0.91	31.61
Crete	0.79	0.27	0.40	1.00	4.77	8.36	13.17	2.42	4.69	3.84	1.33	1.84	42.88
Culbertson	0.35	0.25	1.25	1.03	4.27	4.19	4.90	1.13	3.47	2.07	0.10	0.80	23.81
Curtis	1.00	0.60	2.00	1.05	4.81	2.98	4.65	2.35	[3] 2.80	2.45	.....	1.20	.....
Dannebrog	0.65	0.32	1.77	0.57	5.60	5.53	5.86	3.86	.....	2.43	.....	.....	.....
David City	0.85	0.35	.....	.....	.....	.....	.....	2.07	3.07	.....	.....	.....	.....
Dawson	0.84	T.	1.25	1.05	5.34	6.73	12.51	3.44	3.97	3.79	2.76	1.38	43.06
Eden	0.95	0.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Edgar	0.80	0.44	0.90	0.35	4.98	6.33	11.42	4.53	3.74	3.29	0.57	0.39	37.74
Ericson	0.60	0.90	2.80	2.00	4.45	4.05	8.35	3.95	4.00	1.10	0.20	0.90	32.80
Ewing	0.80	0.50	1.24	0.94	2.01	3.67	4.92	2.50	4.03	0.53	0.07	1.20	22.41
*Fairbury	1.14	0.27	0.42	0.83	5.04	12.59	9.33	7.72	4.33	3.25	1.36	0.89	47.17
*Fairmont	0.65	0.42	0.30	0.45	7.51	10.78	8.38	2.27	3.68	3.11	1.18	0.65	39.38
Fort Robinson	0.69	0.65	1.91	1.40	2.56	3.74	1.88	1.52	1.61	0.65	0.25	2.65	19.51
Franklin	0.60	.....	1.15	0.20	3.92	6.95	6.21	.....	7.40	3.06	T.	0.85	.....
Fremont	0.85	0.08	0.86	1.27	2.36	6.68	7.90	2.89	2.90	2.53	1.25	2.20	31.77
Fullerton	0.98	0.39	1.07	0.70	5.67	8.13	6.69	4.45	3.27	3.25	0.45	0.90	35.96
Geneva	0.65	0.63	0.76	0.56	5.26	9.23	9.51	3.06	4.16	3.59	1.67	0.65	39.73
Genoa	0.60	0.40	1.04	0.98	4.55	9.37	7.55	1.99	2.15	3.19	0.32	0.98	33.12
Gering	0.15	0.74	1.26	1.29	2.44	3.63	1.71	1.00	4.12	0.66	0.12	1.13	18.25
Gordon	0.50	.....	0 72	0.62	.....	.....	.....	0.85	0.30	0.80	0.35	.....	.....
Gosper	0.70	.....	0.73	1.00	6.50	6.76	5.06	2.55	2.78	2.26	0.32	1.16	.....
Gothenburg	0.80	0.85	1.88	0.85	6.83	2.71	4.86	2.01	3.97	3.01	0.04	1.10	28.91
Grand Island [3]	0.70	0.27	.....	.....	4.77	5.38	9.37	.....	.....	3.54	.....	.....	.....
Grand Island [3]	0.77	0.48	1.17	1.16	5.47	6.59	10.26	2.56	4.62	4.18	0.22	1.07	38.55
Grand Island [4]	0.46	0.57	1.03	1.28	5.02	6.35	10.44	2.04	4.06	4.38	.....	.....	.....
Greeley	0.45	0.30	2.30	1.25	5.08	3.36	7.08	3.90	3.95	2.00	0.05	0.39	30.11
Guiderock	0.80	0.90	1.00	0.54	4.11	3.62	10.94	2.59	5.91	2.88	0.18	0.85	34.32
Haigler	0.20	0.10	1.12	0.65	5.68	2.16	2.20	2.32	2.61	2.36	T.	0.50	19.90
Harbine	.....	.....	.....	.....	.....	9.77	.....	.....	.....	.....	.....	.....	.....
*Hartington	1.60	0.84	1.49	1.66	2.76	3.44	3.75	4.72	4.85	T.	0.70	2.12	27.93
Harvard	0.70	0.65	1.00	0.29	7.01	5.81	6.73	2.54	4.91	3.25	0.28	0.90	34.07
Hastings	0.72	0.59	1.29	0.42	7.57	6.74	10.62	2.39	3.80	3.87	0.20	0.80	39.01
Hayes Center	0.20	0.46	1.33	0.96	6.02	3.72	2.06	2.39	5.00	1.85	T.	1.45	25.43
Hay Springs	0.20	2.01	3.09	1.26	2.00	5.25	1.71	1.98	1.62	0.78	0.15	1.98	22.03
Hebron	1.27	0.33	0.71	0.65	4.19	7.70	13.30	7.35	4.70	3.32	1.32	1.17	46.01
Hickman	1.20	0.15	0.85	1.03	5.83	.....	11.41	4.12	5.34	2.18	0.43	1.35	.....
Holbrook	0.83	0.35	0.50	0.91	4.48	3.45	2.90	1.62	3.30	1.55	0.20	0.74	20.83
Holdrege	0.50	0.20	1.40	0.75	10.08	7.18	4.68	2.85	.....	3.66	T.	1.20	.....
Hooper	0.67	0.12	1.04	1.84	2.74	6.45	11.40	3.87	4.27	2.89	1.90	2.06	39.25
Imperial	0.41	0.42	1.65	0.97	3.58	4.67	3.86	1.42	4.24	1.25	0.12	1.84	24.43
Johnstown	0.45	0.22	0.74	1.04	1.37	2.24	1.05	.....	4.70	.....	.....	2.40	.....
Kearney	0.75	0.60	2.09	0.66	5.42	4.71	8.66	2.57	4.38	4.13	0.03	0.55	35.15
Kennedy	0.60	.....	1.27	0.88	3.65	4.04	3.66	4.66	1.89	1.39	0.70	2.80	.....
Kimball	0.20	0.75	1.20	1.05	1.94	1.59	2.65	2.04	3.41	0.25	0.20	2.05	17.33
Kirkwood	0.60	0.32	0.60	1.27	2.69	1.65	3.11	8.74	4.64	0.66	0.36	2.70	27.34
Laclede	0.50	0.74	1.10	0.96	4.44	6.93	9.06	2.64	2.89	3.83	0.63	1.10	34.82
Lexington	1.00	0.80	0.86	0.72	5.72	2.98	6.28	3.39	2.64	3.66	0.15	1.04	29.24
*Lincoln	1.02	0.14	0.37	0.67	3.65	8.83	11.35	4.35	4.10	2.81	1.97	1.96	41.22
Lodgepole	0.50	0.30	.....	0.75	1.20	.....	2.37	1.27	.....	.....	.....	1.70	.....
Loup	0.35	0.45	2.37	0.93	5.85	6.46	8.86	5.03	4.80	3.50	0.17	1.00	39.77
Lynch	0.56	0.80	1.79	1.82	1.57	1.71	4.36	6.50	2.98	0.32	0.11	1.99	24.45
Lyons	0.77	0.34	0.78	1.96	0.75	5.46	9.56	4.55	3.64	1.62	0.82	2.09	32.34
McCook	0.52	0.20	1.02	0.86	6.50	2.82	6.84	1.85	3.40	1.11	T.	0.60	25.72
McCool Junction	.....	0.15	0.38	0.65	6.13	10.20	7.59	2.33	3.96	3.37	1.15	0.50	.....
Madison	0.85	0.50	0.65	0.90	3.43	6.65	9.62	4.04	2.74	1.46	0.05	1.26	32.14

[1] Corn and wheat region observer.
[2] Agent B. and M. Railroad.
[3] E. Corbin.
[4] American Beet Sugar Company.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska—Continued.													
Madrid	0.50	0.30	1.00	1.15	4.25	3.15	3.50	.....	.....	0.75	0.20	0.90	.....
Marquette	0.70	0.74	1.14	0.87	5.14	7.57	11.05	3.17	4.35	4.46	0.39	0.95	40.53
Mason City	0.50	0.40	1.00	0.90	3.83	6.05	5.67	2.90	.....	2.03	0.23	1.10	.....
Minden	0.64	0.56	1.77	0.55	8.73	6.33	7.58	2.96	5.16	2.94	0.12	0.91	38.25
Monroe	0.60	0.42	0.96	0.98	3.95	10.66	7.13	2.17	1.86	2.97	0.37	.....	.....
Nebraska City[1]	1.00	0.05	1.52	2.18	5.12	11.73	9.13	4.80	4.45	3.74	1.92	2.30	47.94
Nemaha	1.35	0.10	1.00	0.53	5.40	6.75	9.21	2.90	4.06	3.40	2.65	1.44	38.79
Nesbit	0.49	0.49	1.40	1.33	5.13	1.94	4.52	3.50	3.04	1.36	.....	.....	.....
Norfolk	0.91	0.41	0.94	1.66	3.25	7.11	8.58	5.18	3.93	1.06	0.26	1.35	34.64
North Loup	0.80	0.55	2.38	1.58	5.06	4.89	6.75	4.36	4.22	2.24	T.	0.53	33.36
*North Platte	0.40	0.35	1.42	0.92	7.98	3.46	4.66	1.74	3.34	1.32	T.	0.78	26.27
*Oakdale	0.46	0.25	1.23	2.07	2.56	5.29	6.29	3.28	3.74	0.76	0.09	1.08	27.10
Odell[1]	1.00	0.75	0.39	0.60	5.16	10.73	5.10	6.47	3.40	3.50	3.50	1.50	42.10
*Omaha	0.71	0.13	0.70	0.85	2.88	7.32	7.28	2.86	1.52	2.13	1.38	2.72	30.48
*O'Neill	0.45	0.40	1.94	1.84	2.32	4.12	4.95	5.25	6.57	0.61	0.18	2.10	30.73
Ord	.....	0.28	2.18	1.19	5.89	2.55	5.52	5.33	4.09	1.45	0.00	0.99	.....
Osceola	0.60	0.11	.....	0.85	5.23	8.28	8.16	3.52	2.67	3.60	0.12	.....	.....
Palmer	0.60	0.20	1.50	0.51	4.65	8.24	4.20	4.68	4.93	3.00	0.35	0.70	33.56
Palmyra	0.90	0.30	1.24	0.56	5.42	9.06	12.03	3.78	6.03	2.57	2.38	1.94	46.21
Pawnee City	.....	.....	.....	.....	.....	.....	.....	.....	2.51	4.16	1.95	1.71	.....
*Plattsmouth[2]	.....	.....	1.39	0.88	4.95	7.82	8.93	.....	.....	.....	.....	.....	.....
Plattsmouth[1]	1.19	0.20	1.38	0.85	4.95	7.81	8.93	6.61	2.18	1.75	1.52	1.60	38.97
Purdum	.....	.....	.....	1.27	2.64	4.09	4.50	6.98	3.04	1.95	0.35	1.88	.....
Ravenna[3]	0.80	0.70	1.51	0.46	6.82	3.89	8.96	3.42	5.35	3.95	0.17	1.03	37.06
Ravenna[1]	.....	0.56	1.29	.....	6.28	3.46	.....	2.91	5.74	3.40	.....	.....	.....
Redcloud	0.50	0.70	0.89	0.71	3.80	7.75	13.52	1.99	5.75	2.91	0.72	0.67	39.91
Republican	0.35	0.52	1.40	0.45	4.85	3.98	8.91	1.54	5.41	2.24	.....	0.95	.....
Rulo	1.05	0.10	0.79	.....	7.53	5.90	9.21	3.99	6.57	4.54	2.17	0.87	.....
St. Libory	1.00	0.50	2.08	0.75	6.00	7.21	6.30	4.73	3.26	3.77	0.15	1.10	36.85
St. Paul	0.70	0.49	1.88	0.65	5.65	10.30	5.54	5.38	3.87	3.26	0.20	0.83	38.75
Salem	1.30	T.	1.67	0.82	4.31	7.99	9.05	2.80	4.13	3.78	1.64	2.19	39.68
Santee	0.73	0.67	1.18	0.86	1.35	6.31	5.31	5.73	5.94	0.48	0.20	2.14	30.90
Schuyler	1.10	0.25	0.90	1.20	3.20	5.96	8.72	2.63	3.06	2.95	1.05	1.30	32.32
Seneca	0.50	0.32	0.36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seward	0.90	0.02	0.70	0.84	2.51	8.73	9.65	5.09	4.00	3.60	1.34	1.07	38.45
Smithfield	0.60	0.55	0.68	0.85	7.80	4.39	6.77	2.23	3.36	2.80	0.25	0.80	31.08
Spragg	0.40	0.20	0.52	1.97	2.96	.....	4.75	5.23	5.94	1.27	0.79	.....	.....
Springview	.....	.....	.....	1.20	2.64	1.40	2.00	5.45	1.99	0.52	.....	3.60	.....
Stanton	0.55	0.24	0.81	1.11	1.85	5.48	7.31	6.46	3.91	1.08	0.38	1.64	30.82
State Farm	0.95	0.09	0.35	0.76	3.50	8.60	11.52	4.30	3.94	2.84	2.30	2.23	41.38
Strang	0.70	0.20	.....	0.51	5.13	10.48	10.79	2.45	3.30	2.55	2.10	0.45	.....
Stratton	0.31	0.38	0.74	1.02	5.31	3.35	4.63	2.26	4.77	1.60	0.17	1.30	25.84
Superior	0.90	0.80	0.62	0.15	4.61	8.69	10.45	5.14	4.52	3.52	0.68	0.80	40.88
Syracuse	1.20	0.10	1.45	1.35	7.15	8.87	9.85	3.15	4.70	2.92	3.10	2.01	45.85
Tablerock	0.90	.....	0.86	0.73	5.60	9.79	7.71	2.90	2.75	2.09	1.35	1.36	.....
*Tecumseh[4]	0.90	T.	0.53	0.71	5.01	11.84	9.94	3.16	2.27	2.03	1.88	.....	.....
Tecumseh[5]	0.79	0.11	0.75	0.90	5.58	12.44	9.95	2.98	3.82	4.40	1.93	1.98	45.63
*Tekamah	1.15	0.10	1.05	1.59	1.36	5.48	11.34	5.44	3.41	1.42	1.62	2.48	36.44
Turlington	1.45	0.12	0.76	1.69	6.39	7.97	9.01	4.73	4.31	3.58	2.92	2.74	45.67
*Valentine	0.34	0.20	1.07	0.77	2.17	1.89	1.79	2.93	0.25	0.39	0.53	1.28	13.61
Wakefield	1.42	0.36	0.47	2.22	1.35	5.24	6.13	4.21	3.56	0.72	0.46	2.26	28.40
Wallace	0.42	0.65	1.05	1.98	3.10	3.62	1.75	2.00	3.25	1.25	0.00	0.80	19.87
Wauneta	.....	0.35	0.75	0.75	4.47	5.25	1.19	.....	4.00	.....	.....	.....	.....
Weeping Water	1.34	0.24	1.84	0.81	3.93	9.00	10.26	3.31	3.15	2.81	1.90	2.27	40.86
Westpoint	0.69	0.19	0.57	2.28	1.38	6.66	10.79	4.00	4.16	2.13	0.61	1.94	35.40
Wilber	1.00	0.22	0.50	1.06	7.05	12.89	13.57	2.71	4.49	8.68	1.25	1.13	49.55
Willard	0.94	0.55	0.97	0.85	5.44	3.42	5.04	2.60	3.20	1.45	.....	.....	.....
Wilsonville	.....	.....	0.59	1.04	6.44	3.93	4.81	3.16	2.20	2.56	T.	0.48	.....
Winnebago	0.69	0.25	0.18	2.45	1.92	4.19	8.88	4.07	3.74	0.97	0.97	1.73	30.04
Wisner	0.71	0.20	0.49	1.23	0.98	5.23	9.29	4.23	3.34	1.28	0.24	2.44	29.66
Wymore	1.20	0.45	0.53	0.96	5.27	7.88	6.31	3.02	4.29	2.99	2.70	1.32	36.92
York	0.65	0.30	0.35	1.75	5.31	9.70	6.11	4.20	4.50	3.53	1.07	0.50	38.47
Nevada.													
Amos	0.43	1.34	0.69	0.21	.....	.....	0.55	0.00	0.24	0.00	.....	0.40	.....
Austin	0.43	1.10	1.51	1.18	0.98	0.00	0.48	0.32	0.34	.....	1.26	0.89	.....
Battle Mountain	0.40	0.68	0.85	.....	h0.25	0.00	0.80	0.10	0.19	0.10	0.70	0.00	.....
Belmont	0.18	.....	.....	1.50	0.01	T.	T.	0.31	T.	0.65	1.01	0.10	.....
Beowawe	0.15	1.00	0.90	0.35	0.80	0.00	0.80	0.10	T.	0.40	0.70	0.20	5.40
Butler	.....	.....	.....	.....	T.	0.00	.....	.....	T.	0.60	0.70	.....	.....
Candelaria	0.05	.....	0.45	0.34	0.10	0.13	T.	0.90	T.	0.03	1.40	T.	.....
Carlin	.....	1.10	0.40	0.60	0.20	0.00	.....	0.00	0.00	.....	.....	0.20	.....
*Carson City	0.33	1.71	1.25	0.18	0.20	T.	0.02	0.18	0.12	0.35	0.76	0.45	5.55
Carson City	0.38	2.98	1.66	0.28	0.28	T.	0.06	0.27	0.15	0.49	1.02	0.61	8.18
Cranes Ranch	0.43	1.83	1.61	1.83	0.32	0.12	0.84	0.10	0.12	0.24	0.96	0.16	8.56
Elko	0.40	.....	.....	.....	.....	0.12	.....	.....	.....	.....	.....	.....	.....
Elko (near)	0.80	4.21	3.75	1.45	.....	0.05	.....	0.10	0.00	T.	.....	.....	.....
Ely	0.91	0.65	2.25	1.00	0.39	0.03	0.31	0.26	0.86	0.43	2.40	1.42	10.91
Eureka	.....	.....	5.40	1.55	0.90	0.30	0.50	T.	1.00	0.40	1.10	0.30	.....
Fenelon	0.95	0.69	.....	0.70	0.00	.....	0.30	T.	T.	T.	0.65	.....	.....
Golconda	0.20	1.46	0.70	T.	T.	T.	T.	0.37	0.32	T.	0.45	.....	.....
Halleck	0.32	0.99	0.95	1.00	T.	0.00	2.00	0.25	0.25	0.10	0.47	.....	.....
Hamilton	1.57	3.47	4.15	0.22	0.20	0.25	0.40	.....	.....	.....	.....	.....	.....
Hawthorne	.....	.....	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	.....
Humboldt	0.20	0.34	0.68	0.65	0.10	0.00	1.02	T.	0.25	T.	0.95	T.	4.19
Lee	0.89	2.98	2.97	2.68	1.46	0.25	1.51	T.	.....	0.45	.....	0.24	.....
Lewers Ranch	1.13	7.19	3.33	1.58	1.00	0.00	0.20	0.28	0.25	1.71	3.90	2.79	28.36
Lovelocks	0.10	1.00	0.13	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.55	0.00	2.43
Martins	0.35	1.84	1.07	T.	0.00	0.00	T.	0.17	0.12	0.37	1.30	0.22	5.44

[1] Agent B. and M. Railroad. [2] River observer. [3] E. Smith. [4] Corn and wheat region observer. [5] L. E. Pratt.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nevada—Continued.													
Mill City	0.14	0.55	0.35	0.20	0.15	0.00	0.10	0.00	0.50	0.00	0.20	0.00	2.19
Monitor Mill	0.50	0.46	2.30	1.12	0.35	0.07	0.26	0.28	0.44	0.38	2.04	.....	.....
Morey	.....	.....	.....	.....	.....	.....	.....	0.35	0.12	1.10	3.13	0.35	.....
Owyhee	0.57	1.10	0.77	0.84	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palisade	0.57	2.98	1.85	1.07	0.08	0.18	0.96	0.00	0.00	0.39	0.45	0.20	8.73
Palmetto	0.20	1.10	2.90	1.15	1.11	T.	1.18	2.13	0.38	0.48	3.83	0.20	14.66
Potts	0.54	0.57	2.62	0.15	.....	0.00	.....	0.06	0.01	0.15	1.74	0.27	.....
Reno State University	0.15	1.40	1.73	0.10	T.	0.00	0.25	0.42	0.09	0.10	0.50	0.20	4.94
Rioville	.....	.....	.....	.....	T.	0.00	T.	0.22	0.00	0.00	1.33	0.44	.....
Silverpeak	*T.	.....	0.30	0.12	T.	0.00	T.	.....	0.00	0.20	.....	.....	.....
Sodaville	T.	0.34	0.15	0.08	0.15	0.00	0.05	0.22	T.	T.	0.74	T.	1.68
Tecoma	0.35	0.50	0.60	0.50	0.17	T.	0.09	0.00	0.84	T.	0.47	T.	3.52
Toano	0.08	0.45	1.15	0.88	0.06	0.00	0.24	0.00	0.27	0.15	0.79	0.64	4.71
Tybo	0.60	0.90	1.71	0.45	.....	T.	.....	.....	.....	.....	.....	.....	.....
Verdi	1.00	.....	T.	T.	T.	.....	.....	.....	.....	.....	.....	.....	.....
Wabuska	.....	0.23	0.40	T.	T.	0.00	T.	0.50	T.	0.15	0.15	0.00	.....
Wadsworth	0.55	0.97	0.70	0.67	1.33	0.00	0.30	0.15	0.00	0.00	0.40	0.15	5.22
Wells	0.60	0.80	2.20	T.	.....	0.00	0.76	0.00	0.00	.....	0.60	0.20	.....
*Winnemucca	0.13	1.47	0.46	0.34	0.21	0.09	0.98	0.02	0.72	0.02	0.57	0.08	4.99
Wood	0.38	1.88	1.25	0.91	0.36	0.00	0.40	0.02	0.22	0.28	0.72	1.75	8.17
New Hampshire.													
Alstead	2.88	2.10	5.95	5.52	4.36	4.84	7.85	3.53	5.37	4.77	1.24	6.76	55.17
Berlin Mills	3.41	2.16	5.03	3.04	4.00	4.05	3.69	4.32	3.37	3.43	0.86	3.30	40.66
Bethlehem	1.18	2.14	4.96	3.38	5.07	5.30	4.28	3.39	3.35	5.09	1.54	2.76	42.44
Brookline	2.65	3.80	4.80	5.50	2.33	3.06	4.05	5.64	4.95	6.13	0.90	4.50	47.81
Chatham	5.88	2.50	7.10	4.10	5.15	5.20	3.85	3.80	6.70	5.15	1.28	3.40	54.11
Claremont	.....	.....	.....	.....	2.41	5.10	4.01	4.28	6.09	.....	.....	.....	.....
Concord	2.54	2.87	5.52	4.87	2.38	3.12	4.69	5.20	5.25	4.41	0.98	6.14	47.47
Durham	2.77	4.33	7.25	4.68	1.22	4.04	3.39	5.81	5.74	4.61	0.79	5.87	50.50
Franklin Falls	2.81	2.11	6.00	5.15	2.22	4.75	.....	4.99	5.30	4.95	1.30	6.12	.....
Grafton	3.48	1.74	6.49	4.17	3.69	4.02	5.29	3.36	5.42	4.09	1.01	5.28	48.04
Hanover	1.56	2.00	3.80	4.24	3.57	3.81	3.91	3.38	4.70	4.23	1.16	4.29	40.65
Keene	1.99	2.32	3.86	3.79	3.40	3.98	4.95	4.26	4.18	4.14	0.82	5.55	43.24
Littleton	1.91	3.02	3.54	4.65	5.73	4.56	4.13	2.81	3.11	4.64	1.97	2.03	42.10
*Manchester	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.87	5.45	.....
Nashua	2.15	4.27	5.32	5.54	3.08	2.05	3.33	7.12	4.17	5.96	0.17	6.16	49.92
Newton	1.99	5.29	5.00	5.52	2.30	3.29	3.68	4.09	3.62	5.24	0.86	4.48	45.36
*North Stratford	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.15	2.65	.....
Peterboro	2.74	3.69	4.95	6.21	2.52	3.15	3.85	4.64	4.52	4.88	0.99	7.09	49.23
Plymouth	2.27	1.83	4.37	3.41	3.02	4.52	3.20	3.86	5.72	4.27	1.16	5.22	42.85
Sanbornton	2.49	1.78	4.68	3.83	2.78	4.17	4.11	6.14	5.11	4.13	1.30	5.43	45.95
*Sewalls Falls	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.82	5.52	.....
Stratford	1.08	1.60	3.79	2.74	5.43	5.04	3.14	5.16	5.22	4.06	1.87	3.63	42.76
*West Stewartstown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.95	3.19	.....
New Jersey.													
Asbury Park	2.52	6.29	4.84	2.82	1.40	7.91	3.59	3.32	3.69	6.69	3.08	8.71	54.86
*Atlantic City	2.97	5.53	4.26	2.52	1.71	6.14	2.83	3.36	5.32	5.37	3.42	7.15	50.58
Barnegat	.....	.....	.....	.....	.....	.....	2.49	1.87	5.05	7.93	1.47	8.93	.....
Bayonne	2.87	5.79	4.60	3.31	1.33	6.78	3.06	2.74	4.46	6.77	1.39	6.88	49.98
Belvidere	3.13	7.05	4.45	3.57	1.48	6.65	6.21	4.11	8.83	5.62	1.65	8.99	61.74
Bergen Point	3.45	6.15	3.95	3.83	1.31	6.49	4.30	2.90	4.53	7.37	1.61	7.75	53.64
Beverly	2.82	4.85	3.75	3.50	2.10	6.02	5.71	7.23	4.95	7.55	2.41	6.70	57.69
Blairstown	3.41	.....	4.16	3.33	1.86	5.47	5.96	2.64	6.89	5.13	0.97	6.65	.....
Bridgeton	3.95	6.27	4.42	4.65	1.70	7.23	4.54	2.55	5.61	4.61	4.17	6.29	55.99
Camden	3.46	5.83	4.09	3.77	2.50	6.59	6.34	4.26	5.34	7.07	2.20	7.29	58.74
Canton	.....	.....	.....	.....	.....	.....	8.90	1.31	4.80	5.66	3.18	5.83	.....
*Cape May	3.11	5.46	3.87	3.46	2.13	4.93	1.94	3.58	6.55	3.82	3.24	5.81	47.90
Cape May court-house	3.12	5.55	4.47	3.00	1.94	5.88	1.83	2.64	6.09	5.37	4.11	6.34	50.34
Charlotteburg	4.35	6.85	4.40	5.36	2.31	6.61	4.37	4.09	7.86	6.06	1.30	6.85	60.41
Chester	3.84	5.31	5.60	5.00	2.70	5.27	9.92	4.75	7.04	6.90	1.85	6.15	64.31
Clayton	3.81	6.25	4.27	3.51	1.71	7.68	2.95	2.26	4.05	5.63	3.16	6.11	51.34
College Farm	2.70	6.46	3.79	3.09	1.51	6.08	3.42	6.29	5.25	7.76	1.58	6.83	54.76
Culvers Lake	.....	.....	.....	4.43	3.57	5.42	5.02	3.93	8.56	5.60	0.93	8.01	.....
Dover	4.81	6.93	5.05	4.75	2.17	5.35	8.51	5.31	7.06	6.08	1.29	7.79	64.60
Egg Harbor City	3.52	5.45	4.38	3.88	1.72	9.13	4.13	3.08	5.30	6.36	3.58	7.33	57.81
Elizabeth	3.74	7.88	4.46	3.93	1.89	6.94	4.52	2.61	5.14	7.15	1.35	6.91	56.47
Englewood	2.95	6.13	4.68	3.75	1.66	6.71	3.79	3.81	4.33	6.73	1.51	6.93	52.98
Flemington	3.13	5.84	4.20	3.69	2.05	5.08	6.78	4.02	5.92	6.46	1.27	5.85	58.74
Freehold	3.36	.....	4.47	3.57	1.92	6.33	4.00	3.84	3.70	.....	2.48	7.89	.....
Friesburg	3.21	5.35	4.11	4.14	1.52	9.30	5.04	1.71	4.31	6.28	3.28	5.98	54.23
Hanover	3.88	8.44	4.80	5.99	3.50	6.17	6.73	9.50	7.04	6.60	0.96	7.95	71.56
Hightstown	3.53	6.56	3.33	3.33	2.29	6.93	4.70	3.05	5.15	9.35	2.29	7.28	57.79
Imlaystown	2.93	6.19	4.44	3.03	1.77	5.11	1.87	3.93	3.87	6.74	2.46	6.39	48.73
Indian Mills	2.89	6.40	4.22	3.34	1.52	8.58	5.08	2.70	5.01	5.61	3.31	7.84	56.50
Lakewood	2.91	5.97	3.92	2.45	2.20	8.05	3.61	3.14	3.11	6.92	2.47	7.44	51.19
Lambertville	2.60	5.66	4.46	3.52	2.21	6.33	5.03	4.46	5.53	6.12	1.60	7.89	54.91
Layton	2.96	4.29	3.36	2.59	1.11	4.54	8.23	2.97	8.95	4.68	0.88	7.06	51.62
Moorestown	2.95	6.45	4.22	3.63	2.45	7.30	7.05	8.44	5.29	7.59	2.50	7.34	65.21
Mount Pleasant	2.38	4.37	3.70	2.78	1.15	6.83	3.68	4.19	6.71	5.90	3.37	6.40	51.46
Newark	2.77	5.35	4.94	3.57	1.58	7.15	3.02	2.00	5.05	7.06	1.12	7.37	50.98
New Brunswick	3.18	6.92	4.83	3.09	1.70	6.35	5.92	5.51	5.75	7.80	1.66	7.76	60.47
New Egypt	2.48	6.33	3.82	2.45	1.58	6.30	3.65	2.42	3.94	5.38	2.50	5.89	46.24
Newton	3.56	6.33	3.96	4.07	3.18	6.60	7.99	3.49	7.99	5.54	1.43	6.87	61.00
Oceanic	2.79	6.42	5.01	2.39	1.24	6.58	3.79	4.77	4.66	6.50	2.74	7.55	54.44
Paterson	3.91	8.15	5.79	3.99	3.87	6.23	2.97	6.19	7.15	5.64	1.09	8.33	62.81
Pemberton	.....	.....	.....	2.95	1.46	6.71	4.05	2.97	4.42	5.89	2.68	6.78	.....
Perth Amboy	.....	.....	.....	.....	.....	.....	.....	4.28	4.88	7.75	1.68	.....	.....

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New Jersey—Continued.													
Piscataway town	2.72	7.20	4.17	2.68	1.48	6.60	4.22	3.29	5.10	7.22	1.49	6.15	52.32
Plainfield	3.24	7.65	4.66	3.87	1.47	5.67	4.71	3.87	5.66	7.24	1.50	7.60	57.14
Rancocas	3.33	5.46	3.65	2.97	2.67	6.86	4.63	7.14	5.44	7.10	2.55	6.94	58.74
Ringwood	4.06	6.70	6.09	4.17	3.24	5.93	4.74	3.80	6.42	5.15	0.81	5.57	56.68
Rivervale	4.07	7.53	7.20	2.64	4.63	5.77	3.05	2.62	7.23	3.96	1.46	8.16	58.32
Roseland	3.40	6.90	4.79	3.54	2.20	5.86	6.16	5.89	6.15	6.08	1.08	7.45	59.50
Salem	3.15	6.87	3.84	4.88	1.99	8.02	7.39	1.90	4.55	6.85	3.30	7.11	59.85
Somerville	2.94	5.77	4.49	3.73	1.84	5.33	5.52	8.30	5.72	6.71	1.41	7.71	59.47
South Orange	3.01	5.69	4.52	3.45	1.91	6.08	4.71	2.91	6.20	6.97	1.24	7.46	54.15
Sussex	3.23	5.30	3.64	4.49	4.33	5.12	6.93	2.92	6.24	5.29	0.87	8.11	56.47
Three Bridges	3.54	7.25	3.70	3.65	2.33	5.28	7.14	3.23	5.71	6.21	1.65	7.26	56.95
Toms River										4.66	3.52	7.51	
Trenton	3.36	5.94	3.40			5.67	5.80	10.67	5.88	7.32	1.99	4.86	
Tuckerton	3.70	5.02	3.81	2.78	1.22	7.89	1.86	2.48	6.20	7.93	3.96	8.19	55.04
Vineland	3.81	7.37	4.45	3.61	1.35	8.16	3.68	2.10	5.44	5.37	3.72	6.85	55.91
Woodbine	3.73	6.45	5.33	3.56	2.34	6.74	2.30	2.32	7.37	5.68	3.50	6.69	56.01
Woodstown	3.21	6.43	4.06	4.18	1.56	10.21	4.72	1.60	5.16	6.23	3.16	6.55	57.27
New Mexico.													
Alamogordo	T.	0.16	0.22	0.00	T.	0.17	1.38	3.39	0.53	0.65	0.15	0.60	7.25
Albert	0.08	0.00	0.24	0.58	3.76	0.47	1.19	2.58	T.	0.47	0.84	0.75	10.96
Albuquerque	0.32	T.	T.	0.00	0.23	T.	1.20	0.70	0.55	T.	1.10	0.84	4.94
Alma	0.62	0.65	0.38	T.	0.80							1.61	
Arabela	1.05	0.40	0.25	T.	1.96	0.83		3.04	0.20		0.45	0.51	
Aztec	0.76	0.31			0.77	0.45	0.10	1.51					
Bellranch	0.22	T.	0.10	0.18	1.14	1.72	1.34	2.38	0.20	0.36	0.54	0.53	8.71
Bluewater	1.35	0.30	0.60	T.	0.70	T.	T.	3.00	0.20	T.	0.30	0.60	7.05
Cambray	0.00	0.04	0.05	0.00	0.24	0.32	0.67	1.72	1.53	0.02	0.60	1.45	6.64
Carlsbad	0.30	0.00	0.22	T.	0.14	3.54	10.50	4.02	1.02	1.43	0.57	0.68	22.42
Clouderoft	1.23	0.50	1.45						2.26	0.14	1.31	2.00	
Deming	T.	T.	T.	0.00	0.20	0.00	0.91	1.61	0.36	0.01	0.27	1.30	4.66
Dorsey							2.04	2.89	0.54	T.	0.85	0.80	
East Lasvegas	0.20	T.	T.	0.06									
Eastview					1.60	0.76	0.19	4.98	1.80	0.37	1.76	2.77	
Engle	0.00	0.00	0.03	0.00	T.	T.	1.34	3.32	0.70			0.30	
Espanola					0.75	0.05	0.80	2.49	0.92	0.16	0.87	0.30	
Folsom	0.35	0.80	1.62	0.14	3.82	1.10	0.96	1.71	0.26	0.69	0.39	0.63	12.47
Fort Bayard	0.15	0.35	0.04	0.00	0.31	0.53	0.91	7.13	2.16	0.26	0.83	3.00	15.67
Fort Stanton	0.05	0.38	0.22	0.00	1.88	0.24	2.28	1.87	0.48	1.81	0.16	0.57	9.94
Fort Union	0.07	T.	0.60	0.05	2.00	0.15	1.68	3.05	0.55	0.42	0.58	0.84	9.89
Fort Wingate	1.95	0.59	1.04	0.66	1.56	T.	0.68	1.72	1.62	0.06	1.27	1.22	12.37
Gage	0.00	0.30	0.00	0.00	0.00	0.24	1.45	3.02	1.10	0.10	0.52	1.30	8.03
Gallisteo	0.20	0.05	0.05	0.00	2.14	0.00	1.73	1.49	0.49	0.00	0.95		
Gallinas Spring	0.15	0.08	0.02	T.	1.02	0.60	2.52	1.51	0.46	0.70	0.33	0.67	8.06
Horse Springs	1.35	0.24	0.31	0.05	1.85	0.11	0.92	3.24					
Las Vegas	0.10	0.10	0.01	0.06	1.95	0.30	1.91	1.83	1.33	0.47	0.79	0.93	9.78
Las Vegas Hotsprings	T.		T.	0.00	3.06	T.	1.85	2.50	0.94	0.63	1.21	1.20	
Lordsburg	T.	0.10	T.	0.00	0.00	0.20	0.85	2.55	0.40	0.13	0.52	1.12	5.87
Los Lunas		0.00	0.00	0.00	0.25	T.	0.50						
Lower Penasco	0.80	0.00	0.20	T.	0.35	0.30							
Mesilla Park	0.02	T.	0.05	0.00	0.01	0.07	2.16	5.77	1.22	T.	0.61	0.99	10.90
Olio		T.	T.	0.00	0.31	T.	T.	0.31				0.12	
Raton	0.25	0.80	1.50	0.18	1.19	0.30	0.08	3.50	0.01	0.00	0.11	0.22	8.14
Roswell	1.24	0.00	0.83	T.	0.70	1.03	5.52	1.80	3.08	1.36	0.52	0.50	16.58
San Marcial	T.	T.	0.00	0.00		T.						T.	
*Santa Fe	0.28	0.43	1.13	0.02	2.84	0.34	1.60	2.47	2.05	0.59	0.93	0.78	13.36
Socorro	0.66	0.06	T.	0.00	0.27	0.13	0.96						
Springer						0.07							
Strauss	0.04	T.	T.	0.00	0.00	0.07	0.73	1.47	0.42	0.30		1.50	
Taos	0.50	0.15	0.97	T.	1.90	T.	0.53	2.57	0.98	0.30	2.00	0.85	10.75
Winsors Ranch	1.30	0.52	0.98	0.14	3.71	0.49	2.73	3.97	2.28	1.22	1.47	1.85	20.66
Woodbury	0.65	0.35	0.22	0.00	0.88	0.07	0.48	2.29					
New York.													
Adams	3.80	7.44	4.30	2.34	6.16		5.70	3.08	2.84	4.60	1.35	3.16	
Addison	2.30	1.42	2.57	2.41	2.26	5.37	6.85	2.91	3.55	2.84	0.89	2.50	35.87
Adirondack Lodge	1.80	4.61	9.40	7.33	6.13	7.59	7.63	6.05	3.33	6.60	4.08	3.73	68.28
Akron		1.71	1.89	3.16	2.32	4.28	6.82	2.22	3.43	2.61	1.15	2.48	
*Albany	0.67	3.04	3.24	2.33	1.91	3.91	5.37	3.98	4.15	2.80	0.95	5.13	37.48
Alden	2.57	2.18	1.46	4.25	3.74	4.98	7.03	1.64	2.68	3.73	1.32	3.33	38.91
Amsterdam											1.11	7.15	
Angelica	2.80	1.80	2.53	3.76	3.97	5.79	12.46	3.35	4.46	2.06	0.79	1.96	45.72
Appleton	2.80	0.83	1.31	2.71	1.64	4.54	8.26	1.76	3.54	2.08	1.66	1.51	32.74
Arcade						6.15	10.51	2.95	4.52	4.39	1.97	2.63	
Athens	0.97	4.52	5.60	2.08	1.85	5.04	6.09	2.66	5.90	3.74	1.11	6.29	45.85
Atlanta	2.83	1.94	2.27	3.60	2.97	5.19	10.21	1.93	2.83	3.25	1.39	2.59	41.00
Auburn	0.94	2.07	1.64	2.59	4.05	6.62	7.48	3.44	1.61	3.71	1.94	2.95	39.04
Avon	1.33	1.22	1.58	2.23	2.06	3.75	6.66	1.95	1.72	2.36	1.25	1.41	27.52
Axton	1.68	3.45	4.68	4.40	5.10	5.38	4.60	3.70	1.26	7.26		2.96	
Baldwinsville	2.51	3.69	3.07	2.41	3.98	6.00	6.27	2.08	2.35	2.78	2.10	4.32	41.51
Bedford	2.50	5.95	4.33	4.46	3.65	4.75	3.78	1.48	8.35	6.19	2.02	5.30	52.76
*Binghamton	1.13	2.31	3.54	1.49	1.93	6.84	5.51	2.13	4.75	3.08	1.07	2.92	36.70
Blue Mountain Lake		2.20	4.35	3.79	6.85	5.50	7.20	5.30	2.45	4.25	2.15	3.45	
Bolivar	2.27	1.99	2.11	3.62	3.14	6.66	10.87	2.68	2.98	2.68	1.56	3.08	43.64
Bouckville	1.88	4.61	3.70	1.56	3.53	6.25	7.25	3.13	2.99	5.59	1.53	5.37	47.39
Boyds Corners	2.77	6.81	7.49	4.47	3.44	4.63	3.81	2.91	6.13	5.38	0.91	7.59	56.37
Brockport	3.11	1.46	1.84	3.33	1.34	4.61	4.93	2.73	2.98	2.13	1.52	3.25	33.23
Browns Station							5.86	1.19	8.67				
*Buffalo	4.01	2.33	1.81	2.04	1.85	4.20	4.58	1.72	2.73	3.09	1.03	3.57	32.91
Caldwell	2.45	2.78	5.92	3.72	3.24	4.65	6.76	2.82	4.59	4.88	1.76	6.01	49.38
Canaan Four Corners	1.14	2.21	3.47	3.25	2.99	7.01	8.47	3.23	6.14	4.57	0.90	3.40	46.78

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New York—Continued.													
Canajoharie	1.37	2.84	4.04	2.58	2.27	3.64	5.73	2.11	4.27	3.90	1.08	5.43	39.26
Canton	2.24	2.85	2.67	3.10	3.30	5.67	.....	.....	.....	.....	1.29	2.31	.....
Carmel	2.92	5.13	5.93	4.66	3.49	4.98	5.21	2.76	6.79	6.32	0.89	7.30	56.38
Carvers Falls	0.81	1.40	5.04	3.57	3.37	4.79	3.95	3.48	3.06	4.84	1.24	3.51	39.06
Catskill	3.36	4.88	5.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cedarhill	0.68	2.71	3.25	2.19	2.69	3.54	5.71	4.43	5.48	2.62	0.89	3.58	37.77
Cooperstown	1.04	2.89	3.70	3.10	2.76	5.43	9.17	3.05	4.39	4.00	1.48	4.30	45.31
Cortland	1.25	1.35	3.20	1.21	2.79	5.03	10.12	3.68	2.51	3.59	1.07	4.78	40.58
Cutchogue	2.11	5.81	6.74	3.85	0.84	5.61	2.28	1.77	5.49	5.56	1.86	7.52	49.24
Dekalb Junction	1.76	2.17	3.91	2.47	3.48	4.62	2.72	2.14	0.50	2.53	1.86	3.90	31.86
Easton	2.35	2.32	3.38	.....	.....	4.00	7.77	4.35	3.10	3.92	1.20	4.23	.....
Elba	3.40	2.60	1.52	2.55	1.76	4.05	9.76	2.29	2.13	2.67	0.85	3.53	37.11
Elmira	1.93	1.46	2.63	1.71	2.02	4.12	7.84	2.91	3.53	3.30	0.88	1.96	34.29
Fayetteville	1.09	3.26	3.02	2.35	3.97	6.10	6.99	4.17	2.02	4.08	1.72	3.13	41.90
Franklinville	2.39	2.45	1.92	3.46	3.97	4.68	10.09	2.31	3.40	3.59	1.65	2.75	42.66
Gabriels	1.52	2.87	3.98	3.69	3.63	5.04	3.34	3.12	1.91	.....	.....	.....	.....
Gansevoort	1.85	3.00	6.28	3.41	3.04	3.73	6.43	2.08	3.90	6.12	1.22	6.65	47.71
Glens Falls	1.56	2.03	6.47	3.24	2.12	4.30	6.43	1.55	3.85	4.44	0.89	5.83	42.71
Gloversville	1.85	3.13	3.94	3.74	2.14	5.48	7.38	2.09	4.28	4.22	1.62	7.01	46.88
Greenwich	1.29	1.40	5.95	1.88	3.10	3.02	6.67	2.85	3.00	3.90	1.24	4.59	38.89
Griffin Corners	1.83	2.53	3.39	2.96	2.11	6.28	7.93	5.23	8.23	4.84	0.99	5.03	51.35
Harkness	.....	.....	.....	.....	3.31	4.08	3.93	2.00	1.77	2.95	1.57	1.46	.....
Haskinville	1.50	1.26	1.24	1.80	2.55	5.30	9.27	1.80	4.33	2.76	1.37	1.90	35.08
Hemlock	1.41	2.15	1.58	2.36	2.28	4.63	8.73	1.48	2.27	2.68	1.21	1.75	32.48
Honeymead Brook	2.55	3.54	3.96	4.41	3.03	4.87	6.74	1.31	6.62	4.12	0.60	5.80	47.55
Humphrey	2.69	3.53	2.55	3.58	4.28	6.72	9.68	3.38	6.20	3.50	.....	.....	.....
Indian Lake	2.01	2.38	1.65	5.68	4.06	5.63	8.31	4.14	3.28	5.42	1.77	3.55	47.88
*Ithaca	1.36	1.41	3.04	1.31	2.05	5.39	6.69	3.13	2.70	3.36	0.99	4.30	35.73
Jamestown	2.34	1.89	1.90	3.18	3.32	5.23	9.12	2.71	4.18	2.91	1.57	3.62	41.97
Jay	.....	.....	1.98	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Keene Valley	2.65	3.50	6.58	4.91	3.49	5.46	5.27	2.72	2.79	5.75	2.12	3.41	48.65
King Ferry	1.40	1.99	3.12	1.33	2.57	4.17	7.81	2.52	2.42	4.61	1.34	3.23	36.51
Liberty	.....	.....	.....	.....	1.82	5.44	6.83	3.65	8.24	3.73	0.55	.....	.....
Littlefalls (City Reservoir)	1.27	2.99	3.23	1.72	3.63	6.40	9.07	2.12	3.77	4.40	1.74	3.47	43.81
Lockport	.....	.....	a1.21	2.71	1.55	4.03	5.73	1.92	2.76	2.60	1.56	1.97	.....
Lowville	1.90	3.41	4.80	3.13	4.21	4.75	7.37	3.55	2.39	4.15	2.57	3.73	45.96
Lyndonville	3.39	1.39	0.90	2.26	2.05	4.25	6.26	2.85	2.26	.....	.....	.....	.....
Lyons	1.82	2.49	2.05	2.31	3.03	3.39	6.77	2.22	2.57	2.79	1.53	3.82	34.79
Mayle	4.57	1.99	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Meredith	3.47	3.04	4.14	3.75	3.41	8.37	8.19	2.68	6.69	.....	.....	.....	.....
Middletown	1.75	4.91	3.72	4.63	2.92	3.38	5.00	4.49	5.53	4.48	0.85	6.48	48.14
Mohonk Lake	3.44	4.32	6.32	4.09	2.78	5.57	9.75	2.86	7.69	5.90	1.17	6.86	60.75
Moira	2.89	2.80	3.98	2.60	3.80	4.29	4.61	2.98	1.36	2.44	1.26	.....	.....
Mount Etrick	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.69	1.63	.....	.....
Newark Valley	1.54	2.04	4.54	2.56	2.80	7.26	7.70	2.87	4.43	3.59	1.26	3.77	44.36
New Lisbon	1.00	2.81	4.13	1.72	2.94	4.61	10.08	3.93	3.05	4.11	1.12	5.55	45.05
*New York	2.28	5.78	4.32	3.51	1.23	5.91	3.12	3.29	3.59	6.66	1.19	6.19	47.07
North Hammond	2.01	2.20	3.80	2.36	2.94	3.90	2.02	1.92	1.46	2.11	1.37	2.25	28.34
North Lake	.....	4.55	5.96	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Number Four	3.33	5.81	6.85	5.27	.....	5.04	7.36	5.48	2.72	5.26	4.36	5.40	.....
Nunda	2.93	1.60	1.85	2.22	2.29	5.16	9.93	1.25	3.05	3.86	1.60	2.51	37.75
Ogdensburg	1.13	0.96	2.99	2.44	2.01	4.48	1.58	2.17	0.88	2.40	0.95	2.16	24.15
Old Chatham	1.88	4.64	3.99	1.95	3.00	6.26	8.89	3.78	4.09	3.62	.....	5.32	.....
Oneonta	1.09	2.97	3.45	1.30	2.82	4.96	7.71	2.54	2.59	4.91	1.11	4.61	40.06
*Oswego	2.49	1.78	3.80	2.21	3.02	4.54	6.48	2.23	2.57	2.24	1.78	4.73	37.87
Otto	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.74	2.24	.....
Oxford	1.82	4.02	4.32	1.78	2.73	6.46	8.65	2.62	3.97	4.80	1.25	6.11	48.53
Palermo	2.83	1.93	1.89	1.40	1.33	5.57	6.00	3.57	.....	.....	0.80	5.90	.....
Penn Yan	1.44	0.78	1.95	1.59	1.54	4.30	9.04	1.35	2.45	2.32	0.87	1.55	29.18
Perry City	2.18	1.46	2.28	1.67	2.14	5.52	9.46	4.82	2.40	4.03	1.20	3.69	40.85
Plattsburg Barracks	0.90	1.60	.....	1.80	4.10	3.74	4.80	2.70	1.80	2.95	0.87	2.50	.....
Port Byron	2.00	2.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Jervis	3.09	6.46	3.23	4.19	2.59	4.81	5.44	3.67	8.01	5.39	1.29	6.29	54.46
Primrose	3.12	6.38	4.85	4.56	3.52	6.25	5.23	2.06	7.36	6.60	0.63	6.72	57.28
Red Hook	1.83	3.92	6.36	3.60	2.02	4.59	6.70	3.07	7.29	3.95	1.35	7.72	52.40
Richmondville	1.38	3.11	3.54	3.99	2.39	4.81	6.95	3.05	4.49	3.81	1.05	4.45	53.02
Ridgeway	3.09	2.62	1.84	3.15	2.13	4.29	7.00	3.15	3.17	2.28	1.70	3.15	37.57
*Rochester	2.50	2.51	1.48	2.48	1.67	4.08	4.43	1.90	1.99	2.22	1.01	3.46	29.73
Rome	0.54	3.83	4.40	3.45	4.43	6.79	6.82	4.14	3.36	4.70	2.20	4.68	49.34
Romulus	3.31	1.53	2.17	1.68	3.24	5.95	9.25	2.43	3.68	3.57	1.71	4.68	43.20
Salisbury Mills	3.18	8.24	3.59	4.06	3.10	4.23	5.09	2.04	6.52	5.06	.....	7.88	.....
Saranac Lake	1.22	2.91	2.45	3.58	3.93	5.76	3.22	4.28	1.28	2.64	1.93	2.73	35.93
Saratoga Springs	1.62	3.86	4.23	2.52	2.78	3.73	7.28	3.68	4.43	4.78	1.34	4.51	44.71
Scottsville	.....	.....	.....	2.77	1.93	4.06	6.67	1.78	2.01	2.29	.....	.....	.....
Setauket	1.95	5.47	5.85	3.26	0.98	5.09	2.41	0.85	6.63	7.32	1.63	7.46	48.90
Shortsville	1.40	1.35	1.98	2.35	2.66	4.36	6.20	1.86	1.66	2.22	1.05	3.10	30.19
Skaneateles	1.63	2.44	4.13	2.50	4.25	7.70	5.92	2.79	1.96	4.71	2.12	3.63	43.78
Southampton	1.15	5.40	6.09	3.68	0.80	6.19	3.76	1.84	8.94	5.97	1.63	7.47	52.92
South Canisteo	2.90	2.37	2.78	2.86	1.77	6.24	8.40	2.56	3.32	1.49	1.41	3.05	39.10
Southeast Reservoir	3.12	3.63	7.01	4.68	3.75	5.95	4.74	3.24	6.73	6.55	1.17	7.34	57.91
South Kortright	1.51	3.56	3.28	3.30	2.48	8.41	6.39	3.55	5.24	5.14	0.81	4.11	47.88
South Schroon	2.25	2.87	5.64	4.69	2.77	5.16	6.04	4.23	4.02	5.26	1.77	4.09	48.79
Spier Falls	.....	.....	.....	.....	.....	3.97	5.44	1.56	4.16	5.06	0.92	6.11	.....
Straits Corners	2.85	2.20	4.37	2.12	1.48	5.27	6.19	3.84	3.29	4.23	0.50	2.60	38.94
*Syracuse	.....	.....	.....	.....	.....	.....	.....	.....	1.55	3.28	1.63	3.68	.....
Ticonderoga	1.37	2.05	3.12	2.00	2.94	3.44	4.86	4.46	4.48	3.19	1.18	1.67	34.76
Volusia	2.79	3.17	1.81	2.04	3.56	5.63	8.94	0.79	4.89	4.01	0.78	3.33	41.74
Walton	1.87	5.76	3.75	2.32	1.91	7.55	8.80	2.36	6.34	4.03	0.91	4.20	49.80
Wappingers Falls	3.32	4.98	5.04	3.94	3.11	4.97	6.56	2.68	5.72	4.57	1.37	9.25	55.36
Warwick	2.07	6.81	3.92	2.58	4.30	4.00	6.58	1.53	5.77	5.35	0.73	6.20	49.84

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New York—Continued.													
Watertown	2.41	2.70	3.93	2.81	3.05	5.84	3.48	1.91	2.40	4.00	1.90	2.81	37.24
Waverly	2.48	2.20	4.56	2.76	1.97	5.50	7.29	2.36	3.98	3.46	1.05	3.19	40.80
Wedgewood	2.04	2.02	2.87	2.96	2.33	6.25	9.23	3.70	2.73	3.41	1.24	3.25	42.03
Wells	2.46	2.02	6.78	4.83	3.12	5.14	6.04	2.83	4.88	6.41	1.38	7.20	53.09
West Berne	0.75	5.60	2.50	.....	3.18	3.47	7.05	3.08	5.38	3.66	1.23	4.36	.....
Westfield[1]	1.95	1.44	1.48	.....	.....	4.41	8.52	1.26	4.33	.....	.....	2.83	.....
Westfield[2]	1.22	0.73	1.00	2.93	5.42	4.97	8.35	1.00	3.14	3.10	1.62	2.05	35.53
Windham	0.87	3.88	4.00	4.77	2.03	4.65	7.44	4.11	7.68	3.25	0.88	5.75	49.31
Walcott	2.74	2.60	3.72	2.79	3.73	5.78	7.18	4.20	2.46	2.96	1.97	5.15	45.28
Youngstown	.....	.....	.....	.....	.....	.....	.....	0.89	4.25	1.52	1.74	1.66	.....
North Carolina.													
*Asheville	1.63	6.86	.....	.....	.....	.....	.....	.....	6.21	1.43	1.90	2.30	.....
Biltmore	.....	6.69	3.93	1.83	1.40	3.84	0.94	2.17	.....	.....	.....	.....	.....
Brevard	.....	.....	4.39	.....	2.64	8.92	4.13	3.23	4.76	4.70	3.81	7.00	.....
Brewers[3]	2.37	5.27	4.74	1.98	3.90	7.87	1.15	3.13	6.96	4.68	3.62	5.22	50.89
*Bryson City	3.95	6.29	6.81	2.75	2.48	4.32	1.12	3.83	4.77	1.71	4.55	4.13	46.71
Chapelhill	2.30	6.92	2.95	3.38	2.23	3.10	1.25	3.71	4.51	3.83	2.94	4.88	42.00
*Charlotte	2.42	6.07	3.54	1.68	3.39	4.07	4.58	3.74	3.48	4.49	4.44	3.42	45.32
Cherryville	2.20	6.75	4.68	1.74	4.34	5.35	[i] 1.25	.....	.....	.....	.....	.....	.....
Cranberry	3.00	7.18	5.76	2.74	3.29	8.03	2.14	3.19	5.93	2.89	1.15	3.75	49.05
Currituck	2.58	4.67	2.57	1.92	1.51	2.52	1.93	5.71	5.67	2.38	4.75	3.19	39.40
Durham	.....	.....	2.94	2.70	2.14	4.91	1.02	.....	4.43	.....	.....	.....	.....
Edenton	2.60	6.35	3.53	2.38	2.11	5.65	4.31	0.85	4.30	4.27	6.95	1.78	51.08
*Fayetteville	2.20	6.18	2.44	2.75	1.84	2.37	2.50	2.80	5.24	2.00	3.28	3.78	37.38
Flatrock	.....	.....	.....	1.61	3.81	6.01	2.81	4.20	7.40	4.28	.....	.....	.....
*Goldsboro	2.31	5.72	3.91	2.69	1.13	4.17	3.95	4.97	3.57	4.48	2.81	2.98	42.69
*Graham	.....	.....	.....	.....	.....	.....	0.89	2.12	4.52	4.25	2.50	4.33	.....
*Greensboro	2.17	4.95	3.94	2.41	2.51	5.76	2.30	5.61	3.32	5.61	3.08	3.38	45.04
*Hatteras	1.40	3.62	2.78	1.86	2.16	2.66	2.59	4.04	5.12	4.35	6.13	2.92	40.13
Henderson	1.10	6.80	2.89	2.33	2.86	4.77	2.31	3.73	6.05	1.65	3.77	3.15	41.41
Hendersonville	2.15	8.75	5.99	1.90	2.14	5.51	1.74	3.26	5.97	4.26	3.46	5.65	50.78
Henrietta	1.97	8.19	5.45	1.80	3.22	5.25	2.90	2.23	5.93	3.34	3.20	4.45	47.93
Highlands	4.47	5.66	10.90	1.13	4.27	6.49	5.71	2.10	.....	1.65	6.18	7.35	.....
Horse Cove	3.80	10.26	9.25	2.58	2.96	6.20	5.59	2.10	11.30	4.15	5.80	8.84	72.83
Kinston	1.01	6.70	3.04	2.34	2.64	3.92	2.69	8.91	2.76	5.13	4.14	1.82	45.10
*Kittyhawk	3.93	5.17	1.86	2.28	1.24	1.68	4.28	5.58	4.79	4.96	5.64	5.13	46.54
Lenoir	2.80	6.66	4.28	1.73	2.33	6.00	[g] 1.99	0.90	4.17	4.82	4.11	[h] 3.00	[e] 42.74
Lexington	.....	.....	.....	.....	.....	.....	.....	.....	3.42	5.23	4.83	4.00	.....
Linville	1.71	8.90	3.92	2.33	4.18	7.49	3.67	2.95	7.09	3.90	3.64	3.93	53.71
Littleton	2.59	6.61	3.00	4.14	4.39	4.86	2.99	1.91	3.98	2.12	2.80	3.29	42.68
Louisburg	2.80	6.57	2.35	3.78	1.94	3.64	3.79	3.45	3.08	3.00	3.94	2.52	40.86
*Lumberton	2.15	5.92	2.52	2.98	3.42	2.29	2.63	4.49	3.32	4.44	4.34	3.28	41.78
Marion	2.87	7.80	5.70	2.13	2.89	5.98	2.99	1.00	4.59	3.38	4.60	7.23	50.66
Marshall	1.35	6.28	4.17	2.15	1.68	7.49	2.42	5.35	3.35	1.67	2.81	.....	.....
Mocksville	1.66	3.96	4.26	1.48	2.67	5.75	1.61	3.24	2.32	3.23	5.35	4.03	39.56
*Moncure	2.65	6.98	2.45	3.80	2.37	3.11	2.97	2.26	4.83	2.45	2.79	4.84	41.50
Monroe	3.12	6.81	3.19	2.12	2.23	3.39	2.79	5.49	4.25	5.54	4.50	3.13	46.46
Morganton	1.96	6.65	.....	2.12	0.62	5.18	2.88	1.10	3.31	5.86	3.83	4.26	.....
Mountairy	2.96	3.01	4.16	1.54	2.27	3.55	2.42	4.12	5.35	3.63	4.27	4.16	41.44
*Murphy	6.87	6.17	6.25	2.15	1.89	3.24	2.13	2.22	4.90	1.89	4.47	4.78	46.96
*Newbern	2.09	.....	3.20	2.49	3.26	5.34	4.50	7.96	4.88	3.99	3.77	4.52	.....
*Oakridge	1.86	5.91	4.59	2.73	3.71	4.89	.....	.....	.....	.....	.....	.....	.....
Patterson	1.73	6.16	4.85	1.25	2.04	4.77	2.95	2.27	4.65	3.78	4.12	4.59	43.16
Penelo	2.66	6.70	2.41	3.15	2.38	3.47	1.36	4.05	2.56	3.70	3.38	.....	.....
Pittsboro	1.28	3.86	3.30	4.63	.....	2.23	3.51	3.11	6.03	2.22	3.46	2.75	.....
*Raleigh	2.39	7.08	2.14	3.10	2.00	3.04	3.39	2.76	2.92	3.07	4.12	3.15	39.16
Redsprings	.....	.....	[e] 2.35	2.52	1.85	2.54	3.13	.....	5.81	4.85	.....	.....	.....
*Reidsville	2.07	4.54	4.58	2.33	2.81	4.85	1.60	2.45	2.32	4.43	2.73	4.49	39.20
Rockingham	3.31	6.47	2.96	1.67	4.33	2.32	2.63	8.61	5.14	2.22	5.51	2.74	47.91
Roxboro	1.85	6.51	3.80	3.09	3.97	3.14	2.50	2.46	5.29	4.63	3.84	3.36	44.44
Salem	2.15	6.50	4.59	2.20	1.67	5.60	3.36	3.67	3.26	5.05	4.64	4.80	47.49
*Salisbury	2.17	5.98	4.23	2.15	0.50	7.85	1.78	4.03	2.44	4.99	2.96	5.53	44.61
Saxon	2.37	3.98	3.87	2.04	1.94	6.15	1.50	2.58	3.33	5.56	4.62	4.07	42.01
Selma	3.80	7.10	3.03	4.40	1.72	5.12	3.05	4.17	3.30	2.75	2.35	3.35	42.14
Settle	2.42	5.45	4.52	2.50	1.92	9.72	2.91	3.57	4.47	3.84	5.22	4.31	50.85
Sloan	3.51	5.38	3.08	2.02	1.03	3.10	3.73	6.11	2.69	6.04	7.28	3.51	47.48
Soapstone Mount	2.11	5.80	3.42	2.90	3.80	4.34	2.12	2.53	6.61	4.23	5.15	3.70	46.71
Southern Pines[4]	3.38	5.64	2.81	3.23	2.57	2.89	4.18	3.57	5.74	2.92	4.40	2.97	44.30
Southern Pines[5]	3.25	5.17	2.58	2.78	1.98	2.42	4.21	5.14	5.72	2.82	3.99	3.10	43.16
Southport	1.72	5.01	5.25	1.15	2.32	4.23	1.55	.....	2.95	1.98	3.50	6.38	.....
Springhope	2.35	6.90	1.83	4.33	1.20	5.93	1.55	4.14	3.61	2.15	3.51	2.45	39.95
Statesville	2.54	5.21	4.24	1.81	1.94	8.69	1.83	3.38	5.61	3.86	4.54	4.11	47.76
Tarboro	2.85	7.23	2.86	2.48	4.83	3.08	1.12	5.86	4.16	3.17	3.35	2.18	43.17
Washington	3.46	5.11	3.39	1.99	2.70	4.69	2.55	6.33	.....	4.24	5.09	1.95	.....
Waynesville	2.12	7.99	4.57	2.40	2.81	3.62	3.00	1.43	5.55	1.34	3.36	2.52	40.71
*Weldon[6]	2.38	5.21	3.49	3.67	3.08	3.66	3.28	4.45	3.29	3.19	3.20	3.76	42.66
*Weldon[7]	2.63	4.96	3.43	3.61	3.07	3.44	3.38	4.63	3.27	3.09	3.16	3.54	42.11
*Wilmington	1.39	3.29	3.61	1.62	2.33	3.17	2.98	2.35	3.57	3.18	3.83	3.26	34.58
North Dakota.													
Amenia	0.25	0.32	1.32	1.42	3.19	5.36	5.20	2.61	1.12	2.52	0.34	0.48	24.13
Ashley	T	0.65	2.93	3.84	1.86	2.60	0.73	2.41	0.49	0.72	0.20	0.30	16.73
Berlin	0.29	1.15	2.86	0.51	4.51	4.01	1.27	5.21	0.98	0.97	0.12	0.80	22.68
Berwick	.....	.....	.....	.....	.....	.....	1.55	.....	.....	.....	.....	.....	.....
*Bismarck	0.05	0.21	2.70	0.25	3.00	3.63	2.54	1.84	0.41	1.21	T	0.10	15.95
Bottineau	0.00	1.51	3.85	0.10	4.10	.....	1.02	1.00	.....	1.00	0.30	0.20	.....
Buxton	0.05	0.38	3.06	2.12	4.56	2.04	2.38	2.88	1.34	1.47	0.23	0.59	21.10

[1] Jno. R. Rogers.
[2] D. H. Beadle.
[3] Name changed from Abshers.
[4] P. H. Beck.
[5] State Horticultural Farm.
[6] Cotton-region observer.
[7] River observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
North Dakota—Continued.													
Cando	T	0.72	3.69	0.40									
Churchs Ferry	0.10	0.76	3.49	0.49	3.87	3.45	2.64	2.17	0.49	1.03	0.16	0.43	19.08
Coalharbor	T.	2.95	3.73	T.	2.84	4.40	2.72	3.23	0.29	0.79	0.10	0.76	21.81
*Devils Lake	T.	0.52	2.86	0.24	3.03	3.99	0.86	3.00	0.75	0.92	T.	0.10	16.27
Dickinson	0.18	1.43	2.64	0.16	3.02	2.56							
Donnybrook	0.15	3.60	4.65	0.39	2.58	3.11	4.52	1.90	0.25	0.69	0.38	0.60	22.82
Dunseith	T.	1.54			2.07	4.00	2.97	1.96				0.20	
Edgeley	0.21	0.51	6.26	2.47	3.94	5.90	1.56	4.84	0.95	0.91	0.14	0.87	28.56
Ellendale	0.20	0.22	4.25	1.15	4.07	2.75	2.15	2.55	0.65	1.00	0.40	1.10	20.49
Falconer	T.	1.20	3.50	0.25	3.75	6.30	1.20						
Fargo	0.18	0.34	1.42	2.30	4.25	3.07	2.54	2.90	0.61	5.17	0.19	0.27	23.24
Forman	0.13	0.37	2.62	1.75	4.04	3.16	1.32	4.46	0.58	1.61	0.37	0.45	20.86
Fort Yates	0.18	0.73	2.64	1.55	3.12	3.49	1.28	2.00	0.24	1.15	0.05	0.06	16.49
Fullerton	0.24	0.68	3.75	2.09	4.97	3.29	1.91	2.71	1.05	0.93	0.26	1.10	22.98
Gallatin	0.09	0.29	2.40	1.13	3.52	2.45	2.42	2.63	0.78	0.66	0.15	0.28	16.80
Glenullin	T.	0.66	2.97	0.43	2.83	5.49	2.02	3.44	0.18	1.18	T.	0.10	19.30
Grafton	0.50	0.57	2.47	1.25		2.40	2.65	0.67	1.20	1.15	0.38	0.30	
Hamilton	0.16	0.40	1.90		3.85	4.10	3.44	1.25	1.62	0.90	0.54		
Hannaford	0.06	0.47	1.96	0.41	3.36	2.57	1.33	2.72	1.15	1.92	0.26	0.41	16.62
Jamestown	0.10	0.80	2.58	0.80	4.74	3.32		2.78	1.08	1.88	0.20	0.40	
*Langdon				0.61	3.95	4.55	1.94	0.47	0.86				
*Larimore	0.10	0.63	2.64	0.98	4.45	2.88	4.38	4.01	1.20	1.48	0.30	0.30	23.35
*Lisbon				1.93	3.48	3.81	1.75	4.68	0.87				
McKinney	0.05	0.51	0.51	T.	0.78	1.50	1.20	0.68	T.	0.20	0.25	0.90	6.58
Mayville	0.15	0.56	1.90	1.38	4.57	2.51	2.32		0.73		T.	0.47	
Medora	0.10	0.70	2.16	0.67	2.64	1.65	3.34	1.89	0.05	0.10	0.40	0.39	14.00
Melville	T.	0.53	1.76	0.80	4.32	3.66	1.79	3.08	0.43	1.64	0.13	0.10	18.24
Milton	0.01	0.98	3.23	0.54	4.98	3.17	1.49	0.64	1.26	0.80	0.26	0.58	17.94
Minnewaukon					3.76	3.18	0.42	3.24	0.40	0.99		T.	
Minot	T.	1.70		T.			0.57	1.12	T.	0.13	0.05	0.50	
Minto	0.08	0.58	2.29	1.12	3.68	3.94	3.41	0.75	1.65	1.31	0.16	0.18	19.15
Napoleon	0.04	0.55	2.70	1.81	4.39	4.18	1.78	3.56	0.78	1.15	0.10	0.25	21.29
New England	T.		1.33	T.	2.68	1.00	0.08	1.90	0.35	0.75	0.15	0.53	
Oakdale	0.40	1.46	4.83	0.48	2.30	4.46	2.49	0.89	0.26	0.62	0.55	1.10	19.84
*Pembina	0.12			1.01	4.75	3.79	3.36	1.34	1.53	1.33	0.49	0.50	
Portal	0.80	1.45		0.52	[5]2.83	6.14	1.18	2.03	0.08		0.40	1.55	
Power	0.35	0.66	1.78	2.17	3.86	2.66	1.73	3.56	0.65	4.81	0.25	0.40	22.83
Steele	T.	1.50	2.50	0.15	2.54	4.91	3.59	1.83	0.23	1.56	T.	0.10	18.91
University	0.31	0.59	1.74	2.46	3.88	2.09	2.94	3.15	2.08	1.98	0.32	0.46	22.00
Valley City	0.22			2.12		4.83	1.74	0.77	0.41	0.80		0.47	
Wahpeton	0.10	1.39	1.64	1.79	3.60	2.48	2.58	1.90	0.31		0.51	1.32	
*Williston	0.09	1.52	1.36	0.53	2.69	3.92	3.43	1.26	0.33	0.32	0.72	0.68	16.85
Willow City	T.	1.55		0.20	2.04	4.69	1.39	1.19	0.44	0.50	0.02	0.20	
Woodbridge	0.10	3.37	3.64	0.47	4.96	4.47	0.69	0.36	0.55	1.25	0.65		
Ohio.													
Akron	1.10	1.15	2.54	2.12	3.33	7.29	5.57	1.54	3.67	1.33	2.24	3.53	35.41
Annapolis	0.41	1.08	3.43	2.18	2.69	6.20	5.85	2.21					
Atwater	1.40	0.94	2.30	3.84	3.72	7.93	4.72	1.62	3.35	2.09	1.58	4.62	38.11
Bangorville	0.86	1.80	3.29	2.03	2.07	5.51	8.41	1.46	5.06	2.40	2.35	4.02	39.26
*Bellefontaine	1.00	0.70	2.74	2.09	2.04	7.41	3.70	2.51	6.26	1.85	2.59		
Bement	0.48	0.58	2.20	1.87	4.00	7.45	5.23	3.23	5.17		2.26	3.66	
Benton Ridge	0.81	0.77	2.74	1.38	[3]3.04	6.55	3.42	1.95		2.13	2.09	3.13	
Bethany	1.53	1.14	2.12	2.08	4.64	7.02	1.15	0.95	3.55	2.66	3.36	3.92	34.12
Binola	2.51	0.73	2.46	2.49	3.79	9.28	5.66	3.05	5.14	2.11	1.90	2.66	41.78
Bladensburg	1.02	0.66	3.84	1.20			4.77	3.28	2.58	1.44			
Blaine					1.68	6.77	4.93	3.31	2.84	2.75	2.56	5.36	
Bloomingburg		0.98	2.78	1.73	1.35	6.85	2.48	0.41	4.80	1.51	2.37	3.90	
Bowling Green	0.55	0.57	3.77	1.51	3.81	10.18	3.24	0.18	9.25	2.94	2.35	3.33	41.68
*Bucyrus	0.70	2.35	3.23	3.21	2.04	7.97	7.29	0.87	5.42	1.87	2.25	2.10	39.30
Cambridge	1.69	1.15	2.69	1.91	2.17	8.35	7.87	2.02	4.13	2.75	2.25	4.87	41.85
Camp Dennison	2.41	0.43	1.76	2.11	4.25	6.17	2.77	1.01	3.88	3.16	3.34	5.27	36.56
Canaan	1.84	1.01	2.26										
*Canal Dover	1.33	1.18	2.84	2.37	2.03	4.85	6.48	2.02	3.60	1.53	2.09	4.09	34.41
*Canton	1.08	1.46	2.11	3.08	3.15	5.55	4.49	3.42	3.67	1.56	1.85	3.85	35.27
Cardington	0.64	0.86	1.89	1.23	1.75	5.20	8.67	1.62	4.23	1.60	1.94	3.18	32.81
Cedarville	1.33	1.05	2.17	1.87	1.61	6.79	2.21	0.98	4.58	2.29	3.05	3.86	31.79
Celina	0.62												
Centerburg							4.53		4.13	2.12	3.27	5.10	
*Chillicothe				2.92	2.36	7.29	3.94	0.55	3.20				
*Cincinnati	2.10	0.38	1.47	2.87	5.54	5.25	3.47	0.65	4.26	2.77	3.29	5.25	37.30
*Circleville	1.78	0.64	2.63	2.36	1.27	7.71	1.60	1.79	3.60	1.96	3.27	4.56	32.57
Clarksville	2.08	0.41	2.10	2.17	4.32	8.30	2.02	0.46	4.34	2.69	3.81	4.27	36.97
*Cleveland	1.25	0.83	2.34	1.85	3.60	9.77	5.14	1.60	5.36	2.41	2.07	3.67	39.89
Cleveland[1]	1.33	0.96	2.63	2.74	4.17	9.81	5.82	1.68	5.81	3.42	2.69	3.26	44.32
Cleveland[2]	0.93	0.59	2.07	1.52	3.21	9.43	4.94	1.72	4.84	2.44	1.63	3.12	36.44
Clifton	1.34	0.65	2.42	1.83	1.59	8.36	1.83	1.04	4.49	2.48	3.13	3.66	32.82
Coalton	2.91	0.79	2.75	2.45	3.10	7.61	3.14	0.55	4.02	2.55	2.76	4.73	37.26
Colebrook	2.51	0.90	1.58	3.04	3.30	5.15	2.85	1.92	3.27	1.50		3.50	
*Columbus	1.56	0.51	2.63	1.60	0.95	8.52	4.70	1.62	4.16	1.85	2.72	3.41	34.23
Coolville					2.80		3.69		3.23	1.72	2.34	4.77	
Coshocton					1.40		3.76		2.58	1.51	2.24	4.52	
*Dayton[3]	1.49	0.35	2.62	0.89	1.80	7.79	3.11	0.43	4.96	3.99	3.48	2.77	33.68
*Dayton[4]	1.13	0.61	2.55	2.13	2.39	7.32	3.42	0.71	4.95	3.23	3.56	3.95	35.97
*Defiance	0.49	0.72	3.76	1.92	3.51	7.97	4.41	0.78	8.10	5.24	2.76	3.10	42.76
Delaware	0.92	0.75	2.81	1.70	2.56	7.18	3.30	1.66	4.88	2.41	2.49	3.11	33.77
Demos	1.70	1.15	3.86	3.97	1.48	6.34	5.86	5.86	3.66	1.80	3.08	5.19	43.95
Dunham	2.50	2.02	3.75	2.08	3.89	5.13	4.26	1.74	3.52	1.47	2.23	4.39	37.03

[1] G. A. Hyde.
[2] Rev. F. Odenbach.
[3] River observer.
[4] Corn and wheat region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio—Continued.													
Dunkirk	.....	.....	.....	.....	.....	.....	5.84	.....	6.98	1.71	2.68	2.15	.....
Elyria	0.93	0.62	2.68	1.99	3.86	9.86	6.70	2.68	5.42	3.42	2.20	2.39	42.62
*Findlay	0.40	0.66	3.50	1.79	4.32	7.21	4.13	1.74	8.48	1.78	2.65	2.64	39.27
Fort Recovery	.....	.....	.....	.....	.....	.....	1.97	.....	3.88	2.78	2.56	2.99	.....
Frankfort	2.08	0.20	2.18	2.38	2.62	6.10	0.70	0.45	4.24	2.04	2.42	4.11	29.52
Fremont	0.40	0.65	3.46	1.69	4.16	10.56	4.15	1.28	7.20	2.22	2.06	3.61	41.44
Gallagher	.....	.....	.....	.....	3.26	.....	8.73	.....	4.06	3.01	2.21	4.78	.....
Garrettsville	1.59	1.20	2.11	4.35	3.94	7.05	6.32	2.06	3.89	1.88	2.43	4.32	41.14
*Granville	1.09	0.71	3.22	2.20	1.43	7.67	3.38	1.55	2.97	3.06	3.33	4.01	34.62
Gratiot	1.62	0.93	2.69	1.96	1.97	8.68	3.62	1.54	3.27	2.65	3.07	4.76	36.76
Green	3.95	1.00	3.15	3.10	4.60	5.55	3.55	1.00	3.83	1.85	3.70	5.60	40.88
Greenfield	1.20	0.45	2.63	2.80	2.57	6.43	1.77	1.11	3.67	2.42	2.90	5.05	33.00
Greenhill	1.05	1.09	2.49	1.49	2.93	5.69	5.81	3.19	3.39	1.20	1.67	3.87	33.87
*Greenville	0.96	0.44	3.08	1.72	2.69	6.79	2.57	1.89	3.78	3.29	3.84	3.47	34.52
Hanging Rock	4.75	1.95	3.72	3.29	3.42	7.25	2.74	1.61	4.99	1.62	2.79	6.38	44.51
Hedges	0.59	0.72	4.25	1.81	2.26	6.19	3.02	3.73	5.99	3.45	2.41	2.97	37.39
Hillhouse	2.04	1.24	1.98	3.00	6.18	7.94	8.75	1.58	5.13	5.21	1.96	3.64	48.65
Hillsboro	2.80	0.36	2.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hiram	1.76	0.72	1.64	3.76	3.59	8.89	7.22	.....	4.25	2.06	2.51	4.40	.....
Hudson	3.00	1.37	1.81	3.48	2.76	7.70	8.60	2.60	4.60	2.23	2.09	4.26	44.50
Jacksonboro	1.85	0.45	2.15	1.98	3.27	9.57	1.29	0.84	4.89	4.19	3.51	4.51	38.50
Killbuck	1.35	1.08	2.89	1.58	3.10	3.21	5.66	1.41	3.17	1.29	2.61	.....	.....
Lancaster	1.80	0.81	2.94	2.25	1.88	8.85	3.44	1.19	2.71	1.90	3.56	4.22	35.55
Lima	0.28	1.16	3.53	1.03	0.87	6.70	2.81	2.11	4.38	1.93	2.18	3.49	30.47
Logan	.....	.....	.....	1.99	.....	.....	3.25	.....	.....	.....	.....	.....	.....
McConnellsville	2.01	1.85	3.05	2.76	2.25	7.27	3.42	1.65	4.06	2.67	2.53	4.86	38.38
McCormack	.....	.....	.....	.....	.....	.....	.....	.....	2.95	.....	2.65	5.48	.....
Manara	1.64	0.32	2.80	2.24	2.45	10.14	2.11	0.90	4.13	2.47	2.57	4.05	35.82
*Mansfield	1.52	1.10	2.58	3.68	2.50	6.25	6.90	0.93	3.70	1.46	2.79	3.56	36.97
Marietta	2.52	2.61	3.60	2.79	4.60	8.26	3.00	3.49	.....	1.73	3.08	5.48	.....
Marion	0.60	0.95	2.50	1.89	2.71	7.17	7.14	1.49	4.37	1.69	2.73	3.15	36.39
Medina	2.50	0.93	2.21	2.87	3.02	8.05	6.84	1.99	5.10	2.06	2.09	3.53	41.19
Milfordton	0.75	1.15	3.60	2.04	2.34	6.61	6.33	2.63	4.76	1.78	2.78	4.16	38.93
Milligan	1.67	1.15	2.76	2.37	3.88	9.36	3.32	1.50	2.46	2.33	2.26	5.62	38.58
Millport	1.11	1.44	3.13	2.19	3.12	5.71	5.52	2.26	3.80	1.84	1.79	4.46	37.37
Montpelier	0.89	0.86	3.38	1.23	5.68	9.77	4.82	1.28	5.57	1.64	2.83	3.57	41.52
Moorefield	1.96	1.50	2.70	2.59	.....	.....	.....	.....	.....	.....	.....	.....	.....
Napoleon	0.35	0.84	2.36	1.49	3.58	7.91	4.70	0.52	8.39	2.73	2.28	3.52	38.67
New Alexandria	0.90	2.15	3.80	3.20	2.75	5.15	6.50	2.30	2.51	2.60	1.50	5.00	38.36
New Berlin	1.20	0.93	2.16	2.59	3.20	6.95	6.36	2.56	3.46	1.58	2.07	3.82	36.81
New Bremen	0.87	0.58	3.05	1.20	2.74	7.81	3.65	2.71	3.46	3.08	2.78	2.84	34.77
New Lexington	1.45	0.65	2.87	2.01	2.81	9.74	5.26	1.35	3.48	1.70	3.63	5.01	39.96
New Paris	0.90	0.55	3.40	1.98	3.49	8.72	.....	.....	.....	.....	.....	.....	.....
New Richmond	3.08	0.31	1.60	3.31	6.93	4.85	2.99	0.67	3.60	2.62	3.50	5.10	38.56
New Waterford	3.05	1.85	3.22	2.26	3.15	6.05	6.53	2.30	2.09	2.74	1.84	6.11	40.19
North Lewisburg	1.65	0.85	3.30	1.75	2.35	8.20	2.45	2.20	4.80	2.75	2.55	3.80	36.65
North Royalton	3.20	0.46	2.59	1.96	3.02	8.22	7.95	3.03	4.64	2.10	2.11	.....	.....
*Norwalk	0.84	0.60	3.35	1.66	3.46	9.97	6.25	0.48	6.97	2.19	2.29	3.64	41.70
Oberlin	1.36	1.51	2.68	2.58	3.39	9.15	6.65	1.16	3.97	2.40	2.33	3.17	40.35
Ohio State University	1.41	0.56	2.48	1.57	0.91	9.20	4.43	1.54	4.10	2.48	2.67	3.58	34.93
Orangeville	1.55	0.90	2.02	3.05	3.42	4.48	6.28	0.46	2.17	0.97	1.40	3.55	30.25
Ottawa	0.43	0.37	3.58	1.86	3.01	5.79	8.99	1.83	5.31	2.24	2.55	2.80	33.76
Pataskala	1.80	0.66	3.24	2.08	1.39	8.99	3.76	0.99	3.83	2.07	3.50	4.83	37.14
Philo	1.36	0.80	2.18	1.94	1.99	8.95	5.15	1.32	3.14	2.30	2.85	4.99	36.97
Plattsburg	1.11	0.80	2.12	1.38	1.87	8.23	2.82	1.75	4.34	2.57	3.17	3.70	33.86
*Pomeroy	2.44	0.87	3.40	2.34	2.46	4.90	2.21	2.70	3.95	1.44	2.03	3.26	32.00
*Portsmouth[1]	3.72	1.20	3.58	3.08	4.46	5.39	3.53	0.83	2.12	2.33	3.06	7.19	40.49
Portsmouth[2]	3.15	1.30	3.45	2.35	4.34	5.37	3.48	0.81	2.69	1.84	3.13	5.27	37.18
Pulse	3.17	0.61	1.90	2.75	3.04	7.05	2.28	1.00	3.90	2.29	3.25	5.17	36.41
Red Lion	1.10	0.10	2.54	1.74	2.95	10.46	1.97	1.07	4.54	3.50	3.77	3.52	37.26
Richfield	1.41	0.58	2.75	2.67	3.26	9.26	7.15	3.24	6.24	2.56	2.15	3.98	45.25
Richwood	1.14	0.66	.....	1.42	2.54	6.38	3.22	2.41	4.63	1.52	2.18	3.06	.....
Ripley	2.47	0.47	3.08	3.18	3.85	5.15	3.49	1.71	4.16	1.99	3.48	5.48	38.46
Rittman	0.85	0.58	3.20	2.99	3.70	7.25	7.50	0.99	7.74	1.06	3.19	3.63	42.68
Rock	.....	1.59	3.63	2.60	2.34	5.28	5.07	2.68	.....	.....	.....	.....	.....
Rockyridge	0.47	0.23	2.70	1.03	8.92	7.47	5.19	0.54	8.77	2.62	2.35	4.05	44.34
*Sandusky	0.60	0.30	2.67	1.42	4.01	8.85	5.33	1.23	6.20	1.80	2.02	2.40	36.83
Shenandoah	0.89	0.61	2.25	2.22	1.41	7.24	7.89	0.81	4.87	1.37	2.58	3.23	35.37
*Sidney	0.99	0.62	2.61	1.97	3.40	5.91	3.49	2.04	5.62	2.87	3.13	3.46	36.11
*Somerset	1.19	1.16	1.68	1.51	2.67	8.44	4.37	1.89	3.13	2.84	4.01	3.11	35.50
Springfield	1.02	0.65	2.92	1.79	2.87	8.65	5.72	0.97	4.86	2.92	3.76	3.66	39.79
Strongsville	1.44	0.90	2.74	2.91	4.29	9.34	7.39	4.52	5.58	3.05	2.35	2.83	47.30
Swanton	0.42	0.65	2.69	1.62	4.57	7.49	4.51	0.40	8.02	3.89	2.14	2.76	39.16
Thurman	5.03	1.12	4.10	2.62	3.19	7.94	3.83	2.19	3.72	1.67	2.60	6.15	44.16
Tiffin	0.93	1.00	3.39	2.66	5.06	10.31	4.90	1.17	7.32	1.84	2.31	2.87	43.76
*Toledo	0.72	0.62	2.76	0.86	4.72	6.19	4.01	1.29	6.51	1.98	1.40	2.25	33.31
Upper Sandusky	1.55	0.95	3.33	1.81	1.09	8.02	7.05	0.73	4.89	1.81	2.45	.....	.....
Urbana	0.86	0.55	2.52	1.53	2.25	7.86	4.38	1.49	4.73	2.66	2.59	3.40	34.82
Vanwert	0.61	.....	.....	2.34	2.53	.....	4.55	.....	.....	.....	.....	3.38	.....
Vickery	0.51	0.17	2.75	1.32	3.73	9.20	4.37	1.26	6.42	2.03	1.88	2.35	35.99
Wadsworth	.....	.....	.....	.....	.....	.....	7.35	.....	7.09	1.45	2.48	3.38	.....
Walnut	1.52	0.49	2.43	1.80	2.11	9.52	2.87	1.90	3.48	1.93	3.70	3.78	35.53
Warren	2.31	1.71	1.72	2.81	3.19	5.41	8.09	1.28	4.18	1.79	1.84	4.46	38.79
Warsaw	1.04	0.81	3.20	1.76	1.70	5.41	6.20	1.73	2.33	1.55	3.03	4.32	33.08
*Wauseon	0.71	1.18	4.96	1.80	6.45	7.78	6.24	0.86	7.93	2.07	2.37	3.05	44.85
Waverly	2.91	0.71	3.25	3.20	5.08	8.16	4.53	0.84	5.18	2.12	3.00	5.00	43.98
Waynesville	1.55	0.57	2.25	1.93	2.21	10.35	1.89	0.65	4.90	.....	2.19	3.84	.....
Wellington	1.51	0.78	2.57	2.45	3.97	10.88	7.09	0.82	5.13	1.69	2.29	2.91	42.09
Westerville	.....	0.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] River observer.

[2] Dr. D. B. Cotton.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio—Continued.													
Williamstown	.....	.....	.....	.....	2.01	.....	6.74	.....	6.63	1.79	2.40	2.35	.....
Willoughby	1.55	1.73	1.66	2.14	5.07	7.41	5.38	0.74	8.97	5.71	2.26	3.48	41.10
Wooster	0.63	0.83	2.99	1.55	2.57	5.55	5.26	1.87	3.49	1.52	2.62	4.07	32.95
*Zanesville	1.77	1.07	2.57	2.31	1.86	7.05	5.77	1.42	2.59	2.44	2.62	4.78	36.25
Oklahoma.													
Ames	0.21	0.15	2.51	.....	.....	.....	2.28	1.59	5.65	0.88	2.85	.....	.....
Arapaho	0.40	0.02	3.50	3.91	17.11	0.77	3.86	1.52	4.99	.....	.....	.....	.....
Beaver	0.50	0.00	1.05	0.66	8.69	1.89	2.50	1.87	.....	0.84	.....	.....	.....
Blackburn	1.67	1.06	4.49	3.19	20.18	5.57	1.22	3.40	9.09	2.50	.....	.....	.....
Burnett	0.07	0.28	3.57	5.69	11.05	1.21	1.23	3.75	4.96	1.50	7.39	2.06	42.76
*Chandler	0.39	0.28	3.91	2.75	16.19	1.19	4.76	2.65	5.70	1.64	4.61	2.34	46.41
Cleo	.....	.....	.....	.....	.....	.....	.....	1.76	2.45	1.19	1.49	T.	.....
Clifton	0.55	0.08	4.12	2.50	10.34	1.38	1.86	2.93	4.17	1.14	5.02	2.10	36.19
Cloudchief	0.15	0.02	4.83	4.27	11.49	1.35	0.88	2.87	5.26	1.36	5.31	1.32	39.11
*Enid	.....	.....	.....	2.58	8.56	1.23	0.80	2.37	4.13	1.00	.....	.....	.....
Fort Reno	0.15	0.03	4.52	3.13	18.36	0.30	2.58	0.43	4.97	0.80	7.30	2.55	40.12
Fort Sill	0.02	T.	3.05	3.60	13.70	0.20	3.25	0.95	10.80	3.00	6.35	1.87	46.79
Guthrie	0.07	0.32	6.16	2.62	11.60	2.71	1.69	1.52	6.16	1.15	6.30	1.89	42.19
Hennessey	0.35	0.11	3.44	2.29	10.16	2.67	0.80	1.43	5.45	1.10	2.50	1.28	31.58
Jefferson	0.25	0.10	2.52	1.42	8.23	3.98	1.09	3.50	3.16	1.04	1.45	1.08	27.82
Jenkins	0.40	0.32	4.23	2.02	13.62	2.32	2.32	0.31	0.97	1.33	1.93	1.12	30.89
Kenton	0.30	0.40	1.20	0.50	4.88	1.12	1.61	1.03	0.14	.....	0.29	0.50	.....
Kingfisher	0.17	T.	5.93	2.41	14.57	1.18	1.91	2.00	6.81	2.90	3.28	1.39	42.55
*Mangum	0.10	T.	2.40	2.50	9.75	1.15	2.60	2.20	5.65	2.15	3.65	.....	.....
Newkirk	0.95	0.60	3.22	2.58	14.06	5.95	1.03	3.92	6.76	1.02	2.39	1.49	43.96
Norman	0.31	0.28	4.06	5.56	12.40	0.66	1.87	2.03	5.20	1.76	7.00	.....	.....
*Oklahoma	0.44	0.20	4.90	3.37	11.99	0.65	1.85	2.99	3.92	1.90	7.25	1.68	41.14
Pawhuska	0.67	1.15	4.65	1.91	11.37	4.43	1.22	5.95	6.42	1.64	5.78	2.05	47.24
Perry	0.23	0.22	4.23	3.56	16.06	2.49	0.53	1.94	5.14	1.14	4.18	1.39	41.11
Sac and Fox Agency	.....	.....	.....	3.27	10.04	2.06	1.91	2.61	4.39	1.00	5.22	2.05	.....
*Shawnee	0.84	0.43	4.78	2.24	10.08	0.72	1.79	2.32	4.86	1.30	.....	1.75	.....
*Stillwater	0.13	0.17	5.03	1.92	10.86	2.19	2.85	2.17	4.64	0.92	7.78	1.68	40.29
Taloga	0.05	0.08	2.79	4.05	8.92	0.72	3.40	0.80	3.77	1.07	2.38	0.34	28.37
Temple	.....	.....	.....	.....	.....	.....	.....	.....	6.70	.....	.....	1.16	.....
Ural	.....	.....	.....	.....	.....	.....	.....	.....	7.06	1.25	2.70	1.17	.....
Waukomis	0.40	0.10	3.21	2.71	7.75	2.45	2.23	2.74	7.35	1.45	2.30	1.25	33.94
Watonga	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.50	.....	.....
*Weatherford	0.38	T.	2.70	2.92	13.04	0.91	2.13	0.84	6.82	0.85	.....	1.34	.....
Woodward	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oregon.													
Albany[1]	1.81	6.77	3.11	.....	1.88	0.36	1.71	.....	5.70	.....	.....	.....	.....
*Albany[2]	4.30	8.90	6.04	4.78	3.51	0.66	1.98	0.16	1.29	1.43	9.41	10.48	52.94
Alpha	7.40	19.55	14.85	6.90	5.59	1.36	1.66	T.	1.59	3.81	23.72	20.56	106.49
Arlington	0.93	3.41	0.25	0.84	1.27	0.00	0.40	0.00	0.39	0.34	1.96	1.37	11.16
Ashland	0.35	5.80	2.08	2.80	1.62	0.67	1.12	2.10	0.56	0.33	3.27	2.95	22.60
*Astoria	7.23	16.33	10.41	5.34	4.09	2.80	2.89	0.45	2.28	3.50	15.87	15.29	86.48
Aurora	2.56	6.39	4.18	2.89	1.58	0.57	2.00	.....	1.49	.....	8.92	6.69	.....
Aurora (near)	3.60	7.17	5.32	3.32	2.98	1.07	2.09	0.14	1.63	2.14	10.04	10.57	50.07
*Baker City	0.56	2.28	0.83	0.78	1.74	0.53	0.10	0.48	0.44	0.90	1.73	2.43	12.80
Bay City	7.51	21.53	19.01	7.97	7.81	3.83	4.09	0.95	4.44	5.34	23.18	26.47	132.13
Bend	0.63	2.05	0.65	0.83	0.90	T.	0.51	0.12	0.10	0.19	2.09	2.83	10.90
Beulah	0.64	3.82	0.77	0.83	0.72	0.00	0.18	0.22	0.32	0.46	2.21	2.29	12.46
Blackbutte	3.18	13.00	5.60	5.20	3.95	0.90	3.52	0.02	0.95	2.35	13.80	10.30	62.77
Blalock	1.00	3.61	0.70	0.82	0.52	T.	0.18	0.00	0.26	0.39	2.18	2.68	12.34
Brownsville	2.65	8.10	5.86	3.05	3.23	0.07	2.51	0.08	0.97	1.32	8.04	9.76	45.64
Bullrun	6.66	10.04	11.51	9.49	7.71	2.22	4.91	1.18	3.12	1.69	17.38	14.13	90.04
Burns	0.72	3.31	0.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Cascade Locks	7.80	12.73	11.26	7.56	4.11	1.49	1.51	0.27	3.09	2.69	21.01	19.58	93.35
Comstock	3.16	10.99	4.91	5.94	2.12	0.00	2.29	0.00	0.47	1.88	12.45	10.33	54.54
Coquille	4.72	13.15	11.89	6.81	4.13	0.53	0.94	T.	0.91	2.44	13.93	17.29	76.74
Corvallis	4.25	10.29	6.96	3.93	2.86	0.27	1.44	0.00	1.16	1.71	11.23	9.92	54.02
Dayville	0.46	2.75	1.19	1.39	1.82	0.44	0.69	0.24	0.26	0.40	2.05	2.82	14.01
Detroit	6.97	13.41	8.71	6.82	6.61	1.05	3.87	0.47	2.25	3.00	.....	.....	.....
Doraville	.....	.....	6.90	4.91	3.81	1.00	2.43	0.49	2.76	2.23	10.79	15.37	.....
Ella	1.77	2.24	0.43	1.48	1.42	T.	0.30	T.	0.47	0.37	1.48	1.60	11.56
*Eugene	5.43	8.34	4.19	5.49	3.99	0.32	2.37	0.17	0.91	1.76	10.69	9.84	51.50
Fairview	5.38	14.65	13.03	7.82	5.17	0.97	1.81	0.02	1.06	2.65	18.47	16.06	87.09
Falls City	8.64	21.16	14.50	5.79	3.81	1.11	1.07	0.02	1.87	3.55	21.15	22.02	104.19
Forestgrove	5.19	14.29	6.76	3.24	2.73	.....	.....	.....	.....	2.15	13.59	12.92	.....
Gardiner	7.15	16.44	16.83	7.79	5.68	2.07	1.29	0.00	1.08	4.54	18.42	19.15	100.44
Glenora	12.69	23.60	15.38	8.67	7.84	2.76	3.23	0.55	4.65	6.60	31.54	29.97	147.48
Government Camp	5.64	6.85	10.27	5.23	7.24	1.54	5.71	1.35	4.23	3.75	18.13	13.46	83.80
Grants Pass	2.22	12.83	2.35	3.31	1.30	0.12	0.30	T.	0.20	1.19	7.95	7.43	39.20
Grass Valley	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.52	2.19	2.30	.....
Hare	8.01	26.36	17.71	10.72	7.27	1.67	1.94	0.08	.....	.....	.....	.....	.....
Heppner	0.93	1.48	1.46	2.58	1.24	0.47	0.47	0.11	0.59	0.76	2.02	3.06	15.17
Hood River (near)	3.81	7.09	3.61	3.34	1.06	0.30	0.38	0.01	1.04	1.30	9.49	10.57	42.00
Huntington	0.89	3.54	0.86	0.55	0.59	0.42	0.65	0.38	0.20	0.50	1.86	3.41	13.85
Jacksonville	1.16	9.63	2.14	2.78	1.33	0.15	0.44	1.92	0.21	0.75	6.70	5.43	32.64
Joseph	1.45	1.02	1.88	1.36	1.37	0.41	0.37	1.42	0.41	0.68	2.86	2.65	15.88
Junction City	2.40	8.22	3.17	2.75	2.60	0.25	1.15	0.00	0.55	1.00	9.65	10.66	42.40
Kerby	4.98	29.75	5.57	7.73	1.98	0.30	0.12	0.13	T.	2.95	18.20	18.41	63.12
Klamath Falls	T.	2.50	0.50	1.17	0.50	0.00	T.	1.75	0.00	0.85	0.79	3.20	11.26
Lafayette	3.86	8.55	4.63	3.09	2.29	0.57	1.66	0.00	0.93	2.06	8.04	9.21	44.89
Lagrande	0.79	1.90	1.83	1.71	2.45	0.83	1.20	1.25	0.69	0.94	3.46	3.04	19.99
Lakeview	0.83	3.32	1.41	2.28	2.22	0.10	0.45	0.18	0.21	1.17	2.20	2.38	16.75
Lonerock	1.26	1.62	.....	.....	.....	.....	0.28	0.33	0.54	0.51	0.49	3.56	2.56	.....
McMinnville	5.09	10.52	7.00	4.93	2.71	0.68	1.57	0.02	1.54	2.59	13.14	13.08	61.97

[1] S. P. R. R. Co.

[2] River observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oregon—Continued.													
Merlin	2.14	14.36	0.74	3.08	0.35	0.23	.....	.....	0.10	0.84	8.61	8.59	.....
McKenzie Bridge	.....	11.64	.....	7.39	6.13	0.94	2.80	0.05	1.47	2.70	16.11	15.30	.....
Monmouth	3.85	8.97	4.97	3.39	1.40	0.61	1.18	T.	0.95	1.15	10.52	11.15	48.14
Monroe	4.89	12.43	7.96	4.97	3.04	0.71	1.15	T.	0.94	2.08	13.13	15.07	66.37
Mount Angel	.....	7.54	5.89	4.80	2.42	0.90	1.87	0.04	0.60	2.81	11.70	10.62	.....
Nehalem	7.25	20.23	16.15	7.52	7.05	3.39	3.87	0.80	4.52	5.41	23.31	25.58	125.08
Newberg	4.42	9.56	6.62	4.63	2.24	0.70	1.87	0.14	1.71	2.15	11.84	10.94	56.82
Newport	7.78	13.10	12.78	6.29	4.33	1.92	2.51	0.15	1.75	2.92	15.09	17.60	86.22
Pendleton	1.32	2.14	0.59	2.30	1.78	0.34	0.52	0.15	0.80	.....	2.58	1.57	.....
Pine	1.45	4.18	0.69	0.70	0.87	1.00	0.60	0.95	0.06	0.51	3.19	4.91	19.11
Placer	3.61	16.54	3.54	4.53	3.20	0.41	0.60	0.00	0.30	1.86	7.78	9.57	51.94
*Portland	3.11	8.66	5.79	3.71	2.19	0.80	1.76	0.44	1.75	1.72	9.94	10.28	50.15
Prineville	0.30	1.00	0.34	1.82	0.94	0.08	0.11	0.46	0.24	0.36	1.56	1.55	8.76
Riddles	1.46	8.80	3.68	3.57	2.07	0.20	0.55	0.00	0.25	0.39	8.22	7.42	36.61
Riverside	0.65	2.43	.....	0.93	.....	.....	0.15	0.17	0.31	0.21	1.01	.....	.....
*Roseburg	2.24	7.67	3.22	3.86	2.43	0.38	0.79	T.	0.34	1.06	9.49	8.10	39.58
*Salem	1.48	8.10	6.00	3.71	3.59	0.90	1.81	.....	0.42	1.07	7.98	7.49	.....
Sheridan	3.43	9.55	6.50	3.17	2.34	0.32	0.55	0.00	1.30	1.90	11.58	12.55	53.19
Silverlake	0.24	1.45	0.25	2.27	0.67	T.	.....	.....	.....	.....	.....	2.16	.....
Silverton	3.39	7.63	5.12	4.69	3.90	1.63	2.18	0.09	1.46	1.52	9.38	11.21	51.60
Siskiyou	1.80	9.05	4.20	2.56	1.54	0.00	1.03	1.64	0.63	1.32	6.17	5.61	35.55
Smock	1.85	3.91	0.54	1.36	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sparta	2.53	5.00	1.30	0.95	1.52	1.20	0.90	0.90	0.35	0.52	4.40	.....	.....
Springfield	3.66	7.36	3.84	4.07	.....	.....	2.87	0.00	0.60	1.26	4.92	5.60	.....
Stafford	4.06	9.50	6.39	4.84	2.81	1.13	2.30	0.17	1.96	.....	.....	.....	.....
*The Dalles	1.61	3.79	0.52	1.82	0.63	0.13	0.26	0.00	0.36	0.78	3.53	4.00	17.43
Toledo	7.13	14.21	14.69	6.31	4.86	1.95	2.20	0.10	1.54	3.06	16.77	16.54	89.36
*Umatilla	1.22	2.10	0.05	1.27	0.53	0.00	0.07	0.08	0.67	0.21	1.69	0.81	8.70
Vale	0.50	2.50	0.80	0.86	0.39	0.75	0.23	0.28	0.25	0.54	1.62	1.38	9.60
Wamic	.....	.....	.....	.....	0.51	0.05	0.72	.....	0.25	0.80	3.19	7.27	.....
Warmspring	.....	.....	.....	.....	0.55	0.04	0.47	0.11	0.01	0.30	1.02	2.34	.....
Westfork	2.62	14.80	2.70	1.85	0.40	0.00	.....	0.00	.....	.....	.....	.....	.....
Weston	1.78	3.02	1.19	2.95	4.01	0.16	2.06	0.27	1.24	1.22	5.87	4.75	28.52
Williams	2.28	11.50	2.78	2.70	1.30	0.20	0.25	0.30	0.16	0.60	8.60	8.16	38.81
Pennsylvania.													
Aleppo	2.57	2.24	4.46	4.16	1.90	3.67	8.55	2.99	3.95	2.95	3.02	5.54	46.00
Altoona	2.85	2.00	3.96	5.30	1.50	5.40	6.88	1.12	1.58	4.36	1.05	5.37	41.77
Athens	2.05	1.89	3.41	2.71	1.65	5.18	5.68	2.17	4.01	3.08	1.11	2.93	35.87
Aqueduct	.....	.....	.....	.....	.....	5.18	.....	.....	.....	.....	.....	.....	.....
Beaver Dam	.....	.....	2.99	2.79	1.73	5.74	3.61	2.39	1.98	3.25	1.54	4.29	.....
Bellefonte	2.70	3.06	5.23	3.91	2.30	6.47	6.89	1.23	4.67	3.49	1.87	5.21	46.97
*Brookville	3.04	2.65	3.64	3.40	3.68	6.80	7.02	0.94	2.34	2.93	1.70	4.96	43.10
Browers	3.55	.....	3.80	4.12	2.03	.....	3.83	3.04	5.91	6.39	2.11	7.20	.....
California	2.03	1.52	3.58	5.00	2.12	3.85	7.33	1.85	2.23	4.21	1.84	4.33	39.89
Cassandra	3.14	4.75	3.75	5.44	1.61	5.72	8.42	2.14	2.02	5.73	1.36	4.16	48.24
Centerhall	1.50	.....	.....	.....	.....	.....	.....	.....	.....	5.20	0.80	.....	.....
*Clarion	1.88	1.98	3.70	3.49	3.54	6.14	10.17	2.26	2.32	3.48	1.82	5.99	46.77
Coatesville	3.64	6.92	5.00	4.71	1.75	6.40	3.19	2.78	8.31	6.78	2.28	7.73	59.49
*Confluence	2.80	2.70	4.44	5.08	4.37	4.08	5.56	2.17	2.39	4.45	1.65	6.23	45.92
Davis Island Dam	1.00	0.45	3.49	2.60	2.78	5.16	6.80	1.59	2.55	2.61	1.18	3.68	33.89
Derry Station	4.18	3.38	4.00	4.97	1.38	6.25	7.28	3.56	2.79	5.17	1.30	4.86	49.09
Doylestown	4.00	7.43	6.16	3.28	1.83	6.13	4.03	5.14	6.33	7.77	1.59	7.94	61.63
Drifton	.....	[3]3.70	4.60	2.60	1.20	.....	7.00	.....	.....	.....	.....	.....	.....
Driftwood	2.18	1.20	3.82	3.02	2.08	6.18	7.83	2.74	3.25	2.15	0.92	3.47	38.84
Duncannon	3.13	6.63	5.70	2.82	0.58	5.51	5.47	3.92	.....	.....	.....	.....	.....
Dushore	2.58	4.45	5.66	3.91	1.16	7.39	8.95	3.28	5.29	3.37	1.20	4.65	51.89
Dyberry	2.34	5.23	2.98	3.40	.....	.....	7.27	3.08	8.41	4.77	1.23	5.84	.....
East Bloomsburg	2.37	5.24	1.65	1.93	0.98	6.60	4.83	1.50	6.33	5.91	1.32	3.48	42.09
East Mauch Chunk	4.54	7.16	4.89	5.45	0.59	8.93	6.64	3.64	7.90	5.85	1.56	7.90	65.05
Easton	2.49	5.80	3.37	3.35	2.22	6.50	4.52	3.65	8.31	5.35	1.26	7.22	54.04
*Ellwood Junction	1.46	1.35	3.48	2.63	3.05	5.67	5.70	2.79	1.50	3.16	1.12	4.21	36.12
Emporium	2.27	3.23	3.78	3.32	2.29	7.15	12.35	2.49	2.93	2.06	1.72	5.00	48.59
Ephrata	3.25	5.78	3.68	3.43	1.72	5.82	3.10	6.44	4.50	7.42	2.20	6.17	53.46
*Erie	1.86	0.56	0.77	2.09	3.32	4.16	5.97	0.61	3.86	3.88	1.34	1.97	29.79
Everett	4.10	2.12	4.84	3.63	1.16	6.24	2.15	2.36	2.59	4.18	1.71	3.83	38.91
Forks of Neshaminy	2.64	5.19	3.45	3.39	2.02	6.89	4.70	4.59	5.74	6.05	1.75	6.69	53.10
Franklin	2.16	1.59	1.99	1.34	3.76	6.46	8.96	1.19	3.76	2.42	1.95	3.57	39.14
*Freeport	1.96	1.25	4.63	3.58	3.38	5.22	5.14	2.43	2.90	3.35	1.32	5.78	40.94
Girardville	4.22	6.45	6.39	3.57	1.31	7.76	5.02	2.83	8.44	6.92	1.90	7.04	61.85
Grampian	2.42	1.84	2.87	3.71	2.81	.....	.....	.....	.....	.....	.....	.....	.....
*Greensboro	2.26	1.55	3.72	3.77	3.11	5.48	7.06	2.02	2.58	3.79	1.45	5.02	41.81
Hamburg	4.09	6.44	4.38	4.59	.....	.....	.....	1.53	6.06	3.98	0.51	6.64	.....
Hamlinton	2.94	6.82	3.88	2.21	2.31	6.60	.....	3.13	11.04	4.69	1.91	4.09	.....
*Harrisburg	3.28	3.98	2.98	2.73	0.29	4.76	3.68	2.26	4.01	5.81	1.49	4.57	39.84
Hawthorn	2.58	[1]1.93	3.41	2.90	3.11	7.52	8.57	1.04	3.46	.....	.....	.....	.....
Herrs Island Dam	1.48	1.53	3.60	3.28	2.25	5.06	3.63	1.77	2.00	3.10	1.03	4.52	33.25
Huntingdon [1]	2.44	2.98	5.24	3.79	1.30	7.18	4.30	1.72	3.21	5.67	0.96	5.50	44.29
*Huntingdon [2]	1.76	2.08	4.32	3.24	0.91	5.78	3.77	0.91	2.64	5.30	1.04	5.08	36.78
Irwin	2.08	1.50	3.54	4.23	1.83	6.80	5.62	2.16	3.59	3.87	1.29	4.38	40.89
*Johnstown	3.47	2.48	5.09	4.86	2.18	6.73	5.19	2.49	2.31	4.58	1.69	6.11	47.18
Keating	.....	.....	.....	.....	1.86	5.48	8.29	2.30	.....	.....	.....	.....	.....
Kennett Square	3.77	6.18	4.28	4.91	1.42	5.91	2.11	[2]2.12	6.89	8.12	2.35	6.67	54.73
Lancaster	2.65	6.45	5.78	.....	0.89	.....	.....	.....	.....	.....	.....	.....	.....
Lansdale	3.19	6.92	3.74	3.53	1.52	3.59	2.68	3.15	4.08	6.39	1.63	6.45	45.87
Lawrenceville	1.75	1.95	2.80	2.70	2.16	5.54	7.37	2.14	4.30	2.22	1.19	3.21	36.33
Lebanon	3.62	5.67	4.79	3.38	0.43	6.18	4.21	5.49	4.43	5.93	1.45	7.46	53.04
Leroy	2.59	3.02	4.76	3.16	1.47	5.40	9.46	4.31	4.67	3.29	0.90	3.46	46.49
Lewisburg	3.53	4.41	5.84	2.76	0.62	8.28	6.86	2.12	6.40	4.86	1.80	4.96	52.44

[1] Prof. W. J. Swigart.

[2] River observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Pennsylvania—Continued.													
Lockhaven[1]	2.76	3.59	4.93	5.01	0.70	6.12	8.34	1.86	4.52	3.93	1.06	4.27	47.09
*Lockhaven[2]	2.57	2.10	4.32	3.74	0.93	5.59	10.90	2.57	7.28	4.43	1.21	4.40	50.04
*Lock No. 4	2.19	1.39	3.04	3.75	2.05	3.35	7.01	2.52	1.85	4.58	1.14	3.96	36.83
Lycippus	3.83	2.74	3.91	4.20	1.28	6.09	4.79	2.26	2.03	4.12	1.62	5.17	42.04
Mifflin	3.65	3.35	5.10	2.25	1.45	6.60	5.60	0.30	4.60	4.97	1.61	4.22	43.70
Milford	1.88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Oil City	1.88	1.63	3.12	2.96	3.65	7.24	10.66	2.02	3.06	2.74	1.78	4.80	45.54
Ottsville	3.20	5.21	3.62	3.10	1.61	5.72	4.53	1.37	7.28	5.38	1.61	7.49	50.12
*Parker	2.26	1.50	3.22	3.30	2.87	6.14	7.08	2.24	1.82	3.54	1.35	5.56	40.88
*Philadelphia	2.77	5.49	3.97	3.29	2.01	6.08	3.51	2.34	4.97	6.66	2.04	6.63	49.76
Philadelphia[3]	2.95	5.61	4.50	3.53	1.74	6.52	4.35	3.21	5.06	8.11	2.19	8.11	55.88
Pittsburg	1.49	1.45	4.15	2.70	2.30	5.79	2.94	1.61	2.21	2.79	1.08	3.71	32.22
Pocono Lake	2.07	4.91	5.63	4.06	0.82	6.25	6.84	3.41	11.95	5.69	0.70	2.66	54.99
Point Pleasant	2.85	6.32	3.28	3.50	1.72	5.07	4.46	3.21	7.17	5.88	1.66	7.03	52.15
Pottstown	3.71	6.00	3.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pottsville	4.41	5.64	5.49	4.36	0.87	7.12	6.43	5.05	6.34	6.04	1.61	7.80	61.16
Quakertown	3.26	5.05	4.90	4.31	1.55	5.15	3.99	3.32	7.90	5.68	1.70	8.06	54.87
Reading	3.45	6.72	3.00	3.96	1.09	5.29	3.52	4.31	6.87	4.50	1.76	7.10	51.57
Renovo[2]	2.23	1.65	3.25	2.84	1.43	4.71	8.90	1.51	3.57	2.68	0.89	4.55	38.21
Renovo[4]	.....	.....	.....	2.61	1.47	.....	7.79	1.41	3.48	2.77	0.79	3.75	.....
Saegerstown	2.48	1.49	2.41	4.21	4.36	6.11	9.28	1.91	3.61	3.99	2.03	4.11	45.94
St. Marys	2.62	4.10	2.39	3.47	2.39	6.56	8.65	1.43	2.23	1.65	0.55	.....	.....
*Saltsburg	2.62	1.75	4.16	3.82	1.49	4.94	.....	2.10	2.02	3.43	1.00	4.69	.....
Seisholtzville	4.39	6.49	4.56	4.31	2.08	6.54	3.88	6.17	7.24	6.05	1.74	8.51	61.96
*Scranton	2.14	4.73	3.14	2.27	1.61	6.69	4.60	3.28	6.23	4.94	1.06	4.36	45.05
*Selinsgrove	3.28	3.23	5.08	3.23	0.94	8.11	4.79	1.69	5.16	4.90	1.54	4.26	46.21
Shawmont	2.09	5.09	3.59	3.06	1.73	5.10	4.52	2.90	4.31	6.29	1.76	6.39	46.82
Smethport	.....	1.80	2.35	2.75	3.30	.....	9.33	1.25	2.23	2.12	1.75	.....	.....
Smiths Corners	2.93	4.28	3.50	3.46	1.77	5.03	5.57	2.87	6.68	6.41	1.72	6.57	50.79
Somerset	5.15	5.65	7.50	7.14	3.85	4.45	4.74	2.72	1.69	4.25	2.44	6.81	56.39
South Bethlehem	3.07	6.89	5.03	3.37	1.07	6.75	4.10	5.82	6.32	5.90	1.64	8.89	58.35
South Eaton	1.42	5.26	4.06	2.22	1.34	6.61	5.41	2.27	8.15	7.05	1.00	6.09	50.88
Spring Mount	2.80	5.72	3.41	2.61	2.42	4.74	2.77	1.94	7.83	6.26	2.13	6.35	48.98
State College	3.02	2.92	4.91	3.13	0.92	6.71	5.76	1.37	2.59	4.25	1.44	4.82	41.84
Sunbury	2.30	3.10	4.10	0.90	0.10	6.93	6.40	0.95	2.25	4.70	.....	2.60	.....
Swarthmore	3.05	.....	4.02	3.88	.....	5.89	.....	3.94	5.10	7.42	2.00	.....	.....
*Towanda	1.72	3.35	4.07	2.36	1.06	4.86	7.77	2.02	4.58	3.35	1.11	2.95	39.20
Troutrun	5.47	2.70	6.98	4.70	1.43	6.68	5.35	2.76	6.56	3.96	1.19	3.50	51.28
Uniontown	2.57	2.66	5.66	5.48	3.10	5.95	6.81	2.63	3.01	3.65	1.59	4.75	47.86
*Warren	1.26	1.57	1.36	2.51	4.45	5.79	9.90	0.68	4.29	2.89	1.40	4.57	40.67
Wellsboro	1.54	2.70	2.67	2.86	2.05	6.17	9.48	1.29	3.32	2.14	0.50	5.18	39.90
Westchester	4.06	7.18	4.65	4.63	1.60	6.75	3.61	4.12	7.00	7.92	2.60	7.95	62.07
*West Newton	2.67	2.40	4.12	4.33	1.76	4.52	6.82	1.42	1.52	5.25	1.27	6.02	42.10
Westtown	4.08	5.98	2.81	.....	1.55	.....	.....	.....	.....	.....	.....	.....	.....
*Wilkesbarre	2.23	5.60	3.19	1.58	0.98	5.10	5.01	1.89	6.82	4.29	1.14	4.95	43.78
Williamsport	3.61	4.81	4.05	2.43	1.45	5.61	6.02	1.69	5.65	2.10	1.31	3.74	42.47
York	2.73	6.74	4.80	3.41	1.24	5.16	5.74	4.22	4.12	6.40	2.39	6.15	53.09
Rhode Island.													
*Block Island	1.67	6.15	6.33	3.29	1.04	5.35	2.31	1.42	3.96	4.70	1.77	7.64	45.63
Bristol	1.64	5.61	5.32	3.82	1.14	3.44	2.14	0.66	2.23	4.06	1.58	6.29	37.93
Kingston	2.62	6.46	7.29	4.93	1.34	4.15	3.23	1.69	4.05	4.26	2.12	8.03	50.17
*Narragansett	1.92	7.01	6.18	3.37	1.01	3.60	3.25	1.81	3.77	4.54	1.59	6.37	44.42
Pawtucket	2.02	7.49	5.39	2.02	1.08	4.75	4.03	2.68	3.87	4.29	1.18	5.62	44.42
Providence[5]	2.06	6.98	5.71	3.09	1.20	4.17	3.41	2.39	6.55	4.57	1.80	6.40	48.33
Providence[6]	2.08	7.14	6.05	3.09	1.31	4.70	3.94	2.58	6.39	4.83	1.99	6.00	50.10
South Carolina.													
Aiken	1.35	5.80	5.32	3.35	2.02	3.70	4.47	7.75	3.64	4.42	3.70	5.10	50.62
*Allendale	1.75	3.80	4.28	1.92	2.26	7.35	6.66	3.35	1.75	5.33	2.25	3.75	44.45
Anderson	3.40	9.99	4.93	*1.50	2.74	3.64	4.29	3.19	4.95	2.24	3.33	4.32	48.52
Barksdale	3.41	10.51	4.38	1.70	0.50	5.70	4.83	2.25	.....	3.10	.....	4.50	.....
*Batesburg	2.82	7.76	6.62	2.55	0.90	6.38	2.39	8.68	2.47	7.34	4.08	5.34	57.33
Beaufort	0.77	4.07	4.34	1.88	4.97	2.16	7.21	5.62	7.97	7.32	4.77	4.49	55.57
Bennettsville	.....	.....	.....	.....	.....	.....	.....	3.28	1.98	2.73	4.94	1.92	.....
*Blackville	0.36	5.96	4.98	3.21	1.11	6.91	2.48	5.12	4.47	4.88	2.25	4.82	46.55
Bowman	0.86	4.75	3.38	2.91	3.38	8.02	3.58	4.63	1.10	4.80	3.21	3.33	43.97
*Calhoun Falls	3.49	7.20	6.20	1.49	1.03	4.25	1.85	3.04	6.26	3.38	1.70	5.82	45.71
*Camden	1.97	4.67	3.69	1.98	4.62	5.46	3.56	5.43	2.25	4.31	2.95	4.28	45.17
*Charleston	0.45	2.92	4.36	1.03	1.43	1.82	6.79	3.04	3.73	3.37	4.05	4.23	37.22
*Cheraw[7]	2.73	5.43	2.84	2.58	4.04	1.39	6.87	3.34	2.64	3.53	3.48	4.57	43.44
*Cheraw[2]	2.87	5.22	2.62	2.34	4.08	1.42	6.38	4.97	2.41	3.52	3.67	4.59	44.09
Clarks Hill	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.87	.....
Clemson College	4.14	9.44	4.70	1.47	1.42	4.28	4.66	3.17	5.42	3.14	4.43	5.22	51.49
*Columbia	1.85	5.12	4.16	3.23	3.33	4.43	2.78	7.14	2.86	4.39	2.31	3.60	46.20
*Conway	1.16	5.81	3.25	1.08	2.50	4.20	1.80	8.25	6.03	5.94	3.94	6.80	50.76
Darlington	2.21	4.94	1.90	2.86	3.78	2.62	3.14	6.53	1.32	2.96	5.46	2.58	40.30
Due West	3.07	9.44	5.52	2.14	0.82	4.07	1.86	3.05	5.42	3.25	2.58	5.13	46.35
*Edisto	1.12	5.59	3.38	3.43	3.76	7.53	4.81	6.86	3.02	3.59	.....	.....	.....
*Effingham	0.97	6.24	3.58	3.15	3.44	6.08	2.74	6.80	1.76	5.97	3.44	4.59	48.76
*Florence	1.30	5.49	1.98	2.42	2.89	2.82	2.43	4.22	1.16	3.79	4.38	4.59	37.47
*Gaffney	2.67	7.73	5.24	1.63	1.34	7.11	2.28	3.51	3.38	5.28	1.88	5.60	47.65
Georgetown	1.90	4.65	6.00	2.09	1.57	4.00	.....	4.55	.....	3.95	5.40	5.60	.....
Gillisonville	0.74	3.68	4.71	1.99	4.54	4.02	8.02	5.03	5.10	6.23	3.53	5.35	51.94
*Greenville	3.02	9.35	4.52	1.94	1.47	5.34	3.41	4.49	4.42	3.39	2.39	6.38	50.12
*Greenwood	3.05	8.14	5.59	1.92	2.12	5.38	2.10	3.86	4.98	4.58	3.60	6.06	51.38
Heath Springs	3.27	6.30	3.12	2.25	2.56	3.77	2.65	7.34	1.78	5.32	3.55	2.66	44.56
*Kingstree[7]	1.36	6.18	2.58	1.67	2.77	4.20	5.50	6.35	2.17	3.02	2.30	5.76	43.86

[1] Prof. J. A. Robb.
[2] River observer.
[3] Jno. Comly.
[4] F. C. Eyster.
[5] City engineer.
[6] Ladd Observatory.
[7] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Carolina.—Continued.													
*Kingstree[1]	1.39	6.22	2.60	1.62	2.80	4.18	5.57	7.01	2.46	3.43	2.33	5.71	45.32
Liberty	3.24	8.04	4.38	1.37	0.29	3.01	3.78	6.21	5.62	3.31	3.75	5.86	48.86
Little Mountain	2.33	4.98	4.43	2.54	2.89	4.82	3.03	6.18	2.94	5.93	2.91	3.29	46.27
Longshore	4.18	5.64	4.67	2.55	1.32	5.47	2.83	5.39	4.71	4.59	4.09	3.60	49.04
Lugoff	1.95	4.89	3.79	1.98	3.72	4.22	3.99	5.68	2.75	4.93	4.33	.....	.....
Pinopolis	2.75	5.57	3.60	1.43	2.35	4.70	.....	2.59	4.47	4.72	5.09	4.77	.....
*St. Georges	1.16	5.88	3.13	1.90	2.41	5.40	5.57	4.88	4.60	2.69	2.80	6.34	46.76
*St. Matthews	1.67	7.35	4.51	3.14	3.18	3.76	2.96	6.54	2.55	5.07	3.52	4.35	48.60
*St. Stephens	1.65	4.95	3.27	2.77	2.43	5.05	2.26	5.85	6.30	3.95	3.81	5.40	47.69
Saluda	.....	.....	.....	2.37	0.64	4.83	1.08	4.80	2.94	4.56	3.38	2.86	.....
Santuck	3.32	7.64	3.65	3.79	2.45	3.61	1.69	4.33	3.49	7.25	4.47	3.54	49.23
Seivern	1.27	4.57	6.01	2.17	0.59	7.22	3.85	5.51	2.46	4.04	3.21	4.48	45.38
*Smiths Mills	1.76	5.55	4.83	2.66	5.65	4.00	3.59	6.92	6.95	3.50	4.70	5.25	55.36
Societyhill	2.47	4.93	2.43	3.02	4.20	2.28	3.42	4.87	2.00	2.82	5.27	2.21	39.92
*Spartanburg	3.06	7.88	5.02	1.28	1.81	6.43	3.61	1.20	5.30	4.36	3.33	4.68	47.96
Statesburg	1.23	4.15	3.21	2.92	2.25	4.67	2.11	7.45	3.10	3.83	4.47	2.97	42.36
Summerville	1.24	4.65	3.29	1.19	3.25	2.81	5.40	6.82	5.56	5.13	7.01	4.22	50.57
Sumter	0.60	4.16	2.90	3.92	3.22	3.24	.....	.....	2.03	6.56	3.52	.....	.....
Temperance	2.05	5.50	3.13	3.39	6.53	3.54	3.26	3.85	3.24	3.07	6.62	2.57	46.75
Trenton	1.40	6.39	7.19	2.58	1.62	8.11	3.53	5.08	2.32	4.75	4.65	4.01	51.63
Trial	1.35	4.88	3.20	2.30	5.66	4.52	1.89	5.30	3.57	4.31	3.85	3.55	44.38
Walhalla	3.65	7.58	4.75	0.87	.....	2.47	2.90	3.35	7.40	.....	.....	.....	.....
Winnsboro	3.02	4.03	2.83	2.20	2.20	6.78	0.71	6.54	2.51	7.34	3.26	2.74	43.16
Winthrop College	3.64	5.10	4.12	1.98	2.81	4.98	2.58	7.11	4.31	4.69	3.76	3.67	48.75
*Yemassee	0.42	2.38	3.93	1.27	2.04	2.61	3.62	7.49	6.29	4.05	2.08	5.62	47.80
Yorkville	3.50	7.60	4.12	1.75	1.80	5.33	2.34	2.69	5.23	5.86	5.99	4.44	50.15
South Dakota.													
*Aberdeen	.....	0.15	2.82	2.45	3.88	3.92	2.30	1.51	0.59	2.65	0.85	4.80	.....
Academy	0.41	0.48	1.90	2.37	2.50	2.50	1.89	5.34	0.70	0.60	0.78	2.53	22.00
Alexandria	0.82	1.35	1.01	2.03	3.36	3.86	1.39	4.36	1.15	1.70	0.45	2.45	23.43
Armour	0.60	1.80	2.00	1.87	1.44	1.38	3.36	4.01	1.92	0.58	0.27	2.75	21.98
Ashcroft	0.35	0.55	2.05	1.60	3.98	2.41	2.98	1.26	0.13	0.44	T.	0.25	16.00
Bad Nation	0.11	0.21	[d]1.09	.....	1.61	[d]1.38	.....	.....	.....	0.21	.....	.....	.....
Bowdle	0.10	0.37	1.52	3.87	2.08	4.26	1.41	3.58	0.35	0.50	0.20	1.16	19.39
Brookings	0.50	0.26	0.67	1.60	2.66	3.17	2.75	5.30	0.26	1.18	0.96	2.52	21.83
Canton	0.24	0.13	0.43	1.99	4.54	2.97	4.39	6.07	2.66	0.05	0.81	1.16	25.44
Centerville	0.76	0.78	1.82	1.59	4.07	1.68	5.57	3.00	2.22	0.32	0.61	1.80	24.22
Chamberlain	0.24	0.35	1.64	1.10	1.66	2.28	0.37	4.68	0.15	0.45	0.45	1.49	14.81
Clark	0.43	0.45	2.07	1.29	2.85	3.73	2.57	3.13	0.51	0.85	0.60	1.50	19.98
Desmet	0.80	0.22	2.17	2.28	4.16	3.83	3.55	4.93	0.45	1.50	0.33	.....	.....
Doland	0.23	0.44	1.83	1.60	2.67	4.16	4.81	3.15	0.35	0.53	0.47	2.05	22.29
Elkpoint	0.62	0.96	1.62	3.32	1.76	2.86	8.02	4.22	4.12	0.25	0.33	2.89	30.97
Fairfax	.....	.....	.....	.....	.....	.....	.....	.....	1.80	.....	.....	.....	.....
Farmingdale	0.13	0.10	2.47	2.39	2.74	3.13	1.20	1.08	0.44	0.38	0.26	0.43	14.75
Faulkton	0.22	0.23	2.68	1.56	1.45	4.39	1.58	3.58	0.45	0.41	0.30	1.49	18.34
Flandreau	0.44	0.26	0.65	0.75	4.57	1.36	2.50	9.84	1.74	1.38	0.70	1.95	26.14
Forestburg	0.45	0.51	1.57	1.16	2.61	3.44	1.51	5.00	0.15	1.86	0.18	1.83	19.77
Fort Meade	1.53	2.30	5.53	3.80	3.35	3.57	1.11	0.07	0.75	0.10	0.01	0.07	22.19
Fort Randall	0.10	0.47	2.37	1.72	1.36	1.31	.....	.....	.....	.....	.....	.....	.....
Gannvalley	0.40	0.80	2.54	1.27	2.04	4.54	1.89	3.91	0.15	0.72	0.41	2.15	20.82
Gary	0.30	1.06	.....	.....	.....	.....	.....	2.55	2.12	0.70	1.05	1.77	.....
Gettysburg	.....	.....	.....	.....	.....	.....	.....	3.90	0.20	1.50	0.02	0.84	.....
Grand River School	0.09	0.42	1.36	1.22	3.08	2.32	0.56	3.18	0.32	0.43	0.01	0.06	13.00
Greenwood	0.55	0.58	1.90	2.09	1.85	1.69	3.60	5.96	3.18	0.38	0.30	2.50	24.58
Hartman	0.25	0.65	1.08	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Highmore	.....	.....	.....	.....	.....	.....	.....	3.20	0.40	0.20	.....	1.10	.....
Hitchcock	.....	.....	.....	.....	.....	3.12	0.93	1.69	.....	.....	.....	.....	.....
Hotch City	0.13	0.26	1.60	1.36	1.19	1.95	1.47	3.59	0.42	T.	0.51	1.12	13.60
Howard	0.30	0.71	1.86	2.32	1.07	6.87	2.33	6.51	0.64	2.70	.....	.....	.....
Howell	0.15	0.22	2.45	1.01	1.29	5.51	1.65	2.48	0.26	0.43	0.45	1.52	17.42
*Huron	0.32	0.39	1.56	1.11	2.24	3.55	1.53	2.36	0.19	0.76	0.29	2.12	16.42
Interior	0.45	0.23	3.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ipswich	0.01	0.50	3.25	2.50	8.35	2.95	1.80	2.85	0.64	0.52	0.19	1.10	24.66
Kimball	0.41	1.04	1.85	1.85	1.75	2.39	1.14	3.77	0.34	0.59	0.44	2.06	17.63
Leola	0.02	0.47	3.54	2.97	3.13	2.55	1.35	3.14	0.40	0.43	0.35	1.00	19.35
Leslie	T.	T.	2.60	1.96	1.95	3.27	0.05	5.73	0.35	0.95	0.05	1.97	18.88
Marion	0.45	0.38	0.86	[f]1.68	3.21	2.36	2.16	2.66	1.64	0.65	0.15	2.10	18.30
Mellette	0.10	0.08	1.82	1.34	2.66	2.34	2.18	3.98	0.35	0.54	0.45	1.11	16.95
Menno	0.48	0.62	1.03	1.60	3.73	2.37	4.70	3.62	1.88	0.57	0.20	1.99	22.79
*Millbank	0.30	0.30	1.37	0.72	3.73	2.63	2.04	2.70	0.11	1.29	1.04	1.50	17.73
*Mitchell	0.05	0.23	1.37	1.55	1.62	.....	1.50	4.35	0.90	1.57	0.55	2.12	.....
Mound City	T.	0.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oelrichs	0.60	1.00	2.30	1.19	2.60	5.80	2.10	1.30	1.30	0.47	0.22	1.41	19.79
Pedro	.....	0.22	2.08	2.93	6.79	10.31	2.43	6.68	T.	3.10	0.20	1.33	.....
*Pierre	0.37	0.83	1.38	1.47	0.81	5.60	1.18	4.82	0.70	0.50	0.17	2.21	20.04
Pine Ridge	0.03	0.57	1.48	0.68	1.13	4.68	1.78	.....	0.60	0.58	0.08	0.88	.....
Plankinton	0.40	1.04	1.96	1.15	1.99	3.73	1.62	3.70	0.30	0.70	0.52	1.68	18.79
Ramsey	.....	.....	.....	1.06	4.43	2.11	1.28	6.45	1.33	1.35	0.28	1.70	.....
*Rapid City	0.18	0.14	3.34	2.49	2.97	2.96	8.59	0.72	0.43	0.21	0.68	0.80	18.51
*Redfield	0.11	0.22	1.34	1.33	2.30	2.85	4.68	2.64	0.24	0.40	0.46	1.27	17.84
Rochford	0.40	1.40	2.58	3.01	2.52	2.69	2.61	.....	.....	.....	.....	.....	.....
Rosebud	0.20	0.43	0.48	1.12	1.87	2.51	1.44	3.06	0.58	0.76	0.31	1.90	14.68
St. Lawrence	0.05	0.05	1.41	2.12	1.82	6.24	2.11	3.16	0.12	.....	.....	.....	.....
Silver City	0.28	T.	2.12	2.55	3.80	2.87	2.20	1.19	0.50	0.22	0.33	1.20	17.26
Sioux Falls	0.48	0.37	1.35	1.35	5.67	2.98	2.76	4.85	3.17	0.85	0.53	1.66	25.92
Sisseton Agency	0.12	0.18	1.01	1.96	4.76	2.48	2.57	2.88	0.38	1.80	0.61	1.68	20.43
Spearfish	1.31	1.93	1.57	2.31	3.50	1.98	2.41	1.44	1.38	0.48	0.16	1.87	19.44
Tyndall	.....	.....	1.04	1.33	1.54	1.81	0.20	4.82	3.14	0.57	0.18	1.22	.....
Vermillion	0.77	0.55	0.99	2.52	1.32	2.76	5.55	4.01	5.27	0.14	0.45	1.71	26.04

[1] River observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Dakota—Continued.													
Watertown								3.34	0.13	1.75	0.40	1.05	.....
Waubay	0.25	0.10	1.34	1.28	3.25	1.70	2.76	2.91	0.30	2.16	0.49	1.15	17.69
Wentworth	0.29	0.26	0.88	1.32	4.71	1.45	1.50	6.47	0.70	1.38	0.64	2.19	21.79
Wessington Springs	0.30	.....	2.65	.....	.....	.....	1.28	2.02	T.	0.35	0.72	.....	.....
Wolsey	0.45	0.53	2.38	1.28	2.03	3.39	2.15	2.30	0.07	0.87	0.40	2.07	17.92
*Yankton	.....	0.58	1.32	1.55	1.74	5.03	4.18	4.84	8.17	1.17	0.28	3.32	.....
Tennessee.													
Andersonville	4.63	3.78	7.78	1.50	2.72	4.33	3.26	2.17	5.98	2.22	4.10	4.92	47.39
*Arlington				2.20	4.64	8.99	2.40	9.36	2.44	2.64	3.27	.....	.....
Ashwood	5.49	2.67	7.40	2.95	1.90	3.20	1.40	2.85	5.88	1.45	5.60	4.71	45.50
Benton	4.01	4.95	5.86	2.50	2.07	5.14	†2.43	.....	6.06	2.75	4.13	3.97	.....
*Bluff City	3.04	5.05	3.80	1.66	2.07	8.02	3.38	2.70	3.18	2.27	2.22	2.64	40.03
*Bolivar	6.10	3.20	8.43	2.06	1.90	4.25	1.36	5.02	4.73	1.07	4.87	10.41	52.90
Bristol	2.77	4.94	3.88	0.97	1.68	7.72	2.05	3.55	2.84	2.14	2.55	2.11	37.20
*Brownsville				2.23	3.14	5.20	0.54	4.61	3.15	1.82	.....	.....	.....
Byrdstown	5.36	1.70	7.92	3.02	1.63	6.26	1.49	4.22	5.43	2.78	7.60	6.34	53.75
*Carthage	5.09	2.27	7.58	3.45	3.03	4.51	0.53	4.53	4.61	2.80	4.89	6.08	49.37
*Charleston	3.71	4.79	6.56	2.66	.....	6.23	.....	.....	.....	.....	3.17	4.58	.....
*Chattanooga	3.48	3.54	5.16	1.65	2.19	1.33	0.67	1.31	3.59	2.47	3.90	3.61	32.90
*Clarksville	7.30	1.98	5.66	5.97	7.09	2.95	1.70	2.50	4.73	1.07	4.76	9.46	55.16
*Clinton	4.80	3.05	7.47	1.48	2.43	5.46	3.30	1.10	5.23	0.75	5.00	4.32	44.39
*Covington	7.83	2.43	6.58	1.45	4.25	7.38	0.64	6.68	1.75	2.52	3.97	6.40	51.88
Decatur	3.78	4.63	7.07	2.38	3.35	2.50	3.93	1.32	5.69	3.01	5.18	6.44	49.23
Dickson	4.18	3.50	6.00	7.60	4.00	2.25	1.95	5.25	6.35	3.00	.....	10.10	.....
Dover	.....	.....	.....	.....	.....	§3.27	0.77	.....	.....	.....	5.87	7.54	.....
*Dyersburg					2.06	3.97	0.25	4.92	1.74	2.70	.....	.....	.....
*Elizabethton	2.85	4.76	3.55	2.05	1.87	8.19	4.40	3.06	5.43	2.03	2.99	1.57	42.75
Erasmus	6.15	3.82	9.83	2.45	3.87	8.23	2.91	3.09	4.74	3.89	5.60	5.33	59.91
Florence	4.71	2.60	9.53	3.17	4.81	2.16	0.19	2.14	7.11	2.00	5.63	5.53	49.58
Franklin	4.90	2.86	9.89	2.76	3.38	1.54	0.55	2.10	9.26	3.18	4.81	7.53	52.76
Grace	6.70	3.50	10.90	2.60	2.40	7.70	4.50	6.90	5.70	3.60	5.70	5.70	65.90
*Greeneville	3.19	4.12	4.52	2.31	2.14	8.62	1.64	2.98	3.71	1.50	2.66	1.80	39.19
Harriman	5.91	3.15	9.68	1.97	3.30	6.31	2.10	2.11	6.49	2.02	4.12	.....	.....
Hohenwald	6.62	3.00	10.59	3.56	3.88	4.40	1.59	3.82	6.98	1.53	5.04	9.49	60.50
Iron City	5.94	2.17	11.24	2.31	1.77	2.12	4.06	3.78	5.14	1.86	5.76	7.71	53.86
Isabella	3.21	6.72	5.55	2.02	2.47	3.52	1.66	3.68	4.68	1.25	4.75	4.73	44.24
Jackson	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.06	9.06	.....
*Johnsonville	5.61	2.46	5.91	4.21	2.43	4.24	2.27	2.34	3.80	1.68	4.51	9.96	49.42
Jonesboro	3.22	4.33	4.60	2.55	.....	.....	2.22	2.91	5.40	1.60	2.98	2.12	.....
Kenton	.....	.....	.....	2.58	2.57	2.58	T.	4.76	3.20	3.51	4.79	10.53	.....
*Kingston	5.29	4.24	7.57	2.01	3.72	5.70	2.10	2.18	5.05	2.91	4.48	5.08	50.33
*Knoxville	3.71	3.53	6.37	1.79	2.09	5.45	3.73	2.39	8.04	0.99	4.03	3.46	45.58
Lafayette	7.30	2.00	7.18	2.44	1.21	2.20	1.45	2.35	5.90	.....	.....	.....	.....
*Leadvale	.....	.....	.....	0.15	0.16	5.28	0.14	0.04	1.28	0.22	1.44	2.26	.....
Lebanon	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.32	2.45	3.52	.....
Lewisburg	5.70	3.32	12.50	2.94	2.01	1.60	1.87	6.21	4.01	1.90	5.04	5.22	52.32
Liberty	5.11	2.78	5.99	2.38	6.41	5.57	2.13	2.93	7.22	2.80	3.46	5.27	52.05
Lynnville	5.15	2.25	11.88	2.22	2.25	1.91	3.56	5.40	3.65	1.87	3.69	5.28	49.11
McKenzie	5.06	2.10	5.70	3.60	1.47	2.43	0.32	3.73	2.55	1.83	3.65	9.40	41.88
McMinnville	.....	.....	.....	.....	3.44	4.21	3.15	1.89	7.17	2.79	4.75	4.62	.....
Maryville	3.77	4.03	6.05	2.48	2.27	4.36	2.99	1.99	4.57	1.25	4.57	4.12	42.45
*Memphis	6.00	2.16	5.96	2.69	4.49	5.27	1.10	4.51	2.67	3.23	4.15	8.09	50.32
*Milan	.....	.....	.....	3.39	2.16	3.78	0.96	4.98	3.68	2.60	.....	.....	.....
*Nashville	4.68	2.20	6.96	3.08	4.36	2.77	1.89	2.69	2.82	1.83	4.04	6.58	43.90
*Newport	3.70	4.75	5.15	2.52	2.90	5.40	2.83	1.60	6.75	1.70	2.92	2.19	42.41
Nunnelly	4.50	1.75	8.19	4.67	2.57	1.84	1.72	4.92	4.92	1.28	4.57	7.35	48.28
Oakhill	4.40	.....	9.71	2.90	3.00	5.90	3.00	2.60	3.81	3.00	.....	2.80	.....
Palmetto	5.58	3.16	10.75	2.70	1.95	3.05	2.22	4.01	4.30	1.87	4.71	4.68	48.98
Peryear	7.45	3.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pope	5.77	2.75	7.85	3.54	4.13	2.04	1.05	4.83	6.30	0.80	4.70	9.90	53.66
*Rogersville	4.04	4.29	5.13	1.68	3.00	6.20	1.33	2.85	4.49	2.75	2.72	2.66	41.14
Rugby	4.68	4.47	11.75	2.51	2.56	5.13	3.08	2.92	4.81	3.48	7.18	6.52	59.09
Savannah	6.64	2.55	9.14	1.61	7.04	4.08	2.60	5.40	7.14	0.66	5.81	10.44	63.11
Sewanee	4.47	4.30	5.61	3.23	2.62	3.16	3.00	2.17	5.85	3.82	6.10	3.57	47.90
Silverlake	3.12	5.50	4.47	2.64	2.99	10.08	1.95	6.35	4.67	2.50	3.20	2.91	50.38
*Sinking Spring	.....	.....	.....	2.17	2.32	4.84	.....	.....	.....	.....	.....	.....	.....
Springdale	4.49	.....	.....	1.95	3.86	7.95	3.66	1.65	.....	.....	.....	3.52	.....
Springfield	.....	.....	.....	.....	.....	3.93	0.10	1.00	4.85	.....	.....	.....	.....
Springville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8.91	.....
*Tazewell	4.03	2.85	7.46	1.63	1.99	7.97	2.23	2.92	5.13	2.55	3.75	4.71	46.62
Tellico Plains	3.59	4.90	5.86	2.85	3.18	5.02	4.68	3.04	5.73	2.97	4.32	3.92	49.56
Tracy City	4.22	4.03	6.26	3.03	2.95	1.84	1.74	3.80	5.39	3.19	6.35	4.71	47.51
Trenton	6.92	3.70	5.84	2.28	.....	.....	.....	.....	3.01	3.10	4.20	10.19	.....
Tullahoma	5.90	3.40	8.35	2.95	2.67	2.25	3.60	2.45	6.60	2.22	.....	.....	.....
Union City	4.00	3.15	5.95	3.40	.....	.....	.....	.....	3.28	3.57	4.98	8.48	.....
Waynesboro	6.95	3.20	8.50	2.32	3.24	2.27	1.35	3.00	5.80	1.36	5.12	7.00	50.11
Wildersville	°5.21	1.68	9.42	4.73	4.59	3.36	2.65	8.25	2.69	1.58	4.25	9.64	58.05
Yukon	5.00	3.68	6.43	2.78	2.05	2.53	1.56	.....	.....	2.38	5.01	5.91	.....
Texas.													
*Abilene	0.09	0.31	2.25	0.86	6.68	1.00	7.82	0.06	3.13	2.00	2.46	0.39	27.05
Albany	T.	0.10	2.38	0.85	5.79	1.61	5.57	0.50	1.43	1.98	4.70	1.55	26.46
Alvin	1.05	1.91	0.78	3.18	4.69	8.32	3.90	0.20	7.85	3.13	10.03	3.42	48.41
*Amarillo	0.04	T.	0.74	1.83	9.14	2.01	1.45	2.42	0.95	1.74	2.24	0.55	23.11
Anna	0.87	0.10	7.10	1.40	5.19	1.06	2.34	1.76	9.05	2.82	13.47	1.60	46.76
Anson	T.	T.	1.50	1.10	2.80	0.20	¶.75	T.	2.00	1.65	2.40	0.55	18.95
*Arthur	1.63	0.76	4.13	4.36	7.39	3.95	5.84	0.90	6.75	3.63	12.38	3.10	54.82
Austin	0.30	1.41	0.90	3.31	3.30	0.60	6.23	0.00	5.61	0.80	6.20	4.20	32.86
*Ballinger	0.27	0.50	0.75	0.58	7.08	2.20	5.96	0.62	1.25	0.88	4.09	0.24	24.44
Bastrop	0.45	.....	0.67	2.80	2.15	0.66	9.18	0.00	10.48	0.35	7.17	3.55	.....

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
*Beaumont	1.16	2.17	2.86	3.55	2.02	1.23	6.92	0.09	8.24	10.24	22.74	2.43	63.65
*Beeville	1.27	1.46	0.09	0.72	3.75	0.70	1.90	0.00	7.68	1.47	8.03	2.68	29.75
Bigspring	0.61	0.02	T.	0.56	4.55	1.41	12.89	1.24	2.46	0.92	2.28	0.34	27.28
*Blanco	0.71	0.80	1.70	1.70	3.61	0.01	5.47	0.12	4.50	1.74	8.14	2.36	30.86
Boerne	0.97	1.02	1.97	2.32	5.94	0.39	2.77	0.06	2.84	2.78	9.00	3.65	33.71
*Booth	2.06	3.23	1.21	4.30	2.89	7.29	4.90	0.58	7.32	3.22	5.58	2.69	45.27
Bowie	T.	0.35	4.20	2.21	4.67	0.12	3.14	0.52	4.96	2.68	6.45	1.60	30.90
Brazoria	2.18	2.89	1.49	2.13	3.51	7.60	4.37	0.65	8.74	2.79	5.69	3.46	45.50
*Brenham	1.30	1.74	1.78	3.09	2.03	2.53	11.75	0.00	7.04	11.21	8.33	1.70	52.50
Brighton	2.10	2.06	0.27	0.64	3.46	1.23	0.34	0.00	6.36	1.09	3.97	3.42	24.94
*Brownwood	.....	.....	.....	.....	2.47	1.24	4.50	T.	0.82	0.70	.....	.....	.....
Burnet	0.27	0.20	4.12	2.93	2.72	2.17	6.59	0.00	3.96	3.28	7.77	2.24	36.25
Camp Eagle Pass	0.24	0.75	T.	0.45	2.86	0.00	1.02	0.00	4.20	0.30	2.92	3.00	15.74
Childress	.....	.....	.....	.....	8.56	0.62	2.32	0.80	4.07	1.40	1.22	0.76	.....
Coleman	0.35	0.80	1.79	1.33	4.71	3.08	3.49	0.12	4.41	1.52	2.78	0.65	25.03
College Station	0.90	1.10	1.10	2.35	3.80	1.40	9.30	0.00	3.78	4.81	9.45	1.15	39.14
Colorado	.....	.....	0.41	0.24	3.09	0.95	14.52	0.07	2.76	0.76	1.77	0.17	.....
*Columbia	1.48	2.58	1.17	4.58	6.60	4.23	3.00	0.31	10.56	5.52	8.45	3.69	52.17
Comanche	0.54	0.50	1.05	1.42	4.96	0.83	4.03	T.	1.87	2.24	4.99	0.66	23.09
*Corpus Christi	2.14	2.07	0.18	0.41	3.05	1.44	0.49	T.	3.63	1.93	3.91	2.34	21.59
*Corsicana	0.86	0.52	2.30	2.25	2.74	2.35	8.75	0.00	3.46	3.56	9.39	2.30	38.48
Cotulla	0.28	0.33	T.	0.02	5.80	0.00	1.75	0.00	2.80	.....	2.33	2.25	.....
*Cuero	1.51	1.71	0.25	2.63	6.10	5.86	1.71	0.01	12.03	2.97	5.50	1.26	41.54
*Dallas	1.18	0.26	3.37	1.97	2.98	1.16	7.00	0.64	1.99	3.71	10.12	1.82	36.15
Danevang	2.55	2.95	0.70	3.93	2.56	5.27	2.38	0.00	8.18	3.21	8.15	5.55	45.43
*Dublin	0.55	0.40	0.95	0.97	6.72	1.01	10.55	0.00	0.91	2.35	3.18	0.70	28.29
Duval	0.19	1.15	1.26	4.27	2.89	0.64	5.06	0.11	7.23	1.33	8.65	3.57	36.35
*El Paso	0.57	0.01	0.00	0.00	T.	0.01	3.27	2.85	1.86	0.31	0.49	0.78	10.15
Estelle	0.62	0.21	4.10	1.12	2.63	1.03	5.00	0.37	3.57	1.90	11.23	1.54	33.32
Fort Brown	0.50	1.30	0.00	0.80	2.86	0.60	0.60	0.00	6.90	1.25	3.32	0.00	17.62
Fort Clark	0.08	0.35	1.11	0.07	8.40	0.00	2.20	0.00	0.20	0.30	2.70	2.75	18.16
Fort Davis	0.16	T.	0.02	0.00	0.67	2.63	4.16	2.87	2.70	0.26	1.48	T.	14.95
Fort McIntosh	1.40	0.40	0.00	0.88	0.18	0.10	0.25	0.00	0.09	2.32	1.90	1.84	9.36
Fort Ringgold	0.02	0.00	T.	2.25	0.70	0.00	0.10	0.00	1.75	0.05	0.41	0.00	5.28
Fort Stockton	.....	.....	.....	.....	.....	.....	3.43	0.74	2.88	.....	.....	.....	.....
*Fort Worth	0.42	0.36	3.80	1.81	4.31	0.58	6.29	T.	2.40	1.40	6.89	1.95	29.31
Fredericksburg	0.84	0.42	3.02	1.74	4.97	0.06	4.10	0.00	0.83	3.80	11.72	1.77	32.77
Gainesville	0.35	0.22	4.14	1.53	4.18	0.27	1.22	0.07	4.32	2.04	6.02	2.14	26.50
*Galveston	0.92	2.12	0.92	2.85	2.72	8.22	2.81	0.00	7.11	1.48	6.59	1.93	37.67
Gatesville	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.10	5.08	1.62	.....
Georgetown	0.27	0.94	1.48	4.00	2.42	1.13	8.44	0.00	3.88	1.41	11.42	3.11	38.50
Grapevine	0.51	0.17	8.81	2.37	4.32	0.70	10.45	0.15	2.57	2.63	9.99	1.35	44.02
*Greenville	.....	.....	3.23	2.14	4.33	1.84	11.96	0.41	8.32	7.91	13.21	2.90	.....
Hale Center	0.10	T.	0.50	0.30	2.00	T.	4.70	T.	2.60	1.35	1.25	1.25	13.95
Hallettsville	0.87	2.08	0.87	3.47	3.54	4.11	2.76	0.00	10.10	2.45	4.98	2.41	37.64
Haskell	0.07	T.	1.01	1.10	3.29	1.95	6.80	0.80	1.34	2.61	2.13	0.82	21.92
*Hearne	.....	.....	.....	.....	3.72	2.60	15.96	0.00	8.13	3.69	.....	.....	.....
*Henrietta	0.02	0.11	3.91	2.62	4.50	0.90	1.01	0.67	4.69	2.79	6.47	1.24	28.93
Hewitt	0.20	0.53	1.97	3.90	5.32	1.90	11.68	0.00	4.95	2.55	10.58	1.77	45.35
Hondo	0.65	0.85	1.45	1.28	4.61	0.00	1.12	0.00	6.35	2.96	2.97	3.39	25.63
*Houston	1.16	3.86	1.13	3.65	3.77	5.01	7.44	0.37	6.78	2.92	8.81	2.38	47.28
*Huntsville	1.68	2.52	3.14	2.95	4.31	3.27	11.90	0.33	6.76	8.53	6.35	2.15	53.89
Ira	0.51	T.	T.	0.13	4.35	1.21	7.93	T.	2.71	0.96	1.85	0.48	20.13
Jacksonville	2.91	2.13	3.81	3.80	3.14	1.42	10.90	0.00	5.72	3.33	5.95	2.01	45.12
Jasper	1.50	3.11	3.21	2.24	3.76	1.95	6.46	0.83	3.64	2.80	8.45	3.64	41.59
Junction	1.86	0.37	0.52	1.67	5.79	0.00	2.81	0.00	1.42	1.01	3.36	2.42	21.23
Kaufman	1.61	0.35	2.53	2.47	2.65	2.12	10.40	T.	6.08	7.01	11.32	2.79	49.33
Kent	T.	0.00	T.	0.00	0.21	0.50	3.66	3.70	0.82	0.57	1.83	0.40	11.69
*Kerrville	0.76	0.57	2.41	1.15	4.05	0.00	2.19	0.42	2.72	1.67	11.85	2.80	30.59
*Kopperl	0.00	0.25	2.50	0.80	4.50	2.30	10.60	0.00	1.71	3.40	4.73	1.02	31.81
*Lampasas	0.84	0.62	1.77	1.71	2.99	1.81	4.50	0.00	2.03	2.40	7.13	1.88	27.68
Lapara	2.50	1.60	0.00	1.33	2.30	0.23	0.00	0.00	4.03	2.45	6.11	0.45	21.00
Laureles Ranch	1.54	1.79	0.00	0.67	2.02	0.86	0.00	0.00	4.00	0.25	6.47	3.33	20.93
Llano	0.65	0.24	1.13	1.95	2.35	0.80	4.27	0.00	2.10	2.95	6.50	2.50	25.44
*Longview	2.52	2.68	3.59	3.44	2.03	4.50	7.83	0.09	5.05	2.53	10.71	4.00	48.92
*Lulling	1.34	0.74	0.37	3.21	3.63	1.65	3.04	0.00	8.28	2.77	4.64	3.15	32.82
Mann	0.47	0.75	2.70	3.18	3.17	3.20	11.00	0.00	2.76	3.22	11.59	2.43	44.47
Marlin	.....	.....	.....	.....	.....	.....	.....	.....	2.76	1.05	14.53	2.98	.....
Menardville	1.60	0.20	0.00	1.67	5.80	0.75	2.29	0.00	4.96	1.26	4.63	1.07	24.23
Mount Blanco	T.	T.	0.02	0.03	2.12	0.01	3.26	0.02	0.10	1.17	1.16	0.20	8.09
*Nacogdoches	2.51	3.60	5.21	2.91	4.54	14.22	5.77	0.48	10.03	5.57	6.19	2.04	63.07
New Braunfels	1.08	0.66	0.63	2.40	3.35	0.22	7.89	0.00	7.31	2.04	4.60	2.31	32.49
*Palestine	1.56	1.83	3.31	2.13	2.02	1.57	10.03	T.	5.14	3.42	7.08	1.67	39.76
Panter	0.22	0.78	1.29	2.53	4.28	0.55	8.94	0.00	3.13	.....	5.31	1.38	.....
*Paris	0.44	2.20	4.02	4.67	4.28	1.97	4.62	0.10	6.74	3.80	11.90	3.45	48.19
Pearsall	.....	.....	0.22	0.45	3.91	0.00	3.64	0.00	1.75	1.41	3.56	2.56	.....
Port Lavaca	1.80	1.28	0.25	0.65	4.00	3.50	0.70	0.00	10.26	4.20	6.80	.....	.....
Rhineland	T.	T.	0.57	1.30	3.28	0.44	7.74	2.26	1.53	2.95	3.10	0.80	23.97
Rockisland	1.27	2.75	0.82	3.22	3.63	5.86	4.82	T.	6.61	2.08	12.46	2.55	46.06
Rockport	1.34	0.70	1.00	0.65	6.32	1.51	2.07	0.00	5.34	2.90	4.83	2.65	29.31
Runge	1.12	1.58	0.20	2.18	6.29	1.31	5.52	0.00	11.56	2.70	2.77	4.31	39.54
Sabine	.....	.....	.....	.....	.....	.....	7.99	T.	11.20	1.38	9.70	.....	.....
*San Antonio	0.70	0.55	0.12	2.31	3.14	0.02	3.85	0.00	5.52	2.54	3.53	2.51	24.79
Sanderson	T.	0.00	T.	1.00	1.98	0.00	0.01	0.55	.....	0.40	1.50	T.	.....
*San Marcos	0.89	1.03	0.40	3.16	4.51	0.72	14.83	0.00	9.34	4.51	5.87	0.00	42.26
San Saba	0.99	0.85	1.36	2.49	4.03	0.82	5.33	0.00	3.92	2.09	6.75	1.31	29.94
Santa Gertrude Ranch	1.75	1.60	0.11	0.94	0.87	0.15	8.18	0.00	4.38	1.26	4.63	3.19	19.06
Shaeffer Ranch	.....	2.96	T.	0.63	1.92	1.11	0.42	0.08	10.09	1.12	3.08	1.84	.....
*Sherman	0.92	0.56	5.44	2.23	8.81	0.89	3.31	1.03	9.08	3.20	9.58	1.82	46.87
Sonora	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.23	.....
Sugarland	0.76	3.75	2.15	3.90	4.25	4.11	6.10	0.00	9.00	2.50	4.23	2.86	43.61
Sulphur Springs	1.44	2.88	3.41	4.61	3.89	1.70	15.67	0.06	5.81	4.71	9.69	2.98	56.85

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
*Taylor	0.51	0.90	0.72	2.38	2.23	1.04	7.98	0.00	7.27	1.78	6.29	2.03	33.13
Temple[1]	0.80	0.99	2.37	2.89	5.67	1.91	20.42	0.00	5.03	2.48	13.90	3.22	59.18
*Temple[2]	0.36	0.72	2.25	2.59	5.58	1.78	19.79	0.00	4.92	2.49	13.11	2.95	56.54
Trinity	1.47	2.43	3.32	3.62	5.45	3.24	6.95	0.02	6.11	9.37	4.68	1.81	48.47
Tulia	0.20	T.	0.65	1.35	7.47	0.87	2.20	0.00	2.05	.....	1.85	0.70	.....
*Tyler	1.10	1.98	2.66	3.22	0.61	4.50	6.95	0.10	4.38	2.87	9.30	2.99	40.66
Victoria	1.55	1.10	0.68	2.85	3.23	2.03	3.48	0.00	9.08	0.98	2.95	4.10	32.03
*Waco	0.76	0.65	2.35	4.02	5.57	3.15	8.95	0.00	6.23	3.40	10.36	1.95	47.39
*Waxahachie	1.20	0.35	2.55	2.20	6.60	2.25	8.75	0.00	6.35	3.40	9.95	.....	.....
*Weatherford	0.19	0.16	4.63	2.16	2.77	0.62	6.15	0.22	2.82	2.19	3.62	1.07	26.60
Weimer	.....	1.58	2.38	4.74	3.07	3.90	6.00	0.00	7.23	3.05	9.30	.....	.....
*Wharton	.....	.....	.....	.....	4.62	7.12	3.44	0.50	9.07	3.06	.....	.....	.....
Wichita Falls	0.10	0.00	2.66	2.07	11.05	T.	0.98	0.00	6.95	4.90	7.39	1.45	37.55
Utah.													
Alpine	1.20	.....	1.76	2.39	0.60	0.38	T.	.....	.....	.....	.....	0.80	.....
Aneth	0.06	0.19	0.46	0.01	0.37	0.00	0.19	1.22	0.35	0.00	1.36	1.09	5.30
Blackrock	0.26	0.20	1.15	0.16	0.23	T.	0.40	0.19	0.84	0.53	1.97	0.45	6.38
Bluecreek	0.40	0.52	0.10	1.75	0.89	.....	0.50	0.05	0.00	0.20	0.87	1.42	.....
Callao	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.44	0.28	.....
Castledale	0.20	0.11	0.62	.....	0.45	T.	0.15	0.23	0.29	0.00	1.72	0.10	.....
Cisco	1.35	1.00	0.10	0.50	.....	.....	0.00	1.25	1.00	0.00	1.00	0.40	.....
Corinne	0.98	2.44	1.11	1.54	1.45	T.	1.00	0.36	T.	0.61	1.64	1.97	13.10
Coyoto	0.45	0.20	0.95	1.40	0.26	0.26	0.64	0.48	0.30	0.18	2.19	0.80	8.01
Deseret	0.48	0.30	0.82	0.36	0.32	T.	0.08	0.04	0.40	0.20	1.65	0.20	4.86
Emery	0.10	T.	0.10	0.00	T.	0.00	T.	0.45	T.	T.	0.29	T.	0.94
Escalante	1.90	0.30	2.55	0.90	0.23	T.	1.00	.....	.....	0.21	1.52	.....	.....
Farmington	1.65	1.89	1.73	2.91	2.11	0.17	0.95	0.34	T.	0.32	1.73	1.92	15.72
Fillmore	1.03	1.03	2.59	0.36	0.90	0.09	0.49	0.16	1.51	0.58	2.70	0.46	11.90
Fort Duchesne	0.17	0.05	0.14	0.70	0.30	0.50	0.05	.....	.....	0.00	.....	.....	.....
Frisco	0.95	0.02	0.72	0.10	T.	T.	0.74	0.82	0.47	0.15	1.22	0.39	5.58
Giles	T.	0.06	0.41	0.03	0.25	0.14	0.30	0.40	0.57	0.05	0.70	0.29	3.20
Government Creek	0.58	1.02	1.50	2.42	0.61	0.07	0.22	0.08	0.50	0.17	2.29	0.72	10.18
Greenriver	0.28	0.63	0.08	0.00	0.10	0.09	T.	0.62	1.66	0.03	2.38	0.52	6.39
Grover	0.80	1.00	1.55	0.42	0.45	T.	0.58	0.66	0.57	0.10	2.45	0.30	8.88
Heber	0.50	1.03	1.46	1.88	0.49	0.37	0.15	0.50	0.45	0.45	1.77	1.04	10.09
Henefer	1.39	1.80	1.86	2.09	1.49	0.43	0.47	0.12	0.89	0.52	1.51	1.61	14.18
Hite	.....	0.60	.....	.....	0.40	0.00	0.09	0.87	0.65	T.	1.29	0.20	.....
Huntsville	1.16	2.41	1.82	2.59	2.24	0.89	0.35	0.29	0.62	0.41	1.34	2.07	16.19
Kanab	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.00	3.98	1.37	.....
Kelton	0.20	0.30	0.10	1.25	0.28	0.00	0.00	T.	T.	T.	0.65	0.30	3.08
Lasal	1.52	1.57	1.87	0.05	.....	0.03	0.06	0.09	2.03	T.	1.37	.....	.....
Levan	0.53	1.41	2.41	1.20	0.16	0.03	0.32	0.20	0.91	1.62	1.98	1.72	12.49
Loa	0.80	0.40	1.50	.....	0.10	0.00	0.00	0.78	0.33	0.00	1.20	0.65	.....
Logan	0.28	0.95	2.53	2.52	2.19	0.74	0.52	0.27	T.	0.51	1.80	1.02	13.33
Lund	0.24	0.05	0.53	T.	T.	.....	.....	.....	.....	.....	.....	.....	.....
Manti	0.52	0.90	1.50	1.08	0.49	0.04	0.26	T.	0.83	0.40	1.38	0.86	8.26
Marysvale	0.50	0.78	1.02	0.69	0.29	0.19	0.85	1.20	0.79	0.36	1.81	0.63	9.11
Meadowville	0.40	0.85	1.00	2.90	1.50	0.90	T.	0.30	0.40	0.40	0.95	1.30	10.90
Millville	0.39	1.19	0.37	2.92	1.97	0.31	0.46	0.32	0.12	0.43	2.23	1.58	12.29
Minersville	0.91	0.29	1.22	0.12	0.07	.....	0.41	0.48	0.97	0.10	2.70	.....	.....
Moab	0.40	0.49	0.91	0.40	0.84	0.43	0.30	0.53	1.26	T.	1.94	0.40	7.90
*Modena	0.33	0.32	0.54	0.13	0.19	0.02	T.	1.58	0.76	0.04	0.89	0.29	5.09
Monticello	.....	.....	.....	.....	T.	1.13	0.35	0.12	1.72	2.09	0.02	3.28	0.49	.....
Mount Nebo	0.45	0.60	0.40	0.87	0.29	T.	0.42	0.28	T.	0.45	0.86	1.25	5.87
Mount Pleasant	1.30	1.28	1.06	1.91	0.27	0.09	0.38	.....	*0.44	.....	.....	1.32	.....
Ogden	0.90	2.39	1.15	2.70	1.60	0.27	0.82	0.34	0.21	0.42	1.36	1.96	14.12
Park City	1.90	1.18	4.04	1.96	0.67	.....	.....	.....	.....	.....	.....	.....	.....
Parowan	1.18	0.31	1.83	0.21	0.18	0.06	0.49	0.76	0.50	0.61	1.86	1.03	9.02
Pinto	0.61	0.95	2.66	0.25	0.19	T.	0.01	1.71	0.20	0.93	3.09	0.70	11.30
Plateau	.....	.....	.....	0.83	0.63	0.31	0.29	0.52	1.18	0.35	2.55	1.35	.....
Promontory	0.25	0.65	0.50	.....	0.28	0.00	0.00	0.00	0.00	0.00	1.10	.....	.....
Provo	0.35	1.12	1.80	2.14	0.36	0.10	0.11	0.20	.....	0.68	1.55	1.28	.....
Ranch	2.41	2.54	6.06	1.08	0.64	T.	0.05	2.25	0.25	0.50	5.59	1.66	23.03
Richfield	0.36	0.65	1.35	0.17	0.32	0.24	0.18	0.22	0.64	0.26	1.77	0.47	6.62
St. George	0.73	0.77	1.35	0.36	0.23	0.03	1.82	1.23	0.29	0.10	1.49	0.39	8.79
*Salt Lake City	0.80	1.17	1.22	3.69	0.33	0.37	0.56	0.15	0.06	0.52	1.24	1.31	11.41
Scipio	0.80	1.61	2.25	1.17	0.84	0.08	0.07	0.21	1.38	0.56	2.31	0.47	11.75
Snowville	0.60	1.47	1.32	1.82	0.63	0.34	0.39	0.00	0.15	0.49	1.40	0.90	9.51
Soldier Summit	0.55	0.70	0.80	0.04	0.02	0.00	.....	.....	.....	.....	.....	.....	.....
Terrace	T.	T.	T.	1.00	.....	0.20	.....	T.	T.	0.20	0.04	.....	.....
Thistle	1.90	2.05	2.00	2.23	0.35	0.00	0.35	0.20	0.85	0.41	2.10	1.45	13.89
Tooele	0.67	0.55	1.19	2.32	1.26	0.10	0.29	0.14	0.18	0.28	2.56	0.58	10.12
Tropic	0.30	0.49	.....	.....	0.86	0.00	0.57	1.31	0.22	0.22	1.93	0.46	.....
Vernal	0.21	0.51	0.86	0.72	0.52	0.51	0.12	0.46	0.99	0.05	1.12	0.97	7.04
Virgin	.....	1.10	1.30	0.23	T.	0.00	0.00	.....	.....	.....	.....	.....	.....
Wellington	0.24	0.29	1.05	.....	0.02	0.00	0.02	0.24	0.31	0.05	1.60	0.25	.....
Woodruff	.....	0.50	.....	.....	.....	0.18	0.22	0.29	0.19	0.30	.....	0.20	.....
Vermont.													
*Bellows Falls	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.38	.....
Bennington	2.70	2.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burlington	0.66	1.82	2.82	2.37	4.46	5.29	6.23	3.17	3.68	4.95	1.29	1.62	38.36
Chelsea	2.20	1.96	5.15	3.83	3.84	4.03	3.86	2.92	2.93	3.68	0.50	3.87	38.77
Cornwall	1.22	2.13	3.53	2.33	2.85	3.61	3.50	4.62	4.04	2.64	1.32	1.44	33.23
Enosburg Falls	2.97	6.46	4.81	3.08	4.96	5.64	5.10	2.85	3.28	5.51	2.59	2.40	48.65
Hartland	1.90	1.65	5.27	3.75	5.22	4.13	5.89	4.28	5.61	4.19	1.10	5.48	48.47
Jacksonville	2.70	4.16	5.20	5.71	2.29	3.34	4.66	2.65	7.92	4.41	0.95	2.82	46.81

[1] W. G. Jones.

[2] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Vermont—Con.inued.													
Manchester	1.37	1.51	1.74	4.45	3.58	3.70	7.66	3.92	4.06	5.78	1.44	5.30	44.50
Morrisville	2.22	3.96	7.57	5.37	7.16	9.36	5.05	5.50	6.03	6.32	1.24	6.71	66.48
						8.51			1.14		2.75	2.18	
Newport	2.09	2.37	4.97	3.84	3.42	3.84	2.91	4.06	3.81	3.01	1.06	3.45	38.33
*Northfield	1.74	1.00	5.20	3.80	3.32	3.47	4.03	3.49	4.24	4.99	•0.97		
Norwich	0.89	1.08	4.16	2.55	5.14	4.45	4.48	6.44	3.75	3.98	1.44	2.49	40.86
St. Johnsbury	1.64			4.77	1.80	3.46	8.01	3.06					
Vernon	1.39	1.55	3.60	2.40	3.49	4.09	7.54	3.00	3.46	5.31	1.03	3.80	40.66
Wells											0.12	3.10	
*Wells River											1.00	4.45	
*White River Junction													
Woodstock	2.23	2.69	3.97	3.81	3.59	3.55	4.61	3.89	5.85	4.50	0.74	4.99	44.42
Virginia.													
Alexandria	3.28	3.67	3.65	1.79	2.23	3.99	3.53	1.92	4.34	6.90	3.34	5.08	43.72
Ashland	2.93	3.61	1.66	2.97	4.00	5.07	2.75	2.61	4.86	4.94	4.19	5.74	45.33
Barboursville	3.30	4.62	3.47	2.75	4.16					7.79	4.37	4.25	
Bedford		5.40	3.86	1.78	1.91	4.58	2.49	2.34	1.94	6.52	2.17	2.86	
Bigstone Gap	4.87	5.01	6.25	2.14	2.26	7.16	3.50	2.69	4.58	1.63	4.02	3.95	48.06
Birdsnest	2.10	4.65	1.20	2.65	1.75	1.25	1.30	3.65	3.75				
Blacksburg	3.35	3.40	3.42	1.75	1.85	2.90	4.09	1.06	2.22	3.06	4.20	2.43	33.73
Bluemont										1.60	3.80	4.20	
Bonair	3.55	5.02	2.54	1.68	4.55	4.32	5.98	3.94	4.80	4.01	4.50	4.80	49.69
Boykins										1.76	3.50	3.00	
Buckingham	3.90			2.08	1.59	5.67	1.54	4.39	3.27	5.95	3.66	2.86	
Burkes Garden	3.95	4.85	5.08	2.12	2.61	6.77	3.34	2.47	2.56	2.36	3.69	4.15	43.95
Callaville	2.51		2.59	4.02	2.15	2.80	3.69	4.07	3.27	3.22	1.78	4.14	
*Cape Henry	2.09	4.98	1.83	1.30	3.26	1.35	2.22	4.41	4.69	2.91	2.25	2.50	33.79
Charlottesville	3.24	4.75	3.51	2.64	3.99	5.09	4.82	3.45	6.46	8.97	5.09	4.20	56.21
*Clarksville			1.40	1.15	3.40	2.55	4.50	2.70	4.45	3.30	2.35	4.43	
Cliftonforge	2.60		3.35	0.50		1.15	1.90	2.05					
Columbia	2.90	6.20	2.70	1.90	1.70	2.45	1.90	4.00	6.30	6.50	4.30	3.50	44.35
Dale Enterprise	2.27	4.62	4.86	1.68	3.28	2.90	2.73	3.54	2.75	3.08	3.50	3.45	38.66
*Danville			3.51	1.70	2.58	3.95	1.60	1.53	3.05	6.39	2.73	4.14	
Farmville	2.30	2.25		2.05	1.30	5.55	2.62	2.60	2.15	7.00		3.90	
Fredericksburg	3.30	3.91	2.72	3.51	3.45	5.78	6.34	1.68	3.61	9.66	5.16	4.47	53.59
Freeling		5.67	5.48	2.14	2.52	6.85	2.08	2.05					
Grahams Forge	•1.29	3.85	‡3.37	1.64	3.69	‡2.85	1.48	2.26		2.18	3.50	‡3.20	
Hampton	2.27	5.55	1.48	2.03	2.76	1.70	6.20	2.70	4.71	2.45	2.82	3.21	37.88
Hot Springs	3.65	5.25	3.63	1.71	1.77	5.46	1.19	2.27	2.28	2.97	3.82	=3.00	37.00
La Crosse									2.55	2.46	0.24	3.20	
Lexington	4.22	4.25	2.99	1.68	3.28	2.91	2.45	1.29	3.17	4.12	4.10	2.71	37.17
Lincoln	2.42	4.33	3.46	3.80	1.44	2.49	1.92	1.57	4.33	4.18	3.66	4.17	37.77
*Lynchburg	3.91	5.67	4.09	2.92	2.27	3.89	1.66	3.69	2.48	9.86	4.32	4.03	48.79
Manassas	1.90	6.10	3.25	2.50	1.35	2.23	2.74	1.09	2.95	5.08	3.22	4.44	36.85
Marion				1.93	1.80	6.80	0.90	8.55	3.20				
*Mendota				1.56	2.59	7.45	3.94	3.14	3.95	2.88	2.78	3.58	
Newport News	2.23	5.80	2.10	3.20	2.75	1.20	5.15	3.25	3.94	3.80	2.78	3.80	40.00
*Norfolk	2.15	4.66	2.44	1.79	3.16	2.88	3.74	4.51	4.82	2.86	3.05	2.42	38.48
Petersburg	2.95	5.67	2.60	3.53	3.86	3.47	3.87	4.42	4.43	2.53	2.50	3.32	43.15
*Radford	1.16	2.19	2.20	1.58	1.05	3.23	1.63	0.46	0.96	2.94	2.58	2.82	22.60
*Richmond	3.26	4.84	1.89	3.12	3.42	4.81	6.21	3.10	4.91	4.81	4.83	4.12	49.32
*Riverton	2.40	5.42	2.76	3.34	0.65	2.70	2.49	1.90	2.39	4.83	1.95	4.39	35.22
Roanoke	2.63	7.32	2.88		1.45	3.95	2.40	0.90	2.58	5.65	5.00		
*Rockymount						5.38	2.04	1.61	3.08	7.33	3.17	5.41	
*Salem	2.39	4.43	2.83	1.76	2.25	4.68							
Saxe								5.40	4.12	5.22	3.31	3.65	
*Speers Ferry	4.00	5.71	7.06	1.44	2.27	7.34	2.63	3.90	6.79	2.17	2.90	3.84	49.95
Shenandoah		3.98	3.92	1.67	2.05	2.37	1.23	2.58	2.96	3.49	3.64	2.27	
Spottsville	3.08	6.78	1.81	3.77	2.89	2.96	3.91	4.95	5.01	1.48	2.78	4.32	43.74
Stanardsville	2.57	2.20	3.40	3.20	2.55	3.15		3.70	4.16		1.10	4.00	
Staunton	2.21	4.92	2.61	2.46	4.54	3.08	3.18	0.80	3.66	3.54	3.61	3.58	38.19
Stephens City	‡2.69	4.67	4.75						1.69	3.37			
Warsaw		6.10	2.13	3.12	3.15	5.74	3.22	2.75	2.03	3.97	2.90	4.16	
Westpoint	2.65	4.50	1.38	3.28	4.70	3.14			2.40				
Wilkerson						5.60	2.56	1.78	3.55	5.92	4.39	5.32	
Williamsburg	2.79	5.14	0.97	3.71	3.54	2.49	4.78	3.18	3.91	2.94	3.71	3.07	40.23
*Woodstock	2.35	3.35	3.41	2.57	2.01	3.60	0.94	3.26	1.53	3.15	2.44	3.93	32.54
Wytheville	1.90	4.87	3.51	1.56	3.01	4.96	3.00	1.14	2.87	2.20	2.58	2.42	34.04
Washington.													
Aberdeen	6.76	22.41	10.97	5.14	4.35	3.06	1.33	0.42	5.13	6.21	15.17	18.95	99.90
Anacortes	3.60	2.20	3.06	2.56	1.98	0.59	0.58	1.15	1.85	0.70	5.51	3.44	27.32
Ashford	6.54	8.32	8.63	4.93	5.50	3.11	4.11	1.27	4.43	4.32	12.78	15.20	79.14
Blaine										2.11	6.65	6.56	
Bremerton	5.82	12.86	5.13	2.53	1.46	1.34	1.38	0.37	2.25	3.36	10.45	13.01	59.96
Bridgeport				0.76	0.70								
Brinnon	8.56	26.63	9.33	4.84	1.32	1.73	1.73	0.56	2.36	4.22	14.66	22.45	98.39
Cedonia	1.07	2.90	0.98	1.88	2.92	1.68	3.06	0.47	0.38	0.84	3.83	2.43	22.44
Centralia	•2.10	6.10	5.57	4.40	1.90	2.07	1.80	0.90	2.29	2.69	11.59	11.55	52.96
Cheney	1.99	2.99	1.04	1.81	2.58	T.	2.69	0.40	0.98	0.61	5.84	3.18	24.06
Clearwater	9.95	22.46	17.28	7.74	6.44	5.17	2.51	1.71	5.17	7.10	20.96	20.15	126.64
Clealum	2.73	4.16	2.01	2.35	0.78	0.04	0.88	0.09	0.87	0.79	6.06	7.77	28.53
Colfax		3.62	0.71	1.28	3.03	0.29	2.79	0.33	1.14	0.76	6.35	3.04	
Colville	1.05	3.22	0.76	1.51	2.60	1.21	2.95	0.41	0.50	0.30	3.27	3.10	20.88
Conconully	0.86	3.93	1.46	1.94	1.87	0.94	2.53	0.54	0.33	0.31	1.66	2.45	19.02
Connell	1.00	3.08		•0.70	0.91	0.00	0.00	T.	0.45				
Coupeville	2.66	2.23	2.36	2.59	2.20	0.78	0.42	0.60	1.97	0.67	3.43	2.89	22.80
Crescent	1.34	3.70	0.70	1.69	2.14	0.24	1.73	0.22	0.29	0.46	3.70	2.83	19.04
Dayton	1.41	1.29		2.03	2.81	0.07							
East Sound	2.95	2.79	4.04	2.49	1.57	0.39	1.13	1.13	2.21	1.65	6.37	6.52	33.24
Ellensburg	1.26	3.20	0.43	1.79	0.66	0.05	0.51	0.00	0.17	0.74	1.58	3.24	13.58
Ellensburg (near)	0.63	3.25	0.10	1.56	0.57	0.02	0.06	0.00	0.02		1.35	3.40	

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Washington—Continued.													
Grandmound	5.26	9.09	6.03	4.84	2.67	1.17	1.72	0.75	2.53	2.31	11.83	14.94	63.14
Granite Falls	5.00	10.78	9.64	6.61	6.11	3.49	3.75	2.25	4.51	2.21	8.14	10.93	73.42
Hooper	0.76	2.75	0.08	0.28	1.63	T.	0.72	0.14	0.43	0.42	3.28	2.91	13.3[illegible]
Ilwaco	7.10	21.66	9.92	6.20	4.72	2.23	.....	1.13	4.08	4.15	16.77	17.61	.....
Lacenter	6.15	10.94	7.63	4.43	3.56	0.82	2.90	0.87	2.62	2.08	14.73	12.32	69.05
Lakeside	1.01	3.30	0.45	1.75	0.69	T	1.74	0.15	0.23	0.08	1.77	3.98	15.15
Lind	1.68	2.53	0.63	1.79	2.22	0.07	0.88	0.23	0.59	0.26	3.56	2.49	16.63
Loomis	.....	4.35	0.09	2.05	2.05	0.65	2.74	0.60	0.36	.....	1.66	2.70	.....
Mayfield	6.89	7.86	9.15	5.37	4.77	[c]2.76	2.16	1.41	3.77	3.50	12.02	14.87	74.53
Mottinger Ranch	1.15	2.11	0.12	1.78	1.15	0.03	0.23	0.02	0.77	0.46	2.27	1.01	11.10
Mount Pleasant	5.06	10.08	6.37	7.26	4.27	1.43	2.37	1.21	2.54	2.08	12.88	11.39	66.94
Moxee Valley	0.42	2.70	0.50	1.68	1.07	0.06	0.64	T.	0.10	0.91	1.53	1.89	11.50
*Neahbay	9.13	25.75	12.74	5.15	4.46	3.43	1.37	1.10	3.95	7.02	.....	.....	.....
*North Head	.....	.....	.....	.....	.....	.....	.....	0.43	2.48	2.53	8.85	10.80	.....
Northport	0.45	1.45	0.36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Olga	2.40	1.86	3.36	2.03	1.69	0.55	0.98	[f]0.96	1.69	1.70	6.26	6.69	30.17
Olympia	7.15	11.68	6.78	5.17	2.43	0.74	1.76	0.24	2.71	2.98	15.09	14.04	70.77
Pasco	1.31	2.16	0.03	0.81	0.91	0.00	0.02	.....	.....	.....	.....	.....	.....
Pinehill	2.68	6.01	1.49	2.40	0.83	0.12	0.30	T.	0.69	0.92	5.64	7.72	28.80
Pomeroy	2.07	2.80	0.65	1.31	3.93	0.45	1.47	0.23	0.74	0.81	5.30	2.82	22.58
*Port Crescent	5.57	10.50	4.06	2.26	2.19	0.67	0.79	0.57	2.28	1.90	8.90	12.99	52.70
Port Townsend	1.91	3.17	2.78	1.78	1.95	0.93	0.46	0.94	1.47	0.51	3.19	3.23	22.32
Pullman	[d]1.55	2.49	1.26	1.02	2.42	0.04	2.14	0.07	1.22	0.70	6.35	2.92	22.18
Rattlesnake Mountains	.....	.....	.....	1.77	1.43	0.10	0.36	T.	0.45	1.03	2.47	2.14	.....
Renton	4.61	.....	.....	2.58	3.25	.....	.....	.....	.....	.....	.....	.....	.....
Republic	.....	.....	1.46	2.39	3.67	1.01	2.56	0.43	0.35	0.66	2.53	2.75	.....
Ritzville	1.27	4.22	0.41	0.48	0.93	0.00	.....	0.00	0.18	0.07	0.97	1.06	.....
Ritzville (near)	1.31	2.61	0.38	1.64	2.14	0.01	.....	0.10	[f]0.39	0.29	2.82	2.46	.....
Rosalia	1.14	2.98	0.76	1.76	2.92	0.22	2.83	0.41	1.48	0.50	6.25	3.00	24.25
*Seattle	5.25	8.10	4.19	2.20	1.86	1.71	2.01	0.48	2.15	2.71	6.30	8.82	45.78
Sedro	.....	4.07	6.24	3.33	3.84	0.80	2.54	2.27	3.64	.....	7.81	6.62	.....
Silvana	4.11	5.74	.....	3.05	2.10	1.55	[d]0.87	1.46	2.44	2.32	5.05	4.74	.....
Snohomish	5.79	10.40	5.17	2.98	3.35	1.65	2.76	0.81	1.88	1.74	5.86	7.45	49.84
Snoqualmie	7.11	8.32	7.75	5.43	6.07	1.77	2.97	0.97	3.35	3.50	11.50	10.45	69.19
Southbend	7.80	18.70	12.58	.....	5.10	2.98	2.63	0.55	3.18	4.96	18.83	22.39	.....
*Spokane	1.29	3.71	0.87	1.80	1.83	0.45	1.71	0.38	0.57	0.19	4.12	2.31	19.23
Sprague	2.10	4.10	0.50	1.30	2.10	0.00	1.50	0.20	1.10	0.50	5.40	1.60	20.40
Stampede	4.80	2.55	4.00	2.40	5.90	1.10	2.30	1.10	0.93	7.10	6.05	8.35	46.58
Sunnyside	0.73	1.91	0.17	1.54	0.86	0.11	0.15	0.00	0.27	0.72	1.11	1.11	8.68
*Tacoma	6.21	7.78	5.00	2.96	1.53	1.87	1.91	0.20	2.75	2.88	10.84	10.44	54.67
Trinidad	.....	.....	.....	.....	.....	.....	.....	.....	0.01	0.01	0.35	3.10	.....
*Twin	7.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Union	9.33	22.08	8.56	5.66	2.31	2.30	0.85	0.45	2.87	5.98	17.82	21.36	99.57
Usk	0.42	2.94	0.98	[j]1.25	2.31	1.13	3.21	0.57	1.17	[d]0.34	5.61	3.49	.....
Vancouver	3.86	9.14	4.76	3.14	2.28	0.75	1.94	0.31	1.92	1.74	10.00	11.13	50.97
Vashon	6.56	9.70	4.69	2.41	2.00	1.56	1.53	0.31	2.91	2.84	9.66	10.72	54.89
*Walla Walla	1.44	2.58	0.69	1.66	2.68	0.11	1.35	0.08	0.54	0.93	4.37	2.45	18.88
Waterville	1.57	4.33	0.08	1.74	1.22	0.13	1.04	0.17	0.05	T.	2.28	3.49	16.10
Wenatchee (near)	1.45	3.55	1.30	2.09	0.83	0.05	1.16	0.08	0.18	0.09	2.08	4.84	17.70
Whatcom	2.77	2.42	2.89	2.95	1.87	0.72	1.79	1.81	2.07	1.20	5.98	4.80	31.27
Wilbur	1.56	3.23	0.66	1.84	2.13	0.25	0.78	0.28	0.08	0.62	2.42	2.35	16.20
Zindel	.....	.....	.....	.....	.....	1.11	1.30	1.05	0.28	.....	2.00	2.58	.....
West Virginia.													
Addison	3.40	4.60	5.90	.....	5.50	5.90	2.80	1.80	2.50	3.50	3.00	5.40	.....
Bayard	.....	.....	.....	.....	2.75	3.75	4.00	2.00	3.00	2.58	2.76	6.21	.....
Beckley	.....	3.17	.....	0.59	1.63	2.88	2.00	.....	2.23	1.72	2.69	.....	.....
Beverly	3.05	3.82	5.33	4.57	5.64	4.72	5.44	2.89	4.56	1.83	3.56	6.37	51.78
Bluefield	3.37	5.15	4.51	1.82	2.90	6.20	2.40	.....	.....	.....	.....	.....	.....
Buckhannon	4.63	3.39	4.29	2.57	3.50	6.06	3.97	3.55	.....	.....	.....	6.23	.....
Burlington	2.50	4.55	4.40	2.95	1.80	4.71	1.65	3.02	2.47	2.85	2.68	3.87	37.45
Byrne	4.25	5.65	4.70	2.95	4.80	6.20	4.04	1.70	3.60	2.70	4.56	8.10	53.25
Cairo	.....	.....	.....	.....	1.30	4.00	[c]0.21	1.09	0.51	.....	2.40	4.36	.....
Camden	3.62	3.12	4.34	2.67	3.21	3.57	2.33	2.43	2.34	2.04	3.25	5.48	38.40
Central	3.45	2.08	3.00	3.47	2.98	6.99	4.13	2.36	3.68	1.44	3.29	5.64	42.51
Chapel	.....	.....	.....	1.95	5.11	5.21	3.35	1.15	2.54	.....	5.32	8.04	.....
*Charleston	4.29	3.77	4.59	3.01	4.26	6.35	[d]2.78	1.48	3.29	2.12	3.94	5.49	45.37
Clay	2.30	4.47	5.05	.....	.....	4.66	.....	.....	3.63	.....	4.55	3.83	.....
*Creston	1.72	2.08	3.93	2.77	1.75	4.90	3.17	1.12	1.23	2.57	2.65	6.53	33.52
Cuba	2.11	2.20	3.19	1.96	3.02	4.66	3.37	0.97	3.34	1.68	3.02	5.81	35.33
Dayton	3.15	2.61	3.07	2.76	3.47	6.55	3.27	2.01	4.80	2.37	2.75	6.88	43.69
Echo	.....	.....	.....	.....	3.37	6.04	2.47	1.21	2.85	2.35	4.80	7.60	.....
Elkhorn	4.39	4.17	3.16	2.06	3.59	5.63	2.37	3.03	2.97	1.89	4.00	2.72	39.48
*Elkins	3.90	2.86	4.39	3.61	4.08	5.22	6.23	3.61	4.81	2.76	3.92	5.88	51.27
*Fairmont	3.20	2.54	4.18	4.16	2.26	4.30	5.97	2.09	4.34	3.81	3.16	6.74	46.75
Foster	1.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Glenville	4.26	3.85	4.28	3.39	4.17	5.35	5.52	3.86	3.23	3.67	3.32	7.29	52.19
Grafton	3.82	2.38	5.14	3.50	5.02	5.68	4.83	4.80	4.68	2.92	3.11	6.86	52.74
Green Sulphur	4.28	2.82	3.30	1.53	2.64	3.68	1.68	1.15	2.63	1.11	2.69	2.01	29.52
*Harpers Ferry	3.20	2.20	6.14	2.10	1.50	2.00	5.60	0.60	1.95	5.54	2.91	5.45	39.19
*Hinton	4.14	3.64	4.32	1.93	3.07	4.25	1.33	1.98	1.50	2.25	2.39	3.30	34.05
*Huntington	4.10	2.83	3.92	2.93	5.58	5.60	3.01	1.59	2.15	2.85	3.64	6.46	44.56
Josiah	3.00	2.22	4.29	3.75	3.27	6.52	2.08	3.80	2.73	2.21	3.82	6.64	44.33
Leonard	5.79	2.46	3.66	4.22	2.70	5.52	3.47	6.05	3.96	4.16	3.23	4.56	49.78
Lewisburg	8.52	3.20	3.77	2.28	2.38	4.33	0.96	1.68	1.92	1.93	3.09	3.94	38.00
Lillydale	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.69	.....
Logan	5.70	4.25	4.15	3.63	3.35	6.40	3.26	2.91	3.55	2.27	4.03	5.77	49.17
Magnolia	8.29	4.53	4.45	4.15	2.25	3.09	3.18	2.69	1.79	2.62	2.80	3.95	38.79
Mannington	2.71	1.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marlinton	.....	.....	.....	.....	.....	.....	.....	.....	3.69	.....	.....	.....	.....
Martinsburg	3.25	3.20	5.75	3.72	1.56	3.22	4.52	2.16	2.60	4.55	3.55	3.25	41.33

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
West Virginia—Continued.													
Morgantown	3.63	2.48	3.92	3.48	1.72	7.16	8.42	4.87	3.24	3.95	2.24	6.12	51.23
Moscow	1.45	1.13	3.73	2.57	2.12	7.08	5.08	3.25	1.60	2.45	1.23	2.95	34.64
Moundsville	1.76	1.68	3.77	3.32	2.13	3.88	5.91	2.33	3.48	3.14	.....	.....	.....
New Martinsville	2.65	1.62	3.71	4.12	1.34	5.59	4.91	2.64	2.88	2.70	3.08	5.32	40.56
Nuttallburg	4.00	3.85	3.90	3.30	3.67	6.37	3.13	2.23	3.05	2.10	3.85	3.95	43.40
Oceana	5.51	4.02	5.38	2.88	3.54	.....	2.10	.....	.....	.....	.....	5.57	.....
Oldfields	1.64	3.88	5.09	3.26	2.28	3.31	2.91	1.72	2.07	.....	2.18	4.80	.....
*Parkersburg	2.42	1.83	3.32	2.85	3.42	4.72	1.85	1.58	2.03	1.43	2.61	4.45	32.71
Parsons	4.55	1.62	5.60	.....	2.90	3.00	3.30	1.30	3.43	0.90	2.60	.....	.....
*Philippi	1.95	.....	.....	.....	.....	7.06	4.40	2.71	3.03	2.35	3.01	7.34	.....
Pickens	.....	.....	.....	6.13	6.09	6.38	7.28	1.71	3.44	2.82	4.03	9.95	.....
*Point Pleasant	4.21	2.75	3.56	2.31	4.12	6.59	1.57	1.55	2.85	2.63	3.16	6.38	41.68
Powellton	5.18	4.64	4.23	2.76	3.95	8.49	3.27	1.63	.....	.....	.....	.....	.....
Princeton	5.45	8.65	5.55	2.20	3.75	4.90	3.60	2.60	2.35	2.65	4.15	4.30	50.15
Rippon	.....	.....	.....	.....	2.07	2.45	3.97	1.48	.....	5.18	.....	.....	.....
Romney	2.65	4.12	4.24	2.70	2.62	3.89	1.98	2.51	1.40	3.47	3.41	3.87	36.86
*Rowelsburg	4.97	2.69	4.42	4.08	3.26	5.27	5.74	2.53	3.01	4.52	3.29	7.91	51.69
Ryan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.89	6.17	.....
Southside	3.85	4.28	4.26	3.39	3.57	5.70	1.69	1.58	4.76	1.60	3.46	6.43	44.57
Spencer	.....	.....	.....	4.02	.....	.....	.....	.....	.....	.....	.....	.....	.....
Summerville	4.23	5.25	4.55	2.20	.....	.....	.....	.....	.....	.....	.....	.....	.....
Terra Alta	4.60	3.30	5.20	4.15	2.10	7.40	6.45	4.10	3.05	5.50	4.18	8.85	58.88
Travellers Repose	.....	.....	.....	.....	.....	.....	.....	1.43	4.28	2.08	2.94	3.91	.....
Upper Tract	2.28	3.50	3.68	2.35	2.23	3.81	2.07	2.87	2.37	2.21	3.19	3.14	33.70
Wellsburg	2.68	2.92	3.32	3.53	2.28	6.88	4.44	2.37	3.76	3.30	1.74	5.11	42.33
*Weston	4.17	2.91	4.44	3.44	3.34	5.17	5.76	2.69	2.56	3.59	3.71	7.34	49.12
*Wheeling[1]	1.56	1.33	3.46	4.47	2.05	4.47	7.36	3.77	2.73	3.53	1.79	5.38	41.90
Wheeling[2]	1.84	1.47	4.71	3.51	1.97	7.45	5.50	3.56	3.04	2.69	1.70	4.71	42.15
Williamson	5.84	3.99	6.29	2.71	2.85	5.72	1.57	1.84	2.95	2.53	3.92	4.28	44.49
Winfield	.....	.....	.....	2.89	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wisconsin.													
Amherst	0.55	1.90	1.00	1.18	5.75	3.65	5.92	3.70	3.30	1.32	1.40	2.47	32.14
Antigo	0.60	0.70	0.20	1.61	1.70	.....	0.97	1.80	0.70	1.57	.....	.....	.....
Appleton	0.55	1.54	1.72	1.58	5.20	3.27	6.37	1.99	1.36	1.58	1.44	2.81	29.41
Ashland	0.81	1.39	0.45	2.23	1.66	2.79	4.82	1.99	4.10	1.55	2.69	1.76	26.24
Barron	1.50	0.26	0.86	2.06	3.63	4.39	3.65	1.09	2.39	0.68	4.30	1.37	26.18
Bayfield	.....	.....	.....	.....	.....	.....	.....	.....	3.87	2.56	4.26	2.04	.....
Beloit	0.65	1.30	1.49	1.71	7.39	6.57	9.04	0.83	5.17	1.69	1.99	2.04	39.87
Brodhead	0.60	1.60	1.44	0.90	7.45	5.90	7.58	0.64	3.91	1.44	2.36	2.81	36.63
Butternut	0.91	1.65	2.09	2.78	1.44	3.37	3.06	1.74	3.93	3.06	2.98	1.51	28.52
Chilton	0.37	1.89	2.23	1.31	5.22	3.44	7.00	1.26	2.78	2.37	1.23	3.18	32.28
Citypoint	0.65	0.60	1.83	1.25	8.23	3.03	5.45	.....	3.16	.....	.....	2.85	.....
Darlington	0.30	.....	1.54	2.60	6.98	8.50	7.80	1.10	3.81	0.95	1.12	1.91	.....
Delavan	.....	.....	1.48	1.27	7.29	5.02	12.19	0.57	4.36	1.26	.....	.....	.....
Dodgeville	0.70	1.60	.....	.....	6.64	5.07	7.96	0.70	4.50	1.30	1.02	1.80	.....
Downing	.....	.....	.....	.....	.....	.....	3.73	2.00	2.45	1.65	3.80	3.61	.....
Easton	0.68	1.46	1.33	0.66	8.96	2.59	4.62	1.13	3.21	1.52	1.27	2.34	29.77
Eau Claire	0.77	0.88	1.51	3.49	5.27	2.27	5.91	3.25	2.21	2.58	4.28	3.05	36.47
Florence	0.75	.....	1.33	3.85	2.61	3.56	1.31	2.18	1.94	1.61	3.44	2.68	.....
Fond du Lac	0.17	0.33	0.52	0.93	6.06	4.72	8.74	0.95	3.05	1.42	1.35	1.62	29.86
Grand River Locks	0.20	2.12	2.57	1.40	10.31	4.13	9.45	0.95	4.80	1.98	1.65	2.38	41.94
Grantsburg	0.85	0.05	0.75	1.99	2.85	2.98	5.31	1.36	3.55	1.82	3.05	2.68	27.24
*Greenbay	0.45	1.39	2.65	1.49	4.20	4.41	4.10	1.23	2.63	1.56	1.42	1.78	27.61
Hancock	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.35	1.82	.....
Harvey	0.14	1.41	0.93	0.80	5.35	4.35	12.03	0.90	4.17	1.18	2.47	1.94	35.67
Hayward	1.01	0.22	0.40	2.18	1.28	5.03	5.36	1.96	3.96	2.40	2.42	2.33	28.55
Hillsboro	0.70	1.05	1.65	1.58	8.32	3.17	6.02	0.72	2.93	1.78	1.61	2.85	32.38
Knapp	0.60	.....	0.30	2.15	3.80	.....	.....	.....	.....	.....	.....	.....	.....
Koepenick	1.00	0.90	0.90	3.10	3.50	4.30	3.30	0.80	2.50	2.20	3.60	1.60	27.70
*La Crosse	0.63	0.73	1.05	0.81	8.25	2.63	5.75	2.30	2.97	1.35	1.76	2.03	30.26
Ladysmith	1.95	0.83	1.55	2.17	1.96	3.20	6.37	3.03	2.17	2.61	4.17	2.36	32.37
Lancaster	0.92	0.89	1.49	1.80	6.49	5.50	9.20	0.48	4.25	1.12	1.33	1.91	35.38
*Madison	0.17	1.46	0.60	1.17	5.16	4.27	8.98	0.78	4.18	1.23	1.41	1.84	31.25
Manitowoc	0.26	2.27	2.05	0.97	3.70	3.81	8.89	1.69	2.60	2.14	2.09	2.43	32.90
Meadow Valley	0.34	0.78	1.06	1.13	9.45	2.35	6.53	2.39	3.78	1.36	2.29	1.66	33.12
Medford	1.00	1.60	1.70	3.90	5.30	2.80	7.20	5.20	4.15	3.20	5.30	0.70	42.05
Menasha	0.69	1.51	1.30	1.52	5.50	3.88	6.83	0.93	3.53	1.73	1.08	1.88	30.33
*Milwaukee	0.51	1.13	1.91	0.67	4.60	4.71	4.82	0.58	4.27	1.81	1.85	1.82	28.68
Neillsville	1.25	0.60	1.78	2.15	6.52	3.53	6.27	3.12	3.63	1.46	2.85	3.05	36.15
New Holstein	0.40	.....	.....	0.90	5.10	4.09	.....	.....	2.36	1.76	0.65	2.90	.....
New London	0.42	2.11	1.33	1.93	8.17	4.09	6.48	1.62	2.34	1.57	1.88	2.38	34.32
North Crandon	1.05	1.02	1.52	2.72	3.01	.....	.....	1.94	1.74	2.54	5.75	0.65	.....
Oconto	1.45	1.93	1.26	2.14	2.79	3.71	5.53	1.41	2.22	2.23	2.17	2.50	29.34
Osceola	0.76	1.42	0.80	1.95	2.54	3.02	3.98	3.60	3.99	1.23	2.55	2.11	27.95
Oshkosh	0.90	1.45	2.40	1.40	6.35	3.00	6.25	1.46	2.55	2.22	1.10	1.54	30.62
Pepin	0.87	0.83	1.31	2.05	8.40	3.95	7.07	6.96	2.54	2.46	2.73	.....	.....
Pine River	0.50	1.92	1.19	1.31	10.92	4.24	7.38	0.97	2.66	1.46	1.60	2.49	36.64
Portage	0.25	1.49	1.11	1.18	6.76	3.06	6.98	1.06	4.04	1.51	1.10	2.39	30.93
Port Washington	0.07	2.30	1.68	1.96	7.95	3.65	6.48	0.50	3.25	1.25	2.49	3.20	34.68
*Prairie du Chien[3]	0.58	1.08	2.39	1.80	11.84	6.57	8.88	1.66	3.73	1.22	1.53	3.37	44.64
*Prairie du Chien[1]	0.53	0.94	2.40	1.80	12.20	6.58	8.26	1.43	3.42	1.52	0.71	3.08	42.87
Prentice	1.50	2.20	0.73	2.46	2.45	6.11	4.74	2.65	4.41	3.01	4.77	2.80	38.03
Racine	0.37	1.03	2.61	0.92	5.77	5.46	6.87	0.45	6.80	1.39	2.19	2.20	36.06
Sheboygan	0.45	1.15	2.23	2.16	5.43	3.19	6.82	0.80	2.37	1.73	2.13	1.96	30.42
Spooner	.....	[h]0.25	0.30	2.57	1.65	3.64	4.04	[c]2.50	.....	.....	.....	1.77	.....
Stevens Point	0.60	0.70	1.10	1.32	8.16	3.16	4.04	1.82	3.08	1.37	2.59	2.27	30.16
Tomahawk	.....	.....	.....	.....	.....	.....	.....	.....	2.60	2.20	3.37	.....	.....
Valley Junction	0.45	.....	.....	0.81	10.64	2.94	5.33	3.24	2.90	2.84	3.08	1.96	.....
Viroqua	0.87	1.14	2.39	1.65	11.60	3.54	6.00	1.39	3.40	1.88	2.52	3.10	39.48

[1] River observer.

[2] Dr. C. Schnepf.

[3] Corn and wheat region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1902—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Wisconsin—Continued.													
*Watertown	0.34	1.95	1.15	1.51	6.49	4.04	9.10	0.76	3.69	1.10	2.42	1.74	34.29
Waukesha	0.29	1.39	1.33	1.11	5.96	4.53	8.82	0.64	3.95	1.73	2.39	2.31	34.45
Waupaca	0.40	2.12	0.98	1.24	6.89	3.75	5.30	1.48	3.51	1.33	1.67	2.17	30.84
Wausau	1.37	1.94	1.28	2.19	6.35	3.12	4.62	4.01	3.05	1.90	3.89	2.29	36.01
Wausaukee	0.70	2.00	0.40	1.60	2.14	1.54	.....	.....	.....	.....	.....	.....	.....
Westbend	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.90	.....	.....	.....
Westfield	0.55	0.95	1.20	0.65	7.27	3.71	5.24	0.38	2.71	.....	.....	.....	.....
Whitehall	1.24	0.93	1.45	1.44	7.82	2.77	5.19	7.18	4.28	1.92	2.59	3.35	40.16
Wyoming.													
Alcova	0.41	T.	0.57	0.52	2.39	0.90	1.35	0.23	0.78	0.27	0.08	1.07	8.57
Basin	0.16	0.14	0.27	0.85	0.61	0.24	0.21	0.04	0.08	T.	0.03	T.	2.63
Bedford	0.40	1.48	2.23	1.80	2.33	0.95	1.08	0.34	0.36	0.51	1.23	1.92	14.63
Border	0.09	1.58	1.93	1.56	0.78	0.46	0.24	0.31	0.02	0.15	0.87	0.90	8.39
Buffalo	T.	0.10	0.24	0.90	1.99	2.46	0.45	T.	0.24	0.03	0.02	0.25	6.68
Burlington	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Casper	.....	.....	[i]0.49	1.61	.....	1.45	.....	.....	.....	.....	.....	.....	.....
Centennial	T.	0.34	[c]0.35	0.10	0.16	0.60	0.50	0.11	0.95	0.32	0.33	1.38	5.14
*Cheyenne	0.21	0.55	2.11	1.49	2.51	1.55	1.49	0.58	3.52	0.52	0.23	1.79	16.50
Chugwater	0.35	1.03	2.15	1.10	1.43	4.43	1.30	0.44	2.30	0.91	0.59	1.75	17.78
Daniel	0.20	T.	1.10	1.21	0.30	0.22	0.56	0.64	0.80	T.	0.03	1.55	6.61
Diamondville	0.04	0.35	0.81	0.66	0.92	.....	.....	.....	.....	.....	.....	.....	.....
Ember	0.30	0.10	2.30	0.94	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evanston	0.57	0.73	1.24	1.86	1.25	0.76	1.08	0.21	1.00	0.40	0.58	0.84	10.52
Fort Laramie	0.19	0.10	1.81	1.70	3.61	3.80	0.71	T.	2.10	0.60	0.14	0.68	15.44
Fort Washakie	0.26	0.16	1.15	1.74	0.61	0.54	0.40	0.01	0.56	0.90	0.05	0.05	6.43
Fort Yellowstone	0.96	0.61	2.46	2.14	1.59	1.87	2.29	0.61	0.90	0.20	2.35	0.85	16.83
Fourbear	0.08	0.17	0.64	1.19	0.75	1.12	0.70	0.01	1.10	0.45	0.26	0.35	6.82
Gillette	.....	.....	[e]0.73	1.19	2.59	0.74	.....	.....	.....	.....	.....	.....	.....
Griggs	0.25	0.49	0.41	1.51	2.09	1.90	0.82	0.15	0.93	0.60	0.85	1.19	11.19
Hyattville	0.40	0.00	1.20	1.20	1.95	1.20	0.10	0.00	.....	.....	0.10	0.50	.....
Irma	.....	0.65	0.10	0.27	0.56	1.22	0.16	0.14	1.60	0.31	0.42	0.90	.....
Iron Mountain	0.12	0.35	0.47	0.81	1.22	2.29	1.35	0.19	2.43	0.53	0.09	0.50	10.35
Kemmerer	.....	.....	.....	.....	.....	.....	0.40	0.21	.....	.....	.....	.....	.....
Kimball Ranch	[g]0.30	0.70	0.26	.....	.....	.....	.....	.....	0.88	0.61	0.20	.....	.....
*Lander	0.18	0.20	0.77	1.43	1.23	0.93	0.29	0.06	0.75	1.10	0.06	0.25	7.25
La Grange	.....	.....	.....	.....	[j]1.20	2.78	3.46	.....	3.40	0.20	.....	1.43	.....
Laramie	T.	0.26	0.41	0.80	0.26	0.60	1.49	0.40	1.58	0.74	0.22	0.89	7.65
Leo	0.48	0.26	0.70	0.79	0.92	0.50	0.26	T.	1.16	0.15	0.27	1.51	7.00
Lolabama Ranch	.....	.....	.....	.....	.....	1.44	0.94	0.12	0.91	0.62	0.69	0.63	.....
Lovell	[f]T.	0.80	[g]T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lusk	0.22	0.80	0.98	1.65	1.80	3.05	1.69	0.45	0.57	0.70	T.	1.32	13.23
Moore	0.22	0.31	0.53	0.91	0.90	2.66	1.96	T.	1.94	0.50	0.18	1.08	11.19
Parkman	0.09	0.27	0.69	1.57	2.40	0.95	0.34	0.27	0.50	0.10	0.42	0.15	7.75
Pinebluff	0.10	0.45	0.40	0.69	2.22	0.39	1.36	0.50	3.18	0.68	T.	1.80	11.77
Rawlins	0.67	0.49	1.19	0.95	0.89	1.10	0.80	0.10	1.85	1.75	0.23	2.11	12.13
Redbank	0.50	0.61	2.19	2.24	2.80	2.21	0.70	T.	.....	0.45	0.64	.....	.....
Rocksprings	0.07	0.08	1.20	1.19	0.52	0.80	0.34	0.17	1.45	0.04	0.01	0.24	6.11
Saratoga	0.70	0.60	2.10	0.73	0.40	0.88	0.58	0.29	0.31	0.74	0.65	1.40	9.38
Sheridan	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Pass City	T.	.....	.....	1.04	0.40	0.30	0.60	.....	.....	.....	0.50	0.40	.....
Thayne	0.34	1.49	1.46	1.03	1.39	1.13	0.99	0.50	0.46	0.43	1.13	1.42	11.77
Thermopolis	0.40	0.10	0.22	1.20	1.93	1.42	0.28	0.00	0.31	0.32	0.20	0.30	6.68
Wheatland	.....	.....	.....	.....	.....	.....	.....	.....	1.06	0.71	.....	.....	.....
Porto Rico.													
Adjuntas	6.69	0.52	0.92	9.13	18.53	13.61	6.99	7.23	10.33	13.52	6.58	6.93	100.98
Aguadilla	9.76	1.01	0.31	3.83	7.78	17.60	2.91	9.20	6.77	5.46	4.76	4.02	73.41
Aguirre	2.09	0.05	1.12	5.08	3.96	22.75	0.72	2.88	4.63	6.08	4.39	2.40	56.15
Arecibo	10.47	0.15	5.01	4.84	9.63	4.60	7.67	7.54	3.26	3.38	6.09	5.50	68.14
Barros	12.80	T.	3.45	.....	30.70	13.23	.....	2.41	3.33	4.46	4.26	2.20	.....
Bayamon	8.64	0.03	2.77	7.20	12.15	16.99	5.99	8.17	7.59	9.17	7.32	.....	.....
Caguas	14.70	0.15	4.81	5.02	9.46	22.15	3.02	3.74	8.28	4.36	4.31	4.25	84.25
Canovanas	8.04	0.28	6.47	10.47	12.70	13.87	6.10	3.34	5.91	1.91	11.49	6.59	87.17
Cayey	6.91	0.35	3.25	4.65	11.33	28.11	3.18	3.02	6.04	3.43	4.37	3.31	77.05
Cidra	5.93	0.00	3.93	5.76	11.43	30.98	3.46	3.52	4.98	3.90	3.60	7.80	85.29
Coamo	.....	0.60	0.71	4.85	12.12	15.80	1.11	4.70	1.20	5.30	2.23	.....	.....
Corozal	12.56	0.30	4.13	13.45	20.47	.....	.....	.....	.....	.....	.....	.....	.....
Fajardo	5.56	0.10	2.60	3.92	8.04	16.29	4.28	3.24	5.49	3.21	8.67	4.47	65.87
Guanico	.....	.....	0.35	.....	.....	13.25	1.45	2.88	2.67	3.19	2.26	3.58	.....
Guayama	2.35	0.57	0.89	4.95	4.77	24.75	1.71	4.12	6.29	6.76	7.70	1.59	66.45
Hacienda Armistad	.....	.....	.....	5.41	7.91	7.19	1.73	2.40	2.28	3.19	4.96	4.28	.....
Hacienda Colosa	7.18	0.37	0.22	5.55	6.20	9.20	6.10	6.04	9.28	6.52	7.87	3.72	68.25
Hacienda Perla	12.56	0.26	7.69	9.40	19.62	33.30	9.77	7.17	9.70	6.31	12.96	12.01	140.75
Humacao	10.10	0.85	4.50	10.60	18.65	19.47	4.30	7.75	12.45	4.94	9.85	4.29	107.25
Isabela	11.65	4.76	2.34	2.43	6.76	9.95	1.47	5.10	2.44	3.24	5.54	7.07	62.75
Juana Diaz	0.94	0.21	0.36	5.30	12.16	17.69	2.33	.....	.....	8.43	2.63	3.27	.....
La Isolina	12.92	0.66	3.72	8.71	25.56	8.94	[d]3.18	4.01	7.05	7.31	8.01	7.46	97.53
Las Marias	3.76	0.51	2.60	6.50	31.87	7.22	17.42	9.03	16.60	15.26	6.20	8.93	125.90
Manati	6.73	0.68	5.10	7.31	5.89	8.18	6.23	3.67	3.50	3.83	11.32	4.45	66.89
Maunabo	7.06	1.22	2.88	6.13	7.65	25.55	6.09	2.94	9.63	8.82	11.04	5.30	94.31
Mayaguez	4.67	0.39	0.13	10.85	16.56	8.33	7.62	5.80	7.60	5.82	9.14	4.48	81.39
Morovis	.....	.....	.....	8.38	24.07	8.46	5.95	9.65	8.83	12.74	5.85	1.96	.....
Ponce	1.31	T.	0.07	[k]5.21	[l]7.09	16.17	0.85	2.98	4.19	4.76	0.42	2.25	.....
Rio Pedras	7.84	0.44	2.19	4.43	9.20	12.33	6.53	3.61	8.95	3.67	6.34	5.76	71.29
San German	.....	[h]0.12	3.11	10.34	15.62	7.03	4.72	9.54	4.10	5.17	8.90	12.34	.....
San Lorenzo	3.59	0.28	3.22	4.17	12.30	29.11	4.74	5.75	11.69	3.74	6.42	6.46	91.47
San Salvador	6.49	0.36	1.68	7.81	17.86	11.83	6.71	5.07	13.57	6.93	7.55	7.20	93.06
Santa Isabel	[d]2.66	0.26	0.35	4.08	6.45	16.54	0.60	2.72	3.26	5.04	2.48	5.34	.....
Utuado	5.16	1.10	1.72	9.80	18.89	10.62	6.86	4.11	10.27	11.33	7.88	4.58	92.32
Vieques	7.80	1.75	4.65	7.60	3.90	14.45	2.70	1.72	.....	.....	.....	.....	.....
Yauco	3.14	0.12	0.65	7.97	10.59	15.45	.....	2.98	4.60	3.58	1.82	3.74	.....

MONTHLY AND SEASONAL SNOWFALL 1902–1903.

[Inches and tenths.]

NOTE.—Leaders under heading of months indicate no snow; under annual, report incomplete; T., a trace; (*) no report.

States and stations.	1902.				1903.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Alabama.										
Ashville	.....	.....	T.	.....	.....	0.3	.....	.....	.....	0.3
Bermuda	.....	.....	.....	.....	(*)	.....	.....	.....	.....	.....
Decatur	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Eutaw	.....	.....	T.	.....	.....	T.	.....	.....	.....	.....
Florence	.....	.....	T.	.....	(*)	1.4	.....	.....	.....	.....
Greensboro	.....	.....	T.	.....	.....	T.	.....	.....	.....	T.
Hamilton	.....	.....	T.	T.	.....	3.5	.....	.....	.....	3.5
Mobile	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Montgomery	.....	.....	T.	.....	.....	T.	.....	.....	.....	T.
Newbern	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Oneonto	.....	.....	T.	T.	T.	0.5	.....	.....	.....	0.5
Union Springs	.....	.....	T.	.....	.....	T.	.....	.....	.....	T.
Valleyhead	.....	.....	.....	.....	T.	0.5	.....	.....	.....	0.5
Arizona.										
Buckeye	.....	.....	.....	.....	.....	0.0	.....	.....	.....	0.0
Casa Grande	.....	.....	.....	.....	.....	.....	(*)	.....	.....	.....
Congress	.....	.....	2.0	.....	.....	0.5	.....	.....	.....	2.5
Flagstaff	.....	.....	42.6	16.9	3.6	25.3	25.3	4.4	10.2	128.3
Fort Apache	.....	.....	.....	0.3	2.0	13.0	1.0	.....	.....	16.3
Fort Defiance	.....	.....	1.0	8.0	4.2	24.7	2.0	.....	.....	39.9
Fort Grant	.....	.....	T.	T.	.....	0.9	.....	.....	.....	0.9
Jerome	.....	.....	9.0	10.0	T.	4.6	.....	T.	.....	23.6
Maricopa	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Mount Huachuca	.....	.....	2.2	3.0	1.0	(*)	.....	.....	.....	.....
Phoenix	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Prescott	.....	.....	17.0	2.2	4.0	14.0	T.	.....	.....	37.2
Signal	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Tucson	.....	.....	.....	.....	.....	4.9	.....	.....	.....	4.9
Arkansas.										
Amity	.....	.....	.....	4.0	.....	1.0	T.	.....	.....	5.0
Blanchard Springs	.....	.....	.....	3.0	.....	2.0	.....	.....	.....	5.0
Camden	.....	.....	.....	3.0	.....	2.0	.....	.....	.....	5.0
Conway	.....	.....	.....	2.0	.....	2.5	1.0	.....	.....	5.5
Corning	.....	.....	0.3	.....	0.4	4.6	.....	T.	.....	5.3
Dallas	.....	.....	.....	6.5	.....	3.0	0.5	.....	.....	10.0
Fort Smith	.....	.....	.....	8.0	0.5	5.0	1.5	.....	.....	15.0
Hardy	.....	.....	T.	.....	T.	2.0	2.0	.....	.....	4.0
Helena	.....	.....	.....	.....	.....	1.0	.....	.....	.....	1.0
Jonesboro	.....	.....	T.	.....	T.	(*)	.....	.....	.....	.....
Little Rock	.....	.....	.....	1.0	.....	3.3	T.	T.	.....	4.3
Malvern	.....	.....	.....	0.5	T.	2.0	.....	.....	.....	2.5
New Gascony	.....	.....	.....	(*)	.....	2.5	.....	.....	.....	.....
Newport	.....	.....	.....	.....	T.	4.8	.....	.....	.....	4.8
Oregon	.....	.....	.....	8.0	1.6	2.5	2.0	T.	.....	14.1
California.										
Bishop	.....	.....	0.6	.....	0.5	2.5	.....	.....	.....	.....
Boca	.....	(*)	(*)	6.0	64.0	15.0	9.0	7.0	2.0	.....
Bodie	.....	6.0	9.0	1.5	24.0	9.0	8.0	9.5	6.0	73.0
Bowman	.....	.....	19.0	0.5	85.0	44.0	88.5	15.5	5.0	257.5
Cedarville	.....	T.	6.0	3.0	17.5	4.0	11.0	2.0	3.0	46.5
Cisco	.....	7.0	34.0	65.0	38.5	28.0	76.0	42.0	4.0	294.5
Delta	.....	.....	.....	1.5	4.0	11.0	3.6	.....	.....	20.1
Edmanton	.....	.....	.....	14.0	62.0	(*)	(*)	2.0	3.0	.....
Elsinore	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Escondido	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Fordyce Dam	.....	16.0	27.5	60.0	80.0	38.0	106.0	24.0	8.0	359.5
Georgetown	.....	.....	.....	.....	6.0	12.0	14.0	2.0	.....	34.0
Greenville	.....	1.0	0.5	2.5	36.0	23.5	14.0	1.0	T.	78.5
Independence	.....	.....	3.6	T.	T.	3.3	0.1	.....	.....	7.0
Laporte	.....	2.0	24.4	27.2	62.3	29.4	69.5	11.7	3.2	229.7

MONTHLY AND SEASONAL SNOWFALL 1902–1903—Continued.

States and stations.	1902.				1903.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
California—Continued.										
Lick Observatory				0.5	10.0	24.0				34.5
Lodi										0.0
Los Angeles										0.0
Mojave				T.		5.0		T.		5.0
North Bloomfield				T.	19.0	24.0	27.0	0.8	T.	70.8
Pilot Creek			2.0	5.0	31.0	22.5	62.0	8.0	(*)	
Quincy			T.	3.0	33.0	22.0	17.0	T.	T.	75.0
Redbluff						3.0				3.0
Rosewood					1.0	12.0	T.			13.0
Sacramento										0.0
San Francisco						T.				T.
Summerdale			10.0	7.0	30.0	37.0	43.0	10.0	3.0	140.0
Susanville				3.0	31.0	15.0	14.0	2.0	1.0	66.0
Truckee			22.0	36.0	80.0	10.0	4.0	32.0	2.0	186.0
Yreka		(*)	T.	(*)	(*)	(*)	(*)			
Colorado.										
Boulder		0.5	8.0	17.0	2.0	19.5	13.5	18.0		78.5
Boxelder			4.0	17.0	1.0	30.0	6.0		4.0	62.0
Breckenridge	T.	10.7	5.0	20.2	25.5	16.4	(*)		15.1	
Buenavista		5.0	3.0	13.0	1.0	22.0	1.0	8.0		53.0
Castlerock			7.0	13.0	6.0	14.0	7.8	9.0		56.8
Cedaredge			4.6	10.1	4.5	17.0	5.0		T.	41.2
Cheyenne Wells			T.	7.2	4.0	12.0	3.0	9.0		35.2
Clearview	T.	8.0	6.8	23.0	6.0	21.5	13.5	T.	T.	78.8
Colorado Springs		T.		6.0	3.5	10.8	4.0			24.3
Delta			0.2	13.0	1.7	1.5	(*)		T.	
Denver	T.	T.	4.0	11.5	1.9	7.8	9.9	8.5		43.6
Fort Collins			2.5	10.6	1.0	20.8	8.0	5.5		48.4
Gilman	6.0	14.0	13.2	33.0	47.5	23.5	19.5	38.5	13.5	208.7
Grand Junction			1.5	5.0	1.6	14.0	1.5		T.	23.6
Hoehne				6.8	1.5	13.5	0.5	5.5		27.8
Husted		T.	1.0	9.0	1.2	12.0	5.7	5.0		33.9
Lake Moraine	9.5	20.0	17.8	11.4	5.2	31.5	14.5	25.9	1.0	136.8
Lamar				5.5	0.5	26.5	2.0	7.0		41.5
Las Animas				4.0		21.5		3.5		29.0
Leadville (near)	3.3	(*)	5.8	13.3	28.5	20.0	10.0	27.5	11.5	
Longs Peak	21.0	11.0	17.5	12.5	5.0	24.0	21.0	23.0	7.0	142.0
Marshall Pass	17.0	21.2	47.0	32.0	20.0	31.0	14.0	19.0	12.0	213.2
Meeker			6.0	15.4	11.5	21.7	7.0	19.5		81.1
Mitchell	8.5	(*)	16.0	(*)	(*)	(*)	(*)	(*)	(*)	
Pagoda	2.5		3.0	25.5	18.0	30.0	8.0	12.0	3.0	102.0
Pueblo			T.	5.2	2.1	12.0	6.9	0.1		26.3
Rockyford			T.	4.5	T.	8.0	2.0			14.5
Ruby		32.0	37.0	7.9	73.0	61.0	77.0	131.0	48.0	466.9
Saguache		T.	T.	7.0	2.5	5.2	1.0			15.5
Salida		0.5	8.0	6.0	T.	35.0	1.0	2.5	T.	53.0
San Luis			2.1	19.0	0.5	11.0	4.0			36.6
Trinidad			4.0	8.0	0.0	20.0	0.5	8.0		40.5
Wray				6.5	3.0	17.5	1.0	2.0		30.0
Connecticut.										
Canton		T.	1.5	31.0	11.0	12.0	T.	T.		55.5
Hawleyville		T.	T.	33.0	12.0	12.5				57.5
New Haven		T.	T.	17.3	8.3	12.2	T.	0.1		37.9
New London		T.	T.	14.5	17.5	13.0	0.2	T.	T.	45.2
Southington		T.		21.5	6.0	9.0		0.2		36.7
West Simsbury		(*)	3.0	35.0	6.0	15.0		1.0		
Delaware.										
Millsboro				1.5	5.3	T.		T.		6.8
Seaford				2.0	4.0	T.		T.		6.0
District of Columbia.										
Washington				3.0	2.2	3.0	T.			8.2

MONTHLY AND SEASONAL SNOWFALL 1902–1903—Continued.

States and stations	1902.				1903.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Florida.										
Jacksonville										0.0
Pensacola										0.0
Tampa										0.0
Georgia.										
Adairsville			T.	T.		T.				T.
Americus			T.			T.				T.
Atlanta					T.					T.
Augusta										0.0
Clayton				0.5						0.5
Covington					T.	T.				T.
Dahlonega			0.3	T.	T.	T.				0.3
Harrison										0.0
Macon						T.				T.
Marshallville			T.	T.						T.
Putnam										0.0
Savannah										0.0
Talbotton			T.			T.				T.
Idaho.										
Blackfoot			1.0	1.0	10.5		0.6	4.9	2.0	20.0
Boise			1.8	3.8	5.8	5.9		0.7	0.6	18.6
Burnside	T.		13.0	13.0	7.0	2.0	13.0	5.5	3.0	56.5
Chesterfield	T.	(*)	(*)	11.0	22.0	3.0	2.0	6.0	4.0	
Lakeview			3.5	16.0	20.8	6.5	5.0	3.0		54.8
Lewiston				5.9	1.2	T.	4.0			11.1
Lost River	T.	T.	12.0	4.0	10.0	T.	8.0	10.0	T.	44.0
Moscow			6.8	21.6	10.8	2.2	4.1	5.6	0.2	51.3
Murray			23.0	53.0	42.0	17.0	13.0	3.0	T.	151.0
Oakley			T.	2.0	8.0	T.	3.0	5.0		18.0
Ola			4.2	12.9		4.0	9.5			30.6
Payette			4.2	16.2	8.5	8.0	8.0			44.9
Pocatello	1.2		6.1	8.4	13.2	2.3	4.9		5.8	41.9
St. Maries			5.0	21.2	18.0	4.8	11.0	0.8		60.8
Soldier	T.		11.0	24.2	31.3	5.6	17.0	2.5	1.3	92.9
Illinois.										
Albion				1.0	6.0	1.6	(*)			
Alexander			0.5	4.2	9.0	7.3	0.8	1.0		22.8
Ashton			1.4	9.0	7.8	10.1	2.2	1.0		31.5
Bloomington			1.0	3.3	9.4	10.9	1.5	1.5		27.6
Cairo			T.	0.2	2.4	3.5	T.			6.1
Cambridge			1.0	15.5	9.1	18.1	2.0	0.5		46.2
Carlinville			T.	1.0	11.0	10.0	1.0	1.0		24.0
Charleston			3.0	2.5	9.1	10.5	0.5	0.5		26.1
Chicago			0.5	5.3	5.0	19.5	0.7	3.2	T.	34.2
Cisne			2.0	2.0	1.5	1.0	T.			6.5
Cobden				T.	T.	0.3	T.			0.3
Greenville			T.	1.8	5.0	8.3	1.0			16.1
Joliet			1.4	4.7	5.8	14.4	2.0	5.0		33.3
Mascoutah			0.7	1.2	3.6	6.5	1.0	T.		13.0
Ottawa			2.0	3.8	6.4	14.5	0.8	2.2		29.7
Palestine			3.0	5.0	9.5	3.0	T.	T.		20.5
Rantoul			3.9	4.3	9.5	17.0	0.4	3.0		38.1
Riley			(*)	9.1	5.7	10.2	1.5	1.3		
Springfield			T.	2.7	11.9	15.3	0.3	1.0		31.2
Indiana.										
Angola			7.0	20.0	8.8	12.6	1.1	3.1		52.6
Bluffton			3.5	6.5	5.2	7.0				22.2
Butlerville			1.2	3.9	12.8	7.8				25.7
Cambridge City			2.1	3.6	11.3	6.0	1.0	T.		24.0
Evansville			2.2	0.8	2.0	3.9	0.6	T.		9.5
Greensburg			1.0	3.5	12.0	3.0	T.	T.		19.5
Indianapolis			4.7	5.0	9.8	6.5	1.3	T.		27.3
Kokomo			3.6	8.4	12.0	14.6	0.1	0.5		39.2
Lafayette			4.2	9.8	10.9	13.2	T.	1.0		39.1

MONTHLY AND SEASONAL SNOWFALL 1902–1903—Continued.

States and stations.	1902.				1903.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Indiana—Continued.										
Laporte	.....	.....	4.9	23.8	11.2	21.4	0.5	2.0	.....	63.8
Marengo	.....	.....	T.	3.0	3.8	8.3	0.2	.....	.....	15.3
Markle	.....	.....	4.2	14.5	14.0	14.5	T.	T.	.....	47.2
Richmond	.....	.....	2.0	2.5	7.8	4.1	T.	.....	.....	16.4
Scottsburg	.....	.....	T.	2.0	4.5	5.0	T.	4.0	.....	15.5
South Bend	.....	.....	7.5	19.5	27.0	18.0	1.5	7.0	T.	80.5
Syracuse	.....	.....	8.0	23.5	17.5	21.2	1.5	5.5	.....	77.2
Terre Haute	.....	.....	2.0	2.5	11.5	10.5	T.	T.	.....	26.5
Vevay	.....	.....	T.	9.0	10.0	8.0	.....	.....	.....	27.0
Worthington	.....	.....	5.6	3.2	9.7	6.0	2.0	1.0	.....	27.5
Indian Territory.										
Ardmore	.....	.....	.....	(*)	(*)	7.0	2.7	.....	.....	.....
Chickasha	.....	.....	.....	1.2	.....	1.0	.....	.....	.....	2.2
Fairland	.....	.....	.....	1.0	0.5	2.5	T.	T.	.....	4.0
Hartshorne	.....	.....	.....	3.5	.....	(*)	.....	.....	.....	.....
Healdton	.....	.....	.....	(*)	.....	5.0	1.0	.....	.....	.....
Muskogee	.....	.....	.....	2.0	.....	3.0	1.0	.....	.....	6.0
Tahlequah	.....	.....	T.	2.5	0.8	2.7	2.2	.....	.....	8.2
Iowa.										
Algona	.....	.....	1.5	14.5	3.0	5.5	1.5	1.0	.....	26.0
Alta	.....	.....	2.0	15.1	1.5	6.1	0.7	0.7	.....	26.1
Ames	.....	.....	T.	11.5	1.0	5.0	2.4	0.2	.....	20.1
Atlantic	.....	T.	0.2	14.0	T.	14.0	3.0	1.0	.....	32.2
Britt	.....	T.	1.8	12.1	1.5	3.4	1.1	0.3	.....	20.2
Cedar Rapids	.....	.....	1.8	8.8	1.1	8.0	3.0	.....	.....	22.7
Chariton	.....	.....	0.2	16.4	0.6	3.2	4.8	.....	.....	25.2
Clarinda	.....	.....	0.5	12.2	1.1	9.0	5.0	0.5	.....	28.3
Corning	.....	.....	0.7	19.8	0.8	8.0	8.0	0.5	.....	37.8
Davenport	.....	.....	0.5	5.9	5.1	14.2	0.7	T.	.....	26.4
Delaware	.....	.....	4.3	14.3	1.0	2.2	2.5	T.	.....	24.3
Des Moines	.....	.....	T.	15.9	1.4	9.1	8.3	0.5	.....	35.2
Dubuque	.....	.....	1.1	12.1	1.5	6.2	2.6	T.	.....	23.5
Fayette	.....	T.	3.1	22.0	0.5	8.7	5.0	.....	.....	39.3
Humboldt	.....	.....	T.	15.7	0.7	T.	(*)	.....	.....	.....
Independence	.....	.....	2.5	12.6	2.8	6.8	4.6	1.0	.....	30.3
Iowa City	.....	.....	3.0	12.0	3.0	7.0	0.5	.....	.....	25.5
Iowa Falls	.....	.....	1.0	16.0	0.7	9.5	6.5	1.0	.....	34.7
Keokuk	.....	.....	0.9	6.1	8.0	6.1	0.2	6.1	.....	27.4
Keosauqua	.....	.....	3.0	12.5	(*)	11.0	T.	.....	.....	.....
Logan	.....	.....	2.0	12.0	5.0	14.0	.....	.....	.....	33.0
Sioux City	.....	.....	0.8	18.2	0.7	10.2	0.3	0.5	.....	30.7
Storm Lake	.....	.....	2.5	14.0	T.	5.0	T.	T.	.....	21.5
Thurman	.....	.....	(*)	(*)	T.	(*)	4.0	T.	.....	.....
Waverly	.....	.....	2.5	11.2	1.5	11.4	8.5	0.3	.....	35.4
Kansas.										
Achilles	.....	.....	T.	8.6	0.9	17.9	6.4	3.0	.....	36.8
Burlington	.....	.....	.....	3.0	1.8	3.0	1.0	T.	.....	8.8
Colby	.....	.....	.....	9.1	1.0	19.4	3.3	1.8	.....	34.6
Columbus	.....	.....	.....	1.1	1.5	4.0	0.1	1.7	.....	8.4
Concordia	.....	.....	0.6	7.2	2.3	8.0	4.0	0.8	.....	22.9
Dodge	.....	.....	.....	4.5	0.4	27.7	0.1	1.3	.....	34.0
Emporia	.....	.....	(*)	(*)	(*)	4.0	0.7	3.0	.....	.....
Englewood	.....	.....	.....	4.5	5.0	27.0	T.	T.	.....	36.5
Eureka Ranch	.....	.....	0.2	10.0	0.5	22.5	1.5	2.0	.....	36.7
Fall River	.....	.....	.....	1.0	T.	3.0	T.	T.	.....	4.0
Frankfort	.....	.....	T.	7.5	4.5	6.0	5.5	0.5	.....	24.0
Garden City	.....	.....	.....	8.7	2.0	34.0	2.0	5.0	.....	51.7
Grenola	.....	.....	T.	1.2	T.	2.0	(*)	T.	.....	.....
Hays	.....	.....	.....	13.5	1.5	42.0	(*)	1.0	.....	.....
Horton	.....	.....	T.	7.5	5.0	4.0	.....	1.0	.....	17.5
Hutchinson	.....	.....	.....	7.0	4.0	17.0	T.	1.0	.....	29.0
Independence	.....	.....	.....	0.5	2.0	2.0	T.	0.2	.....	4.7
Lakin	.....	.....	.....	5.0	2.0	32.0	3.0	5.0	.....	47.0
Little River	.....	.....	T.	6.5	2.0	22.2	(*)	.....	.....	.....
McPherson	.....	.....	T.	5.5	5.0	16.0	T.	T.	.....	26.5

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Kansas—Continued.										
Manhattan	.....	.....	T.	8.0	4.5	9.0	4.0	2.5	.....	28.0
Marion	.....	.....	T.	(*)	4.0	15.0	T.	3.0	.....	.....
Medicine Lodge	.....	.....	.....	4.5	T.	11.0	.....	T.	.....	15.5
Minneapolis	.....	.....	T.	7.5	3.0	9.2	2.5	0.5	.....	22.7
Moran	.....	.....	.....	1.0	4.2	4.2	1.0	2.0	.....	12.4
Ness City	.....	.....	T.	6.4	4.0	(*)	.....	2.1	.....	.....
Pratt	.....	.....	.....	6.0	1.0	(*)	T.	T.	.....	.....
Rome	.....	.....	.....	2.0	1.0	4.0	T.	1.0	.....	8.0
Sedan	.....	.....	.....	T.	T.	4.0	T.	0.0	.....	4.0
Topeka	.....	.....	T.	6.0	4.2	4.4	1.2	4.6	.....	20.4
Viroqua	.....	.....	T.	1.0	1.0	41.0	3.0	4.0	.....	50.0
Wichita	.....	.....	T.	3.1	0.3	7.3	T.	4.3	.....	15.0
Kentucky.										
Alpha	.....	T.	T.	2.0	6.2	5.5	.....	.....	.....	13.7
Bowling Green	.....	.....	0.5	(*)	(*)	11.0	.....	.....	.....	.....
Catlettsburg	.....	.....	T.	1.0	T.	6.0	T.	T.	.....	7.0
Earlington	.....	.....	0.2	0.2	0.2	6.0	T.	T.	.....	6.6
Edmonton	.....	.....	0.1	3.2	2.2	6.5	T.	.....	.....	12.0
Eubank	.....	.....	T.	3.0	2.2	6.0	.....	.....	.....	11.2
Falmouth	.....	.....	.....	8.0	3.0	(*)	.....	.....	.....	.....
Irvington	.....	.....	T.	1.5	2.0	6.0	T.	T.	.....	9.5
Lexington	.....	.....	0.7	4.5	4.3	7.7	0.2	T.	.....	17.4
Louisville	.....	.....	T.	2.0	1.9	5.3	T.	T.	.....	9.2
Marrowbone	.....	T.	T.	T.	(*)	4.5	.....	.....	.....	.....
Paducah	.....	.....	T.	T.	T.	4.0	T.	.....	.....	4.0
Scott	.....	.....	0.8	7.5	4.4	5.4	T.	T.	.....	18.1
Williamsburg	.....	.....	T.	1.0	3.5	13.0	.....	T.	.....	18.5
Louisiana.										
Collinston	.....	.....	.....	1.3	.....	1.0	.....	.....	.....	2.3
Lake Providence	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Monroe	.....	.....	.....	1.0	.....	.....	.....	.....	.....	1.0
Plain Dealing	.....	.....	.....	2.8	.....	1.0	.....	.....	.....	3.8
Shreveport	.....	.....	.....	1.8	.....	0.4	.....	.....	.....	2.2
Maine.										
Bar Harbor	.....	.....	0.5	28.0	11.5	15.0	0.5	3.0	.....	58.5
Belfast	.....	.....	2.0	17.5	13.0	18.0	1.0	T.	.....	51.5
Eastport	.....	0.3	0.5	24.3	12.1	23.0	2.4	8.0	.....	70.6
Farmington	.....	.....	2.5	31.5	23.5	20.0	1.5	4.5	.....	83.5
Gardiner	.....	.....	.....	18.0	15.0	16.0	1.0	0.5	.....	50.5
Lewiston	.....	.....	0.8	26.0	16.8	21.5	1.8	0.8	.....	67.7
Mayfield	.....	1.0	5.0	22.0	17.0	(*)	3.0	4.0	.....	.....
Orono	.....	T.	3.0	24.5	15.2	21.5	2.0	0.5	.....	66.7
Portland	.....	.....	0.8	23.8	12.3	19.9	3.6	T.	.....	60.4
Rumford Falls	.....	.....	3.5	31.5	18.4	26.8	1.2	1.5	.....	82.9
Winslow	.....	.....	0.8	25.2	17.2	15.8	1.5	1.0	.....	61.5
Maryland.										
Baltimore	.....	.....	.....	5.6	6.8	6.0	.....	.....	.....	18.4
Cumberland	.....	.....	1.0	(*)	13.0	6.0	(*)	.....	(*)	.....
Deerpark	.....	.....	3.0	22.0	20.0	15.5	5.0	1.0	.....	66.5
Easton	.....	.....	.....	2.4	2.5	0.5	.....	.....	.....	5.4
Frederick	.....	.....	.....	9.5	8.5	8.5	.....	.....	.....	26.5
Hancock	.....	.....	T.	11.2	9.0	6.0	.....	.....	.....	26.2
Newmarket	.....	.....	T.	7.0	9.8	10.0	.....	.....	.....	26.8
Sunnyside	.....	.....	4.0	19.8	(*)	18.8	2.0	1.5	T.	.....
Massachusetts.										
Amherst	.....	T.	1.5	26.5	9.0	12.0	1.0	T.	.....	50.0
Bedford	.....	T.	T.	25.5	6.5	13.5	T.	T.	.....	45.5
Boston	.....	T.	T.	22.8	4.2	14.7	0.3	T.	.....	42.0
Concord	.....	T.	0.1	25.1	5.4	11.3	0.6	T.	.....	42.5
East Templeton	.....	T.	0.5	29.8	7.8	11.5	2.0	T.	.....	51.6
Fitchburg	.....	.....	T.	34.0	8.0	15.0	2.5	T.	.....	59.5
Groton	.....	T.	3.0	33.5	11.0	16.0	1.5	T.	.....	65.0

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Massachusetts—Continued.										
Hyannis	.....	.....	.....	15.5	5.0	12.0	.....	0.3	.....	32.8
Jefferson	.....	.....	1.5	31.2	6.8	13.8	0.5	T.	.....	53.8
Nantucket	.....	.....	.....	20.1	10.9	7.0	.....	0.2	.....	38.2
Pittsfield	.....	.....	1.5	18.5	10.0	15.0	2.0	.....	.....	47.0
Plymouth	.....	.....	.....	27.0	10.0	17.0	.....	T.	.....	54.0
Weston	.....	.....	T.	33.0	8.0	15.4	0.2	.....	.....	56.6
Worcester	.....	T.	1.0	32.0	6.0	15.0	T.	T.	.....	54.0
Michigan.										
Adrian	.....	.....	1.0	2.5	4.0	9.0	T.	T.	.....	16.5
Alma	.....	T.	4.0	19.0	12.0	17.0	T.	T.	T.	52.0
Alpena	.....	0.3	0.1	9.9	6.2	23.6	1.4	T.	T.	41.5
Ann Arbor	.....	.....	3.6	7.9	7.3	9.2	T.	1.1	.....	29.1
Arbela	.....	.....	2.0	11.0	11.5	15.0	.....	2.0	.....	41.5
Ball Mountain	.....	.....	4.5	8.9	9.4	13.3	T.	1.3	.....	37.4
Battlecreek	.....	.....	5.0	9.0	16.1	12.0	T.	6.0	.....	48.1
Berrien Springs	.....	T.	4.0	24.0	29.5	29.0	1.5	15.0	T.	103.0
Boon	.....	0.2	2.5	18.2	17.5	9.1	5.5	0.8	T.	53.8
Calumet	.....	0.6	8.0	52.0	22.0	24.0	11.0	18.0	3.0	138.6
Charlevoix	.....	.....	0.5	14.0	10.0	10.0	1.0	T.	.....	35.5
Cheboygan	.....	T.	0.5	10.5	6.0	20.0	T.	T.	.....	37.0
Detroit	.....	.....	5.1	13.8	12.7	14.7	0.1	4.9	.....	51.3
Eagle Harbor	.....	T.	T.	21.7	2.0	23.0	1.1	5.8	2.0	55.6
Escanaba	.....	.....	T.	9.0	9.1	4.0	1.5	3.8	.....	27.4
Eloise	.....	.....	2.5	8.9	9.8	19.3	.....	2.0	.....	42.5
Gladwin	.....	T.	2.0	7.0	16.5	3.5	1.0	.....	.....	30.0
Grand Haven	.....	.....	2.0	14.8	15.6	16.9	2.2	T.	T.	51.5
Harrisville	.....	T.	0.1	27.0	12.2	19.0	4.7	(*)	.....	.....
Hart	.....	.....	.....	13.5	12.0	17.0	.....	.....	.....	42.5
Ishpeming	.....	1.5	2.0	15.0	5.5	13.0	7.5	8.0	.....	52.5
Ivan	.....	1.0	2.0	17.0	21.0	15.5	6.0	0.2	.....	62.7
Lansing	.....	.....	5.0	8.6	7.6	20.7	0.5	6.0	.....	48.4
Mancelona	.....	T.	1.0	15.5	36.0	20.0	.....	.....	.....	72.5
Marquette	.....	0.1	1.2	43.3	13.3	11.1	10.8	12.0	2.0	93.8
Olivet	.....	T.	3.0	7.7	9.9	12.2	1.1	6.0	.....	39.9
Port Austin	.....	.....	.....	3.0	5.0	10.0	(*)	.....	.....	.....
Port Huron	.....	T.	7.0	8.3	8.7	16.1	0.1	3.2	T.	43.4
Sault Ste. Marie	.....	T.	6.2	15.8	12.8	6.7	2.6	1.8	T.	45.9
Thornville	.....	.....	5.0	14.0	16.0	22.0	.....	5.0	.....	62.0
Minnesota.										
Albert Lea	.....	.....	4.0	11.0	2.0	7.0	5.0	.....	.....	29.0
Alexandria	.....	.....	T.	9.5	1.3	4.2	T.	3.0	.....	18.0
Beardsley	.....	.....	1.0	7.0	10.0	T.	.....	1.0	.....	19.0
Bird Island	.....	.....	0.7	13.0	5.8	T.	3.0	.....	.....	22.5
Brainerd	.....	.....	0.5	14.0	.....	.....	.....	.....	.....	14.5
Caledonia	.....	T.	3.0	12.0	1.6	4.0	6.5	0.8	.....	27.9
Collegeville	.....	0.2	1.1	15.1	2.6	3.7	2.9	1.8	.....	27.4
Crookston	.....	.....	3.0	4.5	6.5	2.0	8.0	.....	.....	24.0
Duluth	.....	.....	0.8	20.0	7.1	6.4	3.4	7.8	.....	45.5
Detroit City	.....	T.	5.0	4.0	6.0	(*)	5.5	3.0	.....	.....
Farmington	.....	0.2	3.5	25.0	3.5	1.5	4.0	1.0	.....	38.7
Fergus Falls	.....	0.2	2.9	7.5	4.6	2.7	3.3	1.5	.....	22.7
Grand Meadow	.....	.....	4.8	27.0	4.5	7.8	10.0	1.0	.....	55.1
Hallock	.....	.....	4.2	2.0	7.8	0.2	9.0	9.0	.....	32.2
Lake Winnibigoshish	.....	.....	8.0	14.5	10.2	7.0	3.5	6.5	.....	49.7
Long Prairie	.....	0.5	0.2	12.5	0.8	4.8	T.	5.5	.....	24.3
Luverne	.....	.....	T.	12.0	3.2	7.0	T.	1.0	.....	23.2
Minneapolis	.....	T.	2.5	17.7	2.5	1.7	4.1	1.5	T.	30.0
Montevideo	.....	T.	0.5	19.2	2.2	3.0	0.7	2.0	.....	27.6
Moorhead	.....	.....	3.0	8.8	11.8	6.4	6.7	5.0	.....	41.7
Morris	.....	0.2	0.6	17.6	3.1	5.0	0.1	5.5	T.	32.1
Mount Iron	T.	T.	5.0	20.5	11.5	10.8	3.5	6.0	T.	57.3
New Ulm	.....	T.	2.5	10.2	3.0	1.0	4.0	T.	.....	20.7
Park Rapids	.....	.....	0.2	9.2	6.1	5.5	3.7	4.6	.....	29.3
Pokegama Falls	.....	.....	4.8	9.5	5.2	8.5	0.8	9.5	.....	38.3
Reeds	.....	.....	1.5	19.0	3.5	9.0	5.0	1.0	.....	39.0
St. Paul	.....	T.	1.8	17.4	2.7	1.8	3.7	1.4	.....	28.8
Sandy Lake Dam	.....	.....	3.8	12.6	6.8	8.1	1.7	9.2	.....	42.2

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Mississippi.										
Austin	.....	.....	.....	T.	T.	4.0	.....	.....	.....	4.0
Canton	.....	.....	.....	T.	.....	0.2	.....	.....	.....	0.2
Jackson	.....	.....	.....	1.0	.....	.....	.....	.....	.....	1.0
Meridian	.....	.....	T.	T.	T.	T.	.....	.....	.....	T.
Vicksburg	.....	.....	.....	T.	.....	T.	.....	.....	.....	T.
Missouri.										
Birchtree	.....	.....	T.	T.	1.0	2.0	T.	T.	.....	3.0
Brunswick	.....	.....	T.	T.	8.5	8.5	T.	T.	.....	17.0
Columbia	.....	.....	T.	0.5	10.2	6.5	0.8	1.5	.....	19.5
Conception	.....	.....	T.	7.0	4.0	9.0	3.0	0.5	.....	23.5
Edgehill	.....	.....	T.	T.	2.5	2.0	0.2	0.0	.....	4.7
Fayette	.....	.....	T.	T.	9.9	11.0	T.	3.0	.....	23.9
Gallatin	.....	.....	1.0	3.7	4.2	9.5	6.0	3.0	.....	27.4
Halfway	.....	.....	T.	3.0	7.0	3.0	1.0	T.	.....	14.0
Hannibal	.....	.....	0.3	5.2	15.8	13.1	T.	3.3	.....	37.7
Harrisonville	.....	.....	.....	1.0	6.0	8.3	6.0	3.0	.....	24.3
Houston	.....	.....	T.	4.0	1.0	1.0	0.2	T.	.....	6.2
Ironton	.....	.....	T.	1.0	2.8	1.5	0.2	T.	.....	5.5
Kansas City	.....	.....	T.	4.4	4.6	9.7	3.0	3.6	.....	25.3
Lamar	.....	.....	T.	T.	2.0	3.0	T.	T.	.....	5.0
Lebanon	.....	.....	0.5	6.0	1.5	1.5	.....	T.	.....	9.5
Marblehill	.....	.....	T.	0.5	1.5	1.0	.....	0.0	.....	3.0
Mineralspring	.....	.....	.....	9.0	1.0	1.0	0.5	T.	.....	11.5
Neosho	.....	.....	.....	2.0	1.0	4.5	0.5	T.	.....	8.0
New Haven	.....	.....	T.	4.0	13.0	7.0	.....	T.	.....	24.0
Oakfield	.....	.....	0.5	3.2	11.5	5.9	1.3	1.5	.....	23.9
Princeton	.....	.....	2.0	7.0	1.5	9.2	4.0	4.0	.....	27.7
St. Louis	.....	.....	0.3	1.7	8.4	7.6	0.3	T.	.....	18.3
Springfield	.....	.....	T.	3.9	3.3	4.4	0.2	0.5	.....	12.3
Sublett	.....	.....	.....	.....	4.0	8.2	T.	T.	.....	12.2
Montana.										
Adel	8.0	1.6	(*)	(*)	7.0	12.0	17.5	18.0	7.5	.....
Boulder	T.	.....	10.5	10.5	2.0	2.0	7.5	7.0	8.5	48.0
Butte	.....	.....	6.5	9.0	4.2	0.5	11.0	4.0	.....	35.2
Crow Agency	.....	.....	1.5	7.0	3.0	12.0	8.0	3.0	.....	34.5
Dillon	T.	1.5	7.8	5.0	8.2	7.0	11.3	43.2	17.0	101.0
Fort Benton	.....	.....	1.0	9.0	1.0	.....	8.0	(*)	6.5	.....
Fort Logan	.....	.....	12.0	1.2	1.2	T.	(*)	.....	.....	.....
Glendive	.....	2.0	10.0	15.0	13.0	4.0	4.0	.....	T.	48.0
Greatfalls	T.	0.2	3.5	3.9	0.7	3.5	8.0	(*)	.....	.....
Havre	0.5	.....	9.8	5.2	3.3	2.0	4.0	0.2	17.1	42.1
Helena	T.	T.	2.6	7.9	6.9	1.3	12.3	9.7	8.6	49.3
Kalispell	.....	.....	11.2	19.8	3.7	4.4	0.2	2.2	0.7	42.2
Kipp	.....	.....	15.5	13.0	3.0	5.0	11.7	2.0	.....	50.2
Manhattan	1.0	.....	6.0	(*)	(*)	(*)	4.5	12.0	.....	.....
Marysville	3.0	T.	5.0	13.5	17.5	(*)	(*)	13.8	22.5	.....
Miles City	.....	.....	1.0	2.2	1.8	5.1	2.8	1.7	.....	14.6
Ovando	.....	.....	11.8	(*)	(*)	3.0	7.8	5.0	T.	.....
Parrot	.....	.....	(*)	(*)	3.7	(*)	6.2	25.4	4.6	.....
Poplar	.....	.....	6.5	10.6	T.	2.0	(*)	T.	.....	.....
St. Pauls	T.	T.	10.2	10.1	2.7	8.5	5.8	1.0	22.0	60.3
Troy	.....	.....	14.0	21.5	13.5	7.5	4.0	T.	.....	60.5
Utica	.....	.....	15.0	2.5	5.0	2.5	9.5	10.0	4.0	48.5
Yale	.....	.....	6.0	8.0	6.5	10.0	22.0	.....	6.5	59.0
Nebraska.										
Agee	.....	.....	.....	39.5	1.5	(*)	(*)	2.0	.....	.....
Albion	.....	.....	.....	10.0	.....	12.0	4.0	4.0	.....	30.0
Alliance	.....	.....	.....	15.5	0.5	1.0	T.	T.	.....	17.0
Ansley	.....	.....	T.	11.0	6.2	16.5	0.3	3.0	.....	37.0
Ashland	.....	.....	1.0	11.5	T.	8.0	4.0	1.0	.....	25.5
Ashton	.....	.....	T.	8.5	3.0	12.1	3.0	4.0	.....	30.6
Auburn	.....	.....	1.0	12.5	0.4	7.8	4.0	0.5	.....	28.2
Beatrice	.....	.....	1.0	6.8	1.0	8.4	3.0	2.0	.....	22.2
Beaver	.....	.....	T.	7.5	1.5	18.5	3.0	3.5	.....	34.0

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Nebraska—Continued.										
Callaway	.....	.....	.....	12.0	4.0	20.0	1.0	4.0	.....	41.0
Chester	.....	.....	.....	5.0	3.5	13.0	1.0	T.	.....	22.5
Culbertson	.....	.....	T.	8.0	3.0	1.5	3.7	0.8	.....	17.0
Dawson	.....	.....	.....	8.0	0.4	(*)	3.0	0.5	.....	.....
Ericson	.....	.....	T.	9.0	3.0	17.0	0.5	5.0	.....	34.5
Fairmont	.....	.....	2.5	6.5	1.5	14.5	1.5	1.0	.....	27.5
Fort Robinson	.....	.....	2.0	26.5	6.0	6.0	8.5	4.0	.....	53.0
Fremont	.....	.....	1.0	8.9	T.	(*)	2.0	1.5	.....	.....
Geneva	T.	.....	5.0	6.5	3.0	11.2	0.4	3.0	.....	29.1
Genoa	.....	.....	1.0	10.5	T.	10.3	5.0	1.5	.....	28.3
Hartington	.....	.....	T.	9.5	0.0	12.0	T.	2.5	.....	24.0
Hay Springs	.....	.....	1.5	9.7	4.9	12.0	9.3	.....	.....	37.4
Kearney	.....	.....	.....	5.5	2.2	22.5	2.5	2.0	.....	34.7
Kennedy	.....	0.5	2.0	28.0	7.0	23.0	3.0	2.5	.....	66.0
Kimball	.....	.....	2.0	20.5	1.5	10.0	5.0	5.0	.....	44.0
Kirkwood	.....	T.	1.0	27.0	1.8	10.0	0.2	3.0	.....	43.0
Lincoln	.....	.....	0.8	13.6	2.6	12.4	2.1	1.5	.....	33.0
Lodgepole	.....	.....	.....	17.0	T.	18.0	0.2	1.2	.....	36.4
Madrid	.....	.....	2.0	9.0	2.0	21.0	T.	(*)	.....	.....
Norfolk	.....	.....	0.7	13.5	T.	13.0	2.0	1.2	.....	30.4
North Loup	.....	.....	T.	5.3	2.5	14.0	2.0	4.5	.....	28.3
North Platte	.....	.....	T.	9.0	3.2	15.5	T.	3.0	.....	30.7
Omaha	.....	.....	0.8	14.1	0.4	8.4	2.3	0.6	.....	26.6
St. Libory	.....	.....	T.	11.0	2.0	25.0	(*)	3.0	.....	.....
West Point	.....	.....	1.1	15.6	T.	9.9	(*)	2.0	.....	.....
Nevada.										
Battle Mountain	.....	.....	3.2	.....	9.0	3.5	3.0	.....	.....	18.7
Candelaria	.....	.....	7.2	T.	6.0	12.0	1.5	0.7	T.	27.4
Carson City	.....	.....	2.1	T.	11.8	9.4	7.4	0.5	T.	31.2
Elko	.....	.....	.....	(*)	3.0	1.2	22.0	(*)	T.	.....
Ely	T.	4.1	15.0	9.0	7.0	4.0	1.0	6.0	5.0	51.1
Fenelon	.....	T.	2.5	.....	(*)	13.5	7.0	.....	7.0	.....
Golconda	.....	.....	1.0	(*)	18.5	6.0	3.0	.....	.....	.....
Halleck	T.	.....	2.8	(*)	16.5	5.0	(*)	0.5	.....	.....
Humboldt	.....	.....	1.2	.....	14.0	0.1	3.5	.....	.....	18.8
Lovelocks	.....	.....	.....	.....	5.0	0.5	.....	.....	.....	5.5
Martins	.....	.....	(*)	.....	8.0	6.0	5.5	2.0	T.	.....
Mill City	.....	.....	2.0	.....	(*)	.....	.....	.....	.....	.....
Palisade	.....	.....	.....	2.0	7.0	1.0	7.0	.....	3.5	20.5
Palmetto	T.	T.	32.5	2.0	10.0	10.0	17.5	10.0	12.0	94.0
Potts	T.	2.0	12.8	1.0	8.5	4.2	15.2	8.0	4.7	56.4
Reno, State University	.....	.....	1.0	T.	11.5	7.3	(*)	0.6	1.1	.....
Sodaville	.....	.....	4.0	T.	2.0	T.	1.0	.....	.....	7.0
Tecoma	.....	.....	2.0	T.	6.0	2.0	5.1	.....	.....	15.1
Toano	.....	.....	2.0	5.0	11.5	9.0	4.0	2.0	T.	33.5
Wadsworth	.....	.....	.....	.....	5.0	2.2	8.2	.....	T.	15.4
Winnemucca	.....	.....	1.1	0.1	12.5	4.2	5.3	3.4	T.	26.6
New Hampshire.										
Berlin Mills	.....	0.2	2.0	23.7	14.2	21.4	(*)	5.1	.....	.....
Bethlehem	.....	0.5	4.5	17.5	9.5	25.0	9.0	6.0	.....	72.0
Brookline	.....	T.	5.0	24.2	11.2	15.0	2.5	0.2	.....	58.1
Grafton	.....	.....	0.5	32.0	14.0	25.0	2.0	2.0	.....	75.5
Littleton	.....	T.	6.5	21.0	19.0	21.0	9.0	14.0	.....	90.5
New Jersey.										
Asbury Park	.....	.....	.....	3.5	5.0	6.8	.....	T.	.....	15.3
Atlantic City	.....	.....	.....	1.4	6.9	0.3	.....	0.1	.....	8.7
Belvidere	.....	T.	(*)	17.5	8.0	8.0	.....	.....	.....	.....
Bridgeton	.....	.....	.....	2.0	3.0	2.0	.....	.....	.....	7.0
Cape May	.....	.....	.....	T.	4.0	0.5	.....	T.	.....	4.5
Chester	.....	.....	3.5	16.0	8.0	7.5	T.	.....	.....	35.0
Dover	.....	.....	1.0	18.0	9.0	8.5	.....	.....	.....	36.5
New Brunswick	.....	T.	T.	9.3	7.6	9.5	.....	T.	.....	26.4
Sussex	.....	T.	.....	31.5	11.2	13.0	.....	T.	.....	55.7

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New Mexico.										
Albert			1.0	6.0	T.	20.0		T.		27.0
Albuquerque					1.5	3.0				4.5
Alma						3.0				3.0
Arabela			T.	1.3	3.0	12.5				16.8
Bluewater				5.0	1.0	(*)	(*)	(*)	(*)	
Folsom		2.0	0.2	7.5	3.4	15.0	1.4	7.5	T.	37.0
Fort Union		T.	0.5	9.5	T.	16.0	T.	T.		26.0
Gallinas Springs			0.5	10.0	2.0	29.0				41.5
Las Vegas Hot Springs		T.	3.3	11.8	T.	16.0	T.			31.1
Mesilla Park			4.5	T.	2.0	(*)				
Olio				1.2						1.2
Raton				2.2	(*)	21.0				
Roswell			1.2	T.	2.0	5.0				8.2
San Marcial			(*)		0.5	T.				
Santa Fe		T.	T.	5.2	1.1	13.8	1.0			21.1
New York.										
Adams		T.	3.0	31.5	45.5	36.0	6.0	2.0	T.	124.0
Albany		T.	1.8	33.5	4.8	9.3	2.6	1.0	T.	53.0
Baldwinsville		T.	3.5	30.5	19.5	13.5	1.0	T.		68.0
Bedford		T.	T.	(*)	5.4	(*)		T.		
Binghamton		T.	4.0	26.6	16.3	15.8	0.4	0.3	T.	63.4
Bolivar		T.	1.9	25.3	17.0	15.0	0.4	T.	T.	59.6
Bouckville		2.0	4.0	39.5	23.0	20.0	4.5			93.0
Buffalo		T.	2.9	24.7	33.0	12.0	0.5	1.0		74.1
Caldwell		T.	5.2	31.4	12.9	20.0	5.0	2.0	T.	76.5
Canton		(*)	3.0	14.8	(*)	(*)	(*)	(*)	(*)	
Carmel		T.		26.5	11.7	9.0		T.		47.2
Cooperstown		T.	3.0	25.0	16.0	19.5	1.0	T.		64.5
Elmira		0.5	1.5	15.0	(*)	17.0				
Franklinville			T.	17.9	19.0	14.8	0.2	0.5	T.	52.4
Glens Falls		T.	0.5	28.2	13.1	16.5	3.5	2.0		63.8
Gloversville			0.5	49.5	16.5	19.5	3.0			89.0
Ithaca		T.	1.1	44.9	14.3	13.4	T.	1.5	T.	75.2
Jamestown		T.	0.5	24.4	19.5	10.4	0.5	T.	T.	55.3
Littlefalls (C. R.)			3.0	31.5	12.5	19.0	0.5	T.	T.	66.5
Lowville			3.2	20.0	33.0	19.0	1.0			76.2
Middletown		T.	T.	28.6	7.3	13.2	T.	T.		49.1
New Lisbon		1.0	3.0	38.8	15.0	17.0	T.	T.		74.8
New York				9.6	5.9	10.5		T.		26.0
North Hammond		0.1	2.0	13.1	21.4	21.0	0.5	2.0		60.1
Oswego		T.	3.6	31.4	27.9	21.0	3.1	0.6	T.	87.6
Oxford		T.	0.8	39.8	21.1	19.6	1.3	T.	T.	82.6
Rochester		0.1	4.1	27.7	18.1	15.6	2.4	0.3	T.	68.3
Saranac Lake		T.	5.5	11.7	21.9	16.2	4.7	0.4	T.	60.4
Saratoga Springs		T.	0.5	32.5	14.5	21.0	(*)	(*)	(*)	
Setauket				11.0	4.5	10.5		0.3		26.3
Westfield			T.	(*)	9.5	T.	T.	T.		
North Carolina.										
Asheville		T.	T.	T.	0.8	0.1	T.	T.		0.9
Charlotte			T.	T.						T.
Edenton				T.						T.
Hatteras										0.0
Henderson				T.						T.
Linville		2.0	1.0	3.0	3.0	1.0	4.0			14.0
Littleton					T.					T.
Lumberton										0.0
Monroe			T.		T.					T.
Patterson				0.2	1.0	T.		T.		1.2
Raleigh				T.						T.
Rockingham										0.0
Sloan										0.0
Southern Pines										0.0
Tarboro				T.						T.
Weldon										0.0
Wilmington										0.0

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North Dakota.										
Ashley	.....	0.5	2.0	3.0	5.0	.....	6.0	3.0	.....	19.5
Berlin	.....	3.0	1.0	8.0	16.4	11.5	15.6	23.0	.....	78.5
Bismarck	.....	0.0	T.	1.0	8.2	0.8	1.2	1.6	.....	12.8
Buxton	.....	.....	.....	5.9	7.6	0.6	11.7	2.0	.....	27.8
Devils Lake	.....	.....	T.	1.0	10.8	5.0	4.5	3.0	.....	24.3
Dickinson	(*)	(*)	(*)	(*)	(*)	(*)	T.	2.0	.....	.....
Ellendale	.....	.....	4.0	11.0	7.0	7.0	7.0	1.0	.....	37.0
Fargo	.....	.....	1.1	2.7	8.3	4.5	4.0	.....	.....	20.6
Forman	.....	.....	5.0	4.5	7.5	8.0	3.4	7.0	.....	35.4
Fort Yates	.....	0.6	0.5	0.6	2.9	T.	4.1	.....	.....	8.7
Fullerton	.....	2.0	1.9	11.0	8.8	13.8	11.7	14.0	.....	63.2
Gallatin	.....	0.2	1.5	2.8	9.3	0.6	9.0	5.5	.....	28.9
Hamilton	.....	T.	4.2	(*)	9.1	2.5	6.2	7.0	.....	.....
Hannaford	.....	T.	1.2	4.1	9.3	0.8	4.6	.....	.....	20.0
Larimore	.....	.....	3.0	3.0	6.5	1.0	6.0	2.2	.....	21.7
McKinney	.....	.....	2.5	9.0	T.	6.0	(*)	.....	.....	.....
Mayville	.....	.....	T.	4.7	2.4	1.6	9.3	T.	.....	18.0
Medora	.....	1.0	4.0	3.0	8.5	2.0	3.0	1.5	.....	23.0
Melville	.....	.....	1.3	1.0	3.4	T.	2.2	T.	.....	7.9
Milton	.....	.....	2.0	5.8	(*)	2.0	3.5	10.1	.....	.....
Napoleon	.....	4.0	1.0	2.5	5.5	1.5	4.5	5.0	.....	24.0
Oakdale	.....	4.0	5.5	11.0	14.5	6.0	4.0	4.0	T.	49.0
University	.....	.....	1.3	4.6	7.0	1.0	5.0	.....	.....	18.9
Wahpeton	.....	.....	2.5	(*)	0.9	6.0	3.0	.....	T.	.....
Williston	.....	T.	8.4	8.9	5.6	2.7	1.0	2.4	T.	29.0
Ohio.										
Akron	.....	.....	0.7	13.8	16.5	7.3	0.8	0.5	.....	39.6
Bement	.....	.....	1.5	23.0	2.0	2.5	0.5	T.	.....	29.5
Cedarville	.....	.....	0.5	7.0	11.0	4.0	.....	.....	.....	22.5
Cincinnati	.....	.....	T.	7.8	5.5	4.6	T.	T.	.....	17.9
Clarksville	.....	.....	0.5	9.2	4.5	3.6	T.	T.	.....	17.8
Cleveland	.....	.....	0.8	29.1	14.8	10.0	0.8	0.6	T.	56.1
Coalton	.....	.....	T.	8.0	8.0	5.0	.....	.....	.....	21.0
Colebrook	.....	T.	(*)	15.0	(*)	(*)	0.2	.....	.....	.....
Columbus	.....	.....	T.	10.7	6.7	5.8	T.	T.	.....	23.2
Dayton	.....	.....	T.	5.4	17.0	4.0	T.	.....	.....	26.4
Defiance	.....	.....	6.7	13.1	10.0	10.1	T.	0.5	.....	40.4
Garrettsville	.....	T.	T.	18.8	17.7	11.0	1.2	2.5	.....	51.2
Gratiot	.....	.....	2.2	1.0	12.5	7.2	0.3	0.1	.....	23.3
Jacksonboro	.....	.....	2.0	7.5	19.0	9.0	.....	.....	.....	37.5
McConnelsville	.....	.....	2.0	10.5	9.5	7.0	T.	T.	.....	29.0
Marietta	.....	.....	0.5	5.5	3.5	6.5	.....	.....	.....	16.0
Marion	.....	.....	0.1	8.0	(*)	9.3	T.	T.	.....	.....
Medina	.....	.....	1.0	14.0	14.0	6.0	T.	1.0	.....	36.0
Millport	.....	T.	T.	12.5	9.8	8.2	T.	T.	.....	30.5
Napoleon	.....	.....	7.0	17.0	(*)	.....	.....	T.	.....	.....
New Waterford	.....	.....	1.0	21.5	10.0	14.0	.....	T.	.....	46.5
Oberlin	.....	.....	.....	10.0	12.2	5.2	T.	(*)	.....	.....
Pomeroy	.....	.....	0.8	4.2	4.0	7.5	.....	.....	.....	16.5
Portsmouth	.....	.....	T.	4.0	4.0	5.0	T.	T.	.....	13.0
Rockyridge	.....	.....	3.2	14.6	8.6	5.0	T.	T.	.....	31.4
Sandusky	.....	.....	T.	15.5	8.8	6.5	0.1	0.8	.....	31.7
Shenandoah	.....	.....	3.2	4.7	11.1	5.0	T.	0.3	.....	24.3
Sidney	.....	.....	4.0	10.6	13.2	7.7	0.7	.....	.....	36.2
Toledo	.....	.....	2.2	10.9	7.7	9.8	0.3	1.4	.....	32.3
Wauseon	.....	.....	5.8	13.8	11.3	14.2	1.0	1.3	.....	47.4
Oklahoma.										
Arapaho	.....	.....	.....	.....	0.2	(*)	(*)	.....	.....	.....
Beaver	.....	.....	.....	.....	(*)	.....	.....	1.0	.....	.....
Burnett	.....	.....	.....	2.0	.....	0.5	.....	.....	.....	2.5
Fort Sill	.....	.....	.....	1.8	.....	0.5	0.2	.....	.....	2.5
Guthrie	.....	.....	.....	4.4	.....	4.0	1.0	.....	.....	9.4
Hennessey	.....	.....	.....	1.0	.....	13.0	.....	.....	.....	14.0
Kingfisher	.....	.....	.....	0.3	T.	10.8	.....	.....	.....	11.1
Mangum	.....	.....	.....	.....	.....	0.5	.....	.....	.....	0.5
Newkirk	.....	.....	.....	T.	T.	1.4	.....	.....	.....	1.4
Oklahoma	.....	.....	.....	1.8	.....	4.0	1.0	.....	.....	6.8
Perry	.....	.....	.....	2.5	.....	3.2	0.1	.....	.....	5.8

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Oregon.										
Albany	.....	.....	.....	.....	0.5	.....	.....	.....	.....	0.5
Ashland	.....	.....	1.0	.....	9.4	0.9	5.7	1.1	.....	18.1
Astoria	.....	.....	.....	T.	4.0	0.5	0.8	T.	.....	5.3
Aurora (near)	.....	.....	.....	T.	1.2	T.	T.	T.	.....	1.2
Baker City	.....	.....	T.	19.4	6.7	2.8	3.7	0.2	0.2	33.0
Bay City	.....	.....	5.8	.....	5.5	4.0	0.3	.....	.....	15.6
Bend	.....	.....	3.5	8.0	(*)	0.8	9.0	1.0	0.5	.....
Coquille	.....	.....	.....	.....	.....	0.5	.....	.....	.....	0.5
Corvallis	.....	.....	.....	.....	3.0	.....	T.	.....	.....	3.0
Dayville	.....	.....	1.5	4.5	3.2	5.8	9.0	T.	.....	24.0
Eugene	.....	.....	.....	.....	11.0	0.2	.....	.....	.....	11.2
Falls City	.....	.....	.....	.....	17.9	0.3	.....	T.	.....	18.2
Government Camp	.....	4.0	66.0	67.9	40.0	20.0	19.0	34.0	27.0	277.9
Grants Pass	.....	.....	.....	0.5	9.8	.....	.....	.....	.....	10.3
Hood River	.....	.....	T.	33.5	29.6	5.0	T.	.....	.....	68.1
Joseph	.....	T.	11.0	21.5	11.0	3.0	15.0	12.7	0.6	74.8
Lagrande	.....	.....	6.2	17.5	4.5	0.8	10.0	1.5	.....	40.5
Lonerock	.....	.....	2.5	13.5	5.0	6.0	17.3	2.2	.....	46.5
Newport	.....	.....	.....	.....	(*)	T.	.....	.....	.....	.....
Pendleton	.....	.....	6.5	.....	4.2	.....	4.0	.....	.....	14.7
Portland	.....	.....	.....	0.7	0.8	0.6	2.6	0.2	.....	4.9
Riverside	.....	.....	1.0	.....	9.5	5.0	4.0	.....	.....	19.5
Roseburg	.....	.....	.....	.....	7.1	1.0	0.7	0.3	.....	9.1
Silverlake	.....	.....	.....	3.0	10.0	5.5	7.5	.....	2.0	28.0
Siskiyou	.....	.....	10.5	19.5	(*)	(*)	(*)	(*)	(*)	.....
Sparta	.....	.....	24.0	40.0	27.0	5.0	13.0	5.0	T.	114.0
The Dalles	.....	.....	.....	22.5	4.0	2.0	1.4	.....	.....	29.9
Toledo	.....	.....	.....	.....	T.	T.	.....	0.2	.....	0.2
Vale	.....	.....	2.0	4.0	10.0	2.0	5.0	.....	.....	23.0
Weston	.....	.....	6.5	12.2	3.6	6.0	15.5	T.	.....	43.8
Pennsylvania.										
Cassandra	.....	.....	6.0	2.2	21.0	19.0	4.0	T.	T.	52.2
Confluence	.....	.....	3.0	14.8	12.0	3.4	1.9	.....	.....	35.1
Dushore	.....	T.	3.5	27.1	10.2	16.6	T.	.....	.....	57.4
East Mauch Chunk	.....	T.	1.0	23.0	10.0	10.0	.....	.....	.....	44.0
Emporium	.....	T.	3.0	20.2	22.7	13.5	T.	T.	.....	59.4
Erie	.....	.....	1.5	14.4	14.8	18.2	0.3	0.4	T.	49.6
Franklin	.....	T.	T.	13.0	18.0	7.0	.....	T.	.....	38.0
Grampian	.....	(*)	(*)	(*)	(*)	16.0	T.	.....	.....	.....
Harrisburg	.....	T.	1.0	14.0	12.1	9.0	T.	.....	.....	36.1
Huntingdon	.....	.....	(*)	20.0	14.0	7.0	.....	.....	.....	.....
Irwin	.....	T.	2.0	10.1	8.0	(*)	T.	T.	.....	.....
Johnstown	.....	T.	4.0	21.0	17.6	11.6	T.	T.	.....	54.2
Lawrenceville	.....	T.	2.0	24.2	13.5	17.0	.....	.....	.....	56.7
Leroy	.....	T.	2.0	21.8	11.2	16.0	T.	0.2	.....	51.2
Lewisburg	.....	.....	5.2	19.0	14.5	13.5	.....	.....	.....	52.2
Lockhaven	.....	T.	(*)	22.0	10.0	11.5	T.	.....	.....	.....
Parker	.....	.....	T.	16.8	12.4	11.2	T.	T.	.....	40.4
Philadelphia	.....	T.	.....	6.0	3.9	6.8	T.	0.1	.....	16.8
Pittsburg	.....	T.	2.1	10.6	6.1	7.2	T.	T.	.....	26.0
Renovo	.....	.....	1.5	22.7	23.5	10.5	.....	.....	.....	58.2
Saegerstown	.....	T.	.....	23.8	16.9	5.0	T.	T.	.....	45.7
South Eaton	.....	.....	.....	20.0	8.0	10.0	.....	.....	.....	38.0
Warren	.....	0.3	1.0	24.0	19.0	12.4	0.3	0.7	.....	57.7
Wellsboro	.....	T.	T.	25.0	13.5	15.5	T.	T.	T.	54.0
Wilkesbarre	.....	T.	4.0	27.4	5.5	11.0	.....	.....	.....	47.9
Rhode Island.										
Block Island	.....	.....	T.	14.5	3.6	5.8	.....	.....	.....	23.9
Bristol	.....	.....	.....	21.5	6.0	14.2	.....	.....	.....	41.7
Kingston	.....	.....	.....	26.0	7.0	12.0	.....	.....	.....	45.0
Narragansett	.....	.....	.....	26.5	14.5	9.5	.....	.....	.....	50.5
Pawtucket	.....	.....	.....	18.2	0.1	16.0	.....	.....	.....	34.3
Providence	.....	.....	T.	23.5	7.5	16.0	T.	T.	.....	47.0

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South Carolina.										
Charleston										0.0
Cheraw										0.0
Clemson College										0.0
Columbia				T.						T.
Florence										0.0
Gaffney			T.							T.
Georgetown										0.0
Greenville			T.							T.
Smiths Mills										0.0
Stateburg					T.					T.
Trenton			T.							T.
Walhalla					T.					T.
South Dakota.										
Aberdeen			1.0	17.0	4.0	9.0	5.5			36.5
Alexandria			T.	13.5	T.	8.0		1.0		22.5
Armour			0.7	25.0	1.0	12.5	0.5	2.5		42.2
Ashcroft		T.	T.	2.5	5.3	4.0	5.0	2.2		19.0
Brookings		T.	T.	12.0	1.0	3.0		3.0		19.0
Canton		T.	T.	14.0	T.	3.8		0.5		18.3
Chamberlain			3.5	17.6	0.8	10.7	1.2	0.7		34.5
Clark		T.	2.0	12.5	3.0	3.0	T.	(*)		
Desmet		T.	T.		(*)			3.0		
Doland		T.	1.0	13.2	3.7	4.5	2.3	2.0		26.7
Elkpoint		T.	0.6	21.2	0.8	11.2	0.5	1.0		35.3
Forestburg		T.	T.	16.3	3.5	5.3	T.	3.0		28.1
Fort Meade			0.1	1.5	0.5	(*)	16.0	(*)		
Gannvalley			0.5	20.5	5.0	13.5	1.0	2.0		42.5
Gary				24.0	(*)			(*)		
Howard				(*)	(*)	2.0	0.1	3.0		
Huron			0.3	14.7	0.8	3.1	0.9	1.3		21.1
Interior		(*)	(*)	(*)	(*)	(*)	4.0			
Marion			T.	10.0	(*)	(*)		(*)		
Menno			0.7	13.8	2.0	7.0	0.5	4.0		28.0
Millbank			1.5	11.0	(*)	(*)		2.0		
Mitchell			T.	14.5	4.0	7.0	T.	2.0		27.5
Oelrichs			T.	14.1	5.0	6.5	12.5			38.1
Pierre			1.2	23.1	1.4	3.6	5.7	3.7		38.7
Plankinton			0.2	16.0	1.5	3.9	1.0	3.0		25.6
Rapid City		T.	5.0	8.0	0.7	4.7	9.0	1.3		28.7
Silver City		T.	5.0	12.0	1.7	6.0	16.0	3.0		43.7
Sioux Falls		T.	0.2	12.0	(*)	(*)		2.0		
Spearfish			1.4	20.0	3.2	8.5	29.5	20.0		82.6
Waubay			2.5	8.1	(*)	1.5		(*)		
Yankton		T.	T.	21.4	1.6	23.8	1.8	4.7		53.3
Tennessee.										
Andersonville				T.	T.	2.0		T.		2.0
Ashwood					T.	3.0				3.0
Bristol			T.	T.	T.	T.	T.	T.		T.
Carthage			T.	0.3	0.8	3.0				4.1
Chattanooga			0.3	T.	0.2	0.6				1.1
Decatur			0.5	0.5	0.5	2.0				3.5
Florence			T.	T.	0.5	3.0				3.5
Greeneville		T.	0.3	0.1	2.5	0.5	T.	T.		3.4
Jonesboro			T.	3.1	1.3	1.2		T.		5.6
Knoxville			0.2	T.	0.1	3.3				3.6
Memphis			T.		T.	4.0				4.0
Nashville			T.	0.4	0.1	3.1				3.6
Nunnelly			T.			1.0				1.0
Oakhill			(*)			5.0				
Palmetto			T.		T.	4.0				4.0
Pope			T.	T.	T.	3.0				3.0
Rugby			0.5	T.	10.0	8.0		T.		18.5
Savannah			T.	T.	T.	3.0				3.0
Tellico Plains			T.	T.	T.	1.5	T.			1.5
Union City			T.	T.	1.5	5.0	T.			6.5

MONTHLY AND SEASONAL SNOWFALL 1902–1903—Continued.

States and stations.	1902.				1903.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Texas.										
Abilene	.....	.....	.....	0.1	0.7	2.8	0.8	.....	.....	4.4
Amarillo	.....	.....	2.0	5.5	1.2	28.7	1.0	0.2	.....	38.6
Ballinger	.....	.....	.....	0.3	(*)	.....	0.7	.....	.....	.....
Big Spring	.....	.....	.....	T.	1.8	2.5	T.	.....	.....	4.3
Burnet	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Dallas	.....	.....	.....	1.2	.....	6.0	.....	.....	.....	7.2
Dublin	.....	.....	.....	.....	.....	2.0	.....	.....	.....	2.0
El Paso	.....	.....	T.	T.	1.0	3.4	T.	.....	.....	4.4
Estelle	.....	.....	.....	2.0	.....	9.0	.....	.....	.....	11.0
Fort Worth	.....	.....	.....	.....	.....	3.0	.....	.....	.....	3.0
Galveston	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Hale Center	.....	.....	.....	0.2	1.2	(*)	T.	.....	.....	.....
Haskell	.....	.....	.....	0.5	2.0	3.5	.....	.....	.....	6.0
Kent	.....	.....	0.5	1.5	5.2	3.0	T.	.....	.....	10.2
Mount Blanco	.....	.....	.....	2.0	.....	3.0	T.	.....	.....	5.0
Palestine	.....	.....	.....	.....	.....	1.5	T.	.....	.....	1.5
Rhineland	.....	.....	.....	T.	.....	2.0	.....	.....	.....	2.0
Utah.										
Blue Creek	.....	.....	.....	4.0	6.5	0.2	2.0	.....	.....	12.7
Corinne	.....	.....	0.5	6.0	13.3	1.0	2.5	.....	.....	23.3
Deseret	.....	.....	12.0	2.0	1.0	13.0	4.0	.....	.....	32.0
Frisco	.....	.....	8.3	5.0	(*)	(*)	.....	(*)	.....	.....
Giles	.....	.....	.....	2.9	(*)	4.8	.....	.....	.....	.....
Grover	.....	T.	24.5	3.0	T.	4.0	T.	0.3	2.0	33.8
Heber	.....	.....	13.4	(*)	13.2	(*)	.....	.....	.....	.....
Huntsville	.....	.....	2.0	13.0	34.0	6.5	18.0	T.	.....	73.5
Levan	.....	.....	9.3	13.5	11.8	9.8	12.4	2.1	.....	58.9
Loa	.....	.....	12.0	6.0	6.0	.....	2.0	.....	4.0	30.0
Marysvale	.....	.....	14.5	6.5	1.5	6.5	6.6	5.2	2.6	43.4
Moab	.....	.....	T.	3.0	T.	8.0	T.	.....	.....	11.0
Modena	.....	.....	6.8	4.0	1.9	9.1	3.5	1.4	0.4	.....
Mount Pleasant	.....	(*)	(*)	10.0	11.0	11.0	14.0	.....	.....	.....
Ogden	.....	.....	3.0	6.5	16.1	7.8	11.0	.....	.....	44.4
Parowan	.....	.....	16.5	10.3	10.0	8.0	16.3	8.7	4.0	73.8
Pinto	.....	.....	15.0	(*)	(*)	15.8	19.0	(*)	.....	.....
Promontory	.....	.....	.....	.....	.....	5.0	2.8	(*)	(*)	.....
Richfield	.....	.....	.....	4.7	(*)	.....	3.0	(*)	.....	.....
St. George	.....	.....	.....	T.	(*)	5.5	.....	.....	.....	.....
Salt Lake City	.....	.....	4.1	9.5	7.5	8.8	9.6	0.5	T.	40.0
Vermont.										
Burlington	.....	T.	3.0	8.5	13.5	16.0	1.0	T.	.....	42.0
Chelsea	.....	.....	3.0	28.0	20.0	21.0	8.0	4.0	.....	84.0
Enosburg Falls	.....	T.	9.0	20.0	21.0	32.5	5.0	3.0	T.	90.5
Hartland	.....	.....	.....	34.0	(*)	.....	(*)	.....	.....	.....
Northfield	.....	0.6	2.6	19.5	17.7	23.9	1.5	1.2	T.	67.0
Virginia.										
Bigstone Gap	.....	.....	T.	(*)	1.5	4.0	.....	T.	.....	.....
Blacksburg	.....	.....	T.	0.5	1.8	3.2	0.5	T.	.....	6.0
Bonair	.....	.....	.....	0.2	0.5	0.2	.....	.....	.....	0.9
Burkes Garden	.....	.....	.....	3.0	7.0	1.0	.....	T.	.....	11.0
Callaville	.....	.....	.....	0.5	(*)	.....	.....	.....	.....	.....
Cape Henry	.....	.....	.....	T.	.....	T.	.....	.....	.....	T.
Charlottesville	.....	.....	.....	1.5	1.7	2.0	T.	.....	.....	5.2
Dale Enterprise	.....	T.	T.	4.5	10.0	7.0	0.5	T.	.....	22.0
Farmville	.....	.....	.....	.....	T.	T.	.....	.....	(*)	.....
Fredericksburg	.....	.....	T.	T.	1.0	(*)	.....	.....	.....	.....
Hampton	.....	.....	.....	0.5	T.	T.	.....	.....	.....	0.5
Hot Springs	.....	.....	.....	4.0	9.0	4.0	.....	.....	.....	17.0
Lynchburg	.....	.....	.....	T.	1.6	0.5	.....	.....	.....	2.1
Norfolk	.....	.....	.....	0.1	T.	T.	.....	.....	.....	0.1
Richmond	.....	.....	.....	1.1	0.9	0.2	.....	.....	.....	2.2
Stephens City	.....	.....	(*)	(*)	(*)	10.5	.....	.....	.....	.....

MONTHLY AND SEASONAL SNOWFALL 1902–1903—Continued.

States and stations.	1902.				1903.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Washington.										
Aberdeen				T.		2.0	3.0	T.		5.0
Brinnon			0.3		6.0	0.1	10.2	T.		16.6
Cedonia			10.4	16.1	12.7	3.9	7.0	2.5		52.6
Clearwater				2.5	13.7					16.2
Cle Elum			6.0	65.5	28.0	20.0	T.	T.		119.5
Ellensburg (near)		(*)	2.4	32.0	(*)	0.8	T.	(*)		
Lacenter					2.8	T.	1.2	T.		4.0
Lakeside			5.0	36.0	12.5	3.5	1.0			58.0
Lind			3.0	15.5	6.0	3.0	3.0	T.		30.5
Moxee Valley			1.5	13.7	1.0	4.2	T.	T.		20.4
Olga			T.		0.5	1.5	5.5			7.5
Olympia				2.0	T.		1.0			3.0
Pinehill			T.	40.4	14.8	4.0	3.0	T.		62.2
Pullman			1.0	13.0	4.0	T.	7.8	3.5		29.3
Rosalia			7.5	16.0	6.5	0.5	4.8	0.9		36.2
Seattle				0.4	1.5	0.8	8.6			11.3
Silvana							8.0			8.0
Spokane			3.9	14.7	6.0	2.3	0.5	1.2		28.6
Tacoma				3.6	3.8	1.3	9.7	1.0		19.4
Union				4.5	10.4	1.6	8.4	T.		24.9
Walla Walla				5.7	1.3	1.1	6.8	T.		14.9
Waterville			9.0	32.0	18.5	2.0	2.0	0.5		64.0
Wenatchee (near)			10.2	45.5	12.0	4.0	8.0			79.7
Whatcom			T.		1.0	0.5	7.0			8.5
West Virginia.										
Beverly			1.0	14.0	15.0	18.0	1.0	1.0		50.0
Bluefield			(*)		20.0	3.0				
Charleston			(*)	3.5	3.5	9.0		T.		
Dayton		T.	T.	10.5	5.5	7.5	T.	T.		23.5
Elkins		0.2	1.7	11.3	9.9	13.0	0.6	1.2	T.	37.9
Fairmont			T.	15.4	6.0	8.9	T.			30.3
Glenville		T.	T.	9.8	10.0	13.0	T.	T.		32.8
Grafton		T.	1.5	16.0	5.8	9.8	T.	T.		33.1
Huntington			T.	2.0	0.8	7.0				9.8
Lewisburg			T.	3.0	10.5	5.0	T.	T.		18.5
Martinsburg			T.	7.0	5.0	6.0	T.			18.0
Parkersburg			T.	2.8	3.8	11.1	T.	T.		17.7
Point Pleasant				3.0	2.0	8.0	T.	T.		
Wisconsin.										
Amherst			2.0	15.0	3.5	6.0	2.0	1.0		29.5
Antigo			(*)	(*)	3.0	8.0		5.5		
Brodhead			3.0	8.0	2.0	11.0	2.0	T.		26.0
Butternut			6.0	15.1	7.5	14.4	5.0	3.0		51.0
Eau Claire			1.0	19.0	3.2	4.2	2.0	0.8		30.2
Florence		T.	2.0	13.0	T.	2.5	6.0	6.0		29.5
Grantsburg		T.	6.0	19.0	8.2	11.0	2.0	4.0		50.2
Greenbay			0.1	13.6	12.5	10.5	1.7	0.2		38.6
Harvey			2.0	8.8	4.3	6.4	2.4	1.0		24.9
Koepenick			2.0	16.0	6.2	8.0	4.0	15.0	10.0	61.2
La Crosse			1.0	17.4	1.6	10.0	1.5	0.5		32.0
Madison			1.3	5.8	1.0	6.5	3.7	1.0		19.3
Medford			3.0	7.0	2.0	2.0		2.0		16.0
Milwaukee			1.2	8.6	8.4	17.5	2.5	2.3		40.5
Neillsville			4.0	12.0	1.0	8.0		2.0		27.0
Osceola		T.	2.5	23.3	7.0	6.5	3.0	2.5		44.8
Pepin		T.	1.0	(*)	(*)	(*)	(*)	(*)	(*)	
Pine River		T.	1.3	14.0	8.7	10.5	3.1	1.0		38.6
Portage			2.0	9.0	1.0	12.0	4.0	2.0		30.0
Port Washington			T.	4.0	8.0	14.0	3.5	0.5		30.0
Prairie du Chien			2.0	9.8	2.5	7.5	5.3	(*)		
Sheboygan			T.	4.5	13.0	8.0	1.0	T.		26.5
Valley Junction			2.0	7.0	1.0	8.0	(*)	2.0		
Viroqua		T.	4.0	20.0	3.6	10.6	5.0	2.5		45.7
Watertown			1.5	7.2	8.0	10.7	1.7			29.1
Waupaca			1.5	9.2	7.6	7.9	2.0			28.2

MONTHLY AND SEASONAL SNOWFALL 1902–1903—Continued.

States and stations.	1902.				1903.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Wyoming.										
Alcova	T.	T.	10.8	22.2	8.5	6.0	10.0	T.	T.	57.5
Basin	T.	.....	T.	T.	T.	2.1	T.	3.1	.....	5.2
Bedford	T.	T.	6.0	19.2	19.1	2.0	.....	(*)	.....	.....
Centennial	.....	.....	.....	(*)	(*)	8.6	10.9	.....	.....	.....
Cheyenne	.....	T.	2.1	19.3	1.8	18.4	9.5	14.3	0.2	65.6
Evanston	.....	T.	2.2	6.5	17.0	6.7	7.0	3.0	5.5	47.9
Fort Laramie	.....	.....	.....	11.5	1.0	12.0	19.0	22.3	.....	65.8
Fort Washakie	.....	.....	0.5	0.5	2.0	1.3	18.0	10.0	2.5	34.8
Fort Yellowstone	6.0	T.	16.5	8.5	6.0	2.5	7.0	8.0	2.5	57.0
Fourbear	T.	T.	5.0	5.7	7.5	7.0	6.7	5.5	13.0	40.4
Lander	.....	.....	0.6	2.5	2.5	8.2	22.2	16.9	4.1	57.0
Laramie	2.0	0.5	2.5	11.5	1.5	4.8	8.0	8.0	T.	38.8
Rawlins	.....	0.8	2.3	21.1	13.3	9.5	13.2	.....	.....	60.2
Thayne	.....	0.3	4.2	11.4	21.9	3.2	3.8	2.6	.....	47.4
Canadian Stations.										
St. Johns	.....	.....	0.4	18.4	(*)	22.1	4.6	0.2	.....	.....
Sydney	.....	.....	3.0	16.5	33.0	24.5	8.0	3.5	.....	88.5
Halifax	.....	.....	T.	24.7	16.8	16.9	8.2	1.1	.....	67.7
Grand Manan	.....	.....	1.6	38.6	11.8	9.0	3.5	4.5	.....	69.0
Yarmouth	.....	T.	0.7	24.8	13.5	10.6	1.3	4.1	.....	55.0
Charlottetown	.....	T.	8.9	24.9	20.7	17.7	9.3	10.3	0.8	92.6
Chatham	.....	T.	9.6	21.0	20.3	33.7	12.9	15.6	T.	113.1
Father Point	.....	1.9	19.1	27.8	42.1	38.8	10.6	20.2	.....	160.5
Quebec	.....	0.2	6.8	23.2	29.0	39.2	5.2	5.1	.....	108.7
Montreal	.....	.....	5.9	32.4	33.4	26.5	3.1	4.3	.....	105.6
Bissett	.....	2.0	7.3	20.0	13.0	28.4	2.3	1.0	.....	74.0
Ottawa	.....	T.	2.0	24.5	18.6	26.5	0.3	1.0	T.	72.9
Kingston	.....	T.	1.9	15.5	17.8	14.5	3.3	1.1	.....	54.1
Toronto	.....	T.	7.2	6.6	20.5	13.0	0.5	3.0	0.1	50.9
White River	.....	2.2	15.0	23.6	13.6	9.8	18.0	13.8	2.2	98.2
Port Stanley	.....	1.3	5.0	17.1	23.9	11.4	1.2	3.3	T.	63.2
Saugeen	.....	0.1	2.6	15.4	32.7	22.5	2.8	0.3	0.2	76.6
Parry Sound	.....	.....	2.8	31.2	23.3	22.1	8.3	T.	.....	87.7
Port Arthur	.....	.....	4.8	4.6	2.3	2.9	8.1	15.8	0.3	38.8
Winnipeg	.....	T.	10.0	15.0	2.8	1.0	9.7	0.4	.....	38.9
Minnedosa	.....	1.6	8.1	7.2	11.3	2.9	4.6	7.9	.....	43.6
Qu'Appelle	.....	.....	10.5	8.4	11.0	1.2	3.6	2.3	1.2	38.2
Medicine Hat	.....	.....	8.0	11.5	2.5	3.0	2.5	1.0	5.5	34.0
Swift Current	.....	0.2	6.0	3.6	6.6	5.6	(*)	3.6	12.4	.....
Calgary	.....	T.	3.9	6.0	0.5	5.0	10.0	2.6	31.9	59.9
Banff	1.0	6.3	16.5	13.5	9.4	4.8	38.7	6.5	6.1	102.8
Edmonton	.....	.....	8.2	10.5	9.7	2.6	9.0	10.7	5.7	56.4
Prince Albert	.....	0.6	30.6	1.1	5.9	2.1	15.5	13.0	2.1	70.9
Battleford	.....	.....	12.6	4.6	8.9	0.4	8.2	6.9	3.1	44.7
Kamloops	.....	.....	(*)	15.2	3.5	0.0	4.6	0.0	.....	23.3
Victoria	.....	.....	0.3	4.8	0.0	1.4	9.4	0.0	.....	15.9
Bakerville	2.0	0.3	41.0	15.0	14.0	4.0	16.0	23.0	5.0	120.3

PART VI.

MISCELLANEOUS METEOROLOGICAL TABLES AND REPORTS.

Sunshine, 1902. Details of excessive precipitation, 1902. Meteorological observations at stations of the Weather Bureau in the West Indies during 1902.

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SUNSHINE, 1902.

The following tables give for 92 stations the percentages of hourly sunshine as derived from the automatic records made by two essentially different types of instruments, designated the thermometric recorder and the photographic recorder, respectively. The kind of instrument in use at each station is indicated by the letter T. (thermometric) or P. (photographic) at the right of the name of the station.

Both instruments have been described and illustrated in the preceding volumes of this series.

Neither of these instruments will record satisfactorily the duration of sunshine for about one hour after sunrise and about one hour before sunset, and on this account it has been considered necessary to apply to the record for these hours what has been designated a "twilight correction." The amount of this correction is found by noting the comparative clearness of the sky during the time that elapses between the hour of sunrise and the moment the instrument begins to record and between the time the instrument ceases to act and the hour of sunset.

The average cloudiness of the whole sky is determined by numerous personal observations at all stations during the daytime, and is given in the column "cloudiness" in the tables of Part III.

SUNSHINE, 1902.

ALBANY, N. Y. (T.).

[N. lat. 42° 39′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	9	25	38	45	57	63	60	55	33	30	56	.....	.....	126.5	43
February	.....	.....	16	20	49	81	89	89	91	87	79	69	51	30	.....	.....	201.9	68
March	.....	7	9	21	43	51	57	65	65	65	55	44	38	26	30	.....	167.8	45
April	.....	9	12	34	50	53	49	53	51	43	42	40	35	19	8	.....	147.6	37
May	16	12	31	48	56	65	75	71	74	73	65	62	54	48	29	26	240.8	53
June	10	11	33	54	65	64	66	68	68	68	63	57	47	28	11	7	214.3	47
July	4	3	10	30	40	44	52	52	56	60	62	57	48	36	15	11	177.5	38
August	.....	8	11	39	56	68	73	79	78	77	77	57	49	39	17	25	226.6	53
September	.....	19	17	29	48	50	63	63	67	62	56	46	37	28	32	.....	173.8	46
October	.....	.....	31	31	39	53	66	72	69	70	65	58	38	33	.....	.....	183.5	54
November	.....	.....	16	7	14	34	42	55	60	52	44	29	30	.....	.....	.....	107.3	37
December	.....	.....	.....	8	17	41	54	63	60	53	43	33	19	.....	.....	.....	116.7	42
Sums	30	69	185	330	502	642	731	787	802	770	706	585	476	343	142	69	2,084.3	503
Percentage of possible	.....	.....	.....	28	42	54	61	66	67	64	59	49	40	.....	.....	.....	173.7	47

ATLANTA, GA. (T.).

[N. lat. 33° 35′.]

January	.....	.....	.....	31	48	59	63	70	72	75	68	58	47	23	.....	.....	185.1	59
February	.....	.....	38	31	46	50	57	67	78	77	70	59	47	26	.....	.....	107.3	55
March	.....	60	49	53	56	61	69	73	69	68	65	61	61	48	49	.....	227.8	61
April	.....	68	67	74	69	77	75	72	76	80	74	73	64	50	42	.....	272.8	70
May	55	55	54	59	72	82	82	83	85	85	75	71	65	55	43	25	298.1	69
June	50	51	70	83	93	100	100	97	97	96	96	94	90	81	73	57	372.2	86
July	67	41	56	72	92	98	99	95	93	97	95	83	68	55	30	30	335.1	76
August	.....	48	66	66	88	92	89	91	88	86	87	70	70	58	27	.....	308.2	74
September	.....	38	37	47	59	71	82	87	87	78	71	72	62	45	45	.....	244.0	66
October	.....	67	55	64	77	79	81	82	81	83	81	72	61	55	.....	.....	258.6	74
November	.....	.....	31	33	50	63	63	67	73	67	60	44	27	17	.....	.....	168.3	54
December	.....	.....	28	28	47	56	56	61	62	58	51	44	27	.....	.....	.....	151.2	49
Sums	172	428	541	641	797	888	916	945	961	950	893	801	689	513	309	112	2,928.7	793
Percentage of possible	.....	.....	.....	54	66	74	76	79	80	79	75	67	58	.....	.....	.....	244.1	66

ATLANTIC CITY, N. J. (T.).

[N. lat. 39° 22′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January				41	49	57	58	56	57	55	54	45	30	17			152.7	50
February			31	43	51	56	60	60	62	59	59	55	52	43			164.2	55
March		58	39	39	54	65	69	77	80	72	66	54	41	30	35		212.3	57
April		51	49	58	76	75	78	79	80	74	66	55	51	39	41		251.0	63
May	61	55	56	54	62	75	80	80	80	86	79	71	58	57	49	47	297.5	67
June	56	57	61	77	86	90	90	90	92	96	94	89	79	61	54	51	348.7	78
July	53	46	57	70	88	94	94	92	91	96	98	92	78	62	52	55	354.6	78
August		66	72	82	96	99	100	98	96	90	81	87	84	68	50	55	356.6	84
September		52	41	51	68	74	82	75	77	68	61	59	47	48	62		232.8	62
October			49	53	67	72	75	79	73	68	67	64	55	48			226.0	65
November			44	31	46	57	60	65	64	62	46	30	26				148.2	49
December				39	45	49	69	70	68	66	59	50	50				167.9	57
Sums	170	385	499	638	788	863	915	921	920	892	830	751	651	473	343	208	2,912.5	765
Percentage of possible				53	66	72	76	77	77	74	69	63	54				242.7	64

AUGUSTA, GA. (T.).

[N. lat. 33° 28′.]

January																		
February																		
March																		
April																		
May	67	61	71	83	90	98	98	100	100	91	95	90	77	66	61	100	364.5	85
June	53	54	70	85	92	97	100	96	93	93	90	88	84	72	51	51	355.5	83
July	86	62	67	89	96	92	98	98	99	97	91	87	80	59	33	39	356.7	82
August*		40	65	83	95	99	100	100	90	80	77	88	79	62	51		163.0	80
September		48	43	54	73	84	90	88	88	85	84	69	61	42	24		263.0	71
October		67	58	59	71	76	80	82	78	80	75	65	58	57			247.8	70
November			35	33	58	65	67	72	69	64	59	45	35	50			176.3	56
December			20	35	51	63	71	71	71	64	59	54	48	33			181.3	58
Sums																		
Percentage of possible																		

BALTIMORE, MD. (T.).

[N. lat. 39° 18′.]

January				28	32	49	57	63	57	56	55	48	28	13			144.0	47
February			33	43	52	56	60	68	71	66	65	62	52	36			174.2	58
March		42	33	35	47	57	67	70	71	68	55	57	50	34	28		199.9	54
April		45	37	44	68	71	68	63	71	74	66	56	46	33	28		222.1	56
May	29	30	43	62	72	76	84	85	85	86	82	65	57	28	17	3	272.3	61
June	44	45	57	67	84	89	92	91	86	83	79	79	60	30	13	18	294.6	66
July	50	46	51	56	61	68	79	83	82	80	71	61	47	42	33	33	274.4	61
August		39	40	46	61	68	78	81	78	73	72	56	44	18	13	9	234.8	55
September		40	34	44	51	63	69	72	73	69	69	52	44	28	36		201.4	54
October		100	47	48	57	62	73	76	80	75	74	65	39	54			225.4	65
November			11	12	32	40	52	56	65	61	51	34	28				128.7	43
December				18	33	50	54	59	61	59	55	51	43				144.0	49
Sums	123	387	386	503	650	749	833	867	880	850	784	686	558	311	163	63	2,515.8	669
Percentage of possible				42	54	62	69	72	73	71	65	57	47				209.7	56

BINGHAMTON, N. Y. (T.).

[N. lat. 42° 08′.]

January				10	10	18	26	33	43	38	33	31	28	46			81.9	28
February			10	14	16	32	49	50	61	59	52	40	29	28			117.5	40
March		46	30	28	32	42	50	55	55	50	42	32	33	27	30		147.5	40
April		29	23	31	33	44	44	45	52	45	41	44	34	20	22		146.9	37
May	34	35	40	54	57	61	68	75	77	79	76	66	65	52	45	46	270.5	60
June	34	31	41	53	70	77	76	77	81	77	70	60	53	51	36	36	268.5	59
July	9	12	27	40	52	58	58	69	78	71	60	68	59	45	25	27	228.8	50
August		5	13	43	65	74	87	84	90	85	72	66	48	42	44	54	253.2	59
September		26	21	34	49	68	66	63	66	68	66	61	46	51	85		204.1	54
October			27	29	35	39	42	39	44	41	31	31	30	34			121.7	36
November			19	12	19	31	35	35	42	39	35	30	37				91.8	31
December				15	15	16	25	35	40	33	25	31	33				76.8	27
Sums	77	184	251	363	453	560	626	660	729	685	603	560	495	396	287	163	2,009.2	521
Percentage of possible				30	38	47	52	55	61	57	50	47	33				167.4	44

*Record for first fifteen days only.

BISMARCK, N. DAK. (P.).

[N. lat. 46° 47′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	44	49	61	63	62	70	73	65	50	46	.....	.....	.....	167.5	60
February	.....	.....	.....	27	41	41	45	43	47	46	54	50	39	27	.....	.....	123.5	43
March	.....	.....	23	30	40	48	47	49	54	57	50	49	42	31	12	.....	159.8	43
April	27	46	56	55	67	62	72	76	70	70	61	58	64	61	56	43	256.0	63
May	46	41	55	54	54	56	64	68	68	63	68	69	54	48	35	37	260.9	56
June	37	39	45	51	55	53	63	54	61	64	62	58	60	59	65	62	264.2	56
July	42	46	57	69	76	79	80	81	77	72	78	76	74	76	66	65	337.4	70
August	59	43	54	56	63	65	62	62	66	72	79	79	79	70	59	63	285.7	65
September	.....	81	67	76	81	83	80	78	73	79	76	81	69	71	68	.....	287.6	76
October	.....	.....	60	60	67	68	76	70	70	68	64	63	55	61	.....	.....	220.6	66
November	.....	.....	35	40	48	48	46	43	45	43	37	36	32	.....	.....	.....	119.1	42
December	.....	.....	.....	26	33	48	50	50	55	55	56	35	30	.....	.....	.....	122.9	46
Sums	211	296	452	588	674	712	748	736	756	762	750	704	644	504	361	270	2,605.2	686
Percentage of possible.	.....	.....	.....	49	56	59	62	61	63	64	63	59	54	.....	.....	.....	217.1	57

BOISE, IDAHO (P.).

[N. lat. 43° 37′.]

January	.....	.....	.....	32	33	37	45	49	47	48	45	36	44	33	.....	.....	121.6	42
February	.....	.....	17	19	29	31	29	29	22	26	25	21	10	9	.....	.....	68.3	23
March	.....	40	29	37	37	53	49	52	44	45	48	43	36	28	33	.....	155.2	42
April	.....	33	40	42	56	60	64	59	47	46	50	55	45	43	47	.....	199.5	49
May	34	54	58	65	66	65	62	62	63	66	69	65	56	52	40	19	272.1	59
June	74	83	84	82	86	89	81	76	73	76	77	78	74	73	65	64	358.4	77
July	66	75	82	84	89	89	85	84	82	82	85	84	85	81	76	68	383.0	82
August	80	79	85	92	90	93	90	89	90	89	87	84	85	76	70	74	372.0	86
September	.....	69	65	79	81	84	87	84	89	88	89	84	80	66	59	.....	302.6	81
October	.....	.....	59	55	69	69	74	75	81	82	88	78	74	76	.....	.....	250.3	74
November	.....	.....	19	30	38	42	41	43	45	49	45	40	35	.....	.....	.....	118.6	41
December	.....	.....	.....	30	33	42	50	50	50	52	43	38	35	.....	.....	.....	120.4	43
Sums	254	433	538	647	707	754	757	752	733	749	751	706	658	537	390	225	2,722.0	699
Percentage of possible.	.....	.....	.....	54	59	63	63	63	61	62	63	59	55	.....	.....	.....	226.8	58

BOSTON, MASS. (T.).

[N. lat. 42° 21′.]

January	.....	.....	.....	40	46	52	57	58	52	49	54	52	51	46	.....	.....	152.4	52
February	.....	.....	21	47	52	60	60	66	70	68	62	58	44	36	.....	.....	169.6	58
March	.....	69	42	42	45	53	58	63	63	57	58	52	38	33	26	.....	186.8	50
April	.....	33	40	46	51	53	54	54	52	45	53	45	28	24	24	.....	175.3	44
May	52	51	52	59	74	76	77	79	82	79	74	70	59	47	42	49	294.8	65
June	46	48	55	61	71	78	80	82	78	74	72	71	65	55	42	37	295.2	65
July	39	38	40	45	47	48	58	69	70	75	72	67	56	49	46	44	252.7	55
August	17	54	62	72	71	81	83	79	82	87	78	71	67	56	45	38	303.6	71
September	.....	42	35	38	44	51	61	65	66	67	58	51	42	31	47	.....	189.7	51
October	.....	.....	44	53	57	58	58	63	63	64	61	53	52	46	.....	.....	196.5	57
November	.....	.....	42	31	33	42	37	44	48	49	43	37	44	.....	.....	.....	120.4	41
December	.....	.....	.....	28	39	47	59	62	58	51	47	52	47	.....	.....	.....	141.7	50
Sums	154	340	433	562	630	699	742	784	789	765	732	679	593	423	272	168	2,478.7	659
Percentage of possible.	.....	.....	.....	47	53	58	62	65	66	64	61	57	49	.....	.....	.....	206.6	55

BUFFALO, N. Y. (T.).

[N. lat. 42° 53′.]

January	.....	.....	.....	19	24	42	57	56	52	55	46	31	15	.....	.....	.....	129.2	41
February	.....	.....	23	19	32	58	78	81	82	81	75	59	31	21	.....	.....	170.3	58
March	.....	29	29	33	50	57	66	65	62	58	55	46	34	25	21	.....	179.5	48
April	.....	18	32	46	52	68	70	69	69	60	52	48	45	23	17	.....	197.8	49
May	31	27	36	54	64	71	84	89	90	93	89	78	72	61	49	46	304.7	67
June	30	35	52	59	66	65	66	73	75	74	75	70	66	52	34	29	270.5	59
July	23	21	34	46	65	75	79	84	81	82	82	80	65	55	34	26	280.9	60
August	22	11	26	51	72	82	84	81	77	76	70	65	67	44	24	28	257.1	60
September	.....	33	27	39	49	56	68	69	73	68	61	54	33	17	3	.....	184.7	49
October	.....	.....	12	22	32	40	45	48	45	46	47	42	20	19	.....	.....	124.7	36
November	.....	.....	.....	.....	13	24	36	40	38	31	29	15	9	.....	.....	.....	69.9	24
December	.....	.....	.....	3	5	13	24	23	30	34	29	12	10	.....	.....	.....	54.7	19
Sums	106	174	271	391	524	651	757	778	774	758	700	600	467	317	182	129	2,215.0	570
Percentage of possible.	.....	.....	.....	.....	44	54	63	65	65	63	58	50	39	.....	.....	.....	184.6	48

CHARLESTON, S. C. (T.).

[N. lat. 32° 47′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	51	62	63	67	67	70	69	59	51	41	35	.....	.....	188.7	59
February	.....	.....	39	35	38	47	58	62	55	52	44	37	36	32	.....	.....	140.2	45
March	.....	22	37	51	57	65	61	65	63	62	57	55	47	40	36	.....	204.7	55
April	.....	52	64	68	74	72	78	72	68	65	62	59	50	47	45	.....	248.6	64
May	20	35	54	66	75	77	76	84	82	87	78	61	56	43	26	.....	278.4	65
June	19	18	55	72	87	94	96	90	95	92	88	75	68	41	24	21	300.3	70
July	29	21	52	74	82	82	84	86	89	85	78	72	59	42	11	11	284.1	65
August	.....	28	33	55	57	68	76	75	78	80	66	57	51	18	8	.....	228.7	55
September	.....	17	25	55	65	64	73	85	81	64	56	47	14	11	.....	.....	209.6	56
October	.....	67	23	51	67	76	85	85	84	83	75	64	45	19	.....	.....	230.6	66
November	.....	.....	26	26	36	46	61	71	69	62	57	47	27	38	.....	.....	154.0	49
December	.....	.....	16	20	42	59	63	75	73	75	68	61	45	.....	.....	.....	179.8	58
Sums	68	260	424	624	742	814	869	905	911	893	796	695	572	369	161	32	2,647.7	707
Percentage of possible	.....	.....	.....	52	62	68	72	75	76	74	66	58	48	.....	.....	.....	220.6	59

CHATTANOOGA, TENN. (T.).

[N. lat. 35° 04′.]

January	.....	.....	.....	40	53	64	66	71	70	70	63	58	50	19	.....	.....	187.7	60
February	.....	.....	10	15	26	41	56	70	69	64	68	55	46	36	.....	.....	150.3	49
March	.....	40	26	28	43	55	60	59	55	62	58	47	47	40	38	.....	179.8	48
April	.....	46	46	51	60	68	73	76	74	71	70	69	71	54	48	.....	250.4	64
May	33	35	37	47	55	68	68	71	77	78	77	70	63	41	38	25	256.0	59
June	61	60	55	67	80	81	86	81	91	86	79	80	64	61	50	46	313.5	72
July	71	58	47	56	75	85	83	88	82	80	80	75	57	39	36	48	296.5	67
August	.....	47	47	54	67	81	79	80	77	71	61	58	50	41	37	.....	255.7	61
September	.....	39	33	31	39	46	61	59	62	53	46	40	52	42	38	.....	174.3	47
October	.....	.....	37	35	55	73	75	76	71	66	68	63	56	49	.....	.....	214.0	61
November	.....	.....	18	17	28	52	58	56	54	47	35	34	35	25	.....	.....	125.9	41
December	.....	.....	36	27	30	40	45	46	49	45	41	40	33	.....	.....	.....	120.8	40
Sums	165	325	392	468	611	754	810	833	831	793	746	689	624	447	285	119	2,524.9	669
Percentage of possible	.....	.....	.....	39	51	63	67	70	69	66	62	58	52	.....	.....	.....	210.4	56

CHEYENNE, WYO. (P.).

[N. lat. 41° 08′.]

January	.....	.....	.....	73	74	69	73	74	85	85	78	69	63	41	.....	.....	221.7	74
February	.....	.....	56	50	51	58	61	55	64	61	63	63	56	50	.....	.....	172.4	58
March	.....	92	60	68	66	58	55	52	68	63	64	65	58	48	37	.....	223.3	60
April	.....	59	64	78	82	79	75	72	72	76	65	61	52	41	31	.....	262.8	66
May	61	68	68	66	60	65	71	58	58	53	50	46	49	44	31	26	245.9	55
June	61	62	63	68	76	77	77	77	60	56	48	48	44	49	36	31	266.3	59
July	67	62	74	75	79	80	82	77	67	62	53	45	49	58	54	39	295.2	64
August	100	58	61	69	71	74	74	73	73	60	62	50	45	43	41	50	261.0	61
September	.....	68	64	71	74	83	89	81	84	84	78	73	60	44	47	.....	273.9	73
October	.....	.....	42	63	75	73	69	64	70	73	57	60	54	44	.....	.....	218.2	63
November	.....	.....	27	47	55	60	69	72	73	68	67	62	51	.....	.....	.....	184.3	62
December	.....	.....	.....	63	64	61	55	54	55	51	46	48	45	.....	.....	.....	156.5	54
Sums	279	459	579	791	827	837	850	809	829	791	731	690	617	462	277	146	2,781.5	749
Percentage of possible	.....	.....	.....	66	69	70	71	68	69	66	61	58	51	.....	.....	.....	231.8	62

CHICAGO, ILL. (T.).

[N. lat. 41° 53′.]

January	.....	.....	.....	44	51	60	60	66	70	72	64	57	55	46	.....	.....	179.1	61
February	.....	.....	34	46	53	54	64	72	72	65	60	52	50	51	.....	.....	172.7	58
March	.....	54	54	56	61	66	67	71	66	64	60	47	35	26	28	.....	206.8	56
April	.....	60	59	68	70	75	79	77	79	80	72	64	52	44	48	.....	267.8	67
May	49	41	47	55	64	78	83	83	86	83	79	69	65	49	45	40	295.7	65
June	57	56	56	63	65	73	80	74	69	65	61	52	43	37	35	31	264.6	58
July	46	47	51	55	66	71	65	68	63	61	65	60	56	56	52	51	273.2	59
August	67	46	53	55	62	76	88	81	81	80	77	68	68	51	54	50	288.9	67
September	.....	60	46	45	52	56	59	50	52	52	53	44	33	29	49	.....	180.4	48
October	.....	.....	33	52	70	75	76	77	83	81	79	64	47	47	.....	.....	230.0	67
November	.....	.....	23	23	32	43	49	48	45	50	53	33	34	.....	.....	.....	120.8	41
December	.....	.....	.....	19	23	35	40	43	43	35	34	26	28	.....	.....	.....	93.9	33
Sums	219	364	456	581	669	762	810	810	809	786	757	636	566	436	311	172	2,573.9	680
Percentage of possible	.....	.....	.....	48	56	64	68	68	68	66	63	53	47	.....	.....	.....	214.5	57

CINCINNATI, OHIO (T.).

[N. lat. 39° 06′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January				34	36	41	42	41	46	43	40	39	36	13			120.9	40
February			24	32	33	42	43	52	60	64	60	55	49	47			146.5	49
March		8	29	36	55	65	74	82	81	74	64	19	56	42	37		223.1	60
April		49	55	65	76	88	92	93	91	92	93	87	84	71	49		314.3	79
May	39	53	66	67	82	85	85	83	89	86	81	75	77	70	57	25	330.1	74
June	47	46	45	48	65	77	83	86	90	86	84	79	73	58	56	35	303.1	68
July	67	68	72	77	80	92	95	93	92	89	87	85	86	73	54	42	363.7	80
August		58	63	71	83	89	93	95	92	90	85	92	82	53	26	27	327.3	77
September		45	40	48	56	66	74	80	82	82	79	70	66	51	73		246.2	66
October			55	59	69	77	81	86	77	80	75	71	47	38			241.8	70
November			21	14	27	38	47	60	65	58	58	41	22				128.9	43
December				13	14	24	39	42	41	28	24	20	20				78.9	27
Sums	153	327	470	564	676	784	848	893	906	872	830	733	698	516	352	129	2,824.8	733
Percentage of possible				47	56	65	71	74	75	73	69	61	58				235.4	61

CLEVELAND, OHIO (T.).

[N. lat. 41° 30′.]

January				16	19	20	28	38	39	33	34	35	33	31			88.7	30
February			21	22	26	31	41	49	53	50	36	28	23	28			105.1	35
March		23	40	36	38	41	44	50	55	51	49	44	36	39	46		161.9	44
April		33	27	27	31	45	44	46	50	43	42	38	37	42	42		157.0	39
May	50	49	48	50	63	66	77	73	75	74	74	70	52	52	60	54	282.8	63
June	17	15	19	31	37	53	66	69	65	74	72	70	52	37	27	26	213.9	47
July	46	46	40	41	61	68	74	75	77	77	82	77	59	43	39	44	278.7	60
August	50	39	36	31	30	38	58	66	77	73	69	66	57	55	57	73	231.7	54
September		47	37	35	33	34	41	50	53	57	50	47	49	50	63		167.9	45
October			29	28	27	27	35	39	45	45	39	38	41	37			122.9	36
November			36	19	18	18	23	27	37	39	41	34	36				85.6	29
December				14	12	11	18	20	26	30	26	26	26				59.3	21
Sums	163	252	333	350	395	452	549	602	652	646	614	573	501	414	334	197	1,955.5	503
Percentage of possible				29	33	38	46	50	54	54	51	48	42				163.0	42

COLUMBIA, MO. (T.).

[N. lat. 38° 58′.]

January				58	63	68	79	84	81	80	74	70	69	40			220.5	73
February			40	50	59	68	76	83	82	75	65	66	55	44			199.1	66
March		50	47	49	61	78	73	76	73	76	73	65	58	58	26		241.0	65
April		61	64	73	83	84	90	87	90	90	88	80	69	61	58		309.9	78
May	36	38	58	70	65	73	77	82	83	86	82	76	69	63	54	47	306.4	69
June	47	53	68	69	75	79	77	78	76	75	72	66	67	59	56	45	302.8	68
July	69	79	79	80	82	87	91	93	89	86	85	81	85	79	75	66	375.9	83
August		58	55	54	55	65	72	76	71	79	79	74	70	70	70	91	286.2	68
September		68	63	66	69	71	72	75	77	79	70	65	64	58	73		257.5	69
October			70	74	74	81	83	84	82	81	82	83	73	60			270.7	78
November			33	32	41	49	62	61	60	51	44	33	20				137.4	46
December				29	37	45	44	45	45	46	42	40	33				121.0	41
Sums	152	402	577	704	764	843	896	924	909	904	856	798	732	592	412	249	3,028.4	804
Percentage of possible				59	64	70	75	77	76	75	71	67	61				252.4	67

COLUMBUS, OHIO (T.).

[N. lat. 39° 58′.]

January				31	35	38	47	49	54	51	45	42	36	17			128.9	43
February			5	21	22	35	51	56	60	54	48	41	37	32			124.2	41
March		17	38	36	37	49	51	52	47	49	52	45	39	34	33		163.5	44
April		36	41	47	57	59	61	56	56	60	56	54	56	42	35		207.3	52
May	41	35	41	55	69	77	82	75	76	71	72	61	46	20	9	8	248.9	56
June	37	37	37	39	53	59	62	64	68	67	70	55	54	32	27	25	226.3	50
July	48	39	39	56	73	85	92	94	95	91	85	79	76	64	34	34	318.8	70
August		34	37	54	71	78	89	90	91	84	79	74	64	53	44	43	288.7	68
September		41	33	45	52	58	67	65	70	63	64	69	53	40	55		210.1	56
October			34	37	47	62	64	75	72	66	58	49	45	38			190.8	55
November			11	7	21	33	36	42	47	49	49	32	25				101.5	34
December				3	6	22	28	34	38	33	24	17	14				65.6	22
Sums	126	239	316	431	543	655	730	752	774	738	702	618	545	372	237	110	2,274.6	591
Percentage of possible				36	45	55	61	63	65	61	58	51	45				189.6	49

DENVER, COLO. (P.).

[N. lat. 39° 45′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	76	71	71	74	78	76	84	81	73	53	33	.....	.....	221.1	73
February	.....	.....	26	42	59	66	77	84	80	68	65	61	52	52	.....	.....	192.6	64
March	.....	66	60	74	75	78	78	73	71	75	68	60	51	46	33	.....	249.3	67
April	.....	44	53	65	71	76	79	84	77	75	69	55	55	48	41	.....	258.6	65
May	40	51	64	75	75	75	75	72	62	59	50	42	46	44	26	8	256.7	57
June	60	65	79	79	82	81	82	71	58	60	61	62	63	41	37	26	289.3	64
July	48	55	83	83	80	87	86	77	62	66	59	55	54	44	26	20	290.6	64
August	.....	40	59	61	69	72	76	76	72	71	57	52	47	37	18	29	247.7	58
September	.....	56	59	74	74	80	81	81	73	79	86	67	70	55	61	.....	271.2	73
October	.....	.....	39	61	67	69	71	69	65	75	75	74	58	44	.....	.....	225.9	65
November	.....	.....	32	38	51	56	68	69	69	75	70	64	56	.....	.....	.....	182.8	61
December	.....	.....	.....	44	50	61	66	65	67	67	66	57	48	.....	.....	.....	176.4	60
Sums	148	377	554	772	824	872	913	899	832	854	807	722	653	444	242	83	2,861.2	771
Percentage of possible	.....	.....	.....	64	69	73	76	75	69	71	67	60	54	.....	.....	.....	238.4	64

DES MOINES, IOWA (T.).

[N. lat. 41° 35′.]

January	.....	.....	.....	36	45	55	65	74	73	71	62	50	50	23	.....	.....	173.8	59
February	.....	.....	26	40	48	61	59	63	69	70	72	61	41	28	.....	.....	167.9	57
March	.....	31	24	29	49	63	69	75	75	75	73	65	59	39	30	.....	215.2	58
April	.....	51	62	78	85	88	85	86	88	87	88	83	78	53	52	.....	309.7	77
May	34	30	33	48	60	75	74	74	74	70	66	62	46	25	23	26	241.3	53
June	30	32	39	47	42	48	52	61	61	72	67	62	52	38	30	30	222.1	49
July	26	29	37	52	62	74	67	72	73	72	72	67	67	49	40	45	267.9	58
August	17	23	27	35	50	61	68	75	70	64	61	57	49	33	33	50	218.1	51
September	.....	39	42	45	51	59	59	59	58	63	60	55	45	41	68	.....	198.3	53
October	.....	.....	58	61	60	71	76	74	79	75	73	62	60	56	.....	.....	283.1	68
November	.....	.....	25	25	33	38	45	47	53	50	44	41	40	.....	.....	.....	121.9	41
December	.....	.....	.....	25	29	35	42	49	46	41	36	25	21	.....	.....	.....	102.2	36
Sums	107	235	375	521	614	728	761	809	819	810	774	690	608	385	276	151	2,471.5	660
Percentage of possible	.....	.....	.....	43	51	61	63	67	68	68	65	58	51	.....	.....	.....	206.0	55

DETROIT, MICH. (T.).

[N. lat. 42° 20′.]

January	.....	.....	.....	28	33	47	61	68	67	71	59	43	21	15	.....	.....	150.2	51
February	.....	.....	28	28	37	55	65	73	74	60	41	34	16	17	.....	.....	138.3	47
March	.....	23	51	43	38	48	61	69	71	68	63	53	47	43	48	.....	202.1	55
April	.....	30	27	28	44	54	59	57	64	57	53	49	41	37	36	.....	184.4	46
May	50	45	51	56	69	82	83	85	86	80	82	75	71	54	23	17	298.7	66
June	34	33	34	40	51	65	66	71	75	72	73	64	47	32	27	27	235.6	52
July	37	32	44	70	77	74	76	80	85	75	73	71	63	46	39	45	291.9	63
August	17	28	39	68	74	82	84	85	82	79	73	72	61	49	49	62	285.8	67
September	.....	46	33	40	42	50	58	66	66	60	53	48	44	36	61	.....	186.4	50
October	.....	.....	26	33	43	56	60	63	65	63	56	57	47	47	.....	.....	177.5	52
November	.....	.....	26	28	33	35	41	44	50	53	44	34	35	.....	.....	.....	115.2	39
December	.....	.....	.....	14	20	22	20	30	33	33	26	20	25	.....	.....	.....	70.1	25
Sums	138	237	359	471	561	670	734	791	818	771	696	620	518	376	283	151	2,336.2	613
Percentage of possible	.....	.....	.....	39	47	56	61	66	68	64	58	52	43	.....	.....	.....	194.7	51

DODGE, KANS. (P.).

[N. lat. 37° 45′.]

January	.....	.....	.....	56	65	67	70	66	65	72	69	65	52	36	.....	.....	197.9	65
February	.....	.....	41	52	58	55	56	52	61	62	59	62	44	35	.....	.....	165.6	55
March	.....	75	63	67	69	65	73	71	66	67	70	70	65	37	41	.....	242.1	65
April	.....	44	56	65	73	79	75	79	76	75	73	76	75	66	65	.....	279.9	71
May	22	40	50	50	59	59	54	60	64	65	66	67	58	59	48	36	249.6	57
June	41	46	61	64	66	65	70	73	70	76	78	78	77	74	56	50	295.4	67
July	69	79	87	90	91	91	90	87	89	88	86	85	73	71	52	47	368.0	82
August	.....	59	64	72	77	82	79	85	85	85	80	73	76	62	57	86	314.3	74
September	.....	60	61	66	74	79	76	77	81	83	84	82	74	68	77	.....	280.3	75
October	.....	50	62	75	78	80	85	83	83	85	85	77	67	60	.....	.....	269.9	78
November	.....	.....	33	43	51	54	52	54	51	48	47	40	44	.....	.....	.....	146.4	48
December	.....	.....	100	48	54	62	70	76	82	81	74	51	47	.....	.....	.....	193.2	65
Sums	132	453	678	748	815	838	850	863	873	887	866	826	752	568	396	219	3,002.6	802
Percentage of possible	.....	.....	.....	62	68	70	71	72	73	74	72	69	63	.....	.....	.....	250.2	67

DUBUQUE, IOWA (T.).

[N. lat. 42° 30′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January				34	43	59	74	78	82	82	72	72	55	38			196.2	66
February			7	22	41	56	78	80	82	80	76	74	63	53			190.6	64
March		31	20	25	41	49	55	62	63	55	43	25	21	18	13		147.7	40
April		35	38	48	66	78	81	75	78	73	66	53	45	35	38		235.6	59
May	48	37	39	44	54	60	61	65	67	61	56	45	46	23	25	22	218.5	48
June	31	30	31	37	42	47	44	49	51	47	33	26	22	11	19	26	157.0	34
July	24	25	25	35	53	60	68	72	76	70	56	34	39	8	33	44	212.7	46
August	33	18	16	24	44	54	56	60	62	55	41	23	37	21	30	62	167.5	39
September		58	43	43	44	53	51	48	55	49	46	43	31	43	53		172.8	46
October			21	23	22	41	55	65	67	57	43	35	46	57			150.9	44
November				13	19	28	37	35	41	40	32	30	25				87.4	30
December				33	33	35	35	34	34	32	25	23	21				87.3	31
Sums	136	234	240	381	502	620	694	723	758	701	589	483	451	307	211	154	2,024.2	547
Percentage of possible				32	42	52	58	60	63	58	49	40	38				168.7	46

EASTPORT, ME. (P.).*

[N. lat. 44° 54′.]

January				48	51	54	54	55	48	50	46	40	41	100			140.5	49
February			19	37	43	47	45	46	48	45	42	40	36	35			123.8	42
March		19	28	28	32	26	32	37	41	44	44	37	36	23	16		124.7	34
April	20	33	40	42	51	50	51	47	53	54	53	52	46	41	46	50	191.9	47
May	23	29	34	39	51	56	59	59	58	63	62	58	51	45	23	15	218.0	47
June	43	43	40	38	50	53	54	58	59	50	56	42	39	35	19	27	207.7	45
July	44	44	50	54	58	59	57	67	67	67	61	69	61	56	54	51	274.3	58
August	21	50	52	53	61	60	65	62	60	61	55	54	55	44	40	35	238.1	55
September		36	34	45	51	57	61	69	74	74	66	57	57	53	62		216.9	58
October			45	51	63	65	68	73	76	76	75	61	48	43			215.1	63
November			24	26	32	42	43	47	47	45	35	30	31				108.9	38
December				29	29	45	51	56	55	57	55	43	41				130.4	48
Sums	151	254	361	490	572	614	640	676	685	686	650	583	542	475	200	178	2,190.3	584
Percentage of possible				41	48	51	53	56	57	57	54	49	45				182.5	49

ELKINS, W. VA. (T.).

[N. lat. 38° 53′.]

January						13	27	36	39	37	33	15	9				64.7	21
February					2	11	18	24	29	29	22	10					40.8	14
March			7	6	18	39	48	46	47	49	42	27	16	13	15		111.7	30
April		4	3	6	15	33	42	42	48	47	40	36	18	3	4		101.3	26
May			2	41	60	69	71	78	83	72	62	56	40	15	10	11	204.6	46
June			2	32	54	57	64	70	66	63	55	37	27	10	3	3	162.4	36
July				19	49	59	72	80	81	79	70	57	40	7			189.9	42
August				5	44	76	73	75	76	75	69	50	33	3			179.2	42
September					10	43	56	54	61	62	55	36	21	17	20		125.9	34
October			10	10	10	35	54	51	53	52	48	27	23	22			116.9	34
November					5	18	24	38	37	32	27	19	14				63.3	21
December						5	8	14	21	20	15	9	6				29.7	10
Sums		4	24	119	267	458	557	608	640	617	538	378	247	90	52	14	1,390.4	356
Percentage of possible						38	46	51	53	51	45	32					115.9	30

ERIE, PA. (T.).

[N. lat. 42° 07′.]

January				4	7	19	37	35	41	30	26	22	22	23			74.5	25
February				8	17	29	47	54	58	56	56	30	25	30			109.3	37
March		23	29	29	37	41	47	55	54	55	49	42	36	26	33		155.0	42
April		20	16	17	32	49	53	50	48	46	44	41	30	37	37		150.4	37
May	33	32	34	43	59	69	80	82	79	84	83	77	68	59	61	56	299.9	64
June	14	18	25	35	38	54	61	60	65	66	70	70	52	39	35	34	213.4	47
July	22	20	26	53	56	65	76	77	80	78	82	79	67	48	44	44	271.7	59
August	67	43	42	52	65	80	81	85	90	81	81	77	79	66	56	58	301.6	70
September		30	23	29	49	63	62	68	66	66	65	61	45	32	36		193.6	52
October			15	21	35	46	58	65	62	64	58	43	30	23			154.7	45
November			28	16	23	29	39	44	42	41	35	33	52				98.7	33
December				2	5	13	16	18	18	10	8	7	7				31.0	11
Sums	136	181	238	309	423	577	657	693	698	672	657	582	493	383	302	192	2,043.8	522
Percentage of possible				26	35	48	55	58	58	56	55	49	41				170.3	44

* Photographic record changed to thermometric, October 1, 1902.

ESCANABA, MICH. (T.).

[N. lat. 45° 48′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	16	17	25	34	41	34	32	31	23	23	.....	.....	.....	80.5	28
February	.....	.....	26	28	31	42	52	56	53	50	42	23	12	10	.....	.....	109.8	38
March	.....	38	28	28	40	47	55	57	57	45	46	38	31	25	24	.....	158.7	42
April	12	18	24	26	38	47	50	49	50	51	47	44	37	33	29	25	159.2	39
May	18	20	24	35	39	44	51	55	56	50	46	41	30	22	21	29	172.2	37
June	34	33	32	48	56	55	50	50	55	51	45	48	40	22	15	10	191.6	47
July	24	23	29	45	57	67	67	68	68	65	66	56	40	23	16	16	222.4	47
August	50	46	46	49	60	65	68	70	76	78	69	62	49	43	42	41	255.1	58
September	50	39	39	39	45	52	57	47	51	37	38	32	30	24	16	.....	154.1	41
October	.....	.....	41	37	40	53	59	55	49	51	45	37	29	43	.....	.....	153.0	46
November	.....	.....	26	16	15	16	19	23	25	25	21	18	14	.....	.....	.....	55.7	20
December	.....	.....	.....	17	18	23	29	30	35	25	19	28	27	.....	.....	.....	68.7	25
Sums	188	217	315	384	456	536	591	601	609	556	515	450	362	245	163	121	1,776.0	461
Percentage of possible	.....	.....	.....	32	38	45	49	50	51	46	43	38	30	.....	.....	.....	148.0	38

EUREKA, CAL. (P.).

[N. lat. 40° 48′.]

January	.....	.....	.....	17	26	38	32	33	40	44	42	35	27	24	.....	.....	101.6	34
February	.....	.....	21	24	31	31	33	32	27	28	24	24	15	13	.....	.....	78.2	26
March	.....	42	35	38	40	44	52	52	52	55	56	51	43	33	35	.....	170.6	46
April	.....	22	24	35	42	53	61	55	52	52	49	46	46	44	37	.....	179.7	45
May	14	14	19	38	50	54	57	64	69	66	63	55	52	51	43	43	219.3	49
June	13	14	34	59	64	69	75	74	80	86	87	83	81	72	72	68	298.2	66
July	28	26	30	38	50	58	62	65	76	78	74	69	71	64	61	63	266.7	58
August	.....	5	8	11	24	30	35	49	56	58	62	63	55	47	43	50	168.7	39
September	.....	22	30	33	38	46	52	56	56	62	62	61	54	38	24	.....	179.6	48
October	.....	.....	22	24	34	37	36	43	49	44	44	50	28	19	.....	.....	127.6	37
November	.....	.....	30	39	43	52	45	46	36	37	38	39	33	.....	.....	.....	121.8	41
December	.....	.....	.....	23	25	33	42	41	38	36	35	29	25	.....	.....	.....	96.0	33
Sums	55	145	253	379	467	545	583	610	631	646	636	605	580	405	315	224	2,008.0	522
Percentage of possible	.....	.....	.....	32	39	45	49	51	53	54	53	50	44	.....	.....	.....	167.3	44

FRESNO, CAL. (T.).

[N. lat. 36° 48′.]

January	.....	.....	.....	.....	17	27	32	34	45	46	37	37	22	28	.....	.....	93.1	30
February	.....	.....	4	10	28	52	60	69	68	62	58	48	33	17	.....	.....	139.9	46
March	.....	45	34	58	67	76	75	85	87	85	88	86	73	44	43	.....	266.3	72
April	.....	51	53	67	76	86	91	87	88	88	87	89	85	75	51	.....	309.9	78
May	63	51	78	86	85	92	94	93	94	93	95	94	87	73	60	75	367.6	84
June	94	93	95	98	99	97	97	100	100	100	100	100	100	100	100	100	433.1	98
July	79	78	86	98	100	100	100	100	100	100	100	99	97	96	84	82	425.7	95
August	.....	79	87	96	99	100	99	100	100	99	100	100	96	87	81	80	399.6	95
September	.....	61	70	82	92	96	98	98	97	96	93	92	87	68	38	.....	326.7	88
October	.....	100	72	72	82	90	97	99	99	95	91	86	74	61	.....	.....	300.2	86
November	.....	.....	56	57	63	69	74	80	75	74	69	54	34	.....	.....	.....	199.3	65
December	.....	.....	.....	23	29	56	65	68	66	61	55	50	37	.....	.....	.....	154.1	51
Sums	236	558	635	747	837	940	982	1,013	1,019	999	973	935	825	649	457	337	3,415.5	888
Percentage of possible	.....	.....	.....	.....	70	78	82	84	85	83	81	78	69	.....	.....	.....	284.6	74

GALVESTON, TEX. (P.).

[N. lat. 29° 18′.]

January	.....	.....	15	26	45	47	44	45	46	48	59	56	54	41	.....	.....	152.0	47
February	.....	.....	9	27	41	49	48	46	47	57	60	56	44	23	.....	.....	138.9	44
March	.....	14	24	45	54	60	65	48	48	60	54	55	50	31	23	.....	184.1	49
April	.....	22	31	45	57	57	66	62	63	67	66	72	76	54	27	.....	221.1	57
May	.....	33	38	54	77	81	81	70	77	78	77	68	59	50	47	.....	271.3	64
June	.....	55	66	66	85	88	92	92	92	89	89	83	86	77	77	50	343.5	82
July	.....	30	30	56	73	83	84	81	88	88	83	72	62	45	29	25	277.8	65
August	.....	49	59	79	84	84	89	98	99	100	99	96	93	81	60	.....	349.0	86
September	.....	23	44	50	64	76	80	78	75	74	71	64	48	35	18	.....	229.9	62
October	.....	38	42	61	78	84	90	93	94	97	92	75	58	52	.....	.....	275.7	77
November	.....	.....	38	45	54	58	66	65	62	57	51	41	33	53	.....	.....	168.4	52
December	.....	.....	35	34	39	56	67	69	74	69	60	52	58	53	.....	.....	183.4	57
Sums	.....	274	431	588	751	823	872	847	865	884	861	790	721	595	281	75	2,795.1	742
Percentage of possible	.....	.....	36	49	63	69	73	71	72	74	72	66	60	50	.....	.....	232.9	62

GRAND HAVEN, MICH. (T.).

[N. lat. 43° 05′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January				6	12	23	27	32	34	32	24	15	8				64.5	22
February			19	22	25	32	44	42	40	37	33	33	26	29			98.0	33
March		36	25	25	34	44	53	55	52	46	43	41	35	32	30		149.6	40
April		33	33	42	55	60	54	58	60	68	70	55	51	34	30		205.2	51
May	29	29	31	51	67	74	78	76	78	81	72	66	53	41	29	33	262.5	58
June[1]	24	24	21	35	52	66	72	77	89	84	72	55	51	42	24	24	135.2	52
July[2]																		
August[3]		36	37	57	68	74	81	81	81	86	86	82	73	49	36		173.5	67
September		24	17	36	43	49	50	52	51	52	47	46	30	20	41		152.4	41
October			32	34	47	48	56	63	64	60	56	38	22	25			160.6	47
November			9	7	18	31	35	44	49	41	29	31	20				86.6	30
December					1	9	25	20	18	16	13	6	8				35.2	13
Sums																		
Percentage of possible																		

GRAND JUNCTION, COLO. (P.).

[N. lat. 39° 09′.]

January				57	47	61	78	77	75	73	73	65	55	53			199.3	66
February			43	45	51	64	70	68	65	62	69	70	55	60			185.5	62
March		75	37	39	48	62	71	68	69	67	69	64	53	45	48		215.0	58
April		71	54	70	86	85	83	78	78	87	88	82	75	66	73		305.8	77
May	80	78	76	82	88	86	84	80	77	69	68	67	72	63	60	69	333.8	75
June	87	85	87	91	91	93	95	91	89	92	88	90	93	88	79	85	397.7	89
July	80	84	79	85	87	88	87	85	77	75	75	81	77	64	65	80	359.3	79
August		73	58	72	84	84	76	78	67	75	80	78	74	55	54	64	305.4	72
September		92	87	89	90	91	95	94	85	88	86	85	81	83	96		328.7	88
October		100	65	58	75	81	89	90	84	87	82	82	74	72			272.9	79
November			57	48	50	59	63	68	69	73	65	62	54				184.3	61
December				35	55	66	69	69	67	73	73	67	37				183.9	63
Sums	247	658	643	771	852	920	955	946	902	921	916	893	800	649	475	298	3,271.6	869
Percentage of possible				64	71	77	80	79	75	77	76	74	67				272.6	72

GREEN BAY, WIS. (T.).

[N. lat. 44° 31′.]

January[4]																	
February			43	40	50	74	82	90	91	87	78	71	62	60			210.4	72
March		38	30	39	53	63	67	71	77	74	67	59	37	23	20		203.8	55
April	40	32	38	48	58	67	71	73	72	79	79	72	57	36	22	1	237.4	59
May	35	38	49	56	65	73	81	83	87	84	75	72	64	50	34	38	291.5	63
June	34	44	56	62	74	87	91	88	85	79	79	77	69	58	45	30	312.8	67
July	33	45	65	80	81	85	89	85	87	84	79	75	69	51	33	24	323.8	69
August	53	42	59	73	82	84	88	94	94	95	92	87	76	70	42	35	334.7	77
September		42	38	59	71	80	84	85	86	79	79	66	52	39	46		252.5	67
October			30	48	58	78	78	78	73	75	73	52	34	35			208.3	61
November			17	28	34	45	58	52	48	48	40	34	25				119.9	42
December				18	23	37	45	52	53	45	37	10	9				97.3	35
Sums																		
Percentage of possible																		

HARRISBURG, PA. (T.).

[N. lat. 40° 16′.]

January				22	26	36	45	45	48	40	38	32	24	25			108.4	36
February			24	35	35	47	55	57	59	54	51	44	36	31			138.1	46
March		58	55	50	54	59	65	64	69	65	65	60	51	49	61		218.1	59
April		45	40	37	45	51	60	58	57	57	54	51	37	36	41		191.1	48
May	39	40	43	47	57	64	64	66	72	68	71	66	39	24	22	6	234.0	52
June	53	53	52	63	78	82	80	86	79	75	74	60	48	41	34	36	284.1	63
July	49	36	38	47	55	57	57	63	72	74	61	55	54	38	34	34	238.4	52
August		48	48	54	67	79	84	84	82	84	71	62	54	48	50	50	278.8	66
September		51	40	41	48	56	61	60	66	66	57	56	50	54	61		203.5	54
October			51	47	50	59	66	62	62	57	62	57	51	50			195.5	57
November			32	27	34	35	48	51	56	53	49	33	31				124.6	42
December				26	26	39	40	47	49	46	38	24	31				108.1	37
Sums	141	333	423	496	575	664	725	743	771	739	691	600	506	396	303	126	2,322.7	612
Percentage of possible				41	48	55	60	62	64	62	58	50	42				193.6	51

[1] Recorder broken. Sums and means for 17 days only.
[2] Recorder broken.
[3] Recorder broken. Sums and means for 19 days only.
[4] No record for January.

HELENA, MONT. (P.).

[N. lat. 46° 34′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	31	41	55	66	65	65	65	65	53	45	.....	.....	.....	160.1	57
February	.....	.....	19	28	34	41	44	45	50	53	46	44	48	54	.....	.....	126.6	44
March	.....	56	51	54	59	65	68	65	65	60	68	60	50	32	38	.....	215.3	58
April	18	25	42	56	68	73	70	65	60	59	59	55	45	30	33	29	218.5	54
May	43	46	51	52	58	62	56	56	56	56	50	55	57	52	49	48	250.1	54
June	41	46	56	62	68	72	73	70	65	68	63	59	50	38	46	40	271.6	57
July	58	58	65	73	72	68	76	74	68	73	75	73	68	66	56	53	322.6	67
August	79	62	71	79	87	82	84	81	80	81	75	64	75	69	62	76	331.0	75
September	.....	66	61	63	69	67	72	65	63	63	58	63	63	61	72	.....	242.4	64
October	.....	.....	51	47	56	63	69	58	59	65	65	62	65	58	.....	.....	203.2	60
November	.....	.....	18	24	30	47	58	57	50	49	42	46	35	.....	.....	.....	124.5	44
December	.....	.....	.....	17	20	31	44	45	54	57	45	34	27	.....	.....	.....	106.0	40
Sums	239	359	484	586	662	726	780	746	730	744	711	668	628	460	356	246	2,571.9	674
Percentage of possible	.....	.....	.....	49	55	61	65	62	61	62	59	56	52	.....	.....	.....	214.3	56

HURON, S. DAK. (T.).

[N. lat. 44° 21′.]

January	.....	.....	.....	40	45	62	73	75	79	83	75	55	48	33	.....	.....	188.5	65
February	.....	.....	29	32	35	55	80	88	89	92	79	59	38	32	.....	.....	186.2	63
March	.....	27	32	40	45	53	65	69	69	60	52	45	27	20	10	.....	177.0	48
April	33	42	38	48	60	67	79	79	79	79	76	73	65	51	45	.....	257.6	64
May	53	45	43	42	59	68	83	82	84	86	81	78	67	52	44	46	295.2	64
June	37	37	37	44	56	69	76	77	81	79	75	69	56	55	47	41	278.8	59
July	55	55	53	64	72	80	86	89	93	93	88	76	66	55	56	56	337.5	72
August	13	16	21	39	45	48	63	70	68	61	58	59	61	41	34	41	211.9	49
September	.....	42	43	44	61	66	73	72	70	72	72	67	58	49	45	.....	231.0	62
October	.....	.....	36	44	68	73	75	77	81	80	75	64	49	51	.....	.....	224.4	66
November	.....	.....	6	32	41	51	54	55	60	54	46	36	24	.....	.....	.....	132.7	46
December	.....	.....	.....	11	16	38	43	58	56	63	45	33	30	.....	.....	.....	111.8	40
Sums	191	264	338	480	603	730	850	891	909	892	822	714	589	439	281	184	2,626.6	698
Percentage of possible	.....	.....	.....	40	50	61	71	74	76	74	69	60	49	.....	.....	.....	218.9	58

INDEPENDENCE, CAL. (T.).

[N. lat. 36° 48′.]

January	.....	.....	.....	49	65	84	89	87	88	85	84	72	68	72	.....	.....	239.7	78
February	.....	.....	26	35	44	67	75	78	86	74	68	56	30	28	.....	.....	178.1	59
March[1]	.....	60	60	70	89	93	90	93	90	80	71	66	54	46	68	.....	179.7	75
April	.....	76	80	89	99	98	97	97	98	93	82	77	77	71	71	.....	342.4	87
May	80	77	81	88	92	98	96	99	98	93	89	80	77	60	55	60	372.2	85
June	90	90	93	96	97	99	100	99	99	99	99	95	95	94	88	89	421.1	96
July	86	90	94	96	97	100	100	100	100	97	94	88	85	75	67	68	407.6	91
August	.....	82	91	92	95	97	99	95	94	86	79	73	61	62	38	60	350.5	83
September	.....	75	80	77	82	93	93	98	98	96	82	72	63	59	46	.....	306.7	82
October	.....	100	95*	94	91	94	93	95	98	93	87	79	78	81	.....	.....	313.9	90
November	.....	.....	65	63	63	73	85	82	83	76	62	53	53	100	.....	.....	212.6	70
December	.....	.....	100	62	61	62	67	76	74	70	58	55	55	.....	.....	.....	192.7	64
Sums	256	650	865	911	975	1,058	1,084	1,099	1,106	1,042	955	872	796	748	433	277	3,517.2	960
Percentage of possible	.....	.....	.....	76	81	88	90	92	92	87	80	73	66	.....	.....	.....	293.1	80

INDIANAPOLIS, IND. (T.).

[N. lat. 39° 46′.]

January	.....	.....	.....	38	39	40	51	53	55	59	59	57	60	38	.....	.....	154.6	51
February	.....	.....	47	52	52	61	54	60	64	51	46	47	48	45	.....	.....	168.4	53
March	.....	8	34	32	29	39	47	57	54	48	47	35	31	38	41	.....	152.1	41
April	.....	49	52	51	55	56	64	65	66	64	60	49	46	58	62	.....	227.0	57
May	62	65	65	57	63	74	75	83	86	82	76	67	52	48	54	54	300.8	67
June	54	53	53	51	65	69	76	80	80	74	79	66	54	42	50	48	282.6	63
July	80	74	74	62	72	81	85	84	77	79	82	82	68	53	52	54	330.9	73
August	.....	53	55	55	64	70	72	75	78	74	66	56	59	45	47	86	262.2	62
September	.....	50	40	36	45	56	60	59	63	59	52	55	46	37	62	.....	190.3	51
October	.....	.....	48	43	50	54	70	72	71	69	69	69	67	57	.....	.....	214.1	62
November	.....	.....	44	37	35	38	46	49	54	49	44	44	48	.....	.....	.....	132.5	44
December	.....	.....	.....	19	22	26	28	25	25	25	22	13	14	.....	.....	.....	64.4	22
Sums	196	352	512	533	591	664	728	762	773	733	702	640	584	461	368	242	2,469.9	646
Percentage of possible	.....	.....	.....	44	49	55	61	64	64	61	59	53	49	.....	.....	.....	205.8	54

[1]Record for 20 days only.

ITHACA, N. Y. (T.).

[N. lat. 42° 27′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	7	8	13	28	41	43	51	41	30	25	38	.....	.....	87.2	30
February	.....	.....	7	7	12	30	47	56	64	59	54	47	24	8	.....	.....	114.4	39
March	.....	23	14	20	35	42	40	46	51	50	50	40	23	16	22	.....	133.1	36
April	.....	.....	5	28	32	42	44	49	44	48	51	47	42	19	10	.....	137.4	34
May	28	30	36	50	57	57	67	68	61	65	71	65	58	35	25	25	235.5	52
June	23	23	42	53	61	59	67	67	66	65	64	58	53	32	11	3	219.9	48
July	24	26	31	40	53	62	72	75	80	81	80	73	64	52	37	40	265.2	57
August	33	33	36	54	68	75	78	85	82	82	79	67	57	47	37	31	271.2	63
September	.....	51	44	53	64	72	71	76	74	79	69	66	56	35	41	.....	235.5	63
October	.....	.....	22	26	35	45	44	47	55	48	38	33	22	17	.....	.....	128.1	37
November	.....	.....	47	28	34	39	43	46	46	46	41	29	21	.....	.....	.....	112.4	38
December	.....	.....	.....	8	10	20	33	39	41	36	24	15	10	.....	.....	.....	71.4	25
Sums	108	186	284	374	469	556	634	695	707	710	662	567	455	299	183	99	2,011.3	522
Percentage of possible.	.....	.....	.....	.....	39	46	53	58	59	59	55	47	38	.....	.....	.....	167.6	44

JACKSONVILLE, FLA. (T.).

[N. lat. 30° 20′.]

January	.....	.....	38	49	56	70	78	78	82	84	82	71	63	55	.....	.....	229.1	71
February	.....	.....	44	50	53	60	62	68	72	70	62	58	37	31	.....	.....	175.2	56
March	.....	62	50	59	63	73	78	80	84	81	77	70	59	46	32	.....	253.2	68
April	.....	75	75	87	91	94	97	97	95	96	92	89	76	66	61	.....	334.5	86
May	.....	66	79	93	95	97	99	100	98	94	95	93	75	63	43	.....	363.3	86
June	67	53	72	88	92	96	93	93	89	87	84	74	68	52	44	50	325.9	77
July	.....	39	54	70	87	92	92	90	84	69	50	58	50	40	26	36	277.7	65
August	.....	41	52	72	79	81	87	90	87	83	79	72	57	50	45	.....	292.1	71
September	.....	28	26	46	56	59	69	69	63	60	39	28	22	16	27	.....	169.2	46
October	.....	50	28	29	48	60	68	66	66	55	50	37	25	26	.....	.....	168.8	48
November	.....	.....	20	17	31	44	51	56	50	47	42	22	29	24	.....	.....	121.2	38
December	.....	.....	34	44	45	63	68	76	77	71	60	45	30	29	.....	.....	182.5	57
Sums	67	414	572	704	796	889	942	963	947	897	812	712	591	498	278	86	2,892.7	769
Percentage of possible.	.....	.....	48	59	66	74	79	80	79	75	68	59	49	42	.....	.....	241.1	64

JUPITER, FLA. (T.).

[N. lat. 26° 57′.]

January	.....	.....	43	55	59	76	82	87	89	88	76	64	52	47	.....	.....	235.5	71
February	.....	.....	56	58	68	78	82	82	84	77	68	69	53	46	.....	.....	218.3	69
March	.....	50	47	72	76	90	92	92	90	88	82	78	61	28	24	.....	277.4	74
April	.....	71	74	81	96	99	96	98	93	97	91	90	71	41	38	.....	322.0	84
May	.....	42	68	84	87	92	91	89	86	82	85	76	61	28	22	.....	303.4	78
June	.....	43	60	78	86	86	89	88	87	80	67	63	55	30	23	.....	276.9	67
July	.....	37	61	83	90	86	88	80	81	82	72	61	45	27	27	.....	281.5	67
August	.....	59	70	86	90	95	95	94	89	91	78	65	46	33	33	.....	300.6	74
September	.....	19	47	74	79	87	75	80	73	63	49	35	15	10	26	.....	208.5	56
October	.....	22	22	55	64	71	75	67	66	65	55	22	2	10	.....	.....	176.3	49
November	.....	.....	31	44	54	58	65	66	72	72	58	37	19	13	.....	.....	170.6	52
December	.....	.....	54	67	84	90	92	94	89	86	88	75	45	45	.....	.....	258.2	80
Sums	.....	342	633	892	933	1,008	1,022	1,017	999	961	869	735	525	358	193	.....	3,029.2	816
Percentage of possible.	.....	.....	53	69	78	84	85	86	83	80	72	61	44	30	.....	.....	252.4	68

KALISPELL, MONT. (T.).

[N. lat. 48° 10′.]

January	.....	.....	.....	19	17	33	41	52	45	43	37	31	20	.....	.....	.....	98.0	35
February	.....	.....	15	9	19	35	42	37	49	52	45	35	17	6	.....	.....	96.7	33
March	.....	61	25	27	37	57	71	67	74	70	57	40	28	22	35	.....	179.7	49
April	14	10	28	51	66	70	81	82	77	76	66	62	52	36	8	.....	228.9	56
May	27	30	30	47	60	67	60	61	63	55	59	55	43	32	17	11	216.1	46
June	29	39	46	58	73	86	86	81	74	76	72	63	55	50	40	17	283.1	59
July	39	46	60	68	71	75	81	85	84	80	78	68	62	49	34	30	308.2	64
August	74	61	67	83	88	93	90	91	87	90	78	75	65	55	34	48	332.2	75
September	.....	29	33	45	59	68	76	74	65	64	65	64	54	43	47	.....	219.9	58
October	.....	.....	32	33	42	54	62	73	82	68	68	60	33	46	.....	.....	187.9	56
November	.....	.....	.....	5	15	30	31	33	29	26	22	9	5	.....	.....	.....	60.5	22
December	.....	.....	.....	.....	3	7	11	13	16	18	11	11	8	.....	.....	.....	28.5	11
Sums	183	276	336	445	550	675	732	749	745	718	658	573	442	339	215	106	2,238.7	564
Percentage of possible.	.....	.....	.....	.....	46	56	61	62	62	60	55	48	37	.....	.....	.....	186.6	47

KANSAS CITY, MO. (P.).

[N. lat. 39° 05′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h A. M.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	50	54	60	61	58	55	65	61	57	61	33	.....	.....	177.1	58
February	.....	.....	7	18	41	48	48	54	46	58	55	45	36	32	.....	.....	131.3	44
March	.....	50	39	43	53	58	68	62	57	62	68	60	44	22	22	.....	196.3	53
April	.....	28	36	58	66	65	64	59	65	63	61	64	54	34	16	.....	215.0	54
May	12	19	38	55	57	62	67	71	72	71	70	68	58	36	8	.....	233.9	53
June	31	39	46	43	46	48	52	53	50	50	57	56	56	55	36	14	211.0	47
July	34	46	67	75	80	76	77	74	72	81	84	80	71	61	31	27	308.0	68
August	.....	26	36	40	55	54	61	58	63	68	70	65	72	65	37	73	236.2	56
September	.....	54	54	59	70	65	67	66	71	68	67	64	60	44	47	.....	233.0	62
October	.....	.....	57	66	75	80	84	85	84	85	84	79	65	52	.....	.....	264.1	76
November	.....	.....	15	23	22	33	35	45	52	47	46	42	35	.....	.....	.....	113.2	38
December	.....	.....	.....	32	35	38	43	44	43	39	37	35	37	.....	.....	.....	113.1	39
Sums	77	262	395	562	654	687	727	729	730	757	760	715	649	434	197	114	2,482.2	648
Percentage of possible	.....	.....	.....	47	55	57	61	61	61	63	63	60	54	.....	.....	.....	202.7	54

KNOXVILLE, TENN. (T.).

[N. lat. 35° 56′.]

January	.....	.....	.....	10	16	40	51	53	55	46	41	34	22	8	.....	.....	114.3	37
February	.....	.....	5	8	11	20	30	37	38	41	35	31	22	16	.....	.....	79.7	26
March	.....	18	21	21	25	42	52	54	53	46	44	35	22	16	21	.....	133.0	36
April	.....	22	23	23	34	45	48	51	58	56	46	44	38	27	27	.....	156.1	40
May	17	29	29	39	57	69	79	77	75	80	75	67	59	52	45	50	258.6	59
June	30	30	30	33	54	72	79	80	78	73	70	67	54	44	46	45	249.5	57
July	55	39	39	41	63	77	84	81	90	80	80	67	58	43	36	38	274.8	62
August	.....	32	29	29	41	59	73	70	82	71	72	62	50	36	30	.....	222.9	53
September	.....	20	20	22	33	44	64	68	65	61	53	53	46	45	52	.....	176.8	47
October	.....	33	32	35	51	72	81	82	81	83	75	68	68	62	.....	.....	231.7	66
November	.....	.....	3	3	17	44	46	49	57	56	48	31	24	.....	.....	.....	111.9	36
December	.....	.....	17	13	10	15	28	35	30	32	26	14	13	.....	.....	.....	65.2	22
Sums	102	223	248	277	412	599	715	737	762	725	662	573	471	349	257	133	2,073.5	541
Percentage of possible	.....	.....	.....	23	34	50	60	62	64	60	55	48	39	.....	.....	.....	172.8	45

LA CROSSE, WIS. (T.).

[N. lat. 43° 49′.]

January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March[1]	.....	27	15	29	37	44	53	61	65	67	59	56	38	23	15	.....	126.5	45
April	100	45	58	76	80	86	85	83	86	82	78	77	65	54	43	.....	292.6	72
May	46	48	56	67	77	85	89	94	94	93	86	85	79	69	54	39	343.5	75
June	34	43	60	75	81	92	95	97	98	96	94	96	91	88	63	30	364.6	79
July	32	42	48	65	77	82	87	95	89	85	79	76	70	52	40	27	316.4	68
August	53	38	52	67	75	86	88	91	91	93	95	84	74	62	53	33	322.5	74
September	.....	51	37	56	60	68	74	74	77	78	73	68	63	50	68	.....	242.6	65
October	.....	.....	26	36	54	73	76	79	77	75	71	65	42	26	.....	.....	209.3	61
November	.....	.....	.....	14	21	28	35	41	43	36	35	23	14	.....	.....	.....	84.8	29
December	.....	.....	.....	15	18	26	32	48	45	40	22	16	17	.....	.....	.....	81.2	29
Sums	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Percentage of possible	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

LEXINGTON, KY. (T.).

[N. lat. 38° 02′.]

January	.....	.....	.....	18	29	46	53	59	55	56	43	39	34	13	.....	.....	132.8	43
February	.....	.....	13	16	36	47	56	58	58	62	61	48	39	18	.....	.....	138.9	46
March	.....	.....	9	25	46	55	64	70	71	70	64	50	34	18	20	.....	178.8	48
April	.....	36	44	63	66	69	78	80	82	83	82	80	69	53	35	.....	266.8	67
May	38	49	71	79	96	99	100	97	94	92	93	91	85	71	51	46	364.5	83
June	10	41	77	84	86	86	89	93	94	94	95	92	91	86	66	49	359.3	81
July	38	36	72	85	90	90	90	92	95	92	94	94	90	74	51	40	361.4	80
August	.....	28	51	75	82	86	90	93	94	95	95	92	83	61	53	71	330.4	78
September	.....	47	44	50	61	67	76	80	85	79	73	68	59	48	72	.....	245.1	66
October	.....	.....	49	58	73	79	82	78	75	76	73	65	61	48	.....	.....	241.2	69
November	.....	.....	30	22	21	36	43	47	52	51	45	43	38	.....	.....	.....	120.9	40
December	.....	.....	.....	13	16	17	19	25	24	23	25	19	20	.....	.....	.....	58.8	20
Sums	86	237	460	589	702	777	840	872	879	873	843	781	703	490	348	206	2,798.9	721
Percentage of possible	.....	.....	.....	49	58	65	70	73	73	73	70	65	59	.....	.....	.....	233.2	60

[1] For 23 days only.

LITTLE ROCK, ARK. (T.).

[N. lat. 34° 45′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	30	32	43	54	57	57	53	52	48	39	27	.....	.....	145.7	46
February	.....	.....	33	38	45	51	58	58	54	60	55	48	34	20	.....	.....	146.0	48
March	.....	50	37	41	57	61	64	69	72	63	61	58	36	23	17	.....	198.3	53
April	.....	39	40	49	62	75	79	76	75	75	62	61	52	42	43	.....	237.0	60
May	19	32	32	35	60	63	61	69	62	65	64	55	42	29	29	12	216.5	50
June	54	54	60	67	81	83	85	84	85	86	76	79	76	72	71	71	326.6	75
July	71	46	46	60	74	78	78	85	86	85	85	72	64	50	42	48	299.0	68
August	.....	64	61	66	73	80	85	83	87	90	85	81	78	64	62	100	317.2	76
September	.....	57	50	52	62	63	75	76	76	73	72	68	58	52	58	.....	240.2	65
October	.....	33	48	53	71	83	85	87	80	78	75	69	48	38	.....	.....	244.2	70
November	.....	.....	16	15	30	35	46	52	49	48	46	33	26	.....	.....	.....	115.2	37
December	.....	.....	9	15	28	45	51	48	52	51	43	37	27	.....	.....	.....	121.7	40
Sums	144	375	432	521	675	760	821	844	835	827	776	709	580	417	322	231	2,607.6	688
Percentage of possible	.....	.....	.....	44	56	63	68	70	70	69	65	59	48	.....	.....	.....	217.3	57

LOS ANGELES, CAL. (P.).

[N. lat. 34° 03′.]

January	.....	.....	100	45	60	74	83	80	82	76	80	78	60	56	.....	.....	227.1	72
February	.....	.....	33	43	53	50	59	61	70	70	69	67	50	47	.....	.....	177.5	58
March	.....	80	63	64	72	78	81	79	76	71	74	75	72	64	72	.....	270.6	73
April	.....	31	43	53	59	67	71	78	85	86	85	83	78	71	59	.....	273.1	70
May	36	39	50	56	56	61	70	73	80	89	97	97	98	89	77	100	318.8	74
June	23	24	26	27	37	46	58	78	90	96	94	93	99	98	97	97	295.4	68
July	17	14	22	36	42	54	60	60	66	75	81	87	87	89	81	84	268.7	61
August	.....	20	23	33	51	71	84	94	96	99	97	96	98	93	84	.....	314.0	76
September	.....	18	29	33	51	70	87	87	93	93	96	91	93	83	62	.....	275.2	74
October	.....	33	39	39	46	58	74	76	86	85	85	80	67	66	.....	.....	236.0	67
November	.....	.....	59	67	71	76	78	83	81	83	79	75	64	100	.....	.....	234.3	75
December	.....	.....	61	48	64	76	73	63	75	73	75	67	58	.....	.....	.....	206.7	67
Sums	76	259	548	544	662	781	878	912	980	996	1,012	989	924	856	542	281	3,097.4	835
Percentage of possible	.....	.....	46	45	55	65	73	76	82	83	84	82	77	.....	.....	.....	258.1	70

LOUISVILLE, KY. (T.).

[N. lat. 38° 15′.]

January	.....	.....	.....	43	52	52	59	60	65	56	55	48	44	15	.....	.....	163.2	53
February	.....	.....	30	44	49	61	61	60	72	79	66	54	48	38	.....	.....	171.6	57
March	.....	8	33	40	50	59	69	75	74	69	67	61	53	42	37	.....	214.2	58
April	.....	65	60	59	66	77	79	81	82	79	78	69	48	43	36	.....	264.2	67
May	64	71	69	67	71	75	79	77	77	78	63	58	57	60	63	50	303.8	69
June	51	50	52	51	51	63	69	76	77	71	58	55	53	60	60	45	264.7	60
July	85	84	84	83	75	84	85	82	81	72	72	71	71	71	71	68	348.1	77
August	.....	69	68	68	73	78	78	77	76	81	77	62	55	62	65	57	298.6	71
September	.....	51	45	40	42	45	55	61	66	60	54	45	44	43	57	.....	186.9	50
October	.....	.....	59	62	67	70	71	72	77	74	73	62	58	50	.....	.....	233.4	67
November	.....	.....	23	21	27	40	50	57	57	57	53	44	32	.....	.....	.....	131.6	43
December	.....	.....	.....	16	16	24	26	24	25	28	23	15	14	.....	.....	.....	62.9	21
Sums	200	398	523	594	639	718	781	802	829	804	739	644	577	484	389	220	2,643.2	693
Percentage of possible	.....	.....	.....	50	53	60	65	67	69	67	62	54	50	.....	.....	.....	220.3	58

MACON, GA. (T.).

[N. lat. 32° 50′.]

January	.....	.....	.....	35	39	41	46	52	52	53	48	43	40	29	.....	.....	142.3	45
February	.....	.....	27	21	22	30	36	42	48	52	49	42	29	29	.....	.....	112.2	36
March	.....	22	34	36	39	47	53	58	62	57	52	44	34	32	40	.....	170.4	46
April	.....	32	37	38	41	55	56	64	66	57	47	35	24	20	16	.....	169.3	43
May	40	47	48	50	51	66	78	72	77	67	57	35	18	13	11	.....	214.0	50
June	62	60	63	65	65	77	83	84	80	72	68	62	47	46	37	42	277.5	65
July	71	52	53	66	73	78	83	79	77	70	65	54	37	34	29	34	264.8	61
August	.....	44	39	51	66	76	79	71	75	72	69	70	56	37	37	.....	252.8	61
September	.....	29	23	29	42	56	52	60	64	61	59	45	28	29	47	.....	168.6	45
October	.....	67	57	58	64	64	69	70	65	68	61	49	36	30	.....	.....	207.6	59
November	.....	.....	38	33	43	52	60	56	55	51	47	45	39	62	.....	.....	149.9	48
December	.....	.....	32	26	27	33	37	48	54	43	38	33	26	.....	.....	.....	113.6	37
Sums	173	353	451	508	572	675	732	756	775	723	660	557	414	361	217	76	2,243.0	596
Percentage of possible	.....	.....	.....	42	48	56	61	63	65	60	55	46	35	.....	.....	.....	186.9	50

MEMPHIS, TENN. (T.).

[N. lat. 35° 09′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	.....	44	45	44	50	48	50	54	51	40	35	25	.....	.....	143.2	46
February	.....	.....	44	46	49	51	52	51	62	58	46	37	33	31	.....	.....	144.9	47
March	.....	50	47	47	44	56	68	73	70	66	60	55	45	35	38	.....	206.0	55
April	.....	56	53	59	68	74	78	79	82	85	81	70	56	47	41	.....	265.1	68
May	41	54	59	69	74	79	83	85	86	77	76	66	64	51	44	25	299.7	69
June	62	60	57	71	73	84	82	82	84	83	77	70	67	55	53	50	308.1	71
July	57	64	64	72	84	91	92	89	90	86	88	85	78	71	55	63	349.1	79
August	.....	58	56	56	70	74	82	84	86	81	81	81	73	66	65	100	302.8	73
September	.....	46	40	44	51	63	73	74	74	70	68	62	56	50	56	.....	223.1	60
October	.....	33	57	64	67	75	81	78	80	80	78	64	60	55	.....	.....	248.0	71
November	.....	.....	24	26	44	52	59	55	55	46	33	20	17	25	.....	.....	124.6	40
December	.....	.....	45	41	42	43	45	44	43	44	44	44	46	.....	.....	.....	133.2	44
Sums	160	421	546	639	711	786	845	842	862	830	783	694	630	511	352	238	2,747.8	723
Percentage of possible	.....	.....	.....	53	59	66	70	70	71	69	65	58	53	.....	.....	.....	229.0	60

MERIDIAN, MISS. (T.).

[N. lat. 32° 21′.]

January	.....	.....	.....	29	28	40	47	55	52	51	44	45	42	34	.....	.....	187.4	43
February	.....	.....	24	25	29	33	46	53	63	58	51	40	36	31	.....	.....	130.5	42
March	.....	22	23	29	41	55	62	63	62	62	62	55	52	45	39	.....	190.3	51
April	.....	36	40	41	51	67	68	72	79	80	74	79	62	60	59	.....	246.7	63
May	75	48	46	51	64	75	76	76	79	66	57	52	49	44	43	.....	253.5	59
June	88	88	83	82	90	94	99	99	96	96	95	89	87	76	73	69	376.9	89
July	67	56	55	62	73	79	86	87	82	75	60	50	49	39	38	53	276.3	64
August	.....	59	57	65	82	84	79	72	77	74	67	55	51	29	23	.....	261.8	63
September	.....	40	35	33	44	52	53	59	61	58	57	48	44	46	64	.....	183.0	49
October	.....	60	54	55	65	72	78	83	75	69	56	54	57	59	.....	.....	230.4	65
November	.....	.....	24	20	24	47	52	55	50	41	37	41	40	50	.....	.....	126.5	40
December	.....	.....	12	26	25	25	36	38	44	46	37	25	26	33	.....	.....	102.6	33
Sums	230	404	458	518	616	723	782	812	820	776	697	633	595	546	339	122	2,515.9	661
Percentage of possible	.....	.....	.....	43	51	60	65	68	68	65	58	53	50	46	.....	.....	209.7	55

MILWAUKEE, WIS. (T.).

[N. lat. 43° 02′.]

January	.....	.....	.....	41	51	65	71	72	69	66	62	60	57	67	.....	.....	182.3	62
February	.....	.....	27	51	61	67	78	80	79	74	68	69	63	55	.....	.....	201.2	68
March	.....	36	34	48	56	59	62	66	67	59	58	47	38	31	30	.....	193.1	52
April	100	43	49	57	60	70	67	69	64	69	66	60	41	34	36	.....	228.5	57
May	39	35	40	56	71	74	75	82	83	77	75	72	73	54	45	52	292.2	64
June	57	57	57	65	67	76	79	76	72	57	61	53	43	33	24	22	262.1	57
July	38	39	45	52	55	66	64	73	75	76	71	69	59	41	34	40	266.0	57
August	44	41	41	45	62	71	77	76	82	82	72	68	57	45	47	75	268.1	62
September	.....	55	38	38	46	48	56	59	57	52	51	44	34	34	52	.....	175.4	47
October	.....	.....	31	34	46	57	62	64	60	64	47	44	39	42	.....	.....	170.9	50
November	.....	.....	16	16	21	35	36	38	41	37	33	31	23	.....	.....	.....	91.5	31
December	.....	.....	.....	19	27	33	40	34	36	33	28	26	27	.....	.....	.....	87.5	31
Sums	278	306	378	522	623	721	767	789	785	746	692	643	554	436	268	189	2,418.8	638
Percentage of possible	.....	.....	.....	44	52	60	64	66	66	62	58	54	46	.....	.....	.....	201.6	53

MODENA, UTAH. (P.).

[N. lat. 37° 48′.]

January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	69	72	81	88	88	88	82	57	44	64	70	65	65	70	71	71	316.5	72
June	97	95	93	90	91	93	90	90	90	92	91	87	89	91	90	97	404.0	91
July	76	75	88	87	93	98	96	97	90	82	89	88	82	71	64	70	383.7	85
August	.....	76	80	88	91	89	86	85	74	72	75	70	71	68	60	43	328.2	78
September	.....	87	85	88	93	95	96	91	78	83	82	76	77	67	57	.....	313.3	84
October	.....	50	74	65	88	90	89	87	87	85	85	77	73	71	.....	.....	299.8	83
November	.....	.....	54	52	72	70	70	62	57	68	69	58	37	.....	.....	.....	187.8	62
December	.....	.....	100	58	68	74	63	63	59	65	68	63	47	.....	.....	.....	188.5	64
Sums	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Percentage of possible	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MOUNT TAMALPAIS, CAL. (P.).

[N. lat. 37° 56′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	51	48	57	63	62	60	60	61	57	52	49	.....	.....	175.1	57
February	.....	.....	9	14	21	18	20	11	18	20	20	21	18	12	.....	.....	53.2	18
March	.....	92	72	71	70	71	64	47	55	57	59	64	58	47	54	.....	226.4	61
April	.....	30	32	44	52	49	51	46	52	54	61	66	61	54	51	.....	200.7	51
May	66	64	69	66	64	69	70	72	72	80	78	78	78	77	65	71	316.6	72
June	94	93	95	96	97	97	97	99	96	96	95	97	97	97	97	96	426.3	96
July	85	84	84	82	81	82	86	89	91	93	92	91	92	91	90	93	394.9	88
August	.....	63	65	72	76	75	74	77	87	94	100	98	97	95	85	86	350.9	83
September	.....	80	87	88	87	86	85	88	93	93	93	92	90	91	77	.....	332.5	89
October	.....	100	54	54	64	61	54	54	61	62	67	65	61	70	.....	.....	208.2	60
November	.....	.....	39	47	59	57	58	55	51	57	60	52	52	.....	.....	.....	165.2	54
December	.....	.....	100	44	49	58	59	56	56	59	54	44	39	.....	.....	.....	155.7	52
Sums	245	606	706	729	768	780	781	756	792	825	840	825	795	683	519	346	3,005.7	781
Percentage of possible	.....	.....	.....	61	64	65	65	63	66	69	70	69	66	.....	.....	.....	250.5	65

NASHVILLE, TENN. (T.).

[N. lat. 36° 10′.]

January	.....	.....	.....	6	10	37	54	65	64	53	49	43	28	14	.....	.....	127.0	41
February	.....	.....	2	8	37	57	64	70	76	70	69	61	38	15	.....	.....	156.3	51
March	.....	18	17	32	58	70	70	74	77	76	71	66	55	44	40	.....	221.5	60
April	.....	42	45	63	74	80	88	92	94	94	97	97	95	71	64	.....	314.5	80
May	47	53	62	74	79	81	83	86	86	88	87	87	84	71	55	36	334.9	77
June	37	37	56	80	84	92	93	89	87	91	90	79	74	68	48	38	327.1	75
July	39	32	60	79	93	92	95	95	97	94	92	90	80	69	49	49	350.9	79
August	.....	52	51	70	80	89	91	90	87	85	80	76	70	54	46	50	309.5	74
September	.....	18	17	30	48	59	65	70	68	68	59	53	55	34	48	.....	191.1	51
October	.....	.....	21	33	59	75	77	80	81	77	73	71	59	47	.....	.....	224.8	64
November	.....	.....	27	24	36	49	56	59	57	59	51	38	33	50	.....	.....	140.8	46
December	.....	.....	17	16	17	23	29	36	41	35	32	25	23	.....	.....	.....	84.0	28
Sums	123	252	375	515	675	804	865	906	915	890	850	786	694	587	350	173	2,782.4	726
Percentage of possible	.....	.....	.....	43	56	67	72	76	76	74	71	66	58	.....	.....	.....	231.9	61

NEW HAVEN, CONN. (T.).

[N. lat. 41° 18′.]

January	.....	.....	.....	29	35	55	57	66	68	69	64	53	35	41	.....	.....	161.4	54
February	.....	.....	38	47	54	67	73	73	69	66	68	61	45	26	.....	.....	179.9	60
March	.....	67	43	42	51	62	65	66	71	69	66	56	45	25	24	.....	203.9	55
April	.....	45	43	57	74	68	72	72	76	78	75	65	50	32	8	.....	288.8	60
May	26	32	42	65	68	66	66	73	82	80	78	72	65	47	23	21	268.8	60
June	53	53	55	68	74	78	76	86	85	81	79	75	60	53	37	37	302.4	67
July	25	23	36	47	57	59	69	74	74	76	70	61	51	40	33	36	246.5	54
August	.....	53	59	62	72	76	88	90	89	86	86	85	79	56	34	20	311.5	73
September	.....	49	40	43	54	62	60	67	67	66	62	57	45	41	45	.....	206.9	55
October	.....	100	48	51	60	69	70	69	64	65	63	58	51	45	.....	.....	208.3	61
November	.....	.....	40	30	34	43	50	59	66	61	52	28	19	.....	.....	.....	133.5	45
December	.....	.....	.....	46	47	66	80	80	74	73	65	45	43	.....	.....	.....	182.0	63
Sums	104	422	444	587	675	771	820	875	885	872	828	716	588	406	204	114	2,643.9	707
Percentage of possible	.....	.....	.....	49	56	64	69	73	74	73	69	60	49	.....	.....	.....	220.3	59

NEW ORLEANS, LA. (T.).

[N. lat. 29° 58′.]

January	.....	.....	4	12	46	68	75	71	73	71	63	56	41	34	.....	.....	182.6	56
February	.....	.....	.....	5	36	50	45	57	62	54	55	51	39	25	.....	.....	132.0	42
March	.....	25	10	10	33	50	64	69	65	63	56	54	37	27	30	.....	167.8	45
April	.....	21	25	35	52	63	71	79	81	80	78	67	57	44	44	.....	229.0	59
May	.....	43	49	80	81	85	87	91	91	85	75	71	68	37	24	.....	296.3	70
June	83	72	81	90	92	95	92	89	89	91	85	83	86	64	38	53	348.7	83
July	.....	15	17	39	58	55	60	58	54	42	44	39	25	12	10	18	161.1	38
August	.....	9	15	40	52	54	55	56	52	50	54	46	38	18	.....	.....	165.6	40
September	.....	.....	.....	2	28	49	53	54	54	52	49	38	13	3	.....	.....	118.6	32
October	.....	.....	39	61	74	82	85	81	78	81	74	73	61	44	.....	.....	250.0	70
November	.....	.....	32	27	53	65	70	74	78	67	62	47	29	40	.....	.....	175.0	56
December	.....	.....	3	6	22	43	56	55	59	53	55	44	32	38	.....	.....	133.2	42
Sums	83	185	275	407	622	759	813	834	836	789	750	669	526	386	146	71	2,362.9	633
Percentage of possible	.....	.....	.....	34	52	63	68	70	70	66	63	56	44	32	.....	.....	196.9	53

NEW YORK, N. Y. (T.).

[N. lat. 40° 43′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	25	29	46	56	54	60	63	57	44	38	41	.....	.....	143.1	48
February	.....	.....	35	35	44	63	66	68	66	67	60	48	38	36	.....	.....	162.4	54
March	.....	75	44	47	58	68	72	72	71	69	68	52	37	26	26	.....	211.3	57
April	.....	35	35	41	50	64	61	65	65	67	61	57	48	34	37	.....	209.0	52
May	32	33	43	61	64	72	79	79	79	78	75	66	54	50	33	28	272.8	61
June	46	47	47	54	72	78	79	77	77	80	68	68	57	44	35	41	278.4	62
July	27	23	20	24	41	48	55	64	61	62	53	45	39	23	24	26	186.5	41
August	50	30	31	41	66	83	86	85	87	81	74	68	55	40	28	20	262.9	62
September	.....	37	34	33	34	44	47	49	56	51	53	46	43	36	52	.....	163.6	44
October	.....	.....	36	48	55	53	55	64	66	55	58	56	48	29	.....	.....	184.6	54
November	.....	.....	33	21	29	40	54	47	54	49	41	29	17	.....	.....	.....	114.7	39
December	.....	.....	.....	40	42	51	52	64	53	44	46	27	23	.....	.....	.....	130.4	45
Sums	155	280	358	470	584	710	762	788	795	766	714	606	497	359	235	115	2,319.7	619
Percentage of possible	.....	.....	.....	39	49	59	64	66	66	64	60	51	42	.....	.....	.....	193.3	52

NORFOLK, VA. (T.).

[N. lat. 36° 51′.]

January	.....	.....	.....	26	34	47	65	68	69	61	50	35	30	16	.....	.....	149.8	48
February	.....	.....	26	45	58	61	67	66	68	67	63	64	58	44	.....	.....	181.7	60
March	.....	27	39	44	55	65	72	74	76	75	70	67	52	36	35	.....	224.3	60
April	.....	45	47	52	64	72	75	69	70	75	68	60	51	37	37	.....	236.1	60
May	22	26	26	31	52	60	64	68	77	80	67	64	48	29	29	40	224.8	51
June	31	30	33	40	52	61	69	78	80	79	78	62	52	40	37	32	243.2	55
July	74	58	58	65	79	82	85	76	75	77	74	64	59	52	45	51	302.5	68
August	.....	57	74	75	78	78	80	78	81	83	80	71	58	51	50	40	299.8	71
September	.....	32	27	31	46	53	60	68	67	62	54	46	31	25	38	.....	175.1	47
October	.....	50	40	46	60	68	73	78	78	75	75	69	62	59	.....	.....	229.6	66
November	.....	.....	16	16	26	43	46	44	50	43	39	30	17	.....	.....	.....	106.6	35
December	.....	.....	.....	23	23	35	46	47	49	45	40	26	24	.....	.....	.....	108.3	36
Sums	127	325	386	494	627	725	802	814	840	822	758	658	542	389	271	163	2,481.6	657
Percentage of possible	.....	.....	.....	41	52	60	67	68	70	69	63	55	45	.....	.....	.....	206.8	55

NORTHFIELD, VT. (P.).

[N. lat. 44° 10′.]

January	.....	.....	.....	33	34	36	36	42	40	38	44	26	17	.....	.....	.....	100.9	35
February	.....	.....	17	26	33	47	52	54	50	46	45	44	29	27	.....	.....	122.9	42
March	.....	33	28	29	39	46	47	40	39	42	42	34	26	16	21	.....	131.8	36
April	33	26	29	37	39	45	48	50	40	33	30	38	28	9	8	.....	135.3	34
May	30	29	38	44	45	55	51	50	50	50	58	57	54	48	32	39	212.8	46
June	20	26	42	49	50	54	48	44	40	37	39	47	48	39	23	23	185.2	40
July	27	24	35	42	49	49	46	44	38	42	47	44	37	31	26	29	181.0	39
August	13	17	27	41	53	55	65	62	58	63	65	56	47	30	20	26	204.3	47
September	.....	19	15	26	38	46	49	49	43	52	53	48	38	26	47	.....	149.2	40
October	.....	.....	22	24	32	36	36	41	34	35	32	23	10	8	.....	.....	99.5	29
November	.....	.....	47	24	26	32	39	36	35	42	44	31	27	.....	.....	.....	98.7	34
December	.....	.....	.....	39	41	36	39	44	36	37	39	33	34	.....	.....	.....	105.8	38
Sums	123	174	300	414	479	537	556	556	503	517	538	481	395	234	177	117	1,726.9	460
Percentage of possible	.....	.....	.....	35	40	45	46	46	42	43	45	40	33	.....	.....	.....	143.9	38

OKLAHOMA, OKLA. (T.).

[N. lat. 35° 26′.]

January	.....	.....	.....	48	58	64	66	69	78	73	71	72	69	62	.....	.....	209.9	67
February	.....	.....	48	60	57	60	65	74	69	69	63	64	53	44	.....	.....	186.4	61
March	.....	60	41	49	56	63	68	73	76	77	75	70	62	48	40	.....	235.7	63
April	.....	44	46	50	63	77	78	77	80	81	78	76	70	56	58	.....	264.1	67
May	15	29	37	60	68	68	82	78	80	76	72	70	56	41	28	12	262.1	60
June	24	23	43	62	74	85	90	89	93	90	88	81	75	68	48	49	307.6	71
July	14	13	19	41	59	76	83	91	95	85	78	70	61	45	21	13	260.5	59
August	.....	68	68	76	78	83	89	94	96	91	91	88	87	66	60	100	341.4	82
September	.....	54	53	55	64	74	75	81	78	81	80	71	65	53	58	.....	255.7	69
October	.....	33	68	74	83	85	87	88	88	87	87	78	69	69	.....	.....	283.9	81
November	.....	.....	17	24	30	42	44	48	44	44	44	36	29	.....	.....	.....	117.1	38
December	.....	.....	45	47	41	49	61	63	62	60	56	46	37	.....	.....	.....	160.3	53
Sums	53	324	485	636	731	826	883	925	939	914	883	822	733	552	313	174	2,864.7	771
Percentage of possible	.....	.....	.....	53	61	69	74	77	78	76	74	69	61	.....	.....	.....	240.4	64

OMAHA, NEBR. (T.).

[N. lat. 41° 16′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	60	59	65	63	77	74	72	65	52	54	29	.....	.....	191.4	64
February	.....	.....	41	35	36	38	42	54	67	65	61	44	27	24	.....	.....	136.0	46
March	.....	42	30	30	35	53	65	78	77	73	74	60	31	21	17	.....	193.3	52
April	.....	45	43	45	61	79	82	84	82	84	80	67	60	51	44	.....	263.2	66
May	26	23	26	38	47	58	66	67	69	60	61	55	44	43	49	50	223.5	50
June	27	27	28	37	42	47	50	59	67	66	62	54	50	44	33	32	209.2	46
July	39	45	45	52	56	66	64	69	78	76	66	59	60	53	48	47	270.9	59
August	50	25	31	46	59	66	69	74	73	74	79	75	63	52	35	35	252.9	57
September	.....	38	37	44	60	59	69	73	71	69	69	66	60	51	79	.....	225.5	60
October	.....	.....	49	51	65	71	72	71	77	77	71	61	41	41	.....	.....	219.1	64
November	.....	.....	17	27	38	38	40	48	52	56	61	43	36	.....	.....	.....	129.5	44
December	.....	.....	.....	29	32	37	47	55	56	50	34	26	21	.....	.....	.....	114.8	40
Sums	142	245	347	494	590	677	729	809	843	822	788	662	547	409	305	164	2,429.3	648
Percentage of possible	.....	.....	.....	41	49	56	61	68	70	69	65	55	46	.....	.....	.....	202.4	54

PARKERSBURG, W. VA. (T.).

[N. lat. 39° 16′.]

January	.....	.....	.....	16	17	25	36	40	36	42	38	30	22	17	.....	.....	92.4	30
February	.....	.....	7	18	21	38	56	61	59	61	47	36	22	15	.....	.....	120.4	40
March	.....	8	31	29	40	47	55	62	60	57	52	41	32	26	20	.....	164.2	44
April	.....	17	13	20	44	63	64	66	63	52	63	61	47	29	28	.....	184.2	46
May	23	26	26	36	67	70	80	84	85	71	60	56	49	29	16	11	235.7	53
June	14	13	15	26	51	66	69	73	62	62	55	64	47	31	13	12	194.4	44
July	39	32	33	50	72	81	84	87	88	85	72	65	47	32	35		288.6	64
August	.....	25	26	35	59	74	78	79	79	83	71	65	37	9	.....	.....	221.3	52
September	.....	18	13	13	30	47	54	61	52	55	52	37	21	14	22	.....	137.7	37
October	.....	.....	18	20	36	44	55	68	68	60	57	40	26	21	.....	.....	153.7	44
November	.....	.....	6	3	6	20	34	38	35	31	29	21	22	.....	.....	.....	70.5	23
December	.....	.....	.....	.....	.....	3	6	9	12	17	12	8	8	.....	.....	.....	22.6	8
Sums	76	139	188	266	443	578	668	725	698	679	621	521	398	238	131	58	1,885.7	485
Percentage of possible	.....	.....	.....	.....	.....	48	56	60	58	57	52	43	33	.....	.....	.....	157.2	40

PHILADELPHIA, PA. (T.).

[N. lat. 39° 57′.]

January	.....	.....	.....	31	35	46	55	55	54	53	52	35	38	17	.....	.....	137.6	46
February	.....	.....	32	40	44	45	51	54	54	57	56	48	48	43	.....	.....	146.9	49
March	.....	75	50	47	57	59	65	67	65	74	64	48	43	36	33	.....	208.2	56
April	.....	29	27	31	47	60	61	63	54	54	43	35	21	19	23	.....	164.2	41
May	45	42	42	42	47	54	68	65	66	59	54	46	45	46	39	40	227.2	51
June	40	40	40	52	69	75	75	78	79	73	66	59	45	32	27	26	252.5	56
July	38	32	32	37	42	47	52	53	57	59	57	45	34	28	26	29	192.9	42
August	.....	37	43	51	64	75	84	87	87	88	83	75	65	55	43	36	286.3	67
September	.....	44	43	46	58	63	64	68	67	65	65	56	49	41	59	.....	210.8	56
October	.....	100	54	55	60	66	72	76	79	75	69	67	60	55	.....	.....	230.1	67
November	.....	.....	31	24	31	58	72	74	72	64	54	44	43	.....	.....	.....	159.8	53
December	.....	.....	.....	33	42	51	62	64	64	57	55	50	53	.....	.....	.....	156.4	54
Sums	123	399	894	489	591	699	781	804	798	778	718	608	544	372	250	131	2,372.9	638
Percentage of possible	.....	.....	.....	41	49	58	65	67	66	65	60	51	45	.....	.....	.....	197.8	53

PITTSBURG, PA. (T.).

[N. lat. 40° 32′.]

January	.....	.....	.....	10	10	11	16	21	27	25	22	23	25	12	.....	.....	56.8	19
February	.....	.....	9	14	12	18	32	44	46	47	39	30	29	33	.....	.....	92.2	31
March	.....	25	28	26	34	41	47	49	53	52	51	44	41	42	41	.....	157.7	42
April	.....	23	20	21	28	38	35	37	38	39	38	38	37	32	36	.....	132.2	33
May	60	55	51	57	62	78	81	87	86	84	77	70	61	57	55	50	306.7	68
June	41	38	35	40	55	63	71	70	62	65	65	59	49	35	26	22	229.4	51
July	48	42	45	55	61	75	84	86	84	66	63	65	59	45	32	35	277.4	60
August	100	38	42	46	58	67	69	74	77	73	71	67	59	50	44	35	256.3	60
September	.....	54	50	53	57	67	72	72	70	63	65	65	52	49	66	.....	228.6	61
October	.....	.....	29	30	41	49	57	60	64	68	63	48	58	56	.....	.....	179.5	52
November	.....	.....	35	22	27	28	35	40	44	51	46	37	44	.....	.....	.....	110.6	37
December	.....	.....	.....	11	9	15	22	27	34	30	23	18	26	.....	.....	.....	62.1	22
Sums	249	275	344	385	454	550	621	667	685	663	623	564	540	411	300	142	2,089.5	536
Percentage of possible	.....	.....	.....	32	38	46	52	56	57	55	52	47	45	.....	.....	.....	174.1	45

PHOENIX, ARIZ. (P.).

[N. lat. 33° 28′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January				52	70	77	68	48	64	70	71	65	59	54			204.7	64
February			47	72	83	85	81	75	76	77	80	77	68	62			233.4	76
March		67	55	74	81	80	82	75	76	80	75	76	70	57	53		273.4	73
April		75	85	88	93	92	91	95	96	96	95	94	94	82	73		358.6	90
May	87	71	83	93	92	94	98	95	93	96	96	94	88	86	80	100	387.9	90
June	81	80	93	96	97	97	97	97	98	100	99	100	99	96	95	88	410.0	96
July	57	59	92	93	95	96	99	97	96	96	97	97	95	94	86	84	408.6	92
August		51	60	76	85	90	89	88	90	94	91	90	78	62	51		328.9	79
September		56	63	77	81	85	90	91	93	92	95	95	84	71	64		312.0	84
October		100	77	87	95	98	94	97	97	98	97	93	86	74			324.1	92
November			52	57	75	82	85	83	81	85	81	77	70	50			239.2	76
December			60	66	70	76	80	74	75	80	78	74	68	33			230.4	74
Sums	225	559	767	931	1,017	1,052	1,054	1,015	1,035	1,064	1,055	1,032	959	821	502	272	3,700.6	986
Percentage of possible				78	85	88	88	85	86	89	88	86	80	68			308.4	82

POCATELLO, IDAHO (T.).

[N. lat. 42° 52′.]

January				39	42	55	59	65	70	67	62	47	49	44			165.3	56
February			8	7	6	20	31	53	65	56	36	26	14	10			89.2	30
March		50	33	27	33	48	52	59	71	61	54	34	32	28	38		165.4	45
April		31	33	39	50	56	65	67	59	59	52	40	34	32	31		189.0	47
May	54	48	48	65	75	83	83	76	81	76	69	58	49	51	52	51	294.1	65
June	74	72	77	83	89	87	89	89	94	96	83	81	73	70	53	41	363.7	79
July	68	73	81	84	86	86	92	88	84	83	75	73	67	65	61	58	359.9	77
August	100	83	87	95	99	97	100	97	92	89	86	83	76	80	71	84	381.2	88
September		66	62	69	79	89	91	93	91	91	87	85	80	74	86		308.2	82
October			64	58	65	70	82	86	87	87	83	69	69	75			255.8	75
November		26	30	32	47	54	58	58	58	52	42	33	29				127.8	44
December				26	32	47	61	62	65	61	46	33	30				135.2	48
Sums	296	449	523	624	703	792	863	893	917	878	775	662	602	529	392	234	2,834.3	736
Percentage of possible				52	59	66	72	74	76	73	65	55	50				236.2	61

PORTLAND, ME. (T.).

[N. lat. 43° 39′.]

January				29	42	51	59	62	62	64	56	49	41	67			152.9	53
February			17	25	46	60	67	72	79	76	67	58	44	35			170.7	58
March			4	26	45	57	58	63	63	67	59	45	27	13	8		163.0	44
April	57	29	31	42	65	76	78	80	82	78	72	65	51	40	17		236.0	59
May	11	26	56	70	75	81	81	84	86	90	86	80	71	62	41	30	310.7	68
June	7	22	59	69	71	77	78	75	76	70	64	64	58	43	29	18	262.4	57
July	8	12	41	51	70	71	78	82	84	86	81	76	65	50	35	33	281.5	60
August		15	37	62	65	69	74	76	81	82	75	67	60	40	22	13	252.3	58
September		13	20	38	48	53	56	57	64	68	64	61	49	29	35		185.1	49
October			20	43	57	60	73	70	72	60	55	51	42	33			187.4	55
November				9	30	40	45	51	53	49	37	26	22				105.6	36
December				17	34	55	58	59	68	68	58	39	37				144.0	52
Sums	93	117	284	481	648	750	805	831	870	858	774	681	557	412	187	94	2,555.6	649
Percentage of possible				40	54	63	67	69	73	72	65	57	46				212.1	54

PORTLAND, OREG. (T.).

[N. lat. 45° 32′.]

January				16	16	21	29	32	30	33	26	29	32				76.3	27
February			5	8	5	11	20	16	16	17	16	10	18	19			40.9	14
March		12	4	5	15	20	28	32	44	32	31	25	15	13	27		82.9	22
April		7	8	12	33	38	51	49	46	50	44	43	30	28	25		135.7	33
May	13	9	13	16	33	39	49	64	56	52	48	37	38	26	16	17	158.7	34
June	20	21	40	53	64	77	87	87	88	84	86	79	78	50	38	37	294.1	62
July	45	50	63	71	75	84	83	85	88	88	87	83	83	70	60	56	353.1	74
August	77	43	49	65	75	83	81	89	91	88	93	92	91	85	78	78	345.9	79
September		30	20	39	58	58	79	81	84	85	79	71	61	51	35		234.9	62
October			14	23	36	45	59	64	60	54	59	50	44	62			160.3	47
November					5	12	23	30	29	34	28	18	18				56.3	20
December				16	15	19	28	34	32	28	22	10	12				61.4	23
Sums	155	172	216	324	430	507	617	663	664	645	619	547	520	399	279	188	2,000.5	497
Percentage of possible					36	42	51	55	55	54	52	45	43				166.7	41

PUEBLO, COLO. (T.).

[N. lat. 38° 18′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours)	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January				68	64	70	76	77	85	79	76	61	57	54			218.3	71
February			24	39	52	67	78	89	82	84	80	68	38	37			197.4	65
March		83	71	65	69	79	84	90	91	87	81	64	44	40	52		267.4	72
April		67	64	73	87	88	88	88	90	91	85	73	38	39	44		291.1	73
May	55	55	52	60	75	81	89	87	84	74	66	61	47	43	47	54	289.6	66
June	50	51	56	64	70	81	87	91	88	89	82	82	63	43	45	45	308.9	70
July	55	65	69	84	91	96	97	96	99	89	73	60	56	53	53	60	344.6	77
August		62	60	73	85	94	96	95	95	82	74	68	53	45	40	29	309.5	73
September		80	77	76	80	90	95	93	94	88	86	83	79	64	81		312.6	84
October		50	55	58	69	81	86	88	83	79	80	76	66	52			257.3	74
November			46	49	58	66	75	86	87	81	72	59	53				205.9	68
December			100	71	68	78	81	86	87	82	64	57	61				219.5	74
Sums	160	513	674	780	863	971	1,032	1,066	1,065	1,005	919	812	655	470	362	188	3,222.1	867
Percentage of possible.				65	72	73	86	89	89	84	77	68	55				268.5	72

RALEIGH, N. C. (T.).

[N. lat. 35° 45′.]

January				41	39	50	58	57	60	52	47	38	32	19			146.7	47
February			26	41	44	58	61	66	71	66	59	48	46	42			166.7	55
March		27	41	40	52	67	64	73	70	73	62	52	43	45	40		210.6	57
April		49	49	52	72	75	75	75	76	73	71	66	57	50	48		258.4	64
May	44	43	47	56	73	85	91	94	96	92	91	86	93	62	46	57	325.2	74
June	56	57	62	77	87	91	94	94	89	88	90	87	86	76	57	42	349.4	80
July	48	53	58	76	92	95	94	94	92	95	93	85	71	67	45	49	348.7	78
August		39	39	43	69	91	96	97	98	97	91	78	69	56	52	50	309.6	74
September		51	47	41	64	72	79	82	86	81	72	62	47	44	42		238.9	64
October		67	64	64	69	73	80	78	75	76	74	63	67	67			248.9	71
November			37	33	42	51	59	61	59	54	54	39	45	100			152.6	49
December			17	29	31	47	63	64	66	67	53	46	42				154.8	51
Sums	148	386	487	593	734	855	914	935	940	914	857	750	688	628	330	198	2,905.5	764
Percentage of possible.				49	61	71	76	78	78	76	72	63	57				242.1	64

ROCHESTER, N. Y. (T.).

[N. lat. 43° 8′.]

January				5	5	10	34	51	52	41	36	36	31	33			91.2	31
February			15	19	27	43	58	66	77	78	61	53	33	36			148.4	50
March		36	30	33	37	58	62	64	64	58	48	43	43	33	40		177.9	48
April		30	32	38	51	57	61	62	64	57	53	46	45	38	33		194.5	48
May	38	35	41	49	60	68	72	77	82	75	75	68	58	50	35	33	269.8	59
June	50	50	52	53	62	67	66	74	64	65	61	66	54	47	39	43	265.1	58
July	39	41	44	55	65	72	75	81	82	80	77	71	65	52	31	35	287.4	62
August	67	62	62	62	60	67	78	82	78	79	71	79	66	55	40	53	290.3	67
September		42	33	37	46	58	63	66	63	64	62	62	45	46	51		200.0	53
October			18	19	27	36	45	48	43	45	33	35	37	36			121.5	36
November			60	25	24	25	28	36	38	32	29	26	26				85.8	29
December				7	11	16	20	25	21	17	12	10	6				42.9	15
Sums	194	296	387	402	475	577	662	782	728	691	618	595	508	425	269	164	2,174.8	556
Percentage of possible.				34	40	40	55	61	61	58	52	50	42				181.2	46

ST. LOUIS, MO. (T.).

[N. lat. 38° 38′.]

January				55	61	66	76	77	77	80	75	69	66	40			213.7	70
February			19	28	32	49	57	71	72	69	54	47	40	40			152.7	51
March		42	40	39	42	57	60	63	65	66	62	52	39	30	26		189.5	51
April		67	63	62	63	69	69	77	76	75	74	73	60	52	54		266.0	67
May	54	55	56	55	57	71	72	74	74	66	71	73	59	45	31	25	271.3	61
June	44	43	44	50	65	70	80	81	82	71	69	69	54	46	39	38	269.3	60
July	54	66	68	75	82	85	89	84	85	82	78	77	72	70	52	53	339.7	75
August		35	32	35	47	55	58	64	64	66	67	65	56	51	41	73	221.4	62
September		69	51	52	56	59	64	65	63	63	60	57	47	46	58		213.1	67
October			50	50	67	76	79	80	79	77	74	65	63	51			238.6	69
November			12	21	22	30	45	47	53	51	45	36	32				113.6	36
December				22	26	33	41	40	45	43	42	42	37				110.2	38
Sums	152	367	435	544	620	720	790	823	835	809	771	715	624	471	301	189	2,599.1	689
Percentage of possible.				45	52	60	66	69	70	68	64	60	52				216.6	58

ST. PAUL, MINN. (P.).

[N. lat. 44° 58′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January				52	53	61	64	68	69	72	66	45	35	33			170.6	60
February			29	51	64	69	71	70	68	70	68	56	43	33			179.5	61
March		38	39	45	56	60	60	58	58	58	52	51	45	45	43		194.0	52
April	60	43	55	66	66	64	69	69	62	60	65	66	56	39	30	50	237.8	59
May	42	42	51	55	60	59	56	52	50	53	56	51	49	48	35	33	232.9	51
June	43	44	54	57	60	65	68	67	66	64	67	68	59	51	44	37	265.6	57
July	44	47	62	72	73	79	71	64	63	56	53	61	54	51	47	44	281.2	60
August	84	54	65	76	77	68	63	65	60	63	70	65	57	45	34	33	268.1	62
September		45	45	54	55	55	61	59	56	59	60	61	57	56	65		211.9	56
October			31	32	52	65	73	65	61	62	60	51	45	54			186.3	55
November			7	18	25	26	35	36	39	32	30	34	31				87.5	30
December				8	11	31	41	36	50	51	45	24	21				92.8	34
Sums	273	313	438	586	652	702	727	709	696	700	692	633	552	455	298	197	2,408.2	637
Percentage of possible				49	54	59	61	59	58	58	58	53	46				200.7	53

SALT LAKE CITY, UTAH (T.).

[N. lat. 40° 46′.]

January				32	32	37	44	55	59	48	45	37	36	35			128.3	43
February			35	31	31	35	40	53	56	55	48	36	24	23			119.0	40
March		67	31	27	40	52	56	66	65	60	58	50	41	41	43		182.7	49
April		41	37	40	54	66	72	73	72	69	70	64	49	31	25		222.8	56
May	61	58	56	65	70	81	85	78	75	74	74	73	70	56	52	47	308.0	69
June	78	77	76	84	85	89	95	92	93	94	91	88	82	57	53	52	367.1	81
July	67	77	73	77	83	83	93	92	91	86	81	77	81	75	75	74	372.4	81
August	100	77	73	66	75	77	84	85	88	86	76	77	72	72	73	90	330.4	77
September		82	78	75	76	85	88	89	88	82	80	77	74	74	97		302.4	81
October		100	79	72	79	85	89	90	87	88	81	81	71	67			280.6	82
November			37	33	35	43	57	64	69	68	53	42	36				149.1	50
December				27	29	38	60	60	65	64	45	24	23				129.8	45
Sums	306	579	575	629	689	771	863	897	908	874	802	726	659	531	418	263	2,892.6	754
Percentage of possible				52	58	64	72	75	76	73	67	60	55				241.1	63

SAN DIEGO, CAL. (P.).

[N. lat. 32° 43′.]

January			50	52	63	71	73	75	72	81	77	71	59	48			219.0	69
February			46	46	46	56	72	79	78	81	87	75	60	61			207.1	67
March		44	53	54	60	70	76	75	77	81	81	77	73	62	47		260.0	70
April		32	29	36	56	77	86	89	90	90	93	92	89	80	83		290.1	74
May	20	32	29	33	48	73	82	87	92	92	92	87	81	74	67		297.3	69
June	6	7	10	14	29	46	69	80	84	84	88	87	84	75	54	51	246.0	57
July		3	6	9	17	40	59	72	74	84	88	85	82	77	66	73	239.0	55
August		7	7	18	39	67	80	85	90	94	95	93	89	76	65		274.7	66
September		7	10	13	34	58	77	79	85	84	90	91	84	66	56		283.4	63
October			31	35	43	54	66	78	82	84	85	86	81	73			233.6	66
November			65	69	77	74	78	77	84	79	80	81	73	58			240.5	77
December			64	64	69	73	74	78	81	80	78	71	71	100			229.6	74
Sums	26	132	400	443	583	759	892	954	989	1,014	1,034	996	926	890	438	124	2,970.3	807
Percentage of possible			33	37	49	63	74	80	82	85	86	83	77	73			247.5	67

SAN FRANCISCO, CAL. (T.).

[N. lat. 37° 48′.]

January				40	44	52	68	77	76	65	72	62	51	54			187.8	61
February			15	11	14	22	30	35	29	34	33	24	21	20			74.9	25
March		67	65	69	70	72	75	70	72	72	65	69	72	69	61		259.8	70
April		32	33	25	24	40	55	67	70	76	70	71	55	51	49		205.6	52
May	45	42	41	45	50	68	84	86	81	80	77	69	66	55	58	57	283.6	64
June	67	67	71	86	95	96	98	100	100	100	100	99	99	90	87	87	408.8	91
July	71	61	63	66	70	80	92	93	94	97	97	89	76	71	71	72	358.6	80
August		21	19	19	24	46	74	87	92	96	90	74	31	26	27	71	222.6	53
September		21	37	37	38	46	62	73	86	77	67	57	41	34			197.8	53
October			13	13	18	36	57	65	65	63	70	53	39	40			156.5	45
November			27	33	32	38	47	49	53	62	55	48	45				138.4	46
December				34	39	48	54	55	60	55	55	42	40				144.5	49
Sums	183	311	384	478	518	644	796	857	878	877	851	757	636	510	353	287	2,633.9	689
Percentage of possible				40	43	54	66	72	73	73	71	63	53				219.5	58

SANTA FE, N. MEX. (P.).

[N. lat. 35° 41′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	
January				65	74	82	84	81	78	82	80	73	58	44			234.3	75
February			69	79	88	90	89	85	89	88	84	81	73	51			250.9	82
March		91	59	66	74	83	85	88	83	85	80	74	68	57	70		280.7	75
April		79	86	93	97	96	98	100	98	96	86	91	88	75	58		354.2	90
May	72	78	87	89	90	93	95	89	82	75	76	65	58	62	63	71	343.8	79
June	100	100	100	97	100	100	100	100	96	88	85	88	82	87	82	78	406.7	93
July	61	77	91	92	94	88	91	88	76	72	70	73	69	69	55	57	348.6	78
August		74	77	81	85	87	87	80	73	67	70	70	70	67	43		306.9	78
September		72	77	83	86	88	92	90	90	90	90	94	81	74	79		319.9	86
October		33	74	84	88	89	90	87	82	88	89	90	85	75			299.2	86
November			64	66	81	87	80	86	82	83	84	73	56	50			238.8	77
December			100	72	81	88	88	89	86	82	83	78	68				247.7	82
Sums	233	604	884	967	1,038	1,071	1,079	1,063	1,015	996	977	950	856	701	450	206	3,631.7	976
Percentage of possible				81	87	89	90	89	85	83	81	79	71				302.6	81

SAULT STE. MARIE, MICH. (T.).

[N. lat. 46° 30′.]

January				7	7	21	32	40	39	32	23	20	20				71.6	25
February			5	10	18	49	78	83	72	70	63	48	37	34			151.7	52
March		38	46	47	55	69	71	66	66	66	60	59	50	43	47		215.5	38
April	12	17	21	35	55	57	63	67	64	62	62	57	53	40	34	25	203.1	50
May	15	16	22	34	44	61	66	71	75	76	76	75	62	40	22	22	234.8	51
June	27	27	25	35	49	56	58	67	73	71	64	59	59	50	30	27	231.3	49
July	8	10	15	30	48	59	62	70	80	76	81	71	63	55	25	23	238.0	50
August	27	32	36	44	61	61	59	67	73	70	73	75	74	51	27	17	249.1	57
September		14	12	26	48	48	58	72	65	61	48	41	20	17	13		167.6	42
October			11	10	25	42	51	55	54	44	32	26	20	39			117.5	35
November			4	9	15	18	21	21	27	28	17	5	2				48.6	17
December				3	5	24	45	48	43	31	23	14	15				73.7	27
Sums	89	154	197	292	430	565	664	727	731	687	622	550	475	369	198	114	1,992.5	513
Percentage of possible				24	36	47	55	61	61	66	52	46	40				166.0	43

SAVANNAH, GA. (T.).

[N. lat. 32° 05′.]

January			25	56	66	79	89	89	90	93	92	81	72	67			257.3	80
February			50	53	58	66	69	70	72	78	72	56	45	39			191.3	62
March		44	49	61	72	80	77	76	75	74	75	78	66	52	46		259.2	70
April		72	78	81	85	88	90	94	93	89	81	80	70	45	37		308.6	79
May	75	72	77	82	92	95	97	100	96	91	83	82	75	64	56		356.8	83
June	55	57	73	95	96	98	96	92	97	93	88	78	76	64	55	55	350.6	82
July	67	54	74	86	96	96	92	94	97	86	82	82	65	45	36	43	335.6	77
August		30	45	73	84	83	82	85	83	83	82	68	55	32	24		275.6	67
September		26	35	59	72	74	78	83	81	71	60	54	40	24	18		221.7	60
October		40	26	45	69	76	79	77	72	73	63	58	42	29			214.9	61
November			22	27	45	59	75	79	76	71	57	51	32	50			175.5	56
December			30	29	44	61	70	75	75	70	65	50	49	50			183.1	58
Sums	197	395	584	747	879	955	994	1,014	1,007	972	900	818	687	561	272	98	3,130.2	835
Percentage of possible			49	62	73	80	83	85	84	81	75	68	57	47			260.8	70

SEATTLE, WASH. (T.).

[N. lat. 47° 38′.]

January				9	11	25	35	44	47	41	30	20	15				82.4	30
February			8	9	16	30	48	50	52	50	38	27	14	10			93.7	33
March		22	10	13	25	49	67	68	67	69	48	36	28	22	29		156.6	42
April		9	13	23	44	67	79	86	89	83	87	77	50	26	10		222.0	54
May	6	9	17	31	45	61	67	71	76	79	64	59	35	27	17	9	207.2	44
June	13	20	38	50	62	73	90	94	94	89	79	75	61	50	21	13	276.6	58
July	33	33	41	48	55	63	69	75	83	86	86	82	67	60	40	39	292.7	61
August	65	54	50	55	60	72	81	88	94	93	85	82	79	70	66	79	323.9	73
September		61	50	52	58	65	73	75	79	78	76	69	66	64	71		253.2	67
October			26	19	26	28	38	47	53	51	50	43	30	51			127.6	38
November					6	14	22	22	21	20	16	10	10				40.4	15
December				4	6	13	21	26	27	16	11	4	2				39.1	15
Sums	117	208	253	313	414	560	690	741	782	755	669	584	457	380	254	140	2,115.4	530
Percentage of possible					35	47	58	62	65	63	56	49	38				176.3	44

SPOKANE, WASH. (T.).

[N. lat. 47° 40′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	11	13	16	26	39	42	45	43	39	44	.....	.....	.....	91.1	33
February	.....	.....	8	9	8	16	19	23	28	27	21	24	12	15	.....	.....	53.1	19
March	.....	50	22	21	37	41	46	51	55	52	58	45	30	23	27	.....	149.4	40
April	14	32	33	40	62	68	71	63	68	56	54	46	39	32	28	10	204.4	50
May	27	25	27	37	49	54	54	58	60	64	59	53	42	35	31	26	210.3	45
June	53	59	68	77	86	89	91	86	81	78	78	74	66	55	54	57	345.6	72
July	49	52	59	74	84	85	85	84	77	78	79	76	67	61	55	45	337.1	70
August	84	60	61	75	83	89	91	91	92	91	87	84	85	74	54	66	352.6	80
September	.....	37	40	59	73	78	83	79	82	75	76	74	65	55	56	.....	269.5	69
October	.....	.....	34	29	39	55	70	69	71	64	51	41	34	65	.....	.....	173.2	52
November	.....	.....	15	10	11	17	23	17	19	15	17	12	7	.....	.....	.....	42.8	15
December	.....	.....	.....	11	6	7	14	18	14	13	8	3	2	.....	.....	.....	27.3	10
Sums	227	315	367	453	551	615	673	678	689	658	631	571	493	415	305	204	2,266.4	555
Percentage of possible	.....	.....	.....	38	46	51	56	57	58	55	53	48	41	.....	.....	.....	188.9	46

SPRINGFIELD, ILL. (T.).

[N. Lat. 39° 48′.]

January	.....	.....	.....	36	40	54	65	72	76	74	55	59	57	33	.....	.....	178.8	59
February	.....	.....	16	35	38	46	60	66	74	68	57	45	50	52	.....	.....	159.8	53
March	.....	50	36	38	45	56	62	64	67	60	46	36	31	24	17	.....	174.1	47
April	.....	53	55	57	62	68	76	79	77	81	74	67	55	30	30	.....	250.4	63
May	40	35	41	53	62	72	79	73	77	72	73	68	67	59	48	58	278.3	62
June	44	43	44	58	75	78	80	78	76	71	68	49	38	36	34	28	258.8	58
July	72	71	70	72	79	86	90	90	85	88	84	76	70	61	58	26	348.4	76
August	.....	43	40	44	54	65	76	76	79	86	76	73	53	44	47	64	261.6	62
September	.....	51	40	41	52	57	67	69	69	65	58	45	41	37	52	.....	199.2	53
October	.....	.....	52	49	63	68	72	77	74	73	75	65	59	50	.....	.....	227.2	66
November	.....	.....	17	16	27	42	58	58	62	56	41	37	33	.....	.....	.....	125.9	42
December	.....	.....	.....	22	22	34	46	43	44	38	33	30	31	.....	.....	.....	101.6	35
Sums	156	346	411	521	619	726	826	845	860	832	740	650	585	426	286	176	2,564.1	676
Percentage of possible	.....	.....	.....	44	52	61	69	70	72	69	62	54	49	.....	.....	.....	213.7	56

TACOMA, WASH. (T.).

[N. lat. 47° 16′.]

January	.....	.....	.....	7	7	19	25	35	42	40	33	24	13	.....	.....	.....	72.1	26
February	.....	.....	.....	.....	14	32	42	50	54	54	37	30	15	3	.....	.....	92.1	32
March	.....	12	8	19	48	62	76	78	73	70	62	59	40	18	8	.....	189.7	51
April	.....	2	13	33	52	73	83	88	89	85	74	64	49	33	13	.....	224.8	55
May	6	9	25	37	64	75	72	74	82	85	80	73	36	35	22	6	240.5	51
June	.....	22	44	56	67	78	84	90	90	90	90	77	77	70	48	7	297.4	63
July	.....	8	41	51	65	74	82	86	88	93	95	88	79	75	54	13	306.9	64
August	.....	4	42	71	75	83	92	93	96	97	94	85	89	79	33	11	320.4	73
September	.....	9	14	42	53	60	66	72	71	76	73	67	60	27	.....	.....	205.2	54
October	.....	.....	.....	3	12	20	32	48	41	45	53	45	23	16	.....	.....	100.8	36
November	.....	.....	.....	.....	6	19	13	18	20	18	10	5	.....	.....	.....	.....	32.6	12
December	.....	.....	.....	.....	.....	7	7	10	13	10	5	.....	.....	.....	.....	.....	16.1	6
Sums	6	66	187	319	463	602	674	742	759	763	706	617	481	356	178	37	2,099.6	517
Percentage of possible	.....	.....	.....	.....	.....	50	56	62	63	64	59	.....	.....	.....	.....	.....	175.0	43

TAMPA, FLA. (T.).

[N. lat. 27° 57′.]

January	.....	.....	58	61	73	83	92	90	95	96	92	88	82	73	.....	.....	276.6	84
February	.....	.....	30	33	45	48	69	71	82	77	74	62	51	39	.....	.....	183.9	59
March	.....	67	47	58	73	76	87	92	91	87	84	85	75	49	48	.....	280.6	75
April	.....	60	66	85	92	96	97	96	97	98	97	96	92	76	71	.....	342.5	89
May	.....	57	64	75	82	92	94	95	95	88	84	76	70	60	48	.....	327.0	78
June	.....	63	65	65	76	83	82	84	85	84	73	59	60	53	40	.....	289.1	70
July	.....	68	68	64	65	77	72	76	77	65	62	45	40	31	32	.....	251.5	59
August	.....	51	55	63	77	85	79	72	66	56	59	43	32	20	16	.....	230.5	57
September	.....	51	50	50	68	75	72	73	57	55	45	37	35	25	8	.....	196.6	53
October	.....	44	20	24	42	60	65	65	65	61	50	43	29	29	.....	.....	166.8	47
November	.....	.....	35	34	37	55	63	60	59	52	38	26	24	28	.....	.....	141.9	44
December	.....	.....	51	55	55	71	83	82	80	82	78	63	59	64	.....	.....	226.8	70
Sums	.....	461	609	667	785	901	955	955	949	901	826	723	649	547	263	.....	2,913.3	785
Percentage of possible	.....	.....	51	56	66	75	79	80	79	75	69	60	54	46	.....	.....	242.8	66

TOLEDO, OHIO (T.).

[N. lat. 41° 40′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	33	44	56	67	57	53	58	46	42	22	15	.....	.....	143.7	49
February	.....	.....	52	32	31	44	67	70	71	61	55	32	22	19	.....	.....	140.0	47
March	.....	23	47	42	46	52	65	66	65	69	67	59	39	34	48	.....	201.5	54
April	.....	37	33	35	42	48	52	48	56	55	47	41	41	43	46	.....	179.4	45
May	53	49	49	61	74	75	73	74	69	75	79	73	67	45	36	40	286.8	63
June	27	27	30	40	50	65	74	79	84	80	71	63	55	46	32	27	248.6	54
July	55	55	53	62	69	77	85	79	81	78	78	70	59	40	34	34	297.0	64
August	67	57	56	61	63	75	77	80	78	76	69	65	65	55	51	46	282.2	66
September	.....	55	42	38	39	44	53	55	56	61	52	50	40	38	47	.....	178.0	48
October	.....	.....	36	37	33	51	54	55	54	53	49	43	38	39	.....	.....	156.5	46
November	.....	.....	32	25	31	35	44	43	42	45	39	39	36	.....	.....	.....	111.7	38
December	.....	.....	.....	18	24	25	27	26	26	26	18	19	21	.....	.....	.....	66.5	23
Sums	202	303	430	474	546	647	738	732	735	737	670	596	505	374	294	147	2,291.9	597
Percentage of possible	.....	.....	.....	40	46	54	62	61	61	62	56	50	42	.....	.....	.....	191.0	50

TOPEKA, KANS. (T.).

[N. lat. 39° 03′.]

January	.....	.....	.....	44	48	58	69	72	65	70	62	60	57	30	.....	.....	184.7	61
February	.....	.....	43	44	41	46	56	63	60	62	59	46	40	35	.....	.....	152.9	51
March	.....	58	49	49	55	65	64	70	73	70	64	52	47	32	39	.....	213.3	57
April	.....	60	55	56	64	70	76	74	76	71	69	68	66	60	49	.....	261.8	66
May	45	40	42	59	72	84	81	84	78	77	76	75	61	44	43	33	287.9	66
June	34	30	37	38	52	58	59	66	65	69	65	71	56	42	26	25	227.6	51
July	54	55	59	65	75	84	83	82	84	90	86	85	79	72	60	51	338.2	75
August	.....	30	38	52	60	66	78	82	82	82	80	83	78	68	54	73	285.1	67
September	.....	55	55	62	67	73	76	75	76	72	71	70	64	44	58	.....	249.2	67
October	.....	.....	72	72	80	84	86	84	85	83	79	73	55	50	.....	.....	266.0	77
November	.....	.....	16	23	24	26	28	43	46	47	43	36	31	.....	.....	.....	103.3	34
December[1]	.....	.....	.....	28	26	25	26	27	28	30	30	23	26	.....	.....	.....	58.5	27
Sums	133	328	466	592	664	739	782	822	818	823	784	742	660	477	329	182	2,628.5	698
Percentage of possible	.....	.....	.....	49	55	62	65	69	68	69	65	62	55	.....	.....	.....	219.0	58

VICKSBURG, MISS. (T.).

[N. lat. 32° 22′.]

January	.....	.....	.....	32	34	43	52	54	52	49	47	49	42	35	.....	.....	143.8	45
February	.....	.....	22	26	40	50	48	61	55	60	50	49	39	28	.....	.....	142.0	46
March	.....	56	38	36	49	60	68	72	72	64	65	60	50	26	24	.....	203.1	55
April	.....	36	40	59	71	76	81	89	94	91	85	80	69	63	53	.....	282.9	73
May	25	35	45	65	78	89	93	98	94	92	89	85	71	52	26	.....	312.2	73
June	67	64	72	85	91	96	97	98	98	97	99	98	92	90	75	66	379.5	89
July	67	48	58	79	85	94	98	93	87	90	85	79	64	51	26	27	317.5	73
August	.....	49	57	77	85	90	94	99	99	99	92	89	82	65	46	.....	338.1	82
September	.....	46	40	45	57	75	78	86	86	77	73	63	61	44	55	.....	241.1	65
October	.....	40	45	60	71	77	81	83	85	86	81	74	64	52	.....	.....	256.5	73
November	.....	.....	25	28	36	49	59	55	59	58	53	48	40	25	.....	.....	149.7	47
December	.....	.....	12	19	20	29	38	50	48	43	40	36	36	33	.....	.....	111.5	36
Sums	159	369	444	611	719	828	887	938	929	906	859	810	710	564	305	93	2,877.9	757
Percentage of possible	.....	.....	.....	51	60	69	74	78	78	76	72	68	59	47	.....	.....	239.8	63

WASHINGTON, D. C. (P.).

[N. lat. 38° 54′.]

January	.....	.....	.....	31	43	57	57	55	56	51	50	42	41	20	.....	.....	147.1	48
February	.....	.....	36	43	53	58	61	64	61	58	55	47	37	33	.....	.....	157.3	52
March	.....	58	42	48	58	60	65	67	73	74	67	65	67	68	78	.....	235.3	63
April	.....	56	50	53	56	57	63	62	59	64	63	57	47	54	57	.....	226.1	57
May	49	52	55	63	70	77	80	71	75	77	84	75	61	48	34	25	290.0	65
June	44	46	63	74	85	87	89	82	71	76	80	75	65	49	43	40	306.3	69
July	77	65	62	64	72	75	80	77	67	79	75	70	69	52	42	45	304.6	67
August	.....	74	75	80	80	79	80	85	79	74	76	75	77	65	59	64	321.0	76
September	.....	65	47	47	57	57	65	61	58	60	66	70	57	57	65	.....	218.4	58
October	.....	100	57	58	59	60	69	72	73	70	73	69	65	65	.....	.....	229.1	66
November	.....	.....	20	17	24	48	53	59	57	60	59	46	41	.....	.....	.....	138.2	46
December	.....	.....	.....	38	40	47	53	53	46	52	58	52	52	.....	.....	.....	144.4	49
Sums	170	506	507	616	697	762	815	808	775	795	805	743	679	511	378	174	2,717.8	716
Percentage of possible	.....	.....	.....	51	58	64	68	67	65	66	67	62	57	.....	.....	.....	226.5	60

[1] For 23 days only.

WILMINGTON, N. C. (T.).

[N. lat. 34° 14′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	60	59	58	73	76	70	72	65	46	36	25	.....	.....	191.4	61
February	.....	.....	32	36	39	52	59	69	64	66	66	52	42	41	.....	.....	163.3	53
March	.....	30	43	45	53	54	67	74	68	68	63	59	45	43	38	.....	210.9	57
April	.....	54	55	52	71	85	82	83	82	83	77	69	57	51	51	.....	270.8	69
May	64	59	58	61	75	92	91	90	93	92	85	73	70	64	65	75	329.8	76
June	47	50	49	56	73	84	90	82	84	83	75	77	64	61	59	48	301.3	70
July	58	64	62	60	69	75	75	75	74	68	68	62	50	38	35	32	273.7	62
August	.....	66	65	64	78	84	83	86	83	84	83	75	64	49	41	.....	301.9	73
September	.....	44	43	42	60	81	80	85	87	78	74	59	52	49	40	.....	241.4	65
October	.....	100	61	61	73	75	80	79	81	76	75	67	56	67	.....	.....	250.5	71
November	.....	.....	40	35	47	54	61	62	65	65	53	48	44	67	.....	.....	165.1	53
December	.....	.....	33	37	42	50	60	71	70	66	66	54	55	.....	.....	.....	175.9	57
Sums	169	467	541	609	739	844	901	932	921	901	850	741	635	555	332	155	2,876.0	767
Percentage of possible	.....	.....	.....	51	62	62	75	78	77	75	71	62	53	.....	.....	.....	239.7	64

YANKTON, S. DAK. (T.).

[N. lat. 42° 54′.]

January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	38	38	45	63	73	85	86	88	83	65	40	36	.....	.....	192.2	65
March	.....	50	43	43	55	73	86	89	87	80	77	56	40	28	9	.....	232.8	63
April	100	67	63	68	81	89	94	91	89	89	91	86	81	72	72	.....	327.7	81
May	25	23	23	33	47	60	73	79	82	80	73	63	59	53	34	28	247.5	54
June	33	33	40	50	62	74	78	80	82	82	88	77	60	54	36	20	280.9	61
July	25	23	44	63	68	75	82	89	89	87	84	78	75	68	39	33	306.7	66
August	11	13	21	44	62	59	66	74	76	73	68	61	60	47	21	47	231.5	54
September	.....	30	34	46	60	67	67	71	73	76	70	68	62	43	33	.....	226.2	60
October	.....	.....	33	39	53	60	63	71	71	70	66	61	53	54	.....	.....	200.2	59
November	.....	.....	12	32	33	35	40	42	45	47	42	29	19	.....	.....	.....	107.4	37
December	.....	.....	.....	11	13	17	28	29	36	39	25	13	14	.....	.....	.....	66.6	24
Sums	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Percentage of possible	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

EXCESSIVE RAINFALL, 1902.

The table following contains the record of excessive rainfall for the calendar year 1902. Similar records for the years 1896, 1897, 1898, 1899, 1900, and 1901, were published in the Annual Reports of the Chief of Weather Bureau, 1897–98, pages 275–280, 1899–1900, pages 300–309, 1900–1901, pages 281–287, and 1901–1902, pages 268–275, respectively. Previous to 1896 the published data consist of a record of maximum amounts of rainfall in 5 and 10 minute periods and also in 1 and 24 hours. The Annual Report for 1895–96 contains a summary of the records which up to that time had been made at the principal stations supplied with automatic gages.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902 IN WHICH THE RATE OF FALL EQUALED 0.25 INCH IN ANY 5 MINUTES OR 0.75 INCH IN ONE HOUR, AT STATIONS OF THE WEATHER BUREAU FURNISHED WITH SELF-REGISTERING GAGES.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
NEW ENGLAND STATES.																				
Portland, Me.:																				
July 15	3.05 p. m.	5.30 p. m.	0.82	3.17 p. m.	3.55 p. m.	T.	.08	.18	.29	.37	.39	.44	.56	.64	.66	.69	.76	.....	.....	.....
Aug. 11	7.00 a. m.	10.50 a. m.	1.00	9.10 a. m.	9.53 a. m.	.13	.06	.13	.25	.30	.35	.41	.51	.66	.79	.80	.....	.....	.....	.....
Sept. 29	1.20 p. m.	7.00 p. m.	2.08	3.00 p. m.	3.35 p. m.	.11	.12	.24	.49	.84	1.13	1.30	1.37	1.39	.....	.....	.....	.....	.....	.....
Boston, Mass.:																				
Aug. 11	1.00 p. m.	3.00 p. m.	.85	1.14 p. m.	1.45 p. m.	T.	.10	.26	.38	.50	.63	.70	.71	.....	.....	.....	.....	.....	.....	.....
Nantucket, Mass.:																				
June 22	2.15 a. m.	7.15 a. m.	1.59	2.50 a. m.	4.00 a. m.	.02	.14	.29	.46	.64	.71	.76	.81	.87	.95	1.04	1.23	1.38	.....	.....
New Haven, Conn.:																				
July 30	3.30 p. m.	5.45 p. m.	.94	3.35 p. m.	4.25 p. m.	T.	.15	.37	.39	.42	.46	.53	.60	.74	.80	.86	.90	.....	.....	.....
Sept. 9	12.03 p. m.	11.45 p. m.	1.96	4.05 p. m.	5.03 p. m.	.58	.05	.14	.19	.25	.32	.36	.37	.40	.63	.83	1.03	.....	.....	.....
MIDDLE ATLANTIC STATES.																				
Albany, N. Y.:																				
July 21	2.30 p. m.	3.50 p. m.	.82	3.05 p. m.	3.25 p. m.	.02	.09	.43	.67	.77	.78	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 21	2.42 p. m.	3.08 p. m.	.60	2.42 p. m.	2.53 p. m.	.00	.36	.57	.59	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Binghamton, N.Y.:																				
July 19	5.55 p. m.	8.35 p. m.	.68	7.42 p. m.	8.02 p. m.	.02	.14	.26	.52	.65	.66	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 1	2.30 p. m.	5.10 p. m.	.90	2.47 p. m.	3.07 p. m.	T.	.10	.25	.48	.63	.64	.69	.....	.....	.....	.....	.....	.....	.....	.....
New York, N. Y.:																				
June 21	2.48 p. m.	3.10 p. m.	.66	2.47 p. m.	3.07 p. m.	T.	.17	.33	.52	.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 28	6.12 p. m.	6.37 p. m.	.88	6.12 p. m.	6.27 p. m.	.00	.21	.45	.88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 6	3.00 a. m.	6.15 a. m.	1.05	5.14 a. m.	5.50 a. m.	.04	.05	.28	.61	.85	.87	.90	.96	.97	.....	.....	.....	.....	.....	.....
Harrisburg, Pa.:																				
Aug. 5	10.00 a. m.	11.40 p. m.	.89	10.30 p. m.	10.57 p. m.	.02	.20	.44	.50	.60	.71	.76	.80	.82	.86	.....	.....	.....	.....	.....
Philadelphia, Pa.:																				
Feb. 28	7.40 a. m.	4.15 p. m.	1.36	1.00 p. m.	1.30 p. m.	.12	.25	.57	.78	.85	.90	.97	1.01	1.04	1.07	1.08	1.11	.....	.....	.....
June 25–26	6.18 p. m.	D. N.	1.97	11.33 p. m.	12.35 p. m.	.68	.68	.14	.19	.27	.31	.38	.45	.65	1.01	1.24	1.29	.....	.....	.....
July 3	3.45 p. m.	6.15 p. m.	.77	4.40 p. m.	4.55 p. m.	.13	.19	.36	.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 24	7.12 a. m.	10.00 a. m.	1.21	7.20 a. m.	7.55 a. m.	T.	.24	.57	.66	.77	.83	.86	.91	.94	.....	.....	.....	.....	.....	.....
Oct. 6	12.05 a. m.	1.00 a. m.	.48	12.35 a. m.	12.50 a. m.	T.	.07	.33	.45	.48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Scranton, Pa.:																				
June 16	4.24 p. m.	8.10 p. m.	1.26	5.15 p. m.	5.40 p. m.	.26	.29	.56	.63	.67	.71	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 1	5.30 p. m.	7.32 p. m.	.98	5.30 p. m.	6.00 p. m.	.00	.35	.59	.68	.72	.76	.81	.83	.86	.....	.....	.....	.....	.....	.....
Aug. 19	2.46 p. m.	3.10 p. m.	.83	2.46 p. m.	3.00 p. m.	.00	.16	.59	.83	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Atlantic City, N.J.:																				
June 25–26	8.15 p. m.	3.00 a. m.	1.31	12.55 a. m.	2.00 a. m.	.35	.07	.14	.18	.23	.27	.31	.35	.37	.43	.58	.79	.92	.....	.....
July 3	5.35 p. m.	7.30 p. m.	1.46	5.35 p. m.	6.30 p. m.	.00	.16	.26	.28	.39	.46	.51	.68	.93	1.24	1.34	1.42	.....	.....	.....
Aug. 3	1.35 p. m.	3.15 p. m.	1.07	1.45 p. m.	2.15 p. m.	.05	.28	.57	.80	.86	.94	.99	1.01	.....	.....	.....	.....	.....	.....	.....
Aug. 4	2.56 p. m.	3.40 p. m.	1.13	2.56 p. m.	3.35 p. m.	.00	.12	.34	.53	.75	.97	1.01	1.06	1.13	.....	.....	.....	.....	.....	.....
Dec. 21–22	6.00 p. m.	D. N.	1.93	9.22 p. m.	10.35 p. m.	.21	.07	.17	.25	.31	.38	.49	.58	.69	.82	.97	1.10	1.42	.....	.....

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902, ETC.—Continued.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MIDDLE ATLANTIC STATES—continued.																				
Baltimore, Md.:																				
June 7	2.13 p. m.	4.55 p. m.	.68	2.13 p. m.	2.43 p. m.	.00	.13	.23	.35	.60	.75	.87								
July 20	1.27 p. m.	1.55 p. m.	.56	1.29 p. m.	1.42 p. m.	T.	.31	.50	.55	.56										
Aug. 5–6	11.40 p. m.	D. N.	1.43	11.46 p. m.	12.25 a. m.	.01	.10	.30	.49	.56	.64	.89	1.24	1.40						
Aug. 27	4.29 p. m.	5.30 p. m.	1.27	4.37 p. m.	5.02 p. m.	T.	.10	.47	.89	1.12	1.22	1.24	1.26							
Washington, D. C.:																				
May 19	4.16 p. m.	5.10 p. m.	.81	4.16 p. m.	4.40 p. m.	.00	.30	.50	.64	.75	.78									
May 25	5.27 p. m.	6.45 p. m.	.80	5.30 p. m.	5.50 p. m.	T.	.22	.60	.74	.79										
June 25–26	9.45 p. m.	2.20 a. m.	1.37	11.25 p. m.	12.10 a. m.	.21	.06	.10	.17	.37	.55	.66	.83	.89	.98	1.00	1.02			
July 18	4.10 p. m.	5.10 p. m.	.73	4.30 p. m.	4.55 p. m.	.01	.05	.20	.57	.65	.71	.72								
Aug. 5–6	11.40 p. m.	12.55 a. m.	.61	11.40 p. m.	11.59 p. m.	.00	.10	.25	.46	.50	.52									
Lynchburg, Va.:																				
Apr. 29	3.00 p. m.	3.45 p. m.	.94	3.25 p. m.	3.40 p. m.	.03	.12	.52	.87	.91										
Aug. 6	2.20 p. m.	3.25 p. m.	.85	2.50 p. m.	3.00 p. m.	.04	.20	.68	.70	.74										
Aug. 28	1.40 p. m.	3.25 p. m.	.98	1.50 p. m.	2.15 p. m.	T.	.20	.64	.78	.82	.90	.94	.95							
Norfolk, Va.:																				
Mar. 17	2.30 a. m.	8.15 p. m.	1.22	4.48 a. m.	5.45 a. m.	.34	.11	.22	.33	.38	.48	.55	.60	.67	.71	.74	.81			
May 19	12.53 p. m.	2.15 p. m.	1.39	12.56 p. m.	1.37 p. m.	T.	.19	.68	1.00	1.15	1.15	1.16	1.22	1.46	1.66					
July 10	5.36 p. m.	7.05 p. m.	1.02	6.20 p. m.	6.48 p. m.	.02	.08	.26	.43	.60	.81	.94	.97	1.00						
July 15	6.20 p. m.	7.30 p. m.	.77	6.34 p. m.	6.58 p. m.	.01	.17	.22	.37	.57	.73	.75								
Aug. 4	6.10 p. m.	8.05 p. m.	.90	6.14 p. m.	6.44 p. m.	T.	.21	.42	.59	.72	.82	.86	.87							
Aug. 16	6.00 a. m.	10.30 a. m.	1.35	8.15 a. m.	8.55 a. m.	.17	.09	.23	.45	.62	.74	.88	.94	1.02	1.05	1.07	1.11			
Sept. 2	7.42 p. m.	9.25 p. m.	.86	8.23 p. m.	8.37 p. m.	.03	.34	.70	.82											
Sept. 30 to Oct. 1	9.35 p. m.	1.30 a. m.	1.10	12.10 a. m.	12.45 a. m.	.24	.05	.10	.24	.40	.60	.70	.77	.80	.85					
Richmond, Va.:																				
June 16	1.25 p. m.	6.50 p. m.	2.59	2.40 p. m.	3.30 p. m.	.22	.11	.31	.41	.50	.61	.66	.70	.74	.81	.87				
				3.30 p. m.	4.45 p. m.	.....	.92	.97	1.04	1.16	1.33	1.41	1.47	1.53	1.60	1.68	1.83	2.09	2.20	
July 30	9.48 a. m.	1.35 p. m.	3.47	10.08 a. m.	10.53 a. m.	T.	.13	.27	.37	.44	.55	.63	.69	.73	.80	.85				
				10.53 a. m.	11.50 a. m.	.....	.90	1.03	1.24	1.46	1.66	2.02	2.45	2.66	2.92	2.97	3.15			
Aug. 15–16	9.17 p. m.	D. N.	.99	3.00 a. m.	3.40 a. m.	.23	.05	.17	.37	.48	.51	.61	.68	.69						
Sept. 3–4	7.16 p. m.	D. N.	1.61	9.30 p. m.	10.25 p. m.	.36	.18	.29	.52	.65	.74	.83	.93	1.02	1.05	1.10	1.25			
Oct. 11–12	5.58 p. m.	D. N.	1.63	7.08 p. m.	7.55 p. m.	.01	.08	.21	.33	.48	.67	.75	.81	1.01	1.09	1.12				
SOUTH ATLANTIC STATES.																				
Charlotte, N. C.:																				
May 14	6.33 p. m.	9.00 p. m.	1.47	6.37 p. m.	7.20 p. m.	T.	.26	.45	.65	.86	.93	1.01	1.07	1.17						
May 25	3.04 p. m.	4.15 p. m.	1.13	3.10 p. m.	3.42 p. m.	.01	.18	.43	.61	.88	1.06	1.11								
June 15–16	7.32 p. m.	9.10 a. m.	2.79	11.45 p. m.	1.00 a. m.	.63	.06	.14	.25	.31	.44	.56	.60	.69	.74	.83	.95	1.20	1.39	
July 8	4.27 p. m.	8.30 p. m.	1.88	4.27 p. m.	5.10 p. m.	.00	.16	.45	.72	1.07	1.37	1.51	1.63	1.75	1.79	1.81				
July 24	4.11 p. m.	5.45 p. m.	1.16	4.20 p. m.	4.45 p. m.	.03	.08	.38	.65	.89	1.07	1.10								
Aug. 14	4.05 a. m.	7.30 a. m.	1.29	4.20 a. m.	5.00 a. m.	.08	.09	.30	.46	.70	.87	.92	1.01	1.08	1.10					
Oct. 4–5	6.05 p. m.	8.55 a. m.	1.72	6.46 p. m.	7.10 p. m.	.11	.09	.23	.33	.36	.45	.49								
Nov. 17–18	6.03 p. m.	8.30 a. m.	1.94	10.00 p. m.	11.59 p. m.	.34	.05	.16	.21	.30	.41	.43	.45	.51	.55	.58	.61	.70	.99	1.24
Hatteras, N. C.:																				
Feb. 25	4.35 a. m.	8.15 a. m.	1.15	6.10 a. m.	7.00 a. m.	.15	.05	.14	.26	.35	.39	.50	.60	.66	.73	.80	.88			
July 10	9.00 p. m.	D. N.	1.38	9.09 p. m.	10.10 p. m.	T.	.08	.17	.37	.50	.58	.70	.82	1.02	1.19	1.22	1.32			
Aug. 16	4.46 a. m.	8.05 a. m.	.78	6.57 a. m.	7.25 a. m.	.13	.10	.32	.48	.53	.59	.62								
Sept. 13	5.16 p. m.	7.20 p. m.	.81	5.25 p. m.	6.15 p. m.	.03	.09	.14	.19	.27	.33	.41	.50	.57	.66	.74	.77			
Oct. 6	2.00 a. m.	6.00 a. m.	1.79	3.03 a. m.	4.10 a. m.	.15	.23	.40	.52	.65	.77	.83	.87	.98	.96	1.02	1.19	1.33		
Raleigh, N. C.:																				
Feb. 27–28	9.10 p. m.	9.00 a. m.	1.01	6.06 a. m.	6.30 a. m.	.20	.16	.35	.44	.49	.58	.54								
July 29	8.02 p. m.	D. N.	.89	8.05 p. m.	8.33 p. m.	T.	.18	.36	.46	.55	.72	.77	.79							
Aug. 10	7.10 p. m.	8.30 p. m.	.51	7.12 p. m.	7.25 p. m.	T.	.18	.45	.50											
Sept. 30	6.55 p. m.	10.00 p. m.	.96	8.30 p. m.	9.00 p. m.	.09	.28	.52	.59	.63	.74	.84								
Wilmington, N. C.:																				
Feb. 28	7.38 a. m.	10.00 a. m.	.91	8.08 a. m.	8.20 a. m.	T.	.29	.51	.69	.73	.76	.78								
July 30	1.10 p. m.	3.25 p. m.	.81	1.35 p. m.	1.55 p. m.	.11	.20	.39	.56	.64	.65									
Oct. 5–6	6.20 p. m.	D. N.	1.31	6.55 p. m.	7.25 p. m.	.05	.04	.12	.32	.45	.54	.60	.63							
Charleston, S. C.:																				
Mar. 16	1.19 p. m.	7.36 p. m.	2.07	2.17 p. m.	2.35 p. m.	.05	.16	.34	.44	.51										
				3.15 p. m.	4.15 p. m.	.69	.13	.32	.50	.69	.75	.85	.98	1.01	1.06	1.12	1.22			
July 12	1.52 a. m.	5.35 a. m.	2.61	2.13 a. m.	3.20 a. m.	.01	.21	.40	.61	.88	1.22	1.62	1.82	1.95	2.04	2.13	2.23	2.37		
July 24	3.25 a. m.	7.18 a. m.	.92	3.50 a. m.	4.10 a. m.	.07	.04	.14	.59	.72	.75	.76								
Sept. 8	8.36 a. m.	9.44 a. m.	.79	8.53 p. m.	9.20 a. m.	.04	.18	.53	.57	.59	.73	.75								
Sept. 27	10.13 p. m.	11.35 p. m.	.67	10.15 p. m.	10.50 p. m.	T.	.10	.21	.35	.51	.55	.60	.66							
Dec. 4	12.25 a. m.	11.26 a. m.	2.87	8.55 a. m.	10.10 a. m.	1.24	.05	.12	.24	.31	.39	.42	.56	.63	.72	.82	.94	1.46		
Columbia, S. C.:																				
Apr. 25	1.59 p. m.	2.58 p. m.	.82	2.20 p. m.	2.35 p. m.	.07	.12	.51	.74	.75										
July 7	5.03 p. m.	D. N.	2.17	5.10 p. m.	5.50 p. m.	.01	.19	.27	.34	.56	1.10	1.58	1.91	2.00	2.02					
Aug. 1	2.42 p. m.	4.00 p. m.	.91	2.42 p. m.	3.21 p. m.	.00	.03	.08	.22	.40	.43	.47	.61	.86	.89	.91				
Aug. 14–15	11.48 p. m.	12.43 a. m.	1.08	11.55 p. m.	12.20 a. m.	T.	.18	.36	.69	.89	1.00	1.02	1.06							
Aug. 15–16	10.53 p. m.	D. N.	.46	10.53 p. m.	11.10 p. m.	.00	.10	.31	.43	.45										
Sept. 8	2.42 p. m.	6.20 p. m.	1.43	2.47 p. m.	4.10 p. m.	T.	.20	.28	.30	.35	.57	.65	.71	.73	.74	.80	.96	1.23		
Dec. 12	10.07 a. m.	4.20 p. m.	1.51	3.10 p. m.	3.40 p. m.	.79	.06	.15	.30	.47	.58	.67	.69	.71						

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902, ETC.—Continued.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
SOUTH ATLANTIC STATES—cont'd.																				
Augusta, Ga.:																				
May 8	7.30 p. m.	11.30 p. m.	1.80	8.27 p. m.	9.20 p. m.	T.	.14	.34	.54	.74	.99	1.20	1.34	1.39	1.50	1.56	1.61	.....	.....	.....
June 7	3.15 p. m.	7.10 p. m.	.81	3.45 p. m.	4.02 p. m.	T.	.25	.45	.65	.69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 8	7.10 p. m.	D. N.	.66	7.27 p. m.	7.40 p. m.	.07	.31	.52	.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 10	1.25 p. m.	6.40 p. m.	.93	1.50 p. m.	2.03 p. m.	.08	.27	.67	.76	.78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Savannah, Ga.:																				
Apr. 30	3.58 p. m.	6.38 p. m.	1.32	4.09 p. m.	5.20 p. m.	.02	.12	.27	.40	.48	.60	.68	.78	.89	.93	.96	1.07	1.27	.....	.....
May 19	2.45 p. m.	5.30 p. m.	.77	3.22 p. m.	3.37 p. m.	T.	.15	.32	.51	.55	.56	.57	.58	.60	.64	.72	.....	.....	.....	.....
July 11–12	8.35 p. m.	D. N.	2.72	8.35 p. m.	9.32 p. m.	.00	.15	.64	.82	1.14	1.37	1.48	1.71	2.01	2.15	2.26	2.42	2.51	.....	.....
July 13	1.17 p. m.	5.20 p. m.	1.92	2.42 p. m.	3.47 p. m.	.10	.27	.45	.70	.98	1.13	1.23	1.37	1.43	1.44	1.52	1.61	1.76	.....	.....
July 21	6.33 p. m.	7.33 p. m.	.84	5.35 p. m.	6.00 p. m.	.04	.29	.48	.53	.62	.67	.68	.....	.....	.....	.....	.....	.....	.....	.....
July 27	D. N.	9.40 a. m.	1.29	5.58 a. m.	6.35 a. m.	.09	.16	.28	.37	.46	.54	.59	.62	.63	.....	.....	.....	.....	.....	.....
Aug. 11	4.18 p. m.	6.03 p. m.	1.75	4.20 p. m.	5.50 p. m.	T.	.18	.32	.34	.35	.39	.46	.50	.65	.88	1.01	1.21	1.57	1.75	.....
Aug. 28	1.13 p. m.	5.25 p. m.	1.61	2.40 p. m.	4.00 p. m.	.04	.06	.12	.21	.34	.39	.46	.62	.77	.88	.96	1.12	1.47	.....	.....
Sept. 9	3.58 p. m.	6.15 p. m.	1.09	4.20 p. m.	4.45 p. m.	.03	.05	.19	.41	.65	.85	.88	.90	.....	.....	.....	.....	.....	.....	.....
Dec. 3–4	4.13 p. m.	10.23 a. m.	2.44	7.45 a. m.	8.34 a. m.	1.04	.05	.16	.25	.88	.48	.61	.67	.76	1.10	.....	.....	.....	.....	.....
Jacksonville, Fla.:																				
Mar. 16	4.55 p. m.	11.59 p. m.	1.30	5.30 p. m.	6.15 p. m.	.01	.07	.38	.49	.56	.60	.62	.65	.71	.75	.79	.83	.....	.....	.....
Apr. 7	10.00 p. m.	11.30 p. m.	.86	10.30 p. m.	11.05 p. m.	T.	.19	.36	.49	.55	.63	.77	.84	.86	.....	.....	.....	.....	.....	.....
May 19	5.00 p. m.	6.10 p. m.	1.26	6.00 p. m.	5.25 p. m.	.00	.16	.58	.93	1.18	1.23	1.26	.....	.....	.....	.....	.....	.....	.....	.....
June 14	5.15 p. m.	6.48 p. m.	.49	5.22 p. m.	6.00 p. m.	T.	.30	.46	.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 13	1.15 p. m.	3.15 p. m.	1.41	1.28 p. m.	2.20 p. m.	T.	.34	.37	.39	.54	.70	.79	.96	1.08	1.18	1.37	1.39	.....	.....	.....
July 21	1.38 p. m.	3.30 p. m.	.94	1.50 p. m.	2.07 p. m.	T.	.20	.58	.84	.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 22	2.25 p. m.	5.55 p. m.	2.50	2.27 p. m.	3.02 p. m.	T.	.11	.19	.23	.45	.79	1.14	1.19	1.21	.....	.....	.....	.....	.....	.....
Aug. 3	5.40 p. m.	7.00 p. m.	.72	6.24 p. m.	6.43 p. m.	T.	.16	.31	.61	.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 23	5.33 p. m.	7.08 p. m.	1.82	5.43 p. m.	6.30 p. m.	T.	.04	.45	.97	1.20	1.33	1.38	1.44	1.55	1.68	1.74	1.80	.....	.....	.....
Sept. 6	8.12 p. m.	8.29 p. m.	1.02	8.17 p. m.	3.45 p. m.	T.	.08	.21	.37	.50	.57	.62	.65	.67	.71	.75	.....	.....	.....	.....
Sept. 13	2.55 p. m.	4.30 p. m.	1.19	3.02 p. m.	3.40 p. m.	T.	.05	.15	.27	.47	.92	1.10	1.17	1.18	.....	.....	.....	.....	.....	.....
Sept. 19	8.50 a. m.	4.45 p. m.	2.14	10.12 a. m.	11.30 a. m.	.43	.15	.34	.42	.50	.60	.69	.78	.92	1.07	1.11	1.32	1.53	.....	.....
Sept. 25	3.30 p. m.	7.10 p. m.	.09	4.17 p. m.	4.34 p. m.	T.	.16	.33	.49	.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 20–21	11.08 p. m.	1.35 a. m.	1.06	11.25 p. m.	12.10 a. m.	.04	.16	.39	.47	.49	.53	.58	.75	.85	.91	.94	.97	.....	.....	.....
Dec. 3–4	†12.35 a. m.	‡3.30 p. m.	5.72	†4.30 a. m.	‡4.52 a. m.	3.69	.09	.19	.39	.54	.71	.72	.....	.....	.....	.....	.....	.....	.....	.....
				†8.45 a. m.	‡9.20 a. m.	4.54	.17	.38	.43	.48	.54	.80	.93	.94	.....	.....	.....	.....	.....	.....
FLORIDA PENINSULA.																				
Jupiter, Fla.:																				
Feb. 20–21	12.01 p. m.	6.30 a. m.	2.84	1.13 p. m.	2.00 p. m.	.01	.11	.33	.48	.60	.66	.73	.77	.79	.85	.89	.95	.....	.....	.....
Feb. 26	1.35 a. m.	2.45 a. m.	.98	1.40 a. m.	2.10 a. m.	.01	.65	.76	.79	.86	.92	.97	.....	.....	.....	.....	.....	.....	.....	.....
May 27	5.24 p. m.	6.45 p. m.	.60	5.50 p. m.	6.05 p. m.	.02	.26	.46	.52	.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May 28	4.05 p. m.	5.55 p. m.	1.05	4.10 p. m.	4.45 p. m.	.02	.11	.24	.33	.34	.39	.65	.74	.....	.....	.....	.....	.....	.....	.....
June 13–14	3.00 p. m.	3.30 a. m.	2.04	6.50 p. m.	7.17 p. m.	.19	.11	.20	.55	.68	.84	.87	.....	.....	.....	.....	.....	.....	.....	.....
July 21–22	5.25 p. m.	5.40 a. m.	1.13	5.30 p. m.	5.45 p. m.	.01	.07	.34	.48	.49	.50	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 10	11.58 a. m.	12.30 p. m.	.62	12.06 p. m.	12.16 p. m.	.03	.33	.57	.58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 16–17	7.37 p. m.	1.30 a. m.	1.62	10.00 p. m.	10.55 p. m.	.29	.08	.30	.45	.53	.57	.68	.61	.75	.90	1.05	1.21	.....	.....	.....
Sept. 21	12.55 p. m.	1.30 p. m.	.90	1.03 p. m.	1.22 p. m.	.02	.28	.67	.81	.88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 20	6.35 p. m.	8.25 p. m.	1.94	6.50 p. m.	7.30 p. m.	.02	.09	.16	.43	.88	1.41	1.65	1.76	1.86	.....	.....	.....	.....	.....	.....
Oct. 22–23	10.50 p. m.	12.40 a. m.	2.80	10.55 p. m.	12.10 a. m.	.02	.08	.36	.66	1.01	1.24	1.45	1.83	2.10	2.12	2.22	2.42	2.76	.....	.....
Oct. 23	12.44 p. m.	8.25 p. m.	1.49	4.35 p. m.	5.15 p. m.	.51	.11	.20	.37	.48	.56	.62	.74	.83	.85	.....	.....	.....	.....	.....
Oct. 23–24	8.25 p. m.	10.00 a. m.	3.39	5.20 a. m.	6.35 a. m.	.60	.19	.33	.61	.89	1.16	1.35	1.52	1.70	1.77	1.90	2.07	2.47	.....	.....
Key West, Fla.:																				
Feb. 20–21	10.15 p. m.	4.00 a. m.	2.99	12.05 a. m.	1.30 a. m.	.05	.21	.55	.74	.97	1.15	1.34	1.55	1.78	1.95	2.09	2.38	2.75	2.88	.....
June 12–13	4.40 a. m.	10.50 a. m.	5.72	3.20 a. m.	3.50 a. m.	3.70	.06	.15	.32	.58	.94	1.16	1.18	.....	.....	.....	.....	.....	.....	.....
July 29	12.30 p. m.	1.35 p. m.	.81	12.45 p. m.	1.15 p. m.	.02	.13	.39	.49	.58	.65	.75	.77	.....	.....	.....	.....	.....	.....	.....
Aug. 26	11.30 a. m.	1.57 p. m.	1.38	12.02 p. m.	1.10 p. m.	.06	.16	.30	.43	.52	.60	.68	.79	.86	.92	.98	1.11	1.28	.....	.....
Sept. 20	1.30 p. m.	2.40 p. m.	.77	1.30 p. m.	1.50 p. m.	.00	.06	.42	.70	.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 19	3.20 a. m.	5.20 a. m.	1.54	3.50 a. m.	4.40 a. m.	.05	.07	.19	.36	.56	.78	.91	.92	.94	1.19	1.38	1.41	.....	.....	.....
	4.10 p. m.	5.50 p. m.	.88	4.35 p. m.	5.15 p. m.	.04	.11	.21	.35	.43	.50	.55	.62	.71	.75	.77	.82	.....	.....	.....
Nov. 13–14	4.15 p. m.	6.30 a. m.	3.54	§3.10 a. m.	4.00 a. m.	1.27	.07	.23	.30	.34	.39	.44	.49	.52	.56	.61	.....	.....	.....	.....
				§4.00 a. m.	6.00 a. m.	.....	.67	.71	.76	.85	.98	1.03	1.09	1.18	1.35	1.46	1.68	1.92	2.09	2.26
Dec. 11–12	11.00 p. m.	5.00 a. m.	1.12	3.55 a. m.	4.30 a. m.	.32	.07	.28	.43	.45	.51	.71	.80	.....	.....	.....	.....	.....	.....	.....
Tampa, Fla.:																				
Feb. 20	6.10 a. m.	6.45 p. m.	3.90	6.20 a. m.	7.15 a. m.	T.	.37	.64	.77	.86	.93	.99	1.09	1.16	1.22	1.31	1.38	.....	.....	.....
Mar. 17	10.29 a. m.	3.10 p. m.	.60	1.05 p. m.	1.12 p. m.	.01	.51	.57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May 30	2.27 p. m.	7.10 p. m.	3.12	3.05 p. m.	4.25 p. m.	.05	.07	.17	.38	.59	.85	1.18	1.61	1.94	2.17	2.40	2.70	2.93	3.01	.....
June 19	3.00 p. m.	4.55 p. m.	1.34	3.55 p. m.	4.35 p. m.	.32	.06	.28	.62	.69	.74	.85	.96	1.01	.....	.....	.....	.....	.....	.....
June 23	5.00 a. m.	11.25 a. m.	2.28	5.15 a. m.	6.35 a. m.	.01	.24	.32	.41	.52	.61	.74	.81	.88	.95	1.06	1.16	1.43	1.52	.....
July 13	10.55 a. m.	12.15 p. m.	1.38	11.17 a. m.	11.55 a. m.	.09	.17	.48	.79	.99	1.09	1.18	1.24	1.27	.....	.....	.....	.....	.....	.....
July 17	3.50 p. m.	8.05 p. m.	.68	7.22 p. m.	7.30 p. m.	.09	.35	.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 19	3.58 p. m.	4.45 p. m.	.69	3.58 p. m.	4.25 p. m.	.00	.30	.45	.54	.61	.65	.68	.....	.....	.....	.....	.....	.....	.....	.....
July 26	6.45 p. m.	11.55 p. m.	1.98	7.12 p. m.	7.45 p. m.	.12	.28	.47	.66	.92	1.27	1.46	1.55	.....	.....	.....	.....	.....	.....	.....
Aug. 6	11.25 a. m.	12.15 p. m.	1.10	11.33 a. m.	11.55 a. m.	.03	.20	.61	.78	.84	.87	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 15	2.45 p. m.	3.15 p. m.	.94	2.47 p. m.	3.07 p. m.	.01	.29	.66	.87	.93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 18	3.00 p. m.	9.20 p. m.	1.39	5.35 p. m.	5.55 p. m.	.28	.20	.37	.47	.54	.58	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 29	5.50 p. m.	9.30 p. m.	1.01	6.05 p. m.	6.30 p. m.	T.	.31	.51	.65	.75	.79	.82	.88	.....	.....	.....	.....	.....	.....	.....
Sept. 11	1.45 p. m.	3.30 p. m.	2.36	1.56 p. m.	3.00 p. m.	T.	.13	.35	.73	1.05	1.27	1.50	1.72	1.77	1.91	2.05	2.27	2.35	.....	.....
	5.17 p. m.	8.20 p. m.	1.11	5.17 p. m.	6.00 p. m.	.00	.05	.19	.31	.47	.60	.66	.75	.83	.86	.87	.....	.....	.....	.....
Sept. 16	3.55 p. m.	7.30 p. m.	1.42	4.00 p. m.	4.45 p. m.	.01	.15	.37	.52	.68	.87	1.01	1.08	1.16	1.25	1.28	1.32	.....	.....	.....
Sept. 17	5.45 p. m.	7.00 p. m.	.86	5.49 p. m.	6.20 p. m.	T.	.18	.49	.67	.73	.79	.83	.84	.....	.....	.....	.....	.....	.....	.....
Oct. 9	3.05 p. m.	4.30 p. m.	1.44	3.35 p. m.	4.10 p. m.	T.	.24	.62	.85	1.02	1.16	1.26	1.31	1.32	.....	.....	.....	.....	.....	.....

† Dec. 3.

‡ Dec. 4.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902, ETC.—Continued.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.														
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
EASTERN GULF STATES.																				
Atlanta, Ga.:																				
Mar. 12	3.25 p. m.	5.00 p. m.	.76	3.30 p. m.	3.50 p. m.	.02	.08	.22	.40	.53	.57	.61	.64	.66	....	....	....	....	....	....
May 1	1.12 p. m.	3.20 p. m.	.69	2.02 p. m.	2.25 p. m.	.02	.09	.30	.49	.55	.59	.63	....	....	....	....	....	....	....	....
July 2	5.32 p. m.	8.04 p. m.	1.29	5.33 p. m.	6.15 p. m.	T.	.16	.36	.49	.68	.82	.95	1.08	1.19	1.25	1.28	....	....	....	....
Sept. 3	1.28 p. m.	4.30 p. m.	.91	1.37 p. m.	1.55 p. m.	T.	.19	.48	.69	.75	.76	.79	....	....	....	....	....	....	....	....
Sept. 27	3.43 p. m.	5.45 p. m.	.97	3.43 p. m.	4.00 p. m.	.00	.59	.77	.88	.92	.93	....	....	....	....	....	....	....	....	....
Macon, Ga.:																				
Feb. 27–28	7.25 a. m.	12.45 a. m.	1.68	9.40 p. m.	10.15 p. m.	.48	.08	.22	.39	.46	.50	.65	.76	.79	.83	.85	....	....	....	....
Mar. 16	12.05 a. m.	12.30 p. m.	2.12	9.40 a. m.	10.05 a. m.	.98	.19	.27	.41	.79	.88	.90	....	....	....	....	....	....	....	....
June 18	6.15 p. m.	7.50 p. m.	1.56	6.15 p. m.	6.55 p. m.	.00	.03	.14	.28	.52	.88	1.14	1.33	1.43	1.44	....	....	....	....	....
July 24	2.20 p. m.	3.30 p. m.	2.00	2.20 p. m.	3.22 p. m.	.00	.09	.30	.55	.70	.84	.93	1.10	1.32	1.53	1.66	1.96	....	....	....
July 26	3.24 p. m.	6.45 p. m.	.81	3.24 p. m.	3.40 p. m.	.00	.28	.45	.54	.57	.62	....	....	....	....	....	....	....	....	....
Sept. 29	4.30 p. m.	6.10 p. m.	.61	4.50 p. m.	5.20 p. m.	T.	.06	.13	.27	.42	.47	.52	.56	.58	....	....	....	....	....	....
Sept. 30	5.10 p. m.	6.15 p. m.	.65	5.13 p. m.	5.24 p. m.	T.	.43	.63	.64	....	....	....	....	....	....	....	....	....	....	....
Pensacola, Fla.:																				
June 19	3.44 a. m.	4.35 a. m.	1.41	3.45 a. m.	4.15 a. m.	T.	.19	.44	.82	1.00	1.21	1.33	1.35	1.38	....	....	....	....	....	....
July 18	7.57 a. m.	8.26 a. m.	.72	8.03 a. m.	8.22 a. m.	T.	.16	.38	.58	.72	....	....	....	....	....	....	....	....	....	....
Aug. 2	2.54 a. m.	4.59 a. m.	1.13	3.01 a. m.	3.25 a. m.	T.	.08	.18	.37	.74	.84	.85	.87	.98	....	....	....	....	....	....
Sept. 4	12.30 a. m.	1.26 a. m.	.67	12.40 a. m.	12.55 a. m.	.02	.21	.52	.60	.62	....	....	....	....	....	....	....	....	....	....
Sept. 8–9	10.55 p. m.	D. N.	.99	11.09 p. m.	11.35 p. m.	.01	.13	.37	.61	.82	.91	.93	....	....	....	....	....	....	....	....
Sept. 26	1.21 p. m.	1.59 p. m.	.86	1.31 p. m.	1.55 p. m.	.02	.08	.19	.49	.72	.83	....	....	....	....	....	....	....	....	....
Oct. 3	7.24 p. m.	8.13 p. m.	.76	7.32 p. m.	7.52 p. m.	.03	.18	.46	.59	.71	....	....	....	....	....	....	....	....	....	....
Montgomery, Ala.:																				
Feb. 14	6.30 p. m.	11.30 p. m.	.96	7.30 p. m.	8.30 p. m.	.03	.04	.24	.37	.44	.49	.52	.56	.60	.64	.67	.85	....	....	....
Feb. 27	7.35 a. m.	6.42 p. m.	4.50	9.25 a. m.	9.45 a. m.	.40	.07	.21	.58	.63	.66	.68	....	....	....	....	....	....	....	....
Mar. 16	5.16 a. m.	9.26 a. m.	1.59	6.20 a. m.	6.55 a. m.	.13	.15	.33	.54	.62	.77	.94	1.04	....	....	....	....	....	....	....
May 15	12.45 a. m.	7.50 a. m.	.75	12.58 a. m.	1.33 a. m.	T.	.05	.15	.19	.42	.48	.55	.61	.62	....	....	....	....	....	....
May 15	2.18 p. m.	7.10 p. m.	1.73	2.26 p. m.	3.40 p. m.	T.	.25	.48	.64	.80	.87	.92	.93	.96	1.00	1.03	1.09	1.34	....	....
May 31	3.47 p. m.	5.02 p. m.	1.56	3.47 p. m.	4.34 p. m.	.00	.12	.21	.36	.55	.82	1.08	1.13	1.27	1.48	1.53	1.56	....	....	....
June 18	5.06 p. m.	7.55 p. m.	.93	5.19 p. m.	5.51 p. m.	T.	.18	.29	.33	.50	.59	.81	.82	....	....	....	....	....	....	....
Sept. 2	4.28 p. m.	7.20 p. m.	.53	4.58 p. m.	5.17 p. m.	T.	.10	.25	.35	.40	....	....	....	....	....	....	....	....	....	....
Sept. 7	7.50 p. m.	8.18 p. m.	.56	7.50 p. m.	8.05 p. m.	.00	.12	.41	.53	.55	.56	....	....	....	....	....	....	....	....	....
Sept. 24	1.12 p. m.	3.30 p. m.	.77	1.18 p. m.	1.28 p. m.	.02	.20	.45	.47	.49	.50	....	....	....	....	....	....	....	....	....
Oct. 10–11	9.04 a. m.	8.30 a. m.	2.52	12.20 a. m.	12.45 a. m.	1.55	.11	.16	.34	.54	.61	.63	....	....	....	....	....	....	....	....
Nov. 25	D. N.	4.30 p. m.	1.03	8.25 a. m.	8.56 a. m.	.29	.16	.24	.30	.37	.44	.51	.54	1.57	....	....	....	....	....	....
Dec. 15–16	4.56 p. m.	9.30 a. m.	3.55	6.00 p. m.	7.00 p. m.	.10	.05	.13	.19	.25	.29	.29	.30	.35	.72	.86	1.03	1.10	....	....
				2.05 a. m.	2.35 a. m.	2.90	.10	.18	.29	.35	.45	.60	.62	....	....	....	....	....	....	....
Meridian, Miss.:																				
Mar. 26–27	7.35 p. m.	D. N.	2.77	7.38 p. m.	9.10 p. m.	T.	.24	.41	.50	.58	.64	.73	.81	.84	.91	.95	1.11	1.24	1.54	1.72
Mar. 27–28	8.40 p. m.	D. N.	1.02	9.30 p. m.	9.55 p. m.	.07	.08	.22	.51	.81	.90	....	....	....	....	....	....	....	....	....
Apr. 7	6.30 a. m.	11.10 a. m.	2.02	6.45 a. m.	7.45 a. m.	.01	.05	.15	.22	.27	.32	.33	.36	.43	.53	.66	.80	.97	1.11	1.25
July 14–15	11.50 p. m.	D. N.	1.11	12.33 a. m.	1.00 a. m.	.11	.15	.37	.61	.62	.71	.76	.77	....	....	....	....	....	....	....
Aug. 28	4.00 a. m.	11.30 a. m.	1.52	8.20 a. m.	9.00 a. m.	.44	.09	.17	.20	.26	.44	.65	.80	.90	.92	.96	1.00	....	....	....
Sept. 2	1.45 p. m.	2.50 p. m.	.69	2.20 p. m.	2.40 p. m.	.03	.13	....	.27	.42	.64	.66	.68	....	....	....	....	....	....	....
Sept. 3	D. N.	1.00 p. m.	2.33	12.05 p. m.	12.40 p. m.	1.22	.04	.16	.41	.68	.83	1.04	1.08	....	....	....	....	....	....	....
Sept. 23	3.54 p. m.	4.32 p. m.	1.12	4.07 p. m.	4.30 p. m.	.02	.13	.38	.60	.99	1.10	....	....	....	....	....	....	....	....	....
Sept. 27	10.15 a. m.	12.05 p. m.	.86	10.25 a. m.	10.45 a. m.	T.	.15	.37	.60	.67	.69	....	....	....	....	....	....	....	....	....
Oct. 3	2.37 p. m.	5.00 p. m.	1.10	2.38 p. m.	3.10 p. m.	T.	.07	.35	.54	.68	.94	1.01	....	....	....	....	....	....	....	....
Oct. 10–11	7.10 a. m.	D. N.	2.74	6.00 p. m.	7.15 p. m.	1.51	.07	.10	.16	.24	.34	.42	.45	.50	.54	.58	.66	.86	.98	....
Nov. 24–25	11.00 p. m.	D. N.	1.40	2.05 a. m.	2.45 a. m.	.17	.10	.30	.49	.54	.58	.65	.75	.82	.84	.87	.90	....	....	....
Vicksburg, Miss.:																				
Mar. 26	2.00 p. m.	9.00 p. m.	1.12	6.57 p. m.	7.15 p. m.	.25	.25	.69	.70	.73	....	....	....	....	....	....	....	....	....	....
Mar. 27	12.15 a. m.	10.40 p. m.	6.40	6.00 a. m.	6.50 a. m.	1.03	.24	.64	.71	.80	1.06	1.25	1.53	1.83	1.86	1.97	....	....	....	....
				6.50 a. m.	7.40 a. m.	....	2.16	2.50	2.75	2.77	2.78	2.94	3.11	3.14	3.16	3.22	....	....	....	....
				7.40 a. m.	8.50 a. m.	....	3.30	3.33	3.37	3.43	3.64	3.77	3.83	3.97	4.09	4.14	4.17	4.53	....	....
Mar. 28	2.00 a. m.	9.30 a. m.	1.10	4.47 a. m.	5.20 a. m.	.04	.18	.27	.41	.58	.69	.76	.86	.87	....	....	....	....	....	....
May 19	1.10 a. m.	5.15 a. m.	1.70	1.10 a. m.	2.00 a. m.	.06	.24	.40	.51	.61	.80	.86	1.01	1.17	1.22	1.30	1.34	....	....	....
July 14–15	8.10 p. m.	D. N.	1.66	9.38 p. m.	10.55 p. m.	.07	.07	.14	.23	.36	.62	.77	.94	.98	.97	.99	1.06	1.37	....	....
July 31	5.08 p. m.	6.08 p. m.	1.84	5.33 p. m.	5.57 p. m.	.02	.22	.62	1.06	1.24	1.30	1.32	....	....	....	....	....	....	....	....
Sept. 2	10.37 a. m.	2.03 p. m.	1.22	12.12 p. m.	12.56 p. m.	.13	.10	.21	.27	.41	.55	.67	.84	.98	1.01	1.03	....	....	....	....
Sept. 23	8.15 a. m.	10.30 a. m.	1.41	8.34 a. m.	9.05 a. m.	.01	.06	.21	.35	.56	.83	1.14	1.17	1.20	....	....	....	....	....	....
Sept. 24	5.40 p. m.	6.25 p. m.	.49	6.06 p. m.	6.18 p. m.	.04	.16	.42	.48	....	....	....	....	....	....	....	....	....	....	....
Oct. 13	2.10 p. m.	2.53 p. m.	.65	2.20 p. m.	2.50 p. m.	.01	.04	.13	.31	.38	.56	.64	....	....	....	....	....	....	....	....
Nov. 24–25	9.23 p. m.	8.10 a. m.	1.49	9.35 p. m.	10.20 p. m.	.02	.07	.16	.23	.27	.48	.69	.80	.87	.93	.95	.98	....	....	....
Dec. 15	7.25 a. m.	1.40 p. m.	1.91	7.40 a. m.	8.05 a. m.	T.	.31	.78	.96	1.02	1.08	1.12	1.14	....	....	....	....	....	....	....
New Orleans, La.:																				
Feb. 24	12.50 a. m.	6.00 a. m.	1.00	1.24 a. m.	1.50 a. m.	.02	.34	.42	.58	.66	.70	.72	.73	....	....	....	....	....	....	....
Mar. 14	D. N.	9.15 p. m.	3.11	2.00 p. m.	2.35 p. m.	1.53	.68	.19	.37	.55	.61	.76	.81	....	....	....	....	....	....	....
July 5	10.40 a. m.	11.02 a. m.	.46	10.43 a. m.	10.55 a. m.	T.	.25	.41	.45	.56	.65	.91	1.04	1.08	....	....	....	....	....	....
July 12	4.44 p. m.	5.25 p. m.	1.09	4.50 p. m.	5.10 p. m.	T.	.27	.65	.91	1.05	1.08	....	....	....	....	....	....	....	....	....
July 15	2.27 p. m.	3.47 p. m.	2.00	2.38 p. m.	3.10 p. m.	.05	.34	.70	1.21	1.57	1.78	1.89	1.93	1.94	....	....	....	....	....	....
Aug. 3	12.46 p. m.	3.20 p. m.	1.36	12.47 p. m.	1.25 p. m.	T.	.31	.55	.67	.82	1.00	1.17	1.25	1.30	1.32	....	....	....	....	....
Sept. 3	1.20 p. m.	2.30 p. m.	.87	1.20 p. m.	1.40 p. m.	.00	.15	.32	.75	.82	.85	....	....	....	....	....	....	....	....	....
Sept. 22	12.16 p. m.	2.15 p. m.	1.12	12.36 p. m.	1.40 p. m.	T.	.10	.17	.26	.29	.40	.52	.54	.57	.59	.66	1.02	1.12	....	....
Sept. 24	8.20 a. m.	11.50 a. m.	1.99	8.35 a. m.	9.05 a. m.	.01	.11	.22	.28	.51	.62	.72	.75	.77	.81	....	....	....	....	....
				10.05 a. m.	10.35 a. m.	1.16	.12	.27	.36	.53	.70	.76	....	....	....	....	....	....	....	....
Oct. 14	2.55 a. m.	3.15 a. m.	.47	2.59 a. m.	3.12 a. m.	T.	.16	.39	.47	....	....	....	....	....	....	....	....	....	....	....
Nov. 25	4.30 a. m.	5.45 a. m.	1.05	4.45 a. m.	5.20 a. m.	.04	.20	.33	.47	.71	.93	1.02	1.04	....	....	....	....	....	....	....
Dec. 15	3.38 p. m.	5.55 p. m.	1.32	4.25 p. m.	5.45 p. m.	.06	.08	.12	.13	.17	.26	.33	.46	.55	.58	.65	.97	1.28	....	....

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902, ETC.—Continued.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.														
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
WEST GULF STATES.																				
Shreveport, La.:																				
June 27–28	1.08 p. m.	9.45 a. m.	8.00	2.35 a. m.	3.25 a. m.	2.35	.19	.32	.44	.67	.85	1.00	1.16	1.41	1.78	1.95				
				3.25 a. m.	5.10 a. m.		2.12	2.23	2.32	2.36	2.38	2.50	2.63	2.80	2.97	3.03	3.09	3.48	3.69	3.86
July 23	6.42 p. m.	10.20 p. m.	1.63	6.50 p. m.	7.45 p. m.	.05	.27	.55	.79	.98	1.01	1.03	1.05	1.17	1.33	1.42	1.48			
July 30	4.15 p. m.	7.45 p. m.	1.62	5.25 p. m.	6.15 p. m.	.06	.12	.21	.37	.61	.84	.91	1.01	1.14	1.37	1.54				
July 31	5.30 a. m.	11.30 a. m.	1.58	6.25 a. m.	6.40 a. m.	.25	.26	.57	.72	.74										
Sept. 1	6.55 p. m.	11.30 p. m.	1.16	6.55 p. m.	7.30 p. m.	.00	.19	.39	.58	.72	.80	.90	.95	.97						
Oct. 2–3	10.35 p. m.	10.40 a. m.	3.03	10.35 p. m.	11.00 p. m.	.00	.19	.47	.64	.68	.72	.73	.76							
Nov. 24	11.16 a. m.	5.00 p. m.	1.68	3.45 p. m.	4.20 p. m.	.56	.11	.22	.44	.69	.79	.91	1.01							
Dec. 14–15	8.30 p. m.	4.30 a. m.	1.32	1.35 a. m.	1.55 a. m.	.30	.09	.39	.48	.59	.62	.64	.68							
Fort Smith, Ark.:																				
Mar. 26	1.42 a. m.	4.57 a. m.	1.47	2.35 a. m.	3.35 a. m.	.11	.09	.11	.20	.25	.40	.55	.74	.94	1.09	1.13	1.28			
Sept. 29	7.47 p. m.	9.06 p. m.	.66	8.00 p. m.	8.15 p. m.	.06	.22	.44	.51	.54	.56	.58								
Little Rock, Ark.:																				
May 15	4.00 p. m.	7.25 p. m.	1.27	4.20 p. m.	5.00 p. m.	T.	.18	.40	.55	.68	.72	.77	.81	.85						
June 28–29	9.45 p. m.	4.30 a. m.	2.65	12.30 a. m.	1.30 a. m.	.04	.11	.12	.15	.16	.19	.34	.51	.67	.69	.73	.85			
				3.10 a. m.	3.35 a. m.	.98	.11	.26	.34	.46	.59	.63	.66	.69	.72	.75	.77			
July 30–31	3.55 p. m.	4.15 p. m.	6.23	2.20 a. m.	3.50 a. m.	1.74	.05	.09	.20	.35	.50	.66	.74	.77	.80	.83	.93	1.26	1.47	
Sept. 1	1.55 p. m.	4.20 p. m.	.97	2.05 p. m.	2.30 p. m.	.05	.23	.34	.48	.60	.67	.69	.71	.73						
Sept. 22–23	10.25 p. m.	11.15 a. m.	1.65	10.35 p. m.	12.20 a. m.	.02	.12	.27	.36	.41	.51	.59	.68	.70	.72	.73	.81	.99	1.17	
Oct. 2–3	8.15 p. m.	12.25 p. m.	1.81	9.05 p. m.	9.45 p. m.	.15	.15	.27	.31	.42	.49	.56	.62	.66	.69	.71	.75			
Corpus Christi, Tex.:																				
May 5	4.00 a. m.	7.30 a. m.	1.57	4.45 a. m.	5.40 a. m.	.01	.12	.30	.58	.80	.95	1.08	1.12	1.19	1.25	1.29	1.38	1.46		
May 18	5.45 p. m.	6.50 p. m.	.97	5.47 p. m.	6.15 p. m.	T.	.16	.17	.37	.70	.83	.93	.95	.97						
Sept. 23	8.50 a. m.	3.30 p. m.	2.49	8.59 a. m.	10.10 a. m.	.03	.21	.56	.80	.94	1.07	1.28	1.36	1.42	1.50	1.58	1.70	1.88	2.13	
Nov. 14	2.40 a. m.	5.45 a. m.	.88	3.27 a. m.	4.00 a. m.	.07	.12	.16	.25	.53	.64	.68	.70							
Nov. 16	2.20 p. m.	8.30 p. m.	1.66	3.18 p. m.	4.25 p. m.	.32	.22	.41	.46	.55	.64	.68	.69	.73	.81	.93	1.12	1.26		
Fort Worth, Tex.:																				
Apr. 6	6.30 p. m.	8.30 p. m.	1.12	6.35 p. m.	7.10 p. m.	.02	.10	.25	.34	.40	.53	.66	.77	.79						
May 13	4.03 p. m.	6.50 p. m.	1.12	4.20 p. m.	5.10 p. m.	.06	.06	.18	.28	.44	.52	.62	.67	.77	.86	.95	1.00			
July 23	6.45 p. m.	10.30 p. m.	.87	6.55 p. m.	7.25 p. m.	.03	.08	.27	.49	.68	.73	.78								
July 24–25	9.00 p. m.	7.50 a. m.	1.86	4.05 a. m.	4.50 a. m.	.64	.20	.31	.38	.37	.44	.57	.65	.70	.75	.77	.81			
Sept. 22	9.30 a. m.	11.05 a. m.	1.05	9.55 a. m.	10.45 a. m.	.08	.16	.27	.40	.44	.50	.56	.74	.79	.87	.95				
Nov. 15–16	7.45 p. m.	5.00 a. m.	3.24	8.10 p. m.	8.56 p. m.	.03	.06	.12	.21	.29	.37	.58	.69	.85	.99	1.00	1.02			
				12.01 a. m.	1.00 a. m.	1.07	.12	.15	.18	.21	.29	.38	.54	.62	.78	.92	1.35	1.44	1.53	
Nov. 24	7.15 a. m.	2.15 p. m.	1.62	8.00 a. m.	8.25 a. m.	.02	.25	.30	.36	.45	.50	.53	.55							
Galveston, Tex.:																				
Apr. 13	4.20 a. m.	6.05 a. m.	.80	4.22 a. m.	4.45 a. m.	T.	.19	.39	.48	.56	.59	.61	.62							
	7.00 p. m.	9.50 p. m.	.94	7.50 p. m.	8.25 p. m.	.12	.07	.13	.15	.19	.43	.64	.75	.80	.83					
May 8	2.20 a. m.	5.40 a. m.	1.00	2.25 a. m.	2.45 a. m.	.02	.22	.52	.65	.84	.86									
June 21	6.15 p. m.	7.20 p. m.	1.36	6.20 p. m.	6.55 p. m.	T.	.26	.50	.78	.97	1.13	1.24	1.30	1.33						
June 27	D. N.	5.20 p. m.	5.54	1.40 p. m.	2.30 p. m.	1.93	.08	.45	.47	.49	.57	.73	.78	.85	.89	1.04				
				2.30 p. m.	3.20 p. m.		1.12	1.22	1.29	1.37	1.72	1.97	2.05	2.27	2.50	2.78				
				3.20 p. m.	3.45 p. m.		3.11	3.33	3.41	3.50	3.56									
July 25	12.01 p. m.	10.30 p. m.	1.06	2.35 p. m.	3.25 p. m.	.07	.04	.10	.18	.24	.30	.37	.50	.61	.62	.70	.73			
Sept. 17–18	11.20 p. m.	1.30 a. m.	.96	11.35 p. m.	12.10 a. m.	.06	.10	.20	.35	.55	.67	.70	.75	.76						
Sept. 27	12.05 a. m.	7.40 a. m.	1.10	12.10 a. m.	12.35 a. m.	T.	.18	.40	.59	.67	.72	.76	.78	.80						
Sept. 30	5.50 a. m.	9.00 a. m.	1.31	5.55 a. m.	6.57 a. m.	T.	.10	.24	.38	.56	.59	.63	.67	.71	.82	.88	1.05			
Oct. 3	7.50 a. m.	10.05 a. m.	.90	8.09 a. m.	8.30 a. m.	.03	.15	.37	.51	.62	.64	.68								
Nov. 3–4	6.30 p. m.	D. N.	1.94	7.25 p. m.	7.45 p. m.	.24	.09	.29	.42	.52	.55	.57	.60							
Dec. 15	1.10 a. m.	7.35 a. m.	.73	5.50 a. m.	6.20 a. m.	.17	.18	.32	.40	.42	.45	.50	.53							
Palestine, Tex.:																				
May 18	5.15 p. m.	9.50 p. m.	.91	5.17 p. m.	5.50 p. m.	T.	.09	.27	.45	.57	.60	.67	.72	.78						
July 15	1.46 p. m.	3.30 p. m.	1.00	1.52 p. m.	2.40 p. m.	.01	.05	.06	.08	.14	.17	.28	.57	.69	.75	.80				
July 24–25	2.45 p. m.	12.20 p. m.	1.40	2.50 p. m.	3.05 p. m.	T.	.16	.44	.68	.69	.70									
July 25–26	8.25 p. m.	12.25 p. m.	3.77	5.31 a. m.	6.55 a. m.	1.54	.05	.12	.19	.36	.56	.82	.97	1.15	1.29	1.45	1.57	1.83		
Sept. 17	4.06 p. m.	5.45 p. m.	.83	4.22 p. m.	5.10 p. m.	.01	.14	.19	.25	.36	.47	.55	.63	.72	.76	.80				
Sept. 22–23	11.07 p. m.	D. N.	1.80	11.20 p. m.	11.45 p. m.	.03	.39	.76	1.04	1.23	1.33	1.34								
Sept. 29	9.20 p. m.	11.45 p. m.	.74	9.40 p. m.	10.05 p. m.	.01	.04	.23	.43	.56	.63	.66	.67							
Nov. 16	5.25 a. m.	9.30 a. m.	1.94	5.30 a. m.	6.20 a. m.	.02	.07	.17	.25	.33	.41	.44	.50	.58	.66	.84				
				6.20 a. m.	6.50 a. m.		.99	1.11	1.18	1.23	1.29	1.34	1.37	1.40	1.43					
Taylor, Tex.:																				
Apr. 12–13	11.18 p. m.	D. N.	1.03	12.22 a. m.	12.50 a. m.	.14	.27	.40	.49	.54	.64	.67	.69	.73	.75					
July 7	5.46 p. m.	6.36 p. m.	1.09	5.49 p. m.	6.20 p. m.	T.	.22	.44	.63	.79	.95	1.06	1.08							
July 12	3.10 p. m.	5.45 p. m.	1.31	3.18 p. m.	4.22 p. m.	T.	.23	.40	.57	.85	.88	.92	.93	1.01	1.10	1.18	1.30			
July 28–29	8.50 p. m.	12.35 p. m.	3.23	12.52 a. m.	2.50 a. m.	.51	.08	.12	.28	.32	.40	.45	.50	.51	.52	.52	.61	.83	1.37	1.72
Sept. 4	5.51 p. m.	10.32 p. m.	3.56	5.53 p. m.	7.17 p. m.	T.	.23	.44	.74	.83	1.13	1.35	1.51	1.90	2.18	2.47	2.97	3.40	3.51	
Sept. 6	8.55 a. m.	12.20 p. m.	1.00	9.27 a. m.	10.05 a. m.	.02	.14	.28	.40	.55	.71	.84	.91	.94	.95					
Sept. 17	9.44 p. m.	11.20 p. m.	1.49	9.56 p. m.	10.40 p. m.	T.	.07	.17	.29	.49	.69	.90	1.17	1.38	1.48	1.49				
Oct. 22–23	11.25 p. m.	5.50 a. m.	.78	2.13 a. m.	2.40 a. m.	.05	.12	.22	.31	.44	.50	.54	.55							
Nov. 22	12.25 a. m.	11.45 a. m.	1.68	8.15 a. m.	9.10 a. m.	.15	.08	.40	.58	.74	.83	.87	.94	1.01	1.07	1.15	1.23			
OHIO VALLEY AND TENNESSEE.																				
Chattanooga, Tenn.																				
Mar. 28	3.25 p. m.	11.59 p. m.	1.39	7.15 p. m.	7.40 p. m.	.08	.04	.27	.64	.82	.90	.92								
Sept. 24	11.52 a. m.	5.52 p. m.	1.46	11.53 a. m.	11.59 a. m.	T.	.42	.50	.51											
Nov. 24–25	2.00 p. m.	6.55 a. m.	1.99	1.54 a. m.	2.52 a. m.	.95	.03	.05	.10	.16	.25	.36	.46	.57	.65	.70	.77			

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902, ETC.—Continued.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
OHIO VALLEY AND TENNESSEE—continued.																				
Knoxville, Tenn.:																				
June 29	5.15 p. m.	9.05 p. m.	2.11	6.25 p. m.	7.00 p. m.	.57	.17	.38	.58	.70	.86	1.22	1.37	1.39	....	....	....	....	....	....
Aug. 1	D. N.	D. N.	.87	1.20 a. m.	1.50 a. m.	.01	.08	.34	.55	.67	.76	.81	.83	....	....	....	....	....	....	....
Sept. 8	5.05 p. m.	7.30 p. m.	.81	5.27 p. m.	6.05 p. m.	.05	.13	.19	.21	.30	.38	.50	.64	.74	....	....	....	....	....	....
Sept. 30	12.01 p. m.	2.40 p. m.	.98	1.15 p. m.	1.50 p. m.	.13	.04	.08	.28	.44	.56	.73	.79	.81	....	....	....	....	....	....
Memphis, Tenn.:																				
Mar. 26	D. N.	11.55 a. m.	1.78	9.40 a. m.	10.30 a. m.	.59	.07	.12	.16	.19	.25	.43	.61	.76	1.01	1.09	....	....	....	....
May 26	4.00 a. m.	5.40 a. m.	1.10	4.10 a. m.	4.50 a. m.	.02	.16	.47	.55	.56	.57	.65	.89	.99	1.01	....	....	....	....	....
June 28	10.33 a. m.	2.00 p. m.	1.80	11.35 a. m.	12.50 p. m.	.07	.05	.17	.24	.31	.40	.58	.64	.76	.91	.95	1.01	1.58	....	....
July 31–Aug. 1	D. N.	1.55 p. m.	4.89	4.45 a. m.	5.50 a. m.	2.53	.08	.20	.30	.45	.62	.75	.83	.93	1.08	1.21	1.45	1.71	1.96	2.48
Oct. 3	D. N.	3.30 p. m.	2.63	12.10 p. m.	1.25 p. m.	1.28	.04	.09	.15	.24	.47	.81	.63	.64	.66	.68	.74	1.18	....	....
Dec. 14–15	†6.15 a. m.	*4.45 p. m.	*4.55	*2.30 a. m.	*3.55 a. m.	1.91	.08	.16	.28	.41	.50	.57	.64	.68	.70	.79	.89	1.18	....	....
Nashville, Tenn.:																				
Aug. 21	6.17 p. m.	7.36 p. m.	1.80	6.48 p. m.	7.13 p. m.	.16	.30	.73	1.05	1.37	1.49	1.53	1.60	1.64	....	....	....	....	....	....
Lexington, Ky.:																				
July 19	4.21 p. m.	5.15 p. m.	1.13	4.25 p. m.	4.57 p. m.	.01	.18	.47	.71	.83	.99	1.05	1.09	1.10	....	....	....	....	....	....
Louisville, Ky.:																				
May 23	4.42 a. m.	10.30 p. m.	1.28	4.50 a. m.	5.50 a. m.	.02	.11	.25	.38	.42	.47	.49	.50	.57	.62	.68	.78	....	....	....
May 23	1.45 p. m.	6.25 p. m.	1.92	2.35 p. m.	3.45 p. m.	.35	.10	.38	.52	.58	.66	.67	.67	.68	.71	.75	.99	1.28	....	....
May 24	5.20 p. m.	6.50 p. m.	.81	5.22 p. m.	5.42 p. m.	T.	.07	.21	.35	.60	.61	....	....	....	....	....	....	....	....	....
June 15	1.17 p. m.	2.30 p. m.	1.13	1.18 p. m.	2.02 p. m.	T.	.13	.21	.33	.61	.81	.92	.99	1.01	1.08	1.11	....	....	....	....
Aug. 15	2.47 p. m.	4.00 p. m.	.75	2.47 p. m.	3.00 p. m.	.00	.27	.60	.67	.69	.71	....	....	....	....	....	....	....	....	....
Sept. 30	9.22 a. m.	12.50 p. m.	1.14	9.27 a. m.	9.50 a. m.	.01	.35	.46	.65	.85	.90	.98	....	....	....	....	....	....	....	....
Evansville, Ind.:																				
June 15	7.19 p. m.	11.10 p. m.	1.42	7.20 p. m.	8.15 p. m.	T.	.19	.34	.47	.52	.58	.61	.67	.73	.85	.95	1.03	1.19	....	....
Oct. 3	1.44 a. m.	11.52 p. m.	2.16	4.55 p. m.	5.15 p. m.	.72	.12	.31	.48	.56	.59	.60	....	....	....	....	....	....	....	....
Dec. 12–13	8.33 p. m.	12.40 a. m.	.78	10 00 p. m.	10.30 p. m.	.03	.03	.19	.32	.43	.47	.51	....	....	....	....	....	....	....	....
Indianapolis, Ind.:																				
Apr. 29	D. N.	7.30 a. m.	1.10	6.14 a. m.	6.25 a. m.	.44	.40	.52	.55	.58	....	....	....	....	....	....	....	....	....	....
May 23	3.46 p. m.	4.18 p. m.	.52	3.49 p. m.	4.00 p. m.	T.	.25	.46	.50	.51	....	....	....	....	....	....	....	....	....	....
June 7	5.25 p. m.	7.08 p. m.	1.13	5.25 p. m.	5.55 p. m.	.00	.06	.40	.66	.92	.97	1.02	1.04	....	....	....	....	....	....	....
Aug. 5	10.05 p. m.	11.04 p. m.	.61	10.20 p. m.	10.35 p. m.	T.	.20	.46	.57	.59	....	....	....	....	....	....	....	....	....	....
Sept. 30	2.55 p. m.	3.45 p. m.	1.10	3.23 p. m.	3.35 p. m.	T.	.39	.08	1.09	1.10	....	....	....	....	....	....	....	....	....	....
Cincinnati, Ohio:																				
May 20	12.02 p. m.	2.40 p. m.	2.37	12.07 p. m.	12.40 p. m.	T.	.42	.75	1.17	1.71	2.13	2.28	2.30	....	....	....	....	....	....	....
June 15	1.10 p. m.	1.55 p. m.	.66	1.20 p. m.	1.54 p. m.	T.	.11	.31	.49	.50	.61	.66	....	....	....	....	....	....	....	....
July 18	1.55 p. m.	3.00 p. m.	.54	2.40 p. m.	2.53 p. m.	.02	.09	.44	.52	....	....	....	....	....	....	....	....	....	....	....
Sept. 1	D. N.	8.30 a. m.	1.04	6.40 a. m.	7.05 a. m.	.17	.08	.33	.46	.54	.62	.65	.67	....	....	....	....	....	....	....
Columbus, Ohio:																				
June 25	4.42 p. m.	8.10 p. m.	1.54	6.12 p. m.	7.15 p. m.	.10	.11	.20	.28	.29	.31	.43	.49	.59	.69	.84	1.14	1.35	....	....
July 28	4.39 p. m.	6.15 p. m.	1.41	4.47 p. m.	5.25 p. m.	T.	.29	.59	.79	.99	1.11	1.19	1.28	1.34	1.36	1.38	....	....	....	....
Aug. 20	8.47 a. m.	9.40 a. m.	.88	8.51 a. m.	9.13 a. m.	.30	.53	.74	.82	.87	....	....	....	....	....	....	....	....	....	....
Pittsburg, Pa.:																				
May 2	5.15 p. m.	6.05 p. m.	.59	5.35 p. m.	5.45 p. m.	T.	.43	.56	.59	....	....	....	....	....	....	....	....	....	....	....
Parkersburg, W. Va.:																				
May 24	3.28 p. m.	9.35 p. m.	1.55	4.35 p. m.	5.00 p. m.	.24	.07	.29	.59	.83	.97	....	....	....	....	....	....	....	....	....
June 30	3.00 a. m.	8.40 a. m.	1.00	7.15 a. m.	7.55 a. m.	.10	.09	.17	.18	.18	.32	.58	.66	.79	.82	....	....	....	....	....
Elkins, W. Va.:																				
June 25	9.33 p. m.	11.55 p. m.	1.27	10.19 p. m.	10.45 p. m.	.05	.34	.65	.78	.91	.96	1.02	1.10	1.14	....	....	....	....	....	....
July 30	2.55 p. m.	6.40 p. m.	.90	4.50 p. m.	5.30 p. m.	.14	.06	.13	.22	.32	.49	.57	.62	.66	....	....	....	....	....	....
Aug. 3	10.45 p. m.	11.50 p. m.	1.13	11.12 p. m.	11.28 p. m.	.03	.31	.70	1.05	1.10	....	....	....	....	....	....	....	....	....	....
Sept. 26	4.06 p. m.	6.05 p. m.	1.36	4.06 p. m.	5.00 p. m.	.00	.11	.25	.49	.57	.61	.67	.89	1.08	1.10	1.24	1.29	....	....	....
LOWER LAKE REGION.																				
Buffalo, N. Y.:																				
June 12–13	10.15 p. m.	3.20 p. m.	.62	10.52 p. m.	11.15 p. m.	.06	.06	.21	.34	.43	.45	....	....	....	....	....	....	....	....	....
July 20	10.20 a. m.	1.50 p. m.	.85	11.40 a. m.	12.02 p. m.	.28	.06	.24	.39	.47	.50	....	....	....	....	....	....	....	....	....
Cleveland, Ohio:																				
May 4–5	9.10 p. m.	10.10 a. m.	1.01	11.17 p. m.	11.35 p. m.	.01	.25	.45	.65	.68	....	....	....	....	....	....	....	....	....	....
June 15	8.10 p. m.	11.50 p. m.	1.40	8.20 p. m.	8.50 p. m.	T.	.30	.61	.78	.90	.96	1.02	....	....	....	....	....	....	....	....
June 25	2.10 p. m.	10.20 p. m.	1.74	3.45 p. m.	4.20 p. m.	.15	.07	.13	.34	.50	.65	.80	.84	.87	....	....	....	....	....	....
July 9	3.58 p. m.	4.40 p. m.	.48	4.02 p. m.	4.11 p. m.	T.	.28	.46	....	....	....	....	....	....	....	....	....	....	....	....
Aug. 19	6.30 a. m.	9.22 a. m.	.94	7.35 a. m.	7.56 a. m.	T.	.18	.39	.59	.72	.76	.79	....	....	....	....	....	....	....	....
Sandusky, Ohio:																				
June 15	8.55 p. m.	11.55 p. m.	1.15	9.43 p. m.	10.05 p. m.	.01	.20	.38	.59	.71	.75	.78	.80	....	....	....	....	....	....	....
July 3	1.10 a. m.	4.35 a. m.	.88	2.15 a. m.	2.35 a. m.	.27	.15	.35	.48	.52	.55	....	....	....	....	....	....	....	....	....

† Dec. 14. * Dec. 15.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902, ETC.—Continued.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
LOWER LAKE REGION—(cont'd).																				
Toledo, Ohio:																				
May 24	2.00 a. m.	5.00 a. m.	1.14	2.52 a. m.	3.30 a. m.	.08	.25	.32	.39	.43	.48	.63	.74	.81						
July 20	D. N.	7.20 a. m.	.67	5.05 a. m.	5.20 a. m.	.02	.23	.44	.55	.56										
Aug. 7	5.25 p. m.	6.20 p. m.	.66	5.42 p. m.	5.57 p. m.	.01	.10	.43	.64	.65										
Oct. 18	4.00 a. m.	7.15 a. m.	.86	4.17 a. m.	4.52 a. m.	.01	.11	.12	.20	.36	.52	.66	.72	.73						
Detroit, Mich.:																				
July 2	7.30 p. m.	9.40 p. m.	.60	9.22 p. m.	9.27 p. m.	.08	.51													
July 2-3	10.30 p. m.	1.10 a. m.	1.36	10.45 p. m.	11.40 p. m.	.08	.14	.31	.42	.47	.51	.58	.62	.66	.72	.89	.99			
UPPER LAKE REGION.																				
Alpena, Mich.:																				
July 16-17	11.40 p. m.	D. N.	.82	11.45 p. m.	11.58 p. m.	T.	.07	.66	.82											
July 26	8.11 p. m.	9.40 p. m.	.84	8.15 p. m.	8.35 p. m.	T.	.14	.40	.65	.74	.76									
Aug. 18	2.54 p. m.	11.09 p. m.	1.32	4.06 p. m.	4.25 p. m.	.20	.08	.28	.47	.60	.62	.64								
Grand Haven, Mich.:																				
July 2-3	10.10 p. m.	3.15 a. m.	1.58	11.44 p. m.	12.15 a. m.	.13	.15	.29	.48	.80	.99	1.08	1.14	1.18						
Chicago, Ill.:																				
May 24	7.20 p. m.	11.30 p. m.	1.26	8.40 p. m.	9.20 p. m.	.05	.09	.15	.23	.31	.49	.75	.98	1.04	1.08					
June 7	1.50 p. m.	6.15 p. m.	.69	4.18 p. m.	4.50 p. m.	.07	.10	.22	.31	.41	.50	.55	.58							
July 23	12.53 p. m.	2.45 p. m.	.64	1.25 p. m.	1.50 p. m.	.02	.06	.21	.36	.45	.51	.55								
Milwaukee, Wis.:																				
June 12	5.45 p. m.	11.30 p. m.	1.23	6.35 p. m.	7.10 p. m.	.05	.09	.11	.11	.24	.37	.55	.65	.68						
July 14	7.55 p. m.	10.15 p. m.	.58	7.55 p. m.	8.15 p. m.	.00	.06	.31	.47	.51	.52									
Greenbay, Wis.:																				
June 1-2	11.20 p. m.	5.35 a. m.	1.23	12.27 a. m.	12.55 a. m.	.01	.20	.31	.50	.53	.59	.62								
July 14	4.42 p. m.	6.55 p. m.	.61	4.48 p. m.	5.00 p. m.	T.	.21	.46	.54	.55										
Duluth, Minn.:																				
May 19	3.20 p. m.	4.30 p. m.	.50	3.23 p. m.	3.35 p. m.	.01	.22	.37	.42	.45										
June 2	2.06 a. m.	10.40 a. m.	1.42	5.30 a. m.	5.50 a. m.	.36	.40	.59	.72	.80	.82									
July 4	12.26 a. m.	7.20 a. m.	1.41	4.29 a. m.	5.12 a. m.	.16	.11	.24	.35	.62	.67	.80	.84	.98	1.06	1.10				
July 29	9.58 p. m.	10.56 p. m.	.68	10.07 p. m.	10.17 p. m.	.02	.37	.56	.58	.61	.65									
Aug. 18	2.30 a. m.	6.50 a. m.	1.35	4.28 a. m.	4.55 a. m.	.01	.18	.41	.65	.72	.80	.86	.88							
NORTH DAKOTA.																				
Bismarck, N. Dak.:																				
June 1	12.20 p. m.	1.05 p. m.	.65	12.40 p. m.	12.53 p. m.	.01	.17	.46	.64											
July 13	8.46 p. m.	10.52 p. m.	1.27	8.55 p. m.	9.14 p. m.	T.	.15	.65	.85	.98	.99									
UPPER MISSISSIPPI VALLEY.																				
St. Paul, Minn.:																				
July 5-6	9.54 p. m.	3.10 a. m.	2.05	10.55 p. m.	11.46 p. m.	.20	.16	.40	.56	.64	.72	.75	.95	1.11	1.30	1.33				
Aug. 9	7.10 p. m.	9.57 p. m.	3.06	8.10 p. m.	9.57 p. m.	.02	.06	.12	.33	.71	1.12	1.57	2.02	2.18	2.27	2.38	2.51	2.69	2.93	3.04
La Crosse, Wis.:																				
May 21	1.45 a. m.	10.00 a. m.	2.47	3.25 a. m.	3.45 a. m.	.34	.19	.60	.80	.90	.91									
July 16	3.15 a. m.	6.30 a. m.	1.23	4.15 a. m.	4.45 a. m.	.16	.13	.19	.38	.64	.81	.89	.92	.95						
July 25	3.47 p. m.	10.15 p. m.	.78	3.55 p. m.	4.15 p. m.	T.	.12	.31	.50	.60	.64									
Aug. 30-31	10.55 p. m.	2.00 a. m.	1.31	12.05 a. m.	12.40 a. m.	.24	.07	.11	.17	.28	.50	.66	.75	.77	.79	.87	1.00			
Davenport, Iowa:																				
May 2	D. N.	D. N.	.84	3.02 a. m.	3.32 a. m.	.03	.06	.21	.46	.62	.69	.75								
May 4	10.05 a. m.	4.05 p. m.	1.09	11.38 a. m.	12.15 p. m.	.06	.13	.26	.37	.50	.60	.78	.81							
June 10-11	8.43 p. m.	3.05 a. m.	1.49	2.07 a. m.	2.25 a. m.	.73	.11	.44	.61	.65	.67									
July 16	7.19 a. m.	8.10 a. m.	.66	7.27 a. m.	7.50 a. m.	T.	.14	.35	.52	.62	.65									
Aug. 12-13	8.01 p. m.	8.05 a. m.	2.85	3.35 a. m.	4.50 a. m.	.97	.11	.30	.36	.44	.55	.61	.70	.81	1.01	1.12	1.34	1.59		
Des Moines, Iowa:																				
May 22	8.03 p. m.	10.15 p. m.	.67	8.20 p. m.	8.40 p. m.	.01	.13	.41	.47	.53	.56									
June 5-6	8.45 p. m.	5.55 a. m.	2.14	10.03 p. m.	11.05 p. m.	.07	.07	.12	.22	.34	.48	.58	.81	1.02	1.26	1.39	1.53	1.61		
July 8	2.30 p. m.	4.20 p. m.	.97	2.42 p. m.	3.15 p. m.	T.	.11	.31	.55	.66	.74	.82	.87	.90						
Aug. 15	12.38 a. m.	6.20 a. m.	2.53	12.40 a. m.	12.55 a. m.	T.	.37	.59	.65	.70	.74	.76								
				5.05 a. m.	5.50 a. m.	1.58	.08	.15	.24	.31	.44	.50	.64	.81	.91					
Aug. 19	6.35 p. m.	7.30 p. m.	.79	6.45 p. m.	7.00 p. m.	T.	.43	.67	.74	.77	.78									
Oct. 17-18	5.55 p. m.	D. N.	1.66	7.55 p. m.	8.35 p. m.	.06	.11	.18	.46	.52	.60	.70	.73	.77	.79	.82	.86			
Dubuque, Iowa:																				
July 16	4.45 a. m.	7.40 a. m.	1.48	6.00 a. m.	6.20 a. m.	.72	.23	.50	.62	.68	.71	.73								
Cairo, Ill.:																				
May 1	D. N.	D. N.	.81	3.10 a. m.	3.25 a. m.	.16	.10	.33	.63	.64										
Aug. 15	9.40 p. m.	11.30 p. m.	.95	10.05 p. m.	10.40 p. m.	.05	.14	.33	.53	.60	.68	.73	.86	.88						
Sept. 1	2.50 p. m.	6.40 p. m.	.81	3.05 p. m.	3.35 p. m.	.04	.10	.21	.33	.44	.51	.56	.59							
Dec. 12	1.15 p. m.	10.30 p. m.	1.07	9.00 p. m.	9.30 p. m.	.36	.08	.35	.47	.52	.59	.64	.66							

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902, ETC.—Continued.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.														
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
UPPER MISSISSIPPI VALLEY—cont'd.																				
Springfield, Ill.:																				
Apr. 28–29	10.35 p. m.	D. N.	1.52	1.30 a. m.	2.05 a. m.	.22	.10	.34	.39	.43	.58	.70	.87	.96	.99	1.00	1.14			
May 20	3.30 p. m.	5.15 p. m.	.93	3.57 p. m.	4.10 p. m.	T.	.07	.21	.26	.28	.41	.62	.74	.78	.87	.90				
June 1	5.44 a. m.	6.55 a. m.	1.05	5.59 a. m.	6.25 a. m.	T.	.26	.52	.60	.86	.94	.96	1.02	1.05						
Aug. 18	D. N.	8.30 a. m.	1.27	6.05 a. m.	6.30 a. m.	.01	.16	.39	.59	.84	.94	.96	.98							
St. Louis, Mo.:																				
May 4	1.50 p. m.	6.45 p. m.	1.77	3.10 p. m.	3.35 p. m.	.46	.13	.47	.87	1.10	1.17	1.18								
June 3	6.33 a. m.	9.55 a. m.	.79	8.07 a. m.	8.25 a. m.	T.	.23	.44	.58	.67	.71									
June 28	6.04 a. m.	9.45 p. m.	4.12	3.10 p. m.	4.00 p. m.	1.21	.12	.16	.25	.32	.39	.45	.51	.57	.60	.64				
				4.00 p. m.	5.20 p. m.	.....	.70	.77	.87	.95	1.02	1.08	1.18	1.32	1.43	1.60	1.70	1.90		
Aug. 18	9.31 a. m.	5.30 p. m.	2.07	11.05 a. m.	11.40 a. m.	.12	.05	.13	.28	.41	.56	.67	.77	.78						
MISSOURI VALLEY.																				
Columbia, Mo.:																				
Apr. 25	6.01 p. m.	6.55 p. m.	1.09	6.04 p. m.	6.28 p. m.	.03	.32	.58	.70	.90	1.05									
May 31	9.15 p. m.	11.45 p. m.	2.86	10.35 p. m.	11.35 p. m.	.10	.08	.19	.40	.79	1.18	1.45	1.72	1.92	2.18	2.31	2.70			
July 18–19	7.49 p. m.	10.20 a. m.	3.24	8.52 p. m.	9.30 p. m.	.69	.11	.45	.62	.79	.96	1.06	1.14	1.17						
July 31	1.12 p. m.	2.35 p. m.	.67	1.12 p. m.	1.40 p. m.	.00	.07	.15	.31	.51	.62	.65								
Aug. 18	10.41 a. m.	11.30 p. m.	3.40	12.14 p. m.	2.07 p. m.	.21	.22	.44	.54	.65	.74	.80	1.02	1.15	1.17	1.18	1.30	1.52	1.86	2.04
Oct. 17	D. N.	D. N.	.84	3.28 a. m.	3.47 a. m.	.04	.16	.26	.45	.62	.66	.69	.71	.73						
Kansas City, Mo.:																				
May 23	8.10 p. m.	10.15 p. m.	2.12	8.30 p. m.	9.30 p. m.	.06	.06	.15	.30	.57	.86	1.09	1.20	1.33	1.42	1.48	1.80			
July 1	4.15 a. m.	9.45 a. m.	3.62	4.55 a. m.	5.45 a. m.	.03	.20	.33	.43	.66	.87	1.03	1.20	1.37	1.46	1.51				
				5.45 a. m.	7.35 a. m.	.....	1.58	1.71	1.85	1.99	2.11	2.26	2.40	2.49	2.58	2.63	2.75	2.94	3.22	3.37
July 7	12.45 p. m.	3.25 p. m.	1.30	12.55 p. m.	1.36 p. m.	.01	.05	.14	.22	.40	.60	.84	1.11	1.17						
July 9	6.05 a. m.	4.15 p. m.	2.08	7.20 a. m.	8.05 a. m.	.04	.10	.19	.39	.60	.82	.92	1.12	1.19	1.29	1.31				
Aug. 10	5.10 a. m.	9.00 a. m.	.87	5.13 a. m.	5.28 a. m.	T.	.17	.35	.47	.50	.52									
Sept. 22	5.30 a. m.	1.20 p. m.	2.28	5.45 a. m.	6.35 a. m.	.06	.06	.18	.31	.41	.58	.63	.70	.76	.86	.91	.95			
Sept. 29	1.20 p. m.	9.00 p. m.	.97	7.48 p. m.	8.10 p. m.	.35	.09	.29	.36	.52	.57									
Springfield, Mo.:																				
Aug. 22	10.32 a. m.	1.05 p. m.	1.05	10.40 a. m.	11.00 a. m.	.03	.17	.54	.72	.77	.81	.84								
Topeka, Kans.:																				
June 29	5.27 a. m.	7.55 a. m.	1.22	5.55 a. m.	7.25 a. m.	.09	.07	.20	.32	.41	.50	.58	.62	.66	.71	.74	.81	.97	1.12	
July 31	3.18 a. m.	8.15 a. m.	2.08	5.30 a. m.	6.30 a. m.	.62	.06	.10	.17	.28	.37	.68	.88	.93	.98	1.02	1.16			
Aug. 26–27	9.25 p. m.	4.15 a. m.	1.44	10.27 p. m.	10.55 p. m.	.10	.36	.65	.82	.94	.99	1.03	1.05							
Sept. 5	4.53 p. m.	5.47 p. m.	.78	4.53 p. m.	5.15 p. m.	.00	.07	.22	.59	.70										
Sept. 22	9.10 p. m.	11.50 p. m.	1.28	9.16 p. m.	9.50 p. m.	T.	.10	.12	.13	.38	.83	.90	.96	.99	1.01	1.02				
Lincoln, Nebr.:																				
June 5	1.45 a. m.	10.10 a. m.	2.27	3.06 a. m.	4.20 a. m.	.06	.04	.13	.22	.27	.41	.58	.93	1.18	1.40	1.51	1.66	2.04		
June 14–15	9.33 p. m.	D. N.	1.18	9.34 p. m.	10.18 p. m.	T.	.18	.23	.29	.39	.58	.72	.83	.96	1.02					
July 17–18	6.20 p. m.	D. N.	2.59	10.55 p. m.	11.25 p. m.	1.09	.13	.27	.41	.61	.78	.96	.99							
July 22	12.07 a. m.	1.25 a. m.	1.40	12.20 a. m.	1.10 a. m.	T.	.04	.21	.36	.62	.84	1.07	1.17	1.22	1.32	1.36	1.39			
July 30–31	8.07 p. m.	D. N.	1.28	8.09 p. m.	8.40 p. m.	T.	.06	.26	.52	.65	.73	.81	.86	.88	.90	.93	.97			
Aug. 4–5	9.35 p. m.	D. N.	1.60	11.10 p. m.	12.10 a. m.	.10	.28	.61	.69	.82	.85	.91	.96	.99	1.06	1.13	1.43			
Aug. 20	11.48 a. m.	2.50 p. m.	1.45	11.50 a. m.	12.05 p. m.	T.	.20	.48	.54											
Omaha, Nebr.:																				
June 5–6	6.00 p. m.	D. N.	1.68	6.17 p. m.	6.30 p. m.	T.	.13	.44	.53											
July 30–31	7.30 p. m.	D. N.	.75	8.05 p. m.	8.35 p. m.	T.	.12	.30	.44	.53	.57	.61	.63							
Aug. 22	2.30 a. m.	5.50 a. m.	.92	3.25 a. m.	4.00 a. m.	.11	.10	.13	.18	.29	.49	.58	.62	.66						
Valentine, Nebr.:																				
June 4	8.09 a. m.	9.05 a. m.	.68	8.20 a. m.	8.40 a. m.	T.	.10	.30	.48	.64	.65									
July 29	7.25 p. m.	8.35 p. m.	.76	7.45 p. m.	8.07 p. m.	.03	.09	.22	.42	.66	.69									
Huron, S. Dak.:																				
June 24–25	10.15 p. m.	D. N.	1.55	10.50 p. m.	11.30 p. m.	.12	.10	.51	.68	.85	1.05	1.22	1.28	1.32	1.35					
Aug. 19	7.20 a. m.	1.40 p. m.	.98	7.55 a. m.	8.20 a. m.	T.	.07	.25	.42	.48	.53	.56								
Yankton, S. Dak.:																				
June 11–12	10.55 p. m.	11.00 a. m.	3.09	11.05 p. m.	11.59 p. m.	.04	.06	.24	.37	.46	.49	.52	.61	.79	1.03	1.12	1.20			
July 5	4.30 p. m.	10.10 p. m.	1.50	4.37 p. m.	5.00 p. m.	.01	.33	.59	.74	.80	.82	.88								
Sept. 20	12.15 a. m.	10.20 a. m.	2.48	1.10 a. m.	2.00 a. m.	.10	.06	.17	.21	.22	.40	.45	.71	.95	.98	1.03	1.05			
Sept. 20	11.50 a. m.	5.50 p. m.	3.80	3.20 p. m.	4.10 p. m.	1.66	.17	.47	.64	.76	.91	1.04	1.21	1.34	1.53	1.59	1.70	1.88	1.98	
Oct. 25	7.25 p. m.	8.50 p. m.	.70	7.25 p. m.	7.35 p. m.	.00	.33	.50	.51	.52										
MIDDLE SLOPE.																				
Denver, Colo.:																				
Sept. 20–21	7.54 p. m.	6.20 p. m.	2.70	8.05 p. m.	8.25 p. m.	.04	.30	.60	.90	1.20										
Pueblo, Colo.:																				
July 10	4.40 p. m.	5.35 p. m.	.57	4.55 p. m.	5.15 p. m.	.01	.18	.41	.50	.54	.55									
Aug. 30–31	9.10 p. m.	D. N.	.94	10.20 p. m	10.30 p. m.	T.	.31	.49	.52	.54	.57	.65	.69	.72						
Dodge, Kans.:																				
May 21	9.55 a. m.	6.25 p. m.	1.10	10.40 a. m.	11.10 a. m.	.05	.20	.47	.57	.63	.68	.72								
June 28–29	11.55 p. m.	5.40 a. m.	1.68	12.02 a. m.	12.50 a. m.	T.	.20	.40	.68	.81	.93	1.07	1.17	1.22	1.27	1.31	1.38			
July 22	6.50 p. m.	7.45 p. m.	1.14	6.57 p. m.	7.06 p. m.	T.	.55	.95	1.10											

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902, ETC.—Continued.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MIDDLE SLOPE—continued.																				
Oklahoma, Okla.:																				
Mar. 25	7.20 p. m.	11.00 p. m.	1.34	8.00 p. m.	8.55 p. m.	.03	.09	.39	.42	.42	.44	.46	.46	.55	.89	1.07	1.13			
May 18	12.55 p. m.	11.15 p. m.	1.56	1.10 p. m.	1.45 p. m.	T.	.12	.27	.57	.72	.78	.88	.95							
May 21–22	11.00 p. m.	D. N.	2.02	11.35 p. m.	12.20 a. m.	.04	.18	.40	.59	.64	.71	.76	.95	1.13	1.22					
Aug. 11	12.27 a. m.	3.10 a. m.	1.08	12.27 a. m.	12.50 a. m.	.00	.28	.42	.65	.87	.94	.94	1.00							
Aug. 31	4.20 p. m.	5.30 p. m.	.92	4.22 p. m.	4.45 p. m.	T.	.17	.48	.78	.85	.87									
Sept. 21	7.40 a. m.	8.45 a. m.	.56	8.19 a. m.	8.35 a. m.	.01	.15	.32	.53	.55										
Nov. 12–13	8.50 p. m.	11.25 a. m.	2.35	11.37 p. m.	12.45 a. m.	.07	.05	.11	.23	.28	.31	.33	.43	.57	.67	.76	1.26	1.62	1.71	1.78
SOUTH PAC. COAST REGION.																				
Los Angeles, Cal.:																				
Nov. 9–10	9.27 p. m.	7.45 p. m.	1.95	1.55 p. m.	2.25 p. m.	.87	.09	.28	.43	.46	.49	.55	.58	.60	.62					
WEST INDIES.																				
Basseterre, St. Kitts:																				
May 20–21	9.07 p. m.	D. N.	2.15	9.10 p. m.	9.40 p. m.	T.	.10	.35	.60	.71	.76	.83								
				12.45 a. m.	1.20 a. m.	.96	.11	.37	.61	.78	.93	1.04	1.09	1.13	1.17					
Aug. 18	11.40 a. m.	4.45 p. m.	3.06	12.20 p. m.	1.20 p. m.	.10	.16	.26	.40	.58	.89	1.24	1.53	1.72	1.81	1.83	2.08	2.31	2.42	2.77
Sept. 27	7.27 a. m.	7.59 a. m.	.72	7.29 a. m.	7.50 a. m.	T.	.34	.54	.66	.71										
Nov. 25	12.01 a. m.	6.40 p. m.	3.09	3.26 a. m.	4.08 a. m.	.26	.10	.21	.40	.84	1.10	1.30	1.47	1.88	1.92	1.93	1.96			
Dec. 21	12.15 p. m.	4.10 p. m.	.78	12.15 p. m.	12.46 p. m.	.00	.04	.07	.17	.30	.46	.59	.62							
Bridgetown, Barbados:																				
Aug. 20	7.51 p. m.	11.00 p. m.	2.66	9.32 p. m.	10.30 p. m.	.27	.21	.41	.58	.89	1.14	1.27	1.33	1.37	1.44	1.69	1.97	2.10		
Cienfuegos, Cuba:																				
Mar. 11	1.26 p. m.	3.48 p. m.	3.11	2.05 p. m.	2.55 p. m.	.26	.08	.38	.78	1.04	1.20	1.37	1.40	1.57	1.74	1.82				
				2.55 p. m.	3.20 p. m.		1.84	1.91	2.23	2.56	2.73	2.77	2.79	2.82	2.86					
Apr. 18	6.50 a. m.	9.00 a. m.	.70	7.50 a. m.	8.15 a. m.	.02	.25	.45	.47	.59	.65									
May 3	1.46 p. m.	3.25 p. m.	1.59	2.30 p. m.	3.05 p. m.	.32	.29	.54	.82	1.03	1.10	1.16	1.22							
July 23	6.40 p. m.	7.45 p. m.	.69	7.18 p. m.	7.35 p. m.	T.	.10	.42	.68	.69										
July 30	8.17 p. m.	9.10 p. m.	1.02	8.20 p. m.	8.48 p. m.	T.	.19	.40	.80	.89	.98	1.02								
July 31	9.17 p. m.	9.49 p. m.	.66	9.25 p. m.	9.45 p. m.	.01	.06	.20	.43	.64	.65									
Aug. 4	5.00 p. m.	6.09 p. m.	.76	5.05 p. m.	5.20 p. m.	.03	.34	.52	.66	.69										
Aug. 12	2.44 p. m.	6.15 p. m.	1.15	2.49 p. m.	3.03 p. m.	.02	.19	.62	.80	.81										
Aug. 21	3.38 p. m.	4.35 p. m.	.84	3.49 p. m.	4.03 p. m.	.04	.18	.46	.72	.73	.77	.79								
Aug. 22	3.24 p. m.	4.20 p. m.	.80	3.33 p. m.	4.01 p. m.	.01	.19	.46	.58	.67	.73	.78								
Aug. 27	9.27 a. m.	9.55 a. m.	.85	9.32 a. m.	9.45 a. m.	T.	.28	.67	.84	.85										
Sept. 2	6.20 p. m.	8.25 p. m.	2.39	6.35 p. m.	6.50 p. m.	T.	.10	.39	.51	.52										
				7.12 p. m.	8.02 p. m.	.53	.14	.21	.37	.73	1.14	1.28	1.46	1.62	1.66	1.72	1.85			
Oct. 12	3.57 p. m.	5.12 p. m.	1.30	4.03 p. m.	4.50 p. m.	T.	.06	.09	.15	.30	.43	.72	1.01	1.09	1.24	1.29				
Oct. 14	4.27 p. m.	5.12 p. m.	1.09	4.35 p. m.	4.58 p. m.	T.	.08	.25	.58	.95	1.08	1.09								
Oct. 16	10.23 p. m.	11.25 p. m.	1.09	10.27 p. m.	10.55 p. m.	.01	.22	.56	.71	.88	.97	1.03	1.05	1.06						
Oct. 26	5.20 p. m.	9.55 p. m.	1.48	5.52 p. m.	7.24 p. m.	.01	.13	.23	.38	.47	.51	.57	.58	.59	.60	.61	.66	.96	1.17	1.26
Nov. 19	3.00 p. m.	4.15 p. m.	.97	3.04 p. m.	3.48 p. m.	T.	.07	.12	.19	.40	.58	.67	.71	.86	.94					
Nov. 19	5.32 p. m.	6.40 p. m.	.78	6.07 p. m.	6.19 p. m.	.02	.41	.69	.74	.75										
Havana, Cuba:																				
Jan. 4–5	6.15 p. m.	11.35 a. m.	6.41	11.00 p. m.	11.55 p. m.	.49	.13	.17	.20	.25	.35	.43	.51	.67	.74	.82	.93			
				3.40 a. m.	4.15 a. m.	2.53	.07	.15	.21	.31	.41	.48	.53	.55	.58					
				5.50 a. m.	6.35 a. m.	3.40	.07	.12	.18	.23	.32	.43	.55	.71	.88	.92	.99	1.22		
				8.05 a. m.	8.45 a. m.	4.96	.06	.12	.18	.29	.42	.46	.62	.72	.74	.77	.81			
Feb. 9	4.00 p. m.	8.15 p. m.	.73	7.46 p. m.	8.01 p. m.	.16	.08	.29	.49	.52										
June 12–13	11.55 a. m.	7.25 a. m.	3.51	11.35 p. m.	12.05 a. m.	1.13	.06	.11	.19	.38	.57	.68								
June 15	11.40 a. m.	8.10 p. m.	1.58	2.08 p. m.	2.50 p. m.	.32	.16	.28	.43	.58	.68	.74	.81	.89						
June 23	1.35 p. m.	3.02 p. m.	1.30	1.44 p. m.	2.35 p. m.	.03	.15	.23	.30	.44	.50	.55	.66	.82	1.00	1.08				
July 20	3.56 p. m.	D. N.	1.46	4.27 p. m.	5.06 p. m.	T.	.17	.53	.65	.72	.85	.91	1.02	1.09	1.10					
Aug. 1	4.39 p. m.	5.46 p. m.	.95	4.39 p. m.	5.05 p. m.	.20	.47	.69	.84	.90	.92	.93								
Sept. 5	1.23 p. m.	4.40 p. m.	2.44	1.26 p. m.	2.25 p. m.	T.	.07	.13	.31	.51	.85	1.22	1.65	1.85	2.01	2.14	2.29	2.35		
Sept. 18	2.16 p. m.	6.40 p. m.	1.01	4.15 p. m.	4.50 p. m.	.24	.10	.18	.27	.39	.48	.52	.57	.61	.64	.68	.73	.75		
Kingston, Jamaica:																				
Aug. 21	2.07 p. m.	2.47 p. m.	.55	2.10 p. m.	2.30 p. m.	.01	.05	.22	.39	.50	.51									
Sept. 1	2.35 p. m.	3.48 p. m.	.80	2.39 p. m.	3.05 p. m.	T.	.18	.43	.54	.60	.71	.76								
Port of Spain, Trinidad:																				
Jan. 6	11.35 a. m.	12.07 p. m.	.74	11.35 a. m.	11.50 a. m.	.00	.18	.57	.71	.73										
Puerto Principe, Cuba:																				
Apr. 2	5.10 p. m.	7.42 p. m.	1.42	5.35 p. m.	6.00 p. m.	.01	.15	.34	.59	.98	1.12									
May 18	5.16 p. m.	6.10 p. m.	.58	5.19 p. m.	5.31 p. m.	T.	.27	.35	.37											
June 9	11.25 a. m.	1.30 p. m.	1.30	12.30 p. m.	1.10 p. m.	.22	.07	.14	.29	.59	.81	.92	1.00	1.04						
June 10	2.07 p. m.	3.00 p. m.	.78	2.10 p. m.	2.40 p. m.	T.	.04	.23	.41	.51	.66	.73								
June 12	5.36 p. m.	8.05 p. m.	2.96	6.45 p. m.	7.35 p. m.	1.04	.05	.17	.25	.43	.59	.86	1.09	1.41	1.72	1.86	1.91			
June 18	5.40 p. m.	9.30 p. m.	1.54	6.00 p. m.	6.50 p. m.	.04	.07	.25	.47	.67	.77	.89	.97	1.04	1.10	1.14	1.19			
June 23	6.47 p. m.	8.10 p. m.	1.23	6.51 p. m.	7.20 p. m.	T.	.16	.29	.40	.64	.90	1.00	1.05	1.09						
Aug. 2	2.54 p. m.	7.10 p. m.	2.46	2.55 p. m.	4.15 p. m.	T.	.31	.19	1.38	1.40	1.41	1.45	1.49	1.50	1.65	1.76	1.92	2.32		
Aug. 12	12.52 p. m.	1.45 p. m.	2.18	12.52 p. m.	1.35 p. m.	.00	.07	.33	.56	.74	1.14	1.49	1.88	2.05	2.15	2.18				
Aug. 22	6.09 p. m.	9.21 p. m.	4.47	6.25 p. m.	7.10 p. m.	.03	.15	.41	.53	.63	.74	1.23	1.47	1.54	1.61					
				7.35 p. m.	8.25 p. m.	1.85	.12	.25	.51	1.07	1.62	2.02	2.22	2.31	2.39	2.44	2.49			
Sept. 18	6.10 p. m.	7.26 p. m.	.79	6.25 p. m.	6.45 p. m.	.11	.18	.38	.61	.66										
Oct. 11	6.47 p. m.	7.40 p. m.	2.34	6.50 p. m.	7.30 p. m.	.02	.23	.60	.90	1.36	1.73	2.05	2.22	2.31						

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1902, ETC.—Continued.

Stations and dates.	Total duration.		Total amount of precipitation (inches).	Excessive rate.		Amount before excessive rate began (inches).	Accumulated depths of precipitation (in inches) during periods of time indicated.														
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
WEST INDIES—continued.																				
San Juan, Porto Rico:																				
Jan. 13	4.15 p. m.	7.45 p. m.	2.69	5.15 p. m.	6.15 p. m.	.41	.21	.44	.68	.93	1.09	1.29	1.41	1.44	1.46	1.51	1.85	.....	.....	.....
Jan. 15	9.45 a. m.	7.40 p. m.	2.88	10.00 a. m.	11.35 a. m.	.04	.10	.14	.25	.38	.62	.90	1.15	1.34	1.44	1.50	1.60	1.88	2.07	.....
Jan. 19–20	6.35 p. m.	9.45 a. m.	2.31	9.03 p. m.	9.48 p. m.	.03	.10	.26	.36	.43	.47	.61	.66	.75	.83	.....	.....	.....	.....	.....
Apr. 21	12.30 p. m.	D. N.	1.83	3.25 p. m.	4.40 p. m.	.23	.05	.13	.18	.23	.28	.34	.42	.50	.58	.68	.77	1.04	.....	.....
Apr. 27–28	D. N.	D. N.	.90	12.01 a. m.	12.41 a. m.	.14	.12	.16	.16	.19	.29	.44	.60	.74	.75	.....	.....	.....	.....	.....
				9.53 p. m.	10.48 p. m.	.06	.14	.29	.38	.45	.55	.61	.66	.71	.81	1.06	.....	.....	.....	.....
May 1–2	9.40 p. m.	2.55 a. m.	4.42	11.45 p. m.	12.35 a. m.	1.22	.11	.19	.28	.33	.53	.67	.70	.72	.81	.84	.....	.....	.....	.....
				12.35 a. m.	2.35 a. m.	.....	.96	1.02	1.09	1.29	1.37	1.57	1.65	1.67	1.68	1.69	1.79	2.27	2.72	2.93
May 12	2.07 p. m.	2.50 p. m.	.86	2.14 p. m.	2.32 p. m.	.03	.21	.49	.73	.80	.82	.....	.....	.....	.....	.....	.....	.....	.....	.....
May 16	3.24 p. m.	6.04 p. m.	1.04	3.44 p. m.	4.23 p. m.	.03	.13	.30	.50	.60	.73	.82	.88	.93	.....	.....	.....	.....	.....	.....
May 17	3.00 p. m.	4.15 p. m.	1.05	3.28 p. m.	3.52 p. m.	.06	.21	.43	.66	.88	.97	1.00	.....	.....	.....	.....	.....	.....	.....	.....
May 28	1.25 p. m.	2.45 p. m.	1.72	1.25 p. m.	2.00 p. m.	.00	.29	.69	1.00	1.25	1.48	1.61	1.67	.....	.....	.....	.....	.....	.....	.....
July 18	10.50 p. m.	11.15 p. m.	.76	10.52 p. m.	11.10 p. m.	T.	.28	.36	.67	.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 24	10.47 a. m.	11.31 a. m.	.07	10.57 a. m.	11.29 a. m.	T.	.14	.23	.28	.30	.39	.61	.76	1.03	1.07	.....	.....	.....	.....	.....
Aug. 28	10.20 a. m.	11.25 a. m.	.75	10.40 a. m.	11.05 a. m.	.06	.16	.35	.51	.59	.64	.67	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 31	3.50 p. m.	5.41 p. m.	.90	4.15 p. m.	4.32 p. m.	.01	.21	.56	.81	.84	.86	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 9	2.05 p. m.	3.20 p. m.	1.15	2.30 p. m.	3.15 p. m.	.14	.22	.50	.55	.55	.60	.63	.67	.89	1.01	.....	.....	.....	.....	.....
Nov. 12–13	7.09 p. m.	D. N.	1.29	7.50 p. m.	8.34 p. m.	.10	.12	.14	.19	.20	.25	.45	.59	.64	.72	.....	.....	.....	.....	.....
Dec. 19	6.55 p. m.	8.50 p. m.	1.66	7.24 p. m.	8.05 p. m.	.02	.16	.40	.70	.83	.94	1.12	1.30	1.39	1.42	1.46	1.55	.....	.....	.....
Santiago de Cuba:																				
Mar. 9	3.29 p. m.	4.15 p. m.	.63	3.36 p. m.	4.10 p. m.	T.	.04	.13	.24	.33	.49	.60	.62	.....	.....	.....	.....	.....	.....	.....
Mar. 12	2.48 p. m.	3.52 p. m.	.56	2.48 p. m.	3.20 p. m.	.00	.10	.24	.40	.45	.50	.54	.56	.....	.....	.....	.....	.....	.....	.....
Apr. 18–19	6.27 p. m.	D. N.	2.86	8.27 p. m.	9.26 p. m.	.07	.11	.19	.30	.39	.52	.63	.90	1.20	1.47	1.60	1.79	1.94	2.24	.....
May 12	4.47 p. m.	6.20 p. m.	.82	4.48 p. m.	5.20 p. m.	T.	.06	.22	.44	.57	.70	.78	.80	.....	.....	.....	.....	.....	.....	.....
May 31	12.50 p. m.	2.18 p. m.	1.00	12.51 p. m.	1.16 p. m.	T.	.33	.49	.70	.82	.89	.92	.....	.....	.....	.....	.....	.....	.....	.....
July 18	5.08 p. m.	5.38 p. m.	.82	5.09 p. m.	5.31 p. m.	T.	.31	.47	.66	.81	.82	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 1	3.00 a. m.	4.30 a. m.	1.70	3.08 a. m.	3.50 a. m.	T.	.19	.23	.30	.54	.83	1.10	1.37	1.60	1.65	1.67	.....	.....	.....	.....
Sept. 21	11.20 a. m.	12.45 p. m.	.69	11.26 a. m.	11.45 a. m.	T.	.21	.37	.53	.63	.66	.67	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 24	12.50 p. m.	1.30 p. m.	.56	1.13 p. m.	1.30 p. m.	T.	.20	.36	.55	.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 31	1.45 p. m.	3.47 p. m.	1.28	2.30 p. m.	2.57 p. m.	.04	.15	.42	.74	.90	1.13	1.20	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 17	1.32 p. m.	2.48 p. m.	.84	2.16 p. m.	2.37 p. m.	.31	.18	.34	.42	.50	.53	.....	.....	.....	.....	.....	.....	.....	.....	.....
Santo Domingo, W. I.:																				
Aug. 12	12.48 p. m.	2.55 p. m.	.55	12.50 p. m.	1.05 p. m.	T.	.29	.48	.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 13	12.11 p. m.	4.15 p. m.	1.25	2.17 p. m.	2.40 p. m.	.57	.21	.51	.59	.65	.66	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 1	3.00 a. m.	4.30 a. m.	1.70	3.08 a. m.	3.50 a. m.	T.	.19	.23	.30	.54	.83	1.10	1.37	1.60	1.65	1.67	.....	.....	.....	.....
Sept. 21	11.20 a. m.	12.45 p. m.	.69	11.26 a. m.	11.45 a. m.	T.	.21	.37	.53	.63	.66	.67	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 24	12.50 p. m.	1.30 p. m.	.56	1.13 p. m.	1.30 p. m.	T.	.20	.36	.55	.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 31	1.45 p. m.	3.47 p. m.	1.28	2.30 p. m.	2.57 p. m.	.04	.15	.42	.74	.90	1.13	1.20	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 17	1.32 p. m.	2.48 p. m.	.84	2.16 p. m.	2.37 p. m.	.31	.18	.34	.42	.50	.53	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willemstad, Curaçao:																				
Mar. 29	10.01 a. m.	5.15 p. m.	1.64	3.28 p. m.	3.45 p. m.	.70	.26	.38	.47	.50	.53	.57	.58	.66	.68	.....	.....	.....	.....	.....
Nov. 25	11.33 a. m.	2.55 p. m.	2.05	12.03 p. m.	1.10 p. m.	.03	.09	.14	.21	.30	.70	1.10	1.26	1.43	1.57	1.68	1.85	2.00	.....	.....

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ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

CIENFUEGOS, CUBA.

[λ = 22° 11′ N.; φ = 80° 33′ W.]

Month.	Pressure.			Temperature.							Moisture.									Cloudiness.		
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.					
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.		8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*				
January	30.016	30.154	29.835	61.4	67.6	76.8	58.8	67.8	84	51	58	60	87	77	.483	.524	.20	.12		2.5	1.7	2.6
February	29.928	30.091	29.645	64.3	70.5	78.6	60.5	69.6	84	49	59	63	84	78	.519	.593	1.68	.78		3.3	2.9	3.5
March	29.942	30.179	29.788	70.0	73.7	81.8	65.4	73.6	89	52	62	65	78	76	.574	.634	3.41	3.11		1.8	3.2	2.7
April	29.912	30.058	29.735	73.5	75.6	85.1	67.7	76.4	90	61	66	67	78	74	.644	.663	1.25	.88		1.8	2.9	3.5
May	29.883	30.012	29.819	77.9	79.1	87.5	71.2	79.4	93	68	69	70	74	73	.701	.724	2.87	1.98		2.2	4.1	4.4
June	29.842	29.992	29.695	79.6	79.3	87.8	74.4	81.1	94	70	73	73	81	82	.818	.817	3.92	1.07		5.5	7.1	6.4
July	29.954	30.044	29.695	79.4	79.3	89.6	73.1	81.4	93	70	72	72	78	78	.786	.779	3.46	1.05		1.8	6.4	4.4
August	29.905	30.040	29.820	78.5	77.5	88.9	72.7	80.8	93	70	72	72	82	85	.797	.796	10.13	2.29		2.0	6.5	5.0
September	29.895	29.984	29.833	77.5	78.4	89.0	72.8	80.9	92	69	72	73	83	83	.775	.803	5.29	2.50		1.9	6.0	4.3
October	29.872	30.023	29.742	76.6	78.1	86.9	72.1	79.5	94	64	71	72	83	83	.755	.792	6.48	1.49		3.1	5.1	4.4
November	29.890	30.013	29.820	72.9	75.0	84.2	69.0	76.6	89	62	68	70	86	84	.696	.728	2.51	1.75		2.4	2.9	3.6
December																						
Year																						

HAVANA, CUBA.

[λ = 23° 9′ N.; φ = 82° 21′ W.]

January	30.048	30.190	29.854	63.9	68.1	73.5	60.6	67.0	82	51	60	62	86	83	.517	.571	7.49	6.87		5.7	4.9	4.9
February	29.931	30.124	29.568	65.1	70.0	75.9	61.9	68.9	84	53	62	64	83	82	.553	.609	2.16	.84		4.1	4.1	4.2
March	29.954	30.195	29.720	69.1	72.9	80.7	65.3	73.0	87	56	65	66	88	81	.633	.657	.96	.73		2.7	1.7	3.0
April	29.931	30.089	29.763	72.0	74.9	81.3	67.6	74.4	90	63	66	66	81	76	.637	.654	1.70	1.40		3.5	2.7	3.3
May	29.902	30.022	29.824	76.7	78.5	84.1	70.9	77.5	89	67	70	70	81	77	.740	.744	.85	.79		2.8	2.8	3.2
June	29.846	29.984	29.651	78.8	79.0	85.4	74.5	80.0	92	72	74	74	86	85	.844	.847	10.27	3.71		6.7	7.4	7.1
July	29.966	30.069	29.899	79.3	80.5	87.8	74.1	81.0	91	69	74	74	83	80	.831	.832	2.37	1.49		2.3	3.5	4.1
August	29.913	30.028	29.813	79.2	80.9	87.9	74.2	81.0	91	67	74	74	83	79	.827	.829	3.21	.95		2.1	3.3	4.1
September	29.899	29.986	29.836	78.1	80.0	88.4	73.9	81.2	91	67	73	74	86	82	.828	.833	4.73	2.63		2.4	2.9	4.0
October	29.877	30.061	29.749	77.2	78.5	85.7	73.8	79.8	90	70	71	72	83	81	.770	.815	3.06	.76		4.5	5.3	5.5
November	29.910	30.048	29.801	73.1	75.8	81.8	69.9	75.8	86	64	67	69	82	81	.669	.716	3.96	1.54		3.8	4.3	4.6
December	29.982	30.130	29.842	70.5	72.4	77.7	67.5	72.6	85	56	64	64	79	76	.595	.611	.58	.22		5.1	3.4	4.9
Year	29.930	30.195	29.568	73.6	76.0	82.5	69.5	76.0	92	51	68	69	84	80	.703	.726	41.34	6.87		3.8	3.9	4.4

PUERTO PRINCIPE, CUBA.

[λ = 21° 23′ N.; φ = 77° 56′ W.]

January	29.710	29.837	29.547	63.0	66.5	77.2	59.0	68.1	85	50	60	62	90	84	.524	.556	1.82	1.12		3.6	2.4	4.5
February	29.643	29.780	29.446	64.4	70.8	83.7	59.6	71.6	89	50	61	62	90	74	.548	.563	.51	.20		2.4	2.4	3.7
March	29.657	29.849	29.551	69.7	73.2	85.4	63.5	74.4	95	55	65	63	84	71	.615	.579	.37	.35		1.9	3.4	3.1
April	29.624	29.765	29.474	73.3	74.2	87.3	66.0	76.6	94	60	67	67	82	78	.673	.656	5.14	1.08		2.5	3.8	3.9
May	29.601	29.717	29.541	76.4	76.3	89.2	68.4	78.8	94	64	70	69	81	78	.734	.706	.94	.58		4.8	3.6	4.5
June	29.568	29.717	29.452	78.4	76.8	89.2	71.6	80.4	93	68	74	73	85	88	.829	.811	15.75	3.38		5.1	7.0	7.1
July	29.672	29.766	29.641	78.9	76.9	90.2	71.2	80.7	94	67	74	71	84	83	.823	.763	5.83	2.19		2.2	4.1	4.3
August	29.626	29.759	29.555	78.8	76.7	91.1	70.9	81.0	95	67	74	72	84	87	.826	.790	12.65	4.47		2.3	5.6	5.0
September	29.615	29.686	29.564	78.1	76.6	90.1	70.6	80.4	93	68	74	72	86	86	.829	.786	2.99	1.06		1.6	3.8	4.1
October	29.587	29.705	29.487	76.3	76.0	89.6	69.4	79.5	92	65	72	72	88	87	.796	.780	7.21	2.34		2.5	4.6	4.6
November	29.592	29.737	29.516	72.5	73.5	84.3	67.4	75.8	88	62	70	70	92	89	.740	.735	1.12	.31		2.6	2.5	4.4
December	29.646	29.792	29.547	68.9	71.0	81.4	64.3	72.8	90	54	67	68	94	90	.671	.687	2.72	1.22		3.0	2.6	4.8
Year	29.628	29.849	29.446	73.2	74.0	86.6	66.8	76.7	95	50	69	68	87	83	.717	.701	57.05	4.47		2.9	3.8	4.5

SANTIAGO DE CUBA. WEST INDIES.

[λ = 19° 59′ N.; φ = 75° 50′ W.]

January	29.925	30.073	29.767	68.9	71.3	81.1	65.5	73.3	85	57	63	64	81	78	.578	.598	1.77	.97		3.8	2.6	4.7
February	29.890	30.001	29.736	69.7	72.9	82.7	65.0	73.8	88	61	64	66	82	79	.592	.639	.44	.28		5.0	3.7	5.2
March	29.888	30.054	29.783	71.2	73.7	84.4	66.8	75.6	90	61	65	66	74	77	.624	.642	2.06	.91		2.6	3.2	3.9
April	29.852	29.975	29.697	76.6	75.5	86.0	67.8	76.9	91	63	66	67	69	76	.631	.668	3.99	2.86		2.4	2.6	4.9
May	29.830	29.960	29.783	78.3	75.4	87.6	70.3	79.0	90	66	69	70	74	84	.711	.733	5.44	1.01		3.6	4.1	5.8
June	29.811	29.952	29.696	80.3	77.1	87.3	72.1	79.7	91	68	73	74	78	89	.802	.826	5.36	1.11		6.0	6.5	7.0
July	29.906	29.976	29.865	80.1	78.1	89.6	70.9	80.2	92	67	70	72	73	81	.744	.776	1.46	.82		2.4	4.4	5.2
August	29.866	29.962	29.781	80.5	78.5	90.3	71.5	80.9	93	69	72	72	75	82	.775	.789	.76	.23		3.4	3.5	5.5
September	29.854	29.932	29.801	80.2	77.4	89.7	71.5	80.6	93	69	72	73	76	87	.787	.811	7.36	2.93		3.7	4.1	6.0
October	29.828	29.952	29.716	78.0	77.3	88.5	70.7	79.6	92	67	71	72	81	85	.766	.790	3.58	1.31		4.5	4.1	5.8
November	29.825	29.980	29.688	74.8	75.0	85.9	69.3	77.6	89	64	69	70	82	84	.703	.725	2.06	.95		4.0	3.5	5.3
December	29.872	30.015	29.768	72.5	73.7	84.3	67.7	76.0	89	64	67	68	82	84	.657	.695	1.28	.61		2.6	2.6	4.2
Year	29.862	30.073	29.688	76.2	75.5	86.4	69.1	77.8	93	57	68	70	77	82	.698	.724	35.56	2.93		3.7	3.7	5.3

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

CIENFUEGOS, CUBA.

[H = 52 ft.; h_t = 62 ft.; h_r = 53 ft.; h_a = 67 ft.]

Month.	Wind.														Number of days.													
	By self-registers.				Number of winds, 8 a. m. and 8 p. m.													Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. [a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.7	NE.	27	W.	0	11	42	1	0	3	2	1	2	9	23	6	2	2	2	0	0	1	0	0	0	0	0
February	7.5	NE.	26	SE.	0	11	23	2	7	8	3	1	1	0	17	9	2	6	5	0	0	0	0	0	0	0	0
March	8.5	NE.	25	NE.	0	5	31	8	4	8	6	0	0	0	22	9	0	3	3	0	0	0	0	0	0	0	0
April	7.4	NE.	24	NE.	0	7	36	8	1	3	5	0	0	0	17	11	2	4	3	0	0	0	0	1	0	2	0
May	7.1	NE.	20	SW.	0	8	34	15	4	2	4	0	0	0	9	20	2	9	7	0	0	0	0	4	0	5	0
June	7.1	NE.	25	SW.	0	2	28	14	4	8	1	0	3	0	5	14	11	17	14	0	0	0	0	5	0	16	0
July	6.9	NE.	32	E.	0	3	25	24	3	1	3	1	2	0	9	21	1	14	8	0	0	0	0	12	0	16	0
August	6.7	NE.	30	SE.	0	5	24	27	4	0	0	0	2	0	6	23	2	22	16	0	0	0	0	8	0	21	0
September	5.5	NE.	19	W.	0	4	26	23	5	1	0	1	0	0	9	21	0	19	13	0	0	0	0	12	0	17	0
October	5.8	E.	25	NE.	0	1	20	26	8	2	4	1	0	0	14	14	3	15	11	0	0	0	0	4	0	6	0
November	7.3	NE.	23	SE.	0	2	28	25	3	1	1	0	0	0	17	11	2	3	2	0	0	0	0	0	0	1	0
December																											
Year																											

HAVANA, CUBA.

[H = 57 ft.; h_t = 87 ft.; h_r = 79 ft.; h_a = 105 ft.]

January	12.5	E.	36	NE.	0	12	10	28	2	1	2	1	6	0	12	12	7	7	6	0	0	0	0	0	0	0	0
February	11.3	E.	48	SE.	2	5	5	11	8	7	1	6	13	0	13	11	4	7	6	0	0	0	0	0	0	2	0
March	12.6	E.	38	NE.	0	2	7	87	5	5	1	0	5	0	20	10	1	3	2	0	0	0	0	0	0	1	0
April	12.3	E.	38	NE.	0	5	13	25	6	3	3	0	5	0	19	7	4	7	4	0	0	0	0	0	0	4	0
May	12.6	E.	39	NE.	0	2	15	43	1	0	0	0	1	0	19	11	1	2	2	0	0	0	0	0	0	3	0
June	12.5	E.	43	E.	3	0	13	36	3	5	3	0	0	0	2	13	15	13	11	0	0	0	0	2	0	13	0
July	11.2	E.	46	E.	3	0	17	40	5	0	0	0	0	0	13	16	2	7	5	0	0	0	0	2	0	13	0
August	7.7	E.	32	NE.	0	1	13	33	7	4	1	2	1	0	14	17	0	10	9	0	0	0	0	1	0	18	0
September	7.9	E.	40	SW.	1	1	7	37	11	4	0	0	0	0	14	16	0	13	8	0	0	0	0	4	0	15	0
October	8.8	E.	39	NE.	0	2	11	28	10	6	2	1	2	0	7	18	6	14	12	0	0	0	0	2	0	9	0
November	11.9	E.	38	NE.	0	4	13	33	2	4	1	0	3	0	12	14	4	11	9	0	0	0	0	0	0	2	0
December	13.3	E.	41	E.	2	14	7	29	2	3	0	0	7	0	11	13	7	7	5	0	0	0	0	0	0	0	0
Year	11.2	E.	48	SE.	11	48	131	380	62	42	14	10	43	0	156	158	51	101	79	0	0	0	0	11	0	80	0

PUERTO PRINCIPE, CUBA.

[H = 352 ft.; h_t = 55 ft.; h_r = 46 ft.; h_a = 62 ft.]

January	8.1	NE.	26	E.	0	10	41	5	0	1	0	1	3	1	15	9	7	7	6	0	0	1	0	0	0	0	0
February	6.3	NE.	31	S.	0	6	25	6	3	7	4	2	1	2	17	6	5	4	3	0	0	2	0	0	0	0	0
March	8.7	NE.	25	E.	0	4	29	23	0	3	0	2	1	0	22	4	5	2	1	0	0	1	0	5	0	0	0
April	6.9	NE.	28	S.	0	2	27	18	4	1	1	3	3	1	15	12	3	11	11	0	0	2	0	4	0	6	0
May	8.0	NE.	24	E.	0	0	28	33	0	0	0	0	0	1	11	17	3	7	4	0	0	3	0	10	0	0	0
June	6.3	NE.	27	E.	0	1	21	24	7	3	1	2	1	0	4	7	19	23	19	0	0	1	0	12	0	6	0
July	8.0	NE.	30	SE.	0	1	20	36	1	3	1	0	0	0	13	16	2	14	12	0	0	1	0	16	0	8	0
August	5.5	NE.	44	SW.	1	3	15	22	8	3	4	1	2	4	9	16	6	17	13	0	0	2	0	22	0	14	0
September	6.0	NE.	26	E.	0	2	21	27	2	5	1	0	1	1	12	15	3	14	11	0	0	1	0	18	0	10	0
October	4.8	NE.	27	NE.	0	2	26	12	2	6	5	2	5	2	12	13	6	11	10	0	0	4	0	16	0	7	0
November	7.2	NE.	24	SE.	0	3	40	11	3	0	1	1	1	0	16	8	6	8	5	0	0	3	0	0	0	0	0
December	6.8	NE.	28	E.	0	8	46	5	0	0	0	1	1	1	13	11	7	12	10	0	0	6	0	0	0	0	0
Year	6.9	NE.	44	SW.	1	42	339	222	30	32	18	15	19	13	159	134	72	130	105	0	0	27	0	103	0	51	0

SANTIAGO DE CUBA, WEST INDIES.

[H = 82 ft.; h_t = 46 ft.; h_r = 39 ft.; h_a = 52 ft.]

January	8.5	N.	24	NE.	0	31	11	0	4	2	1	1	12	0	13	10	8	3	3	0	0	0	0	0	0	0	0
February	6.6	SE.	30	SE.	0	9	8	2	11	9	3	1	12	1	10	8	10	3	2	0	0	0	0	0	0	0	0
March	7.6	N.	30	NW.	0	24	7	0	10	9	0	0	2	0	16	13	2	6	5	0	0	0	0	0	0	1	0
April	7.3	N.	30	NE.	0	26	12	1	6	9	1	0	6	0	8	20	2	5	4	0	0	0	0	1	0	3	0
May	6.1	N.	30	NE.	0	42	7	2	2	3	1	0	5	0	2	26	3	18	13	0	0	0	0	0	0	4	0
June	5.0	SE.	30	NE.	0	20	10	6	10	6	1	2	4	2	2	16	12	18	14	0	0	0	0	2	0	5	0
July	6.1	N.	27	NE.	0	31	8	1	6	7	0	1	8	0	7	22	2	10	5	0	0	0	0	10	0	11	0
August	5.9	N.	27	NE.	0	28	11	1	6	7	1	1	7	0	5	22	4	8	7	0	0	0	0	15	0	8	0
September	5.0	N.	24	SE.	0	28	9	7	4	4	0	1	7	0	2	24	4	13	12	0	0	0	0	11	0	15	0
October	4.7	S.	25	N.	0	20	8	8	15	10	1	1	4	0	4	17	10	11	9	0	0	0	0	6	0	4	0
November	6.2	N.	23	NE.	0	32	12	4	8	0	0	0	4	0	10	13	7	12	7	0	0	0	0	0	0	4	0
December	7.5	N.	24	NW.	0	35	8	2	2	4	0	0	11	0	17	9	5	8	4	0	0	0	0	0	0	0	0
Year	6.4	N.	30	NW.	0	335	111	28	84	70	9	8	82	3	96	200	69	115	85	0	0	0	0	45	0	55	0

[a] By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

KINGSTON, JAMAICA.

[λ = 17° 58′ N.; φ = 76° 48′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January																					
February																					
March																					
April																					
May																					
June																					
July	29.660	29.736	29.606	79.4	79.2	89.7	71.1	80.4	93	68	68	71	70	76	.693	.760	.87	.49	4.1	2.3	4.9
August	29.631	29.729	29.577	79.0	78.5	88.6	71.0	79.8	93	70	68	72	71	81	.691	.782	3.45	1.27	3.0	2.4	5.0
September	29.622	29.694	29.574	78.8	77.1	89.1	71.2	80.2	92	69	70	72	74	86	.724	.798	2.79	.80	3.2	1.9	5.2
October	29.609	29.712	29.505	77.9	76.1	87.4	70.7	79.0	92	68	69	72	74	87	.703	.780	2.07	.74	4.0	3.4	5.6
November	29.590	29.744	29.450	75.3	75.4	86.3	69.5	77.9	90	66	67	70	76	84	.666	.738	1.63	1.03	3.7	3.2	4.9
December																					
Year																					

SANTO DOMINGO, WEST INDIES.

[λ = 18° 28′ N.; φ = 69° 53′ W.]

January	29.956	30.165	29.814	71.2	72.2	80.9	67.7	74.3	85	62	68	68	88	86	.675	.686	1.12	.29	5.2	3.5	5.0
February																					
March																					
April																					
May																					
June																					
July	[a]29.950	[a]30.018	[a]29.930	[b]80.3	[c]77.2	[c]86.6	[b]72.2	[b]79.4	[c]90	[b]70	[b]73	[c]73	[b]79	[c]87	[b].813	[c].810	[c]1.64	[c].47	[b]3.3	[c]6.4	[a]5.5
August	29.918	30.035	29.848	79.1	78.5	86.1	72.0	79.0	91	70	73	74	83	85	.821	.826	3.56	1.25	4.2	4.6	5.6
September	29.906	29.988	29.842	79.4	76.8	86.5	71.3	78.9	90	69	74	73	83	89	.827	.819	6.04	1.70	3.2	5.9	5.9
October	29.873	29.987	29.725	77.7	76.9	85.3	70.3	77.8	89	68	72	73	84	88	.798	.812	2.64	1.56	2.6	4.5	4.7
November	29.863	30.008	29.682	75.5	74.3	84.9	68.8	76.8	88	64	70	70	84	88	.734	.742	3.86	1.57	3.1	4.9	5.1
December[d]	29.919	30.079	29.800	74.1	74.0	83.9	68.7	76.3	87	65	70	71	86	90	.727	.751	1.07	.34	1.6	4.6	4.7
Year																					

SAN JUAN, PORTO RICO.

[λ=18° 29′ N.; φ=66° 07′ W.]

January	29.923	30.136	29.797	74.6	75.0	80.4	70.3	75.4	86	67	68	69	82	82	.696	.710	12.45	3.07	5.8	5.4	6.6
February	29.922	30.044	29.828	76.0	75.7	84.3	70.1	77.2	89	66	68	68	77	78	.687	.689	.09	.08	2.6	1.5	3.0
March	29.902	30.013	29.765	75.8	75.3	80.9	69.9	75.4	85	67	66	66	73	74	.646	.649	4.08	2.02	4.3	4.2	5.0
April	29.878	29.974	29.740	77.7	76.2	82.8	71.9	77.4	92	68	69	69	75	80	.708	.715	6.09	2.40	5.3	3.9	5.4
May	29.844	29.952	29.776	79.0	76.8	83.5	72.8	78.2	89	68	73	72	81	87	.801	.796	13.97	4.81	5.5	5.7	7.0
June	29.870	30.005	29.759	79.7	78.0	84.3	74.4	79.4	91	71	74	74	84	88	.845	.842	12.22	2.46	6.4	5.7	6.5
July	29.941	30.005	29.909	81.0	79.8	85.6	75.0	80.3	87	71	74	74	78	82	.828	.826	4.61	1.18	4.5	3.5	5.2
August	29.900	30.010	29.823	81.6	80.2	86.6	75.2	80.9	91	71	74	74	77	80	.827	.825	4.66	1.61	3.2	3.2	5.3
September	29.886	29.977	29.818	80.7	79.7	86.1	74.6	80.4	88	72	73	73	79	81	.822	.823	4.85	1.61	2.9	3.7	4.8
October	29.852	29.971	29.673	79.3	78.7	85.6	74.0	79.8	89	72	72	73	80	82	.796	.802	3.13	1.31	2.7	2.8	4.1
November	29.838	29.980	29.644	77.5	76.6	83.4	72.4	77.9	87	69	71	71	81	84	.761	.765	5.65	2.01	3.9	3.4	5.2
December	29.875	30.066	29.770	75.3	75.9	82.1	72.1	77.1	86	69	71	71	86	86	.751	.762	7.16	1.97	4.7	3.9	5.4
Year	29.886	30.136	29.644	78.2	77.3	83.8	72.7	78.3	92	66	71	71	79	82	.764	.767	78.96	4.81	4.3	3.9	5.3

BASSETERRE, ST. KITTS, WEST INDIES.

[λ=17° 18′ N.; φ=62° 43′ W.]

January	29.955	30.137	29.866	78.1	75.4	81.7	72.2	77.0	83	67	70	70	78	83	.741	.727	1.64	0.45	5.6	4.5	4.8
February	29.986	30.092	29.931	78.4	74.9	81.9	71.8	76.8	84	66	69	69	74	82	.719	.704	.34	.22	3.1	2.1	3.0
March	29.936	30.034	29.810	77.2	74.9	81.2	70.6	75.9	83	66	68	67	73	76	.681	.659	3.30	1.22	5.2	3.5	4.6
April	29.927	30.023	29.852	78.5	77.2	82.7	73.6	78.2	84	68	70	70	76	79	.742	.741	2.93	1.35	6.4	4.9	5.0
May	29.894	30.000	29.850	81.2	77.9	84.3	73.7	79.0	86	70	73	73	76	84	.810	.799	10.27	2.44	6.1	6.0	6.0
June	29.934	30.061	29.825	81.9	79.8	84.7	76.1	80.4	87	68	73	73	75	81	.818	.821	3.95	1.46	5.3	5.2	5.9
July	29.987	30.055	29.960	82.3	80.2	85.9	76.0	81.0	87	72	73	72	73	77	.801	.797	3.53	.71	5.1	4.1	4.4
August	29.951	30.045	29.886	82.9	80.5	86.3	76.3	81.3	87	71	73	73	72	78	.808	.806	4.29	3.07	4.3	3.3	4.9
September	29.934	30.033	29.877	82.9	80.0	86.5	76.5	81.5	88	71	72	73	72	78	.798	.804	3.43	1.17	5.6	4.4	4.8
October	29.906	30.025	29.783	82.7	78.5	86.1	74.8	80.4	87	72	72	72	71	80	.787	.783	2.46	.51	3.9	3.2	4.3
November	29.886	30.027	29.755	80.7	78.8	83.9	74.1	79.0	86	69	71	71	74	78	.770	.764	6.61	3.22	5.6	5.6	5.7
December	29.922	30.114	29.811	79.7	76.8	82.7	73.2	78.0	86	68	70	70	74	81	.747	.737	3.90	.87	5.1	3.6	4.9
Year	29.935	30.137	29.755	80.5	77.9	84.0	74.1	79.0	88	66	71	71	74	80	.768	.762	45.05	3.22	5.1	4.2	4.9

[a] For 19½ days. [b] For 19 days. [c] For 20 days. [d] For 22 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

KINGSTON, JAMAICA.

[H = 286 ft.; h_t = 38 ft.; h_r = 38 ft.; h_a = 52 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction.[a]	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurora.
	Miles.		*Mi.*																								
January																											
February																											
March																											
April																											
May																											
June																											
July	6.3	NE.	26	SE.	0	28	30	2	0	0	0	0	2	0	7	22	2	6	3	0	0	0	0	15	0	10	0
August	6.2	NE.	27	SE.	0	23	33	2	0	1	1	0	2	0	5	22	4	10	8	0	0	0	0	10	0	11	0
September	6.0	NE.	25	SE.	0	30	26	2	0	0	0	0	2	0	5	22	3	14	11	0	0	0	0	9	0	15	0
October	5.8	NE.	26	SE.	0	16	47	2	1	0	0	0	1	1	5	19	7	11	7	0	0	0	0	1	0	8	0
November	5.3	NE.	22	SE.	0	24	34	1	0	0	0	0	1	0	11	13	6	8	4	0	0	0	0	0	0	4	0
December																											
Year																											

SANTO DOMINGO, WEST INDIES.

[H = 57 ft.; h_t = 37 ft.; h_r = 30 ft.; h_a = 44 ft.]

January	7.0	N.	24	N.	0	46	9	1	2	1	0	1	1	1	11	14	6	12	6	0	0	0	0	0	0	0	0
February																											
March																											
April																											
May																											
June																											
July	[b]5.8	[b]N.	[b]20	[b]SE.	[b]0	[b]31	[b]5	[b]1	[b]1	[b]1	[b]0	[b]1	[b]0	[b]0	[c]3	[c]14	[c]3	[c]9	[c]6	[c]0	[c]0	[c]0	[c]0	[d]0	[d]0	[c]12	[c]0
August	5.5	N.	20	SE.	0	37	10	2	9	3	0	0	1	0	6	18	7	14	11	0	0	0	0	1	0	12	0
September	5.4	N.	24	SE.	0	48	8	0	4	0	0	0	0	0	2	22	6	17	15	0	0	0	0	0	0	22	0
October	4.7	N.	19	SE.	0	39	8	1	7	1	1	0	5	0	12	15	4	11	8	0	0	0	0	0	0	7	0
November	5.7	N.	17	E.	0	49	5	0	2	0	0	0	4	0	7	20	3	15	11	0	0	0	0	0	0	6	0
December [e]	5.8	N.	15	E.	0	37	3	0	2	2	0	0	0	0	5	15	2	11	7	0	0	0	0	0	0	5	0
Year																											

SAN JUAN, PORTO RICO.

[H=82 ft.; h_t=48 ft.; h_r=40 ft.; h_a=90 ft.]

January	11.7	E.	31	NE.	0	0	11	17	20	8	4	1	1	0	4	13	14	22	15	0	0	0	0	0	0	1	0
February	9.4	SE.	27	SE.	0	1	3	6	28	16	2	0	0	0	21	6	1	2	1	0	0	0	0	0	0	0	0
March	11.1	E.	30	E.	0	1	9	27	13	7	3	0	2	0	12	11	8	15	11	0	0	0	0	0	0	0	0
April	11.3	E.	28	E.	0	0	5	25	20	7	2	0	1	0	9	13	8	12	9	0	0	0	0	1	0	1	0
May	8.7	E.	27	SE.	0	0	5	27	20	8	1	1	0	0	3	11	17	22	19	0	0	0	0	0	0	14	0
June	11.7	SE.	30	E.	0	0	1	26	26	2	4	1	0	0	7	7	16	22	20	0	0	0	0	1	0	9	0
July	12.5	E.	29	E.	0	0	0	53	9	0	0	0	0	0	7	21	3	22	17	0	0	0	0	0	0	8	0
August	11.5	E.	38	NE.	0	0	0	44	14	3	1	0	0	0	7	20	4	15	10	0	0	0	0	1	0	6	0
September	9.3	E.	33	E.	0	0	1	28	24	6	0	0	1	0	9	16	5	19	12	0	0	0	0	0	0	7	0
October	6.6	S.	28	SE.	0	0	2	8	28	16	6	2	0	0	15	10	6	13	10	0	0	0	0	0	0	7	0
November	8.0	E.	30	E.	0	0	1	9	26	17	6	1	0	0	7	17	6	20	16	0	0	0	0	0	0	5	0
December	8.2	SE.	30	E.	0	0	3	11	31	12	2	3	0	0	13	8	10	22	18	0	0	0	0	0	0	4	0
Year	10.0	E.	38	NE.	0	2	41	281	259	102	31	9	5	0	114	153	98	206	158	0	0	0	0	3	0	62	0

BASSETERRE, ST. KITTS, WEST INDIES.

[H=29 ft.; h_t=41 ft.; h_r=39 ft.; h_a= 54 ft.]

January	9.0	E.	23	NE.	0	1	23	32	2	2	0	0	2	0	11	14	6	14	9	0	0	0	0	0	0	0	0
February	8.6	E.	23	E.	0	3	8	29	10	4	0	0	2	0	19	9	0	5	3	0	0	0	0	0	0	0	0
March	9.5	E.	22	E.	0	6	21	28	3	2	1	0	1	0	11	15	5	18	13	0	0	0	0	0	0	0	0
April	10.0	E.	32	S.	0	1	9	37	7	2	3	1	0	0	8	19	3	16	10	0	0	0	0	0	0	0	0
May	7.1	E.	27	SW.	0	8	20	21	9	1	3	0	0	0	4	19	8	20	18	0	0	0	0	0	0	11	0
June	10.6	E.	34	S.	0	2	8	41	8	0	1	0	0	0	9	12	9	18	12	0	0	0	0	0	0	4	0
July	10.3	E.	24	E.	0	0	12	48	2	0	0	0	0	0	10	18	3	20	15	0	0	0	0	0	0	1	0
August	9.9	E.	32	SE.	0	0	13	44	3	1	0	0	1	0	9	19	3	16	11	0	0	0	0	0	0	2	0
September	8.4	E.	25	SE.	0	1	17	30	3	0	0	0	0	0	12	11	7	17	14	0	0	0	0	0	0	3	0
October	6.4	E.	26	SE.	0	5	13	35	6	2	0	0	1	0	13	17	1	15	14	0	0	0	0	0	0	4	0
November	9.1	E.	25	E.	0	1	19	28	4	4	4	0	0	0	5	17	8	18	16	0	0	0	0	0	0	2	0
December	7.5	E.	29	SE.	0	6	21	25	9	1	0	0	0	0	8	17	6	20	14	0	0	0	0	0	0	4	0
Year	8.9	E.	34	S.	0	34	184	407	66	19	12	1	7	0	119	187	59	197	149	0	0	0	0	0	0	31	0

[a] By eye observations when there is no self-register at station. [b] For 19½ days. [c] For 20 days. [d] For 19 days. [e] For 22 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

ROSEAU, DOMINICA, WEST INDIES.

[λ=15° 17′ N.; φ=61° 23′ W.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly Mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.934	30.089	29.859	78.4	74.8	83.8	70.8	77.3	86	69	66	66	68	75	.650	.642	1.51	0.46	4.3	2.5	4.7
February																					
March																					
April																					
May																					
June																					
July																					
August	29.921	30.007	29.867	82.4		88.5	74.0	81.7	91	72							6.29	.88	6.3		
September	29.902	30.033	29.860	83.4		89.0	74.5	81.8	91	72							7.15	2.08	5.4		
October	29.890	30.009	29.836	82.4		84.6	74.0	79.3	91	72							4.71	2.20	5.5		
November	29.865	29.984	29.811	82.2		86.9	73.7	80.3	89	70							9.38	2.02	2.9		
December																					
Year																					

BRIDGETOWN, BARBADOS, WEST INDIES.

[λ=13° 4′ N.; φ=59° 37′ W.]

January	29.918	30.048	29.854	80.3	75.8	83.7	72.3	78.0	85	69	69	69	69	80	.712	.716	0.67	0.10	3.1	0.7	3.9
February	29.958	30.053	29.917	80.3	75.7	83.8	72.0	77.9	86	69	68	68	66	78	.680	.691	.46	.14	2.7	0.6	3.9
March	29.897	29.984	29.824	80.5	76.2	83.9	71.6	77.8	86	67	67	68	64	75	.668	.678	.88	.25	3.2	1.4	5.1
April	29.896	29.999	29.862	82.4	77.9	85.7	74.0	79.8	87	70	69	70	64	78	.714	.745	.66	.28	3.6	1.6	5.0
May	29.873	29.980	29.806	83.2	79.3	85.3	75.2	80.2	88	72	73	73	71	82	.803	.821	3.49	1.61	6.1	3.6	6.9
June	29.898	30.002	29.823	83.1	79.8	85.3	75.9	81.1	88	74	73	74	73	83	.823	.849	5.13	1.65	5.5	3.8	6.7
July	29.937	30.019	29.909	82.3	79.4	86.0	75.1	80.6	88	71	73	74	75	83	.820	.838	4.38	1.62	5.1	2.7	5.6
August	29.908	29.990	29.849	83.3	79.5	86.3	75.4	80.8	88	70	74	74	72	83	.826	.833	8.19	3.21	4.5	2.5	5.8
September	29.898	30.025	29.828	84.4	80.1	87.1	76.7	81.9	89	74	74	74	71	83	.833	.846	2.01	.68	4.2	2.4	5.9
October	29.888	29.990	29.808	83.4	78.0	87.9	74.4	80.2	88	71	73	73	71	85	.803	.818	4.01	1.00	3.5	2.9	5.3
November	29.860	29.974	29.769	83.0	78.6	85.5	75.3	80.4	88	72	73	73	72	83	.808	.810	5.78	1.37	4.0	2.5	5.5
December	29.898	30.016	29.814	80.9	76.4	84.2	73.0	78.6	86	70	72	72	74	85	.777	.775	4.76	1.93	2.8	2.4	5.1
Year	29.902	30.053	29.769	82.3	78.1	85.3	74.2	79.8	89	67	72	72	70	82	.772	.785	40.42	3.21	4.0	2.3	5.4

PORT OF SPAIN, TRINIDAD, WEST INDIES.

[λ=10° 35′ N.; φ=61° 30′ W.]

January[a]	29.872	29.981	29.815	78.7	75.6	84.6	70.9	77.3	87	69	69	68	73	79	.712	.698	2.96	1.81	4.5	3.6	5.9
February																					
March																					
April																					
May																					
June																					
July																					
August	29.888	29.973	29.856	80.1		86.5	72.2	79.4	90	69							9.78	1.31	3.2		
September	29.876	30.014	29.842	81.4		88.0	72.4	80.2	92	70							8.21	1.74	1.9		
October	29.873	29.978	29.836	80.5		87.1	71.8	79.4	91	70							8.23	2.48	2.2		
November	29.836	29.964	29.810	81.4		b87.5	b72.1	b79.8	b90	b69							2.99	.58	1.8		
December																					
Year																					

WILLEMSTAD, CURACAO, WEST INDIES.

[λ=12° 6′ N.; φ=68° 56′ W.]

January	29.814	29.974	29.725	78.9	77.7	83.2	74.8	79.0	85	70	71	71	76	80	.750	.752	1.09	0.23	6.4	2.5	5.8
February	29.833	29.937	29.707	78.5	77.4	83.6	75.4	79.5	85	72	70	70	74	78	.724	.728	.50	.39	5.6	1.8	5.9
March	29.807	29.923	29.718	78.8	77.2	83.7	74.4	79.0	86	69	69	70	72	78	.710	.730	2.22	1.72	6.3	4.3	6.5
April	29.785	29.874	29.738	80.0	78.7	84.7	76.7	80.7	86	75	72	72	76	80	.776	.786	.07	.03	7.4	4.9	6.6
May																					
June																					
July																					
August[c]	29.794	29.896	29.767	81.9	80.5	87.1	76.9	82.0	89	71	73	73	75	79	.816	.821	.83	.52	4.3	1.3	5.3
September	29.795	29.915	29.728	82.6	80.6	87.1	77.4	82.2	89	71	74	74	74	81	.826	.841	1.18	.69	5.3	2.8	4.7
October	29.781	29.900	29.695	82.5	80.5	86.6	77.5	82.0	88	72	74	74	74	81	.828	.836	.21	.09	6.0	3.9	5.2
November	29.752	29.909	29.626	81.8	80.1	86.1	76.9	81.5	89	71	73	74	76	81	.823	.827	2.97	2.05	5.7	3.4	5.6
December																					
Year																					

[a] For 28 days. [b] For 29 days. [c] For 15 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

ROSEAU, DOMINICA, WEST INDIES.

[H=25 ft.; h_t=36 ft.; h_r=30 ft; h_a=45 ft.]

Month.	Wind.														Number of days.												
	By self-register.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	*Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	.01 inch and over.	.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorm.	Aurora.
	Miles.		*Mi.*																								
January	5.1	E.	23	E.	0	2	26	28	2	2	1	0	1	0	11	15	5	14	9	0	0	0	0	0	0	0	0
February																											
March																											
April																											
May																											
June																											
July																											
August		NE.				1	11	3	8	0	1	3	4	0				22	17	0	0	0	0	2	0		
September		NE.				0	7	2	5	0	5	4	7	0				20	14	0	0	0	0	6	0		
October		NW.				0	5	0	5	1	3	7	10	0				16	11	0	0	0	0	1	0		
November		NE.				0	9	1	5	2	4	5	4	0				18	16	0	0	0	0	0	0		
December																											
Year																											

BRIDGETOWN, BARBADOS, WEST INDIES.

[H=30 ft.; h_t=57 ft.; h_r=49 ft.; h_a=65 ft.]

January	8.1	E.	24	NE.	0	0	14	45	3	0	0	0	0	0	15	12	4	17	9	0	0	0	0	0	0	0	0
February	9.2	E.	24	E.	0	0	11	40	5	0	0	0	0	0	12	12	4	9	3	0	0	0	0	0	0	0	0
March	9.2	NE.	25	NE.	0	0	29	28	5	0	0	0	0	0	11	10	10	9	7	0	0	0	0	0	0	0	0
April	10.8	E.	24	SE.	0	0	2	52	6	0	0	0	0	0	13	10	7	10	4	0	0	0	0	0	0	0	0
May	8.2	SE.	25	SE.	0	0	1	26	35	0	0	0	0	0	5	8	18	14	8	0	0	0	0	0	0	5	0
June	10.2	E.	24	E.	0	0	3	45	12	0	0	0	0	0	5	8	17	20	17	0	0	0	0	0	0	3	0
July	7.7	E.	22	E.	0	0	16	40	6	0	0	0	0	0	8	14	9	20	13	0	0	0	0	0	0	2	0
August	8.2	E.	35	E.	0	0	14	38	10	0	0	0	0	0	11	8	12	26	17	0	0	0	0	0	0	5	0
September	7.7	E.	25	E.	0	0	13	36	10	0	0	0	0	1	8	11	11	15	8	0	0	0	0	0	0	1	0
October	6.6	E.	25	SE.	0	0	4	38	19	0	0	0	1	0	12	8	11	16	13	0	0	0	0	0	0	7	0
November	8.3	E.	28	SE.	0	0	3	42	13	1	0	0	0	1	13	5	12	17	14	0	0	0	0	0	0	0	0
December	7.1	E.	22	NE.	0	0	12	42	8	0	0	0	0	0	12	10	9	19	14	0	0	0	0	0	0	3	0
Year	8.4	E.	35	E.	0	0	122	472	132	1	0	0	1	2	125	116	124	189	127	0	0	0	0	0	0	26	0

PORT OF SPAIN, TRINIDAD, WEST INDIES.

[H=49 ft.; h_t=65 ft.; h_r=48 ft.; h_a=66 ft.]

January[a]	4.1	E.	20	E.	0	6	12	21	7	6	0	1	2	1	4	19	5	18	10	0	0	0	0	0	0	0	0
February																											
March																											
April																											
May																											
June																											
July																											
August		E.				1	1	17	6	3	0	2	1	0				22	18	0			0	0	0		
September		E.				0	0	15	9	2	3	1	0	0				23	20	0			0	5	0		
October		E.				0	1	11	8	7	4	0	0	0				18	18	0			0	2	0		
November		E.				1	0	11	10	0	4	4	0	0				13	11	0			0	1	0		
December																											
Year																											

WILLEMSTAD, CURACAO, WEST INDIES.

[H=75 ft.; h_t=39 ft.; h_r=32 ft.; h_a=46 ft.]

January	10.9	E.	26	E.	0	0	5	53	4	0	0	0	0	0	2	21	8	13	9	0	0	0	0	0	0	0	0
February	12.1	E.	29	E.	0	0	4	48	9	0	0	0	0	0	5	23	0	2	2	0	0	0	0	0	0	0	0
March	11.6	E.	22	NE.	0	0	7	52	3	0	0	0	0	0	0	22	9	11	6	0	0	0	0	0	0	0	0
April	12.5	E.	26	E.	0	0	4	47	4	1	4	0	0	0	1	20	9	5	0	0	0	0	0	0	0	0	0
May																											
June																											
July																											
August[b]	13.9	E.	26	E.	0	0	0	27	3	0	0	0	0	0	9	6	0	4	3	0	0	0	0	0	0	1	0
September	12.6	E.	30	NE.	0	0	8	47	5	0	0	0	0	0	10	16	4	4	3	0	0	0	0	0	0	2	0
October	10.5	E.	23	N.	0	0	2	45	15	0	0	0	0	0	9	18	4	5	2	0	0	0	0	0	0	2	0
November	10.7	E.	28	NE.	0	0	4	47	7	1	0	1	0	1	4	17	9	11	5	0	0	0	0	0	0	3	0
December																											
Year																											

[a] For 28 days. [b] For 15 days. * By eye observations when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1902—Continued.

COLON, COLOMBIA, S. A.[a]

[$\lambda = 9^\circ 22'$ N.; $\varphi = 79^\circ 55'$ W.]

Month.	Pressure.			Temperature.							Moisture.											
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.	
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*				
January																						
February																						
March																						
April																						
May																						
June																						
July																						
August		29.848	29.730	79.0		84.4	76.1	80.2	87	71							7.74	2.46	6.6			
September		29.898	29.781	77.7		83.7	74.3	79.0	87	71							12.74	1.84	6.6			
October		29.896	29.793	76.5		84.3	72.4	78.4	88	71							14.11	2.65	4.5			
November																						
December																						
Year																						

TURKS ISLAND, W. I.[b]

[$\lambda = 21^\circ 21'$ N.; $\varphi = 71^\circ 7'$ W.]

January	30.057	30.258	29.877	71.7		79.5	65.1	72.3	85	56							3.70	1.38	6.4		7.1	
February	30.014	30.135	29.854	73.4		82.4	67.5	75.0	87	60							0.60	0.30	6.1		5.8	
March	30.027	30.163	29.924	75.9		83.9	70.4	77.2	90	61							1.08	0.54	4.8		5.1	
April	29.993	30.097	29.850	79.0		86.4	73.1	79.8	89	65							0.69	0.44	4.8		4.5	
May	29.949	30.059	29.874	80.4		86.7	73.9	80.3	90	69							2.17	1.22	5.5		5.7	
June	29.939	30.121	29.804	82.0		89.0	76.6	82.8	92	73							1.48	0.86	5.7		6.5	
July	30.041	30.129	30.019	82.9		90.1	76.3	83.2	91	71							1.54	0.46	4.6		5.1	
August	29.993	30.117	29.917	83.9		91.0	77.1	84.0	94	70							1.80	0.60	4.7		6.0	
September	29.971	30.057	29.928	84.2		91.2	77.6	84.4	92	74							0.21	0.04	4.1		4.2	
October	29.929	30.052	29.831	82.5		89.9	75.4	82.6	93	67							3.93	1.88	4.7		4.5	
November	29.922	30.058	29.741	78.0		84.8	72.4	78.6	88	68							3.89	1.64	5.4		5.0	
December	29.972	30.125	29.840	75.5		82.4	72.0	77.2	87	68							6.30	1.42	5.5		5.5	
Year	29.984	30.258	29.741	79.1		86.4	73.1	79.8	94	56							27.89	1.88	5.2		5.3	

[a] 8 a. m. observation.

[b] 7.30 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 13, 1902—Continued.

COLON, COLOMBIA, S. A.

[H = 24 ft.; h_t = 46 ft.; h_r = 37 ft.; h_a = 53 ft.]

Month.	Wind.															Number of days.													
	By self-register.					Number of winds, 8 a. m. and 8 p. m.													Precipitation.					Max. temperature.			Electricity.	
	Average hourly velocity.	*Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	No. of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	.01 inch and over.	.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorm.	Aurora.
	Miles.		*Mi.*																								
January																											
February																											
March																											
April																											
May																											
June																											
July																											
August		NE.				5	11	3	4	3	2	1	1	1				22	17				0	0	0		
September		SW.				2	6	0	5	7	8	0	2	0				25	19				0	0	0		
October		S.				1	0	0	8	13	9	0	0	0				24	20				0	0	0		
November																											
December																											
Year																											

TURKS ISLAND, W. I.

[H=11 ft.; h_t=6 ft.; h_r=2 ft.; h_a=20 ft.]

January		E.				1	10	11	5	2	0	0	2	0	1	9	21	17	11	0	0	0	0	0	0		
February		SE.				3	3	5	9	3	0	2	3	0	7	11	10	7	5	0	0	0	0	0	0		
March		SE.				0	5	12	13	0	0	0	1	0	11	13	7	4	3	0	0	0	0	0	0		
April		SE.				0	3	10	10	4	0	1	2	0	13	15	2	7	2	0	0	0	0	0	0		
May		E.				0	6	18	6	1	0	0	0	0	5	16	10	6	5	0	0	0	0	0	0		
June		E.				0	3	13	10	1	2	0	1	0	0	19	11	9	5	0	0	....	0	10	0		
July		E.				0	0	25	6	0	0	0	0	0	10	18	3	12	10	0	0	0	0	16	0		
August		SE.				0	1	11	15	4	0	0	0	0	10	16	6	11	9	0	0	0	0	24	0		
September		E.				0	0	15	14	1	0	0	0	0	15	14	1	8	3	0	0	0	0	26	0		
October		SE.				0	1	8	14	4	2	2	0	0	14	14	3	12	9	0	0	0	0	15	0		
November		E.				0	6	15	6	1	1	0	0	1	9	15	6	18	12	0	0	0	0	0	0		
December		E.				1	6	16	5	0	0	2	1	0	9	12	10	21	16	0	0	0	0	0	0		
Year		E.				5	44	159	113	21	5	7	10	1	104	171	90	132	90	0	0	....	0	91	0		

*By eye observations when there is no self-register at station.

AVERAGE PRESSURE IN INCHES AND THOUSANDTHS FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BASSETERRE, ST. KITTS.

[λ = 17° 18′ N.; φ = 62° 49′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.944	.935	.926	.926	.935	.950	.972	.992	.003	.994	.975	.954	.934
Feb	29.979	.968	.965	.968	.980	.993	.010	.022	.038	.031	.012	.991	.970
Mar	29.930	.920	.914	.919	.930	.945	.961	.973	.982	.981	.968	.950	.933
Apr	29.915	.905	.903	.910	.922	.937	.953	.966	.967	.962	.950	.935	.918
May	29.888	.878	.876	.880	.890	.905	.914	.920	.923	.920	.911	.900	.886
June	29.920	.914	.913	.916	.926	.938	.948	.954	.959	.957	.949	.942	.930
July	29.975	.968	.967	.968	.978	.988	.998	.005	.010	.009	.001	.992	.979
Aug	29.940	.933	.933	.939	.947	.957	.967	.973	.980	.976	.966	.954	.940
Sept	29.925	.914	.909	.914	.925	.936	.954	.963	.972	.969	.957	.940	.925
Oct	29.902	.891	.886	.890	.904	.916	.930	.941	.950	.942	.924	.906	.885
Nov	29.879	.868	.864	.867	.878	.892	.911	.924	.935	.929	.911	.893	.872
Dec	29.915	.903	.897	.899	.909	.921	.942	.962	.968	.961	.944	.924	.905
Year	29.926	.916	.913	.916	.927	.940	.955	.966	.974	.969	.956	.940	.923

BRIDGETOWN, BARBADOS.

[λ = 13° 04′ N.; φ = 59° 37′ W.]

Jan	29.902	.895	.894	.899	.909	.928	.948	.961	.961	.951	.931	.909	.891
Feb	29.943	.938	.939	.946	.956	.969	.985	.996	.996	.991	.971	.948	.934
Mar	29.888	.883	.884	.887	.900	.912	.925	.936	.936	.931	.916	.896	.878
Apr	29.884	.879	.884	.892	.901	.915	.928	.937	.935	.928	.912	.892	.875
May	29.867	.864	.867	.872	.882	.891	.901	.907	.904	.898	.889	.874	.858
June	29.886	.883	.886	.891	.902	.910	.919	.924	.924	.919	.911	.899	.886
July	29.932	.926	.925	.929	.936	.945	.953	.961	.961	.961	.954	.937	.925
Aug	29.900	.896	.900	.904	.912	.920	.929	.937	.938	.936	.926	.908	.897
Sept	29.887	.879	.880	.886	.894	.905	.920	.929	.932	.929	.915	.893	.876
Oct	29.878	.870	.871	.878	.891	.903	.918	.929	.929	.918	.899	.877	.865
Nov	29.844	.836	.838	.847	.859	.873	.889	.902	.900	.892	.873	.849	.831
Dec	29.895	.881	.877	.883	.892	.905	.921	.938	.941	.938	.922	.900	.883
Year	29.892	.886	.887	.893	.903	.915	.928	.938	.938	.933	.918	.898	.883

CIENFUEGOS, CUBA.

[λ = 22° 11′ N.; φ = 80° 33′ W.]

Jan	30.021	.012	.003	.000	.999	.007	.022	.039	.058	.065	.051	.029	.997
Feb	29.936	.925	.912	.908	.912	.924	.938	.950	.966	.972	.965	.946	.919
Mar	29.940	.927	.918	.917	.925	.937	.955	.969	.978	.979	.973	.956	.935
Apr	29.913	.902	.889	.889	.897	.913	.931	.940	.947	.945	.935	.920	.904
May	29.882	.872	.863	.865	.873	.887	.900	.909	.913	.911	.899	.887	.872
June	29.838	.827	.821	.819	.824	.832	.846	.857	.860	.862	.858	.850	.837
July	29.952	.941	.931	.931	.936	.946	.961	.971	.975	.974	.969	.961	.946
Aug	29.913	.903	.891	.888	.893	.900	.911	.917	.923	.928	.926	.917	.901
Sept	29.896	.886	.876	.877	.885	.895	.904	.915	.922	.923	.915	.898	.879
Oct	29.868	.859	.850	.849	.857	.869	.884	.895	.904	.904	.892	.870	.849
Nov	29.889	.879	.871	.871	.878	.891	.904	.914	.926	.924	.907	.887	.862
Dec													
Year													

HAVANA, CUBA.

[λ = 23° 09′ N.; φ = 82° 21′ W.]

Jan	30.052	.041	.038	.036	.034	.038	.051	.071	.085	.101	.094	.075	.047
Feb	29.940	.927	.919	.912	.913	.922	.936	.949	.961	.973	.971	.958	.934
Mar	29.953	.942	.932	.926	.935	.947	.958	.971	.979	.984	.982	.970	.952
Apr	29.928	.916	.908	.907	.913	.923	.940	.954	.960	.963	.958	.944	.930
May	29.906	.895	.890	.888	.894	.904	.916	.926	.931	.933	.928	.918	.907
June	29.851	.837	.828	.826	.829	.839	.851	.861	.867	.869	.867	.862	.852
July	29.971	.959	.949	.946	.953	.960	.972	.984	.989	.990	.989	.984	.974
Aug	29.921	.910	.900	.898	.897	.904	.916	.927	.937	.942	.940	.937	.924
Sept	29.905	.893	.883	.879	.886	.896	.908	.920	.928	.930	.923	.913	.897
Oct	29.880	.868	.858	.855	.860	.870	.882	.895	.909	.914	.909	.894	.870
Nov	29.912	.902	.895	.892	.896	.904	.917	.929	.939	.946	.941	.926	.904
Dec	29.988	.981	.973	.968	.969	.974	.985	.998	.014	.025	.021	.006	.983
Year	29.934	.923	.914	.911	.915	.923	.936	.949	.958	.964	.960	.949	.931

AVERAGE PRESSURE IN INCHES AND THOUSANDTHS FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BASSETERRE, ST. KITTS.

[H = 29 ft.; gravity correction, −.06; local time, 49m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.922	.918	.922	.930	.941	.958	.970	.976	.974	.967	.959	.953	.006	.910	Jan.
.957	.952	.956	.964	.972	.986	.998	.006	.005	.999	.990	.988	.040	.949	Feb.
.917	.907	.907	.914	.923	.935	.947	.957	.957	.954	.944	.940	.987	.897	Mar.
.903	.895	.893	.902	.914	.926	.936	.945	.947	.940	.929	.928	.974	.886	Apr.
.876	.866	.866	.875	.885	.900	.910	.919	.920	.911	.898	.896	.930	.859	May.
.918	.908	.907	.914	.924	.936	.947	.956	.960	.951	.939	.934	.973	.895	June.
.966	.958	.956	.965	.976	.990	.002	.011	.013	.004	.989	.986	.019	.953	July.
.927	.918	.917	.922	.933	.949	.962	.973	.974	.965	.953	.950	.987	.911	Aug.
.914	.906	.906	.913	.921	.937	.949	.958	.955	.949	.938	.935	.976	.900	Sept.
.887	.874	.876	.882	.895	.911	.924	.930	.927	.920	.909	.908	.953	.868	Oct.
.862	.859	.863	.873	.882	.897	.907	.915	.915	.906	.900	.892	.940	.852	Nov.
.874	.891	.898	.905	.914	.925	.937	.943	.939	.933	.927	.923	.972	.884	Dec.
.909	.904	.906	.913	.923	.938	.949	.957	.957	.950	.940	.936	.980	.897	Year.

BRIDGETOWN, BARBADOS.

[H = 30 ft.; gravity correction, −.07; local time, 1h 2m fast.]

.880	.879	.886	.894	.905	.919	.929	.929	.926	.922	.914	.915	.963	.875	Jan.
.927	.924	.929	.938	.946	.959	.967	.968	.968	.962	.952	.957	.000	.921	Feb.
.867	.860	.865	.871	.882	.895	.905	.910	.911	.906	.898	.898	.938	.859	Mar.
.864	.856	.859	.870	.881	.893	.905	.909	.909	.905	.896	.896	.937	.854	Apr.
.845	.843	.844	.853	.864	.877	.888	.894	.894	.888	.875	.877	.910	.839	May.
.876	.870	.872	.883	.892	.904	.913	.919	.918	.910	.900	.900	.933	.864	June.
.914	.907	.909	.915	.925	.937	.947	.954	.955	.950	.939	.937	.965	.905	July.
.884	.877	.879	.887	.898	.910	.919	.928	.929	.922	.909	.910	.945	.874	Aug.
.869	.867	.869	.878	.887	.901	.913	.918	.918	.913	.899	.898	.934	.862	Sept.
.856	.855	.860	.867	.878	.892	.904	.905	.904	.898	.887	.889	.931	.851	Oct.
.825	.825	.833	.844	.857	.869	.877	.877	.876	.870	.859	.860	.902	.820	Nov.
.873	.870	.875	.883	.892	.904	.913	.915	.915	.911	.905	.901	.943	.864	Dec.
.873	.869	.873	.882	.892	.905	.915	.919	.919	.913	.903	.903	.942	.866	Year.

CIENFUEGOS, CUBA.

[H = 52 ft.; gravity correction, −.06; local time, 22m slow.]

.975	.967	.966	.974	.984	.000	.017	.031	.038	.034	.027	.013	.077	.957	Jan.
.899	.886	.883	.888	.896	.908	.925	.936	.942	.940	.935	.926	.985	.868	Feb.
.916	.903	.895	.899	.909	.923	.940	.954	.962	.960	.955	.938	.988	.885	Mar.
.885	.870	.867	.869	.878	.893	.908	.924	.933	.933	.927	.909	.958	.858	Apr.
.854	.841	.835	.840	.848	.864	.879	.890	.900	.899	.892	.878	.921	.830	May.
.826	.816	.811	.814	.824	.838	.849	.861	.867	.866	.858	.840	.882	.795	June.
.931	.918	.908	.912	.918	.939	.956	.965	.973	.973	.965	.948	.992	.899	July.
.885	.870	.869	.869	.885	.905	.915	.927	.933	.928	.922	.905	.948	.855	Aug.
.859	.842	.839	.847	.861	.877	.900	.912	.916	.911	.905	.889	.935	.832	Sept.
.833	.824	.825	.834	.844	.862	.878	.890	.893	.886	.879	.867	.918	.815	Oct.
.849	.842	.845	.854	.868	.885	.899	.908	.913	.909	.900	.886	.935	.835	Nov.
														Dec.
														Year.

HAVANA, CUBA.

[H = 57 ft.; gravity correction, −.05; local time, 29m slow.]

.024	.012	.008	.011	.018	.029	.043	.057	.064	.063	.055	.048	.109	.995	Jan.
.910	.898	.895	.899	.906	.915	.929	.935	.942	.942	.936	.930	.988	.875	Feb.
.934	.919	.915	.917	.928	.939	.955	.967	.974	.972	.967	.951	.002	.899	Mar.
.912	.900	.892	.895	.900	.909	.923	.936	.945	.945	.941	.927	.970	.880	Apr.
.892	.880	.874	.869	.872	.883	.895	.906	.915	.917	.912	.902	.939	.864	May.
.841	.834	.830	.828	.833	.840	.849	.859	.867	.869	.865	.848	.890	.809	June.
.961	.946	.939	.939	.946	.952	.963	.973	.983	.985	.980	.966	.003	.930	July.
.909	.893	.891	.894	.897	.904	.915	.923	.932	.937	.929	.916	.951	.877	Aug.
.875	.865	.860	.865	.869	.880	.897	.912	.920	.917	.911	.897	.937	.853	Sept.
.852	.846	.841	.846	.855	.866	.880	.893	.899	.896	.888	.876	.924	.830	Oct.
.882	.875	.872	.877	.887	.901	.914	.923	.929	.929	.922	.909	.953	.863	Nov.
.961	.951	.948	.953	.959	.972	.984	.993	.999	.000	.993	.983	.034	.939	Dec.
.913	.902	.897	.899	.906	.916	.929	.940	.947	.948	.942	.929	.975	.884	Year.

AVERAGE PRESSURE IN INCHES AND THOUSANDTHS FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KINGSTON, JAMAICA.

[λ = 17° 58′ N.; φ = 76° 48′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan													
Feb													
Mar													
Apr													
May													
June													
July	29.679	.665	.657	.654	.651	.660	.677	.685	.690	.684	.674	.661	.645
Aug	29.656	.639	.629	.625	.624	.632	.647	.656	.660	.658	.647	.631	.614
Sept	29.636	.621	.615	.615	.619	.627	.644	.653	.661	.659	.644	.623	.594
Oct	29.624	.609	.601	.599	.602	.610	.628	.640	.646	.644	.625	.605	.580
Nov	29.602	.585	.577	.574	.575	.586	.607	.619	.630	.632	.617	.595	.566
Dec													
Year													

PUERTO PRINCIPE, CUBA.

[λ = 21° 23′ N.; φ = 77° 56′ W.]

Jan	29.719	.710	.699	.695	.694	.703	.718	.734	.752	.759	.749	.735	.705
Feb	29.659	.648	.636	.632	.635	.645	.659	.670	.682	.690	.683	.671	.635
Mar	29.663	.653	.641	.638	.646	.657	.671	.684	.695	.696	.691	.676	.650
Apr	29.629	.617	.607	.607	.615	.627	.643	.653	.660	.660	.652	.634	.612
May	29.611	.599	.588	.588	.595	.605	.618	.625	.632	.633	.624	.611	.592
June	29.570	.559	.550	.548	.553	.562	.574	.583	.586	.589	.586	.578	.563
July	29.676	.665	.656	.654	.658	.666	.679	.690	.692	.695	.689	.678	.661
Aug	29.635	.623	.614	.611	.615	.622	.632	.640	.647	.650	.642	.630	.615
Sept	29.617	.603	.596	.598	.604	.613	.626	.637	.646	.646	.635	.619	.597
Oct	29.588	.574	.566	.568	.577	.590	.603	.611	.619	.619	.605	.586	.560
Nov	29.587	.576	.567	.568	.575	.588	.602	.615	.624	.623	.609	.591	.563
Dec	29.651	.642	.632	.631	.636	.649	.662	.676	.691	.694	.677	.659	.630
Year	29.634	.622	.613	.612	.617	.627	.641	.652	.660	.663	.654	.639	.615

SAN JUAN, PORTO RICO.

[λ=18° 27′ N.; φ = 66° 07′ W.]

Jan.	29.910	.903	.897	.897	.904	.916	.937	.962	.967	.962	.942	.922	.899
Feb	29.924	.914	.908	.910	.920	.931	.948	.960	.968	.965	.945	.924	.898
Mar	29.894	.886	.885	.888	.897	.912	.927	.940	.944	.942	.927	.913	.894
Apr	29.871	.862	.862	.868	.879	.892	.908	.917	.918	.911	.898	.883	.858
May	29.840	.833	.829	.833	.843	.856	.866	.870	.871	.868	.857	.846	.831
June	29.861	.856	.854	.857	.867	.877	.885	.890	.891	.889	.882	.875	.862
July	29.941	.931	.926	.928	.936	.945	.954	.958	.962	.961	.955	.947	.934
Aug	29.900	.893	.889	.893	.900	.910	.919	.922	.928	.926	.915	.903	.887
Sept	29.884	.875	.871	.876	.886	.895	.907	.913	.922	.918	.904	.890	.873
Oct	29.852	.845	.840	.845	.856	.867	.879	.888	.894	.886	.867	.849	.830
Nov	29.829	.821	.822	.826	.838	.852	.865	.876	.881	.870	.851	.833	.813
Dec	29.873	.863	.856	.858	.867	.879	.898	.914	.922	.915	.894	.875	.853
Year	29.882	.874	.870	.873	.883	.894	.908	.918	.922	.918	.903	.888	.869

SANTIAGO DE CUBA.

[λ=19° 55′ N.; φ = 75° 50′ W.]

Jan	29.929	.920	.912	.910	.914	.923	.942	.955	.973	.972	.951	.922	.895
Feb.	29.895	.883	.873	.873	.883	.897	.911	.919	.934	.938	.921	.896	.872
Mar	29.889	.876	.866	.870	.883	.895	.910	.919	.928	.925	.909	.888	.866
Apr	29.855	.846	.839	.844	.855	.865	.878	.886	.887	.884	.873	.858	.838
May	29.830	.818	.809	.815	.823	.837	.850	.855	.856	.850	.839	.826	.812
June	29.811	.798	.791	.793	.801	.811	.823	.826	.829	.830	.824	.817	.807
July	29.902	.892	.888	.889	.895	.905	.913	.917	.920	.916	.911	.901	.889
Aug	29.870	.857	.849	.853	.862	.869	.878	.884	.883	.879	.866	.856	.843
Sept	29.850	.840	.833	.836	.847	.856	.870	.879	.881	.879	.863	.850	.828
Oct	29.831	.819	.812	.817	.826	.836	.847	.855	.864	.859	.841	.822	.804
Nov	29.829	.817	.811	.813	.824	.835	.847	.851	.868	.866	.847	.824	.800
Dec	29.878	.869	.865	.861	.868	.890	.890	.902	.904	.917	.896	.873	.845
Year	29.864	.853	.846	.848	.857	.868	.880	.887	.894	.893	.878	.861	.842

AVERAGE PRESSURE IN INCHES AND THOUSANDTHS FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KINGSTON, JAMAICA.

[H = 286 ft.; gravity correction, —.06; local time, 7m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jan.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Feb.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	June.
.631	.617	.610	.614	.623	.636	.657	.673	.687	.692	.688	.659	.703	.607	July.
.598	.588	.583	.588	.599	.613	.633	.649	.662	.667	.663	.632	.678	.577	Aug.
.577	.568	.572	.579	.588	.602	.620	.641	.648	.649	.645	.621	.667	.567	Sept.
.566	.556	.556	.563	.574	.590	.613	.627	.631	.630	.628	.606	.654	.552	Oct.
.551	.543	.542	.549	.561	.581	.602	.611	.616	.617	.614	.590	.639	.537	Nov.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dec.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Year.

PUERTO PRINCIPE, CUBA.

[H = 352 ft.; gravity correction, —.06; local time, 12m slow.]

.684	.674	.674	.682	.694	.705	.720	.735	.741	.736	.725	.714	.773	.660	Jan.
.611	.598	.595	.603	.615	.630	.645	.658	.664	.664	.660	.645	.700	.590	Feb.
.628	.611	.605	.611	.627	.645	.660	.675	.686	.685	.677	.657	.705	.599	Mar.
.593	.577	.571	.678	.592	.609	.628	.642	.650	.649	.644	.623	.673	.563	Apr.
.575	.558	.553	.558	.574	.591	.605	.620	.629	.629	.621	.601	.645	.548	May.
.549	.538	.529	.535	.548	.567	.578	.584	.591	.593	.587	.567	.612	.519	June.
.645	.631	.626	.634	.645	.664	.677	.687	.695	.696	.688	.669	.710	.620	July.
.595	.580	.576	.587	.604	.619	.638	.648	.652	.651	.645	.624	.666	.567	Aug.
.575	.560	.556	.570	.583	.600	.618	.628	.635	.633	.627	.609	.653	.549	Sept.
.542	.532	.534	.547	.566	.575	.596	.608	.612	.605	.597	.583	.632	.525	Oct.
.549	.545	.546	.557	.569	.587	.604	.609	.613	.611	.600	.587	.631	.540	Nov.
.615	.609	.611	.619	.629	.642	.653	.666	.670	.665	.656	.648	.699	.600	Dec.
.597	.584	.581	.590	.604	.620	.635	.647	.653	.651	.644	.627	.675	.573	Year.

SAN JUAN, PORTO RICO.

[H = 82 ft.; gravity correction, —.06; local time, 36m fast.]

.890	.885	.888	.895	.904	.920	.933	.940	.939	.933	.925	.919	.972	.879	Jan.
.886	.882	.885	.891	.902	.919	.933	.941	.942	.940	.935	.924	.971	.879	Feb.
.880	.872	.873	.880	.888	.899	.912	.920	.922	.918	.909	.905	.947	.863	Mar.
.848	.842	.843	.853	.863	.877	.888	.900	.902	.895	.887	.880	.922	.837	Apr.
.824	.818	.819	.825	.835	.848	.860	.868	.871	.861	.852	.847	.880	.814	May.
.851	.843	.844	.851	.862	.874	.884	.892	.896	.890	.880	.871	.907	.836	June.
.924	.917	.915	.920	.830	.943	.952	.965	.970	.964	.953	.943	.975	.911	July.
.879	.871	.870	.875	.883	.897	.909	.923	.927	.920	.911	.902	.939	.867	Aug.
.863	.859	.861	.868	.877	.889	.899	.910	.909	.904	.896	.890	.926	.854	Sept.
.820	.818	.822	.830	.842	.855	.866	.875	.876	.870	.861	.856	.899	.813	Oct.
.807	.809	.815	.825	.836	.847	.857	.865	.862	.857	.850	.842	.885	.800	Nov.
.843	.843	.849	.857	.865	.878	.890	.897	.896	.887	.881	.877	.924	.836	Dec.
.860	.855	.857	.864	.874	.887	.899	.908	.909	.903	.895	.888	.929	.849	Year.

SANTIAGO DE CUBA.

[H = 82 ft.; gravity correction, —.06; local time, 3m slow.]

.880	.875	.877	.888	.897	.916	.934	.950	.954	.952	.942	.924	.985	.867	Jan.
.856	.848	.851	.856	.867	.877	.894	.908	.911	.909	.899	.890	.944	.842	Feb.
.854	.845	.844	.855	.864	.879	.891	.907	.910	.909	.904	.887	.934	.837	Mar.
.822	.809	.808	.811	.824	.836	.855	.872	.881	.881	.872	.853	.899	.801	Apr.
.798	.787	.785	.800	.811	.823	.836	.847	.854	.853	.843	.827	.869	.779	May.
.794	.787	.784	.791	.799	.811	.824	.836	.842	.840	.830	.813	.856	.772	June.
.875	.870	.865	.871	.880	.895	.910	.924	.932	.927	.914	.900	.938	.855	July.
.827	.818	.820	.825	.836	.851	.870	.886	.893	.890	.881	.860	.903	.812	Aug.
.814	.805	.807	.816	.828	.844	.862	.874	.878	.874	.865	.849	.891	.798	Sept.
.791	.780	.782	.791	.804	.820	.838	.851	.853	.846	.839	.826	.874	.773	Oct.
.789	.785	.790	.803	.812	.827	.840	.854	.857	.854	.846	.829	.877	.778	Nov.
.831	.828	.831	.843	.853	.870	.881	.897	.901	.895	.884	.874	.926	.822	Dec.
.828	.820	.820	.829	.840	.854	.870	.884	.889	.886	.877	.861	.908	.811	Year.

AVERAGE PRESSURE IN INCHES AND THOUSANDTHS FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SANTO DOMINGO, SANTO DOMINGO.

[λ=18° 28′ N.; φ=69° 53′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.951	.938	.931	.926	.932	.946	.968	.993	.007	.000	.986	.958	.931
Feb													
Mar													
Apr													
May													
June													
July*	29.947	.941	.936	.938	.949	.960	.968	.971	.975	.967	.959	.945	.929
Aug	29.917	.906	.899	.901	.909	.921	.934	.940	.943	.937	.929	.915	.897
Sept	29.901	.891	.884	.888	.896	.908	.923	.932	.935	.928	.914	.894	.873
Oct	29.872	.860	.854	.857	.868	.883	.899	.906	.912	.904	.885	.862	.840
Nov	29.858	.845	.841	.840	.854	.870	.887	.896	.905	.895	.872	.847	.822
Dec.†	29.920	.907	.900	.903	.910	.928	.948	.961	.974	.966	.944	.919	.888
Year													

WILLEMSTAD, CURAÇAO.

[λ=12° 06′ N.; φ=68° 56′ W.]

Jan	29.816	.806	.795	.797	.805	.818	.844	.863	.870	.865	.846	.824	.792
Feb	29.841	.831	.824	.827	.836	.852	.874	.887	.898	.896	.877	.852	.822
Mar	29.811	.803	.801	.805	.814	.828	.844	.854	.858	.856	.839	.820	.795
Apr	29.790	.781	.778	.783	.792	.803	.820	.830	.834	.830	.818	.799	.777
May													
June													
July													
Aug.‡	29.819	.816	.816	.816	.817	.824	.834	.841	.843	.840	.829	.814	.797
Sept	29.797	.791	.792	.794	.801	.811	.823	.836	.837	.832	.816	.799	.781
Oct	29.798	.791	.788	.790	.799	.808	.819	.829	.834	.830	.815	.794	.772
Nov	29.765	.760	.757	.759	.764	.773	.785	.797	.801	.797	.783	.762	.746
Dec													
Year													

*For 19 days. †For 22 days. ‡For 15 days.

AVERAGE PRESSURE IN INCHES AND THOUSANDTHS FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SANTO DOMINGO, SANTO DOMINGO.

[H=57 ft.; gravity correction, —.06; local time, 20m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.911	.904	.906	.917	.929	.947	.965	.977	.977	.971	.964	.951	.010	.894	Jan.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Feb.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	June.
.917	.907	.909	.919	.930	.946	.957	.973	.980	.974	.963	.948	.988	.904	July.
.884	.875	.872	.880	.893	.906	.923	.938	.943	.940	.928	.914	.955	.867	Aug.
.862	.860	.864	.873	.880	.896	.915	.927	.928	.922	.913	.900	.944	.852	Sept.
.824	.821	.825	.835	.845	.865	.885	.893	.894	.890	.882	.869	.916	.816	Oct.
.811	.811	.819	.835	.848	.865	.881	.890	.890	.883	.875	.816	.912	.807	Nov.
.875	.872	.877	.890	.900	.915	.928	.937	.935	.930	.922	.919	.975	.869	Dec.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Year.

WILLEMSTAD, CURAÇAO.

[H=75 ft.; gravity correction, —.07; local time, 24m fast.]

.774	.762	.761	.768	.780	.801	.818	.834	.839	.837	.832	.814	.874	.758	Jan.
.800	.788	.785	.791	.801	.813	.831	.849	.854	.855	.851	.839	.902	.783	Feb.
.780	.766	.765	.768	.777	.794	.807	.826	.834	.836	.827	.813	.861	.763	Mar.
.760	.744	.741	.744	.755	.770	.783	.799	.810	.810	.803	.790	.837	.738	Apr.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	June.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	July.
.778	.764	.759	.760	.770	.783	.801	.815	.823	.824	.821	.809	.847	.757	Aug.
.765	.752	.748	.752	.761	.778	.795	.804	.810	.809	.804	.795	.839	.746	Sept.
.758	.747	.746	.751	.760	.777	.792	.804	.806	.806	.803	.792	.838	.745	Oct.
.734	.727	.724	.730	.735	.749	.766	.777	.781	.780	.778	.764	.805	.723	Nov.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dec.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BASSETERRE, ST. KITTS.

[λ=17° 18′ N.; φ=62° 48′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	74.6	74.7	74.5	74.4	74.2	74.3	76.0	78.0	79.1	79.2	79.9	79.7	79.8
Feb	73.8	73.8	73.7	73.3	73.5	73.9	76.3	78.4	79.2	80.0	80.6	80.6	81.0
Mar	73.4	73.4	73.0	72.3	72.6	73.2	75.5	77.1	77.7	78.7	79.7	79.6	79.8
Apr	75.9	75.8	75.7	75.8	75.5	76.7	77.5	78.5	79.6	80.5	80.9	81.3	81.0
May	76.3	76.1	76.0	76.2	76.4	78.2	80.0	81.1	82.0	82.6	82.8	82.7	81.7
June	78.9	78.6	78.3	78.5	78.3	79.4	80.6	81.9	82.5	82.5	83.1	83.3	83.4
July	78.8	78.5	78.5	78.6	78.6	79.8	81.2	82.3	83.1	83.7	84.3	84.6	84.0
Aug	79.0	78.8	78.8	78.7	78.7	80.0	81.9	83.0	83.7	84.6	85.0	85.3	84.6
Sept	79.1	79.1	79.1	78.9	78.8	79.9	81.7	82.8	84.2	84.7	85.0	84.9	84.3
Oct	77.4	77.2	76.8	76.8	76.4	77.7	81.0	82.7	83.8	84.3	84.7	84.2	84.2
Nov	77.4	77.5	77.2	77.0	76.9	77.7	79.0	80.7	81.2	81.8	82.5	82.4	82.2
Dec	75.8	77.5	75.2	75.4	75.1	75.5	77.4	79.6	80.3	81.2	81.3	81.3	80.7
Year	76.7	76.6	76.4	76.3	76.2	77.2	79.0	80.5	81.4	82.0	82.5	82.5	82.2

BRIDGETOWN, BARBADOS.

[λ=13° 04′ N.; φ=59° 37′ W.]

Jan	73.5	73.3	73.5	73.4	74.0	75.5	79.0	80.4	82.1	82.4	83.4	83.4	83.2
Feb	73.5	73.3	73.1	72.9	73.0	74.5	78.7	80.3	81.9	82.8	83.4	83.4	83.3
Mar	73.5	73.1	72.6	72.2	72.7	75.2	78.7	80.5	81.9	82.7	83.5	83.7	83.4
Apr	75.5	75.2	75.0	74.7	75.8	78.7	80.9	82.4	83.8	84.1	85.3	85.2	84.9
May	76.6	76.4	75.9	75.9	77.0	79.8	82.3	83.3	84.3	84.2	84.2	84.6	84.4
June	77.8	77.7	77.3	77.1	77.5	79.6	81.5	83.2	83.8	84.7	85.1	85.2	85.5
July	76.5	76.1	75.9	76.0	76.2	78.2	80.6	82.3	83.2	83.9	85.3	85.9	85.5
Aug	77.1	77.0	76.6	76.6	76.4	78.5	81.8	83.4	84.5	85.2	85.3	85.4	85.3
Sept	78.1	77.7	77.5	77.3	77.6	79.9	82.7	84.4	85.7	86.4	86.5	86.8	86.4
Oct	75.9	75.4	75.3	75.1	75.1	77.7	81.5	83.4	84.2	85.1	85.0	84.7	84.3
Nov	76.9	76.7	76.5	76.4	76.4	78.4	81.5	83.1	83.9	83.8	84.4	84.6	84.6
Dec	74.7	74.2	73.9	73.8	73.8	75.3	79.1	81.0	82.1	82.8	83.5	83.5	83.2
Year	75.8	75.5	75.3	75.1	75.5	77.6	80.7	82.3	83.4	84.0	84.6	84.7	84.5

CIENFUEGOS, CUBA.

[λ=22° 11′ N.; φ=80° 33′ W.]

Jan	61.9	61.5	61.1	60.8	60.5	60.3	60.2	61.4	66.2	69.9	72.5	73.9	75.0
Feb	65.2	64.5	63.8	63.3	62.8	62.5	62.6	64.4	68.9	72.1	74.6	75.9	77.0
Mar	69.1	68.4	68.0	67.4	67.2	66.7	67.0	70.0	74.5	76.8	78.7	79.8	80.3
Apr	70.6	70.1	69.5	69.1	68.6	68.4	70.1	73.4	77.8	79.9	82.1	83.1	83.6
May	73.7	73.4	72.6	72.2	71.9	71.5	74.3	77.9	81.1	83.0	84.8	85.8	85.1
June	76.8	76.3	76.1	75.9	75.7	75.7	77.6	79.6	82.5	83.9	85.2	85.9	86.0
July	75.5	75.2	74.8	74.5	74.1	74.2	76.6	79.3	83.6	85.0	86.5	87.4	87.9
Aug	75.0	74.7	74.3	74.1	73.9	73.7	75.5	78.5	82.6	83.9	85.8	87.1	87.3
Sept	75.1	74.6	74.4	73.8	73.6	73.4	75.0	77.4	82.2	84.5	85.7	86.8	87.5
Oct	74.8	74.2	73.7	73.3	73.0	72.6	73.8	76.6	81.0	83.0	84.1	84.9	85.4
Nov	71.3	70.9	70.6	70.2	69.9	69.8	70.4	73.0	77.2	79.9	81.2	82.7	83.2
Dec													
Year													

HAVANA, CUBA.

[λ=23° 09′ N.; φ=82° 21′ W.]

Jan	64.4	63.9	63.7	63.3	63.0	62.8	63.2	63.9	65.7	69.1	70.7	71.8	72.1
Feb	66.6	65.6	64.6	64.0	63.6	63.5	63.8	65.2	67.5	70.5	72.1	73.5	74.3
Mar	69.4	68.2	67.8	67.4	67.0	66.6	66.7	69.1	72.6	75.9	77.6	78.5	78.2
Apr	71.0	70.2	69.8	69.1	68.6	68.2	69.0	72.0	75.4	78.0	79.3	79.7	79.8
May	74.7	73.5	72.9	72.0	71.7	71.1	72.6	76.6	80.0	82.0	82.9	82.8	82.9
June	76.6	76.1	75.8	75.6	75.3	75.4	76.4	78.7	80.6	82.2	83.3	83.9	83.8
July	77.2	76.2	75.6	75.3	74.8	74.5	75.8	79.2	82.4	84.9	86.4	86.6	86.2
Aug	77.6	76.6	76.0	75.7	75.4	75.1	76.1	79.2	82.5	85.6	86.1	85.8	86.1
Sept	77.1	76.0	75.4	74.9	74.6	74.5	75.7	78.1	81.9	85.0	86.3	86.5	85.8
Oct	76.1	75.5	75.1	74.9	74.5	74.6	75.4	77.1	80.0	82.1	83.6	83.9	83.1
Nov	73.1	72.3	71.6	71.4	70.8	70.7	71.0	73.0	75.7	78.0	79.5	80.8	80.7
Dec	70.3	69.8	69.3	69.2	69.1	68.9	69.4	70.5	72.3	74.6	75.9	76.7	76.9
Year	72.8	72.0	71.5	71.1	70.7	70.5	71.3	73.6	76.4	79.0	80.3	80.9	80.8

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME.

BASSETERRE, ST. KITTS.

[h_t=41 ft.; local time, 41m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
79.3	78.7	77.7	76.7	75.6	75.4	75.3	75.0	75.1	75.0	74.8	76.5	81.7	72.2	Jan.
80.6	80.1	79.2	77.9	76.5	75.5	74.8	74.6	74.5	74.4	74.0	76.7	81.9	71.8	Feb.
79.4	78.8	77.9	76.5	75.4	74.9	74.9	74.4	74.2	73.9	73.9	75.8	81.2	70.6	Mar.
80.3	80.2	79.3	78.0	77.4	77.3	77.2	76.7	76.7	76.6	76.4	77.9	82.7	73.6	Apr.
81.7	81.7	80.9	79.6	78.5	78.1	77.9	77.5	77.1	76.9	76.5	79.1	84.3	73.7	May.
83.0	82.7	81.7	80.8	80.2	79.8	79.7	79.6	79.2	79.1	79.0	80.6	84.7	76.1	June.
83.6	83.5	82.4	81.1	80.2	79.7	80.1	79.5	79.4	79.2	79.0	81.0	85.9	76.0	July.
84.2	83.4	82.6	81.6	80.8	80.5	80.4	80.0	79.8	79.4	79.4	81.4	86.3	76.3	Aug.
84.2	83.8	82.8	81.4	80.7	80.2	80.0	79.7	79.7	79.8	79.4	81.4	86.5	76.5	Sept.
84.1	82.9	81.8	80.1	79.5	79.0	78.5	78.3	78.1	77.7	77.4	80.2	86.1	74.8	Oct.
81.9	80.7	80.0	79.0	78.8	78.7	78.8	78.1	78.0	77.8	77.6	79.3	83.9	74.1	Nov.
80.5	79.9	79.1	77.4	76.9	76.6	76.7	76.4	76.4	76.0	75.9	77.8	82.7	73.2	Dec.
81.9	81.4	80.4	79.2	78.4	78.0	77.9	77.5	77.4	77.2	76.9	79.0	84.0	74.1	Year.

BRIDGETOWN, BARBADOS.

[h_t=57 ft.; local time, 1h 2m fast.]

82.5	81.2	80.1	78.6	77.3	76.5	75.9	75.6	75.2	74.7	74.1	77.9	83.7	72.3	Jan.
82.6	81.9	80.7	79.1	77.4	76.3	75.7	75.2	75.0	74.9	74.5	77.8	83.8	72.0	Feb.
82.7	81.8	80.8	79.3	78.0	77.0	76.3	75.8	75.5	75.1	74.3	77.9	83.9	71.6	Mar.
84.3	83.3	81.9	80.3	79.2	78.4	77.9	77.7	77.4	77.0	76.5	79.8	85.7	74.0	Apr.
84.1	83.4	82.9	81.7	80.7	80.0	79.3	79.1	78.6	78.2	77.4	80.6	85.3	75.2	May.
85.2	84.4	82.8	81.8	80.8	80.1	79.9	79.5	79.4	78.7	78.2	81.1	86.3	75.9	June.
85.1	84.2	83.3	81.8	80.7	79.7	79.4	79.0	78.5	77.9	77.3	80.5	86.0	75.1	July.
84.9	84.4	83.3	81.9	80.7	79.9	79.5	79.1	78.7	78.4	78.0	80.9	86.3	75.4	Aug.
85.7	84.9	83.8	82.6	81.4	80.5	80.1	79.9	79.5	79.1	78.6	81.8	87.1	76.7	Sept.
84.1	83.5	82.5	80.9	79.6	78.5	78.1	77.8	77.3	76.9	76.4	79.9	85.9	74.4	Oct.
83.8	82.3	81.0	79.9	79.2	78.9	78.6	78.4	78.2	77.9	77.7	80.1	85.5	75.3	Nov.
82.5	81.7	80.3	78.8	77.5	76.8	76.5	76.4	76.2	75.8	75.3	78.3	84.2	73.0	Dec.
84.0	83.1	82.0	80.6	79.4	78.6	78.1	77.8	77.5	77.0	76.5	79.7	85.3	74.2	Year.

CIENFUEGOS, CUBA.

[h_t=62 ft.; local time, 22m slow.]

75.4	75.6	75.1	74.0	71.6	69.1	67.5	65.7	64.7	63.5	62.9	67.1	76.8	58.8	Jan.
77.2	76.7	76.5	75.5	73.7	71.8	70.5	68.9	68.5	67.5	66.4	69.6	78.6	60.5	Feb.
79.9	79.7	79.4	78.2	76.7	74.8	73.7	72.3	71.3	70.3	69.6	73.3	81.8	65.4	Mar.
83.5	82.7	81.7	80.6	79.2	76.9	75.6	74.0	73.0	71.9	71.3	75.7	85.1	67.7	Apr.
84.6	83.0	82.2	81.2	80.6	79.8	79.0	77.3	76.1	75.4	74.7	78.4	87.5	71.2	May.
85.0	84.0	83.6	82.1	81.2	79.9	79.3	78.4	77.7	77.2	76.8	80.1	87.8	74.4	June.
87.6	86.7	85.0	83.0	82.0	80.7	79.3	77.9	76.9	76.2	75.9	80.2	89.6	73.1	July.
86.6	85.4	83.8	82.5	80.8	78.0	77.5	76.2	75.8	75.8	75.4	79.3	88.9	72.7	Aug.
87.5	86.7	85.5	83.2	81.3	79.2	78.5	77.0	76.5	75.8	75.5	79.6	89.0	72.8	Sept.
85.2	84.9	84.3	82.1	80.7	79.3	78.2	76.8	76.1	75.2	75.1	78.7	86.9	72.1	Oct.
83.0	81.9	81.1	79.5	77.6	75.9	74.9	73.4	73.0	72.4	72.0	75.6	84.2	69.0	Nov.
														Dec.
														Year.

HAVANA, CUBA.

[h_t = 87 ft.; local time, 29m slow.]

72.1	72.2	71.9	71.1	69.8	68.7	68.1	67.6	66.8	66.4	65.7	67.4	73.5	60.6	Jan.
74.4	74.6	74.2	73.4	72.2	71.2	70.0	69.3	68.9	68.1	67.5	69.1	75.9	61.9	Feb.
78.3	78.1	77.3	76.6	75.4	74.0	72.8	72.1	71.4	70.7	70.0	72.6	80.7	65.3	Mar.
79.4	79.1	78.9	78.1	77.2	75.9	74.8	74.1	73.2	72.4	71.9	74.4	81.3	67.6	Apr.
82.6	82.5	82.0	81.7	80.7	79.7	78.5	77.8	77.2	76.5	75.6	77.9	84.1	70.9	May.
82.8	81.9	81.4	80.7	79.9	79.2	78.9	78.3	78.1	77.5	77.1	79.1	85.4	74.5	June.
85.6	85.2	84.6	83.1	82.3	81.5	80.5	79.6	79.1	78.5	77.8	80.5	87.8	74.1	July.
85.9	85.3	84.4	83.2	82.0	81.5	80.9	80.1	79.5	78.9	78.2	80.7	87.9	74.2	Aug.
85.2	84.4	84.1	82.6	82.0	80.7	80.0	79.6	79.0	78.5	78.0	80.2	88.4	73.9	Sept.
82.7	82.4	81.8	80.7	79.3	78.6	78.5	78.2	77.7	77.0	76.5	78.7	85.7	73.8	Oct.
80.8	80.5	79.7	78.4	77.0	76.1	75.7	75.4	74.8	74.3	73.7	75.6	81.8	69.9	Nov.
77.1	76.5	75.9	74.8	73.6	72.9	72.4	71.7	71.4	70.9	70.4	72.5	77.7	67.5	Dec.
80.6	80.2	79.7	78.7	77.6	76.7	75.9	75.3	74.8	74.1	73.5	75.7	82.5	69.5	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KINGSTON, JAMAICA.

[λ = 17° 58′ N.; φ = 76° 48′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan													
Feb													
Mar													
Apr													
May													
June													
July	73.4	73.1	72.7	72.9	72.6	72.6	75.2	79.4	83.0	86.4	87.7	87.8	87.3
Aug	73.4	73.0	72.8	72.4	72.1	72.0	74.6	78.9	82.6	85.4	86.7	86.7	86.7
Sept	73.4	72.9	72.8	72.5	72.4	72.2	74.2	78.8	83.2	86.0	87.2	87.7	87.4
Oct	73.2	72.8	72.3	72.0	72.2	71.7	73.0	77.8	82.4	84.6	85.5	85.4	84.9
Nov	72.0	71.6	71.3	70.9	70.6	70.4	71.4	75.2	80.3	83.0	84.1	84.6	84.5
Dec													
Year													

PUERTO PRINCIPE, CUBA.

[λ = 21° 23′ N.; φ = 77° 56′ W.]

Jan	62.4	61.6	61.5	61.3	61.2	61.2	61.3	63.1	66.9	70.8	73.3	74.5	75.5
Feb	64.8	63.5	62.8	62.3	62.0	61.5	61.3	64.3	70.1	74.4	77.6	79.5	81.2
Mar	67.3	66.4	65.5	65.1	65.0	64.9	65.2	69.7	73.5	77.0	79.9	81.2	82.8
Apr	69.4	68.3	67.8	67.4	66.9	66.7	67.6	73.2	76.6	79.5	81.9	84.1	85.5
May	71.2	70.1	69.7	69.3	68.9	68.6	71.1	76.4	79.0	81.8	84.4	86.4	87.9
June	74.2	73.5	73.1	72.8	72.6	72.4	74.9	78.5	81.0	83.4	85.5	86.0	87.0
July[1]	73.4	73.0	72.4	72.2	72.2	72.3	75.3	78.8	81.3	83.6	86.1	87.4	88.7
Aug	73.8	72.9	72.6	72.2	72.0	71.7	74.3	73.8	81.9	84.4	86.7	88.3	89.7
Sept	73.3	72.4	71.8	71.6	71.2	71.2	73.1	78.1	80.9	83.7	85.5	87.3	88.8
Oct	72.5	71.6	71.4	71.1	70.7	70.1	71.2	76.3	79.6	82.4	84.5	86.5	87.1
Nov	69.9	69.0	68.7	68.5	68.5	68.4	68.7	72.5	76.3	79.1	80.6	84.1	83.0
Dec	67.5	66.6	66.4	66.0	65.8	65.9	65.8	68.9	72.3	75.5	77.6	79.2	79.9
Year	70.0	69.1	68.6	68.3	68.1	67.9	69.2	73.2	76.6	79.6	82.0	83.5	84.8

SAN JUAN, PORTO RICO.

[λ = 18° 29′ N.; φ = 66° 07′ W.]

Jan	72.6	72.4	72.5	72.2	71.9	72.1	73.1	74.5	76.5	78.4	78.9	79.0	79.1
Feb	72.2	71.6	71.6	71.1	70.9	70.6	72.0	75.9	78.9	81.1	81.4	81.6	82.8
Mar	72.7	71.9	71.2	71.1	70.8	70.8	72.1	75.7	78.0	79.1	79.5	79.7	79.8
Apr	73.5	73.2	73.2	72.9	72.8	73.0	74.9	77.6	79.4	80.2	80.9	81.1	81.9
May	74.6	74.4	74.3	74.1	73.8	74.4	76.5	79.0	80.7	81.2	81.2	81.7	81.7
June	76.8	76.5	75.8	75.8	75.6	76.3	77.9	79.7	81.8	82.4	82.7	82.4	82.6
July	77.1	76.6	76.5	76.0	75.9	76.7	78.9	81.0	82.9	83.9	83.8	84.1	84.2
Aug	77.8	77.4	77.1	76.9	76.3	76.8	79.1	81.6	83.8	84.4	84.5	85.0	85.1
Sept	76.4	75.7	75.8	75.6	75.4	75.4	77.5	80.5	83.6	84.2	84.6	84.6	84.6
Oct	75.6	75.3	75.0	74.8	74.6	74.6	76.8	79.3	82.7	83.7	83.9	83.8	83.8
Nov	74.5	74.3	74.0	73.7	73.4	73.5	75.3	77.4	80.6	81.5	82.3	82.5	82.1
Dec	74.2	73.9	73.7	73.6	73.3	73.1	73.7	75.3	78.6	80.0	80.5	80.7	80.9
Year	74.8	74.4	74.2	74.0	73.7	73.9	75.6	78.1	80.6	81.7	82.0	82.2	82.4

SANTIAGO DE CUBA.

[λ = 19° 55′ N.; φ = 75° 50′ W.]

Jan	68.1	67.7	67.5	67.2	67.0	66.6	67.0	68.8	73.0	75.5	77.8	79.1	79.9
Feb	68.6	68.1	67.4	67.2	66.9	66.9	67.4	69.6	74.8	77.8	79.6	80.5	80.6
Mar	70.1	69.2	69.0	68.7	68.4	68.1	69.9	74.2	78.5	81.2	82.5	82.8	81.7
Apr	70.7	70.2	69.7	69.2	69.0	68.8	73.0	76.6	81.2	83.0	83.9	84.2	83.6
May	72.5	72.1	71.8	71.5	71.2	71.8	75.4	78.4	82.3	84.6	85.9	85.2	84.1
June	74.0	73.4	73.3	73.1	73.1	73.5	76.7	80.3	83.4	85.2	85.8	85.2	84.0
July	74.3	73.5	73.0	72.6	72.2	72.3	75.9	80.2	84.4	86.9	87.7	87.4	86.6
Aug	74.1	73.3	73.0	72.6	72.5	72.7	75.7	80.4	84.6	87.0	87.9	87.9	87.8
Sept	74.3	73.6	73.2	72.6	72.7	72.7	75.7	80.1	84.4	87.0	87.4	87.0	86.5
Oct	73.7	72.9	72.4	71.9	71.7	71.8	74.1	77.9	83.2	85.6	87.2	86.3	86.0
Nov	71.6	71.3	70.9	70.6	70.5	70.4	71.5	74.8	79.3	82.2	84.2	84.4	84.2
Dec	70.6	69.8	69.7	69.3	68.9	68.9	69.8	72.6	76.7	79.8	81.9	82.9	82.9
Year	71.9	71.3	70.9	70.5	70.3	70.4	72.7	76.2	80.5	83.0	84.3	84.4	84.0

[1] Record for 29 days only.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

KINGSTON, JAMAICA.

[h_t=38 ft.; local time, 7m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1902.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jan.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Feb.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	June.
86.6	85.7	85.6	84.3	83.0	80.7	79.3	76.9	75.5	74.9	74.2	79.6	89.7	71.1	July.
85.7	84.4	83.5	83.5	82.3	79.9	78.5	76.7	75.4	74.7	73.9	79.0	88.6	71.0	Aug.
85.7	83.5	82.4	81.4	79.6	78.3	77.0	75.8	75.0	74.5	73.7	78.6	89.1	71.2	Sept.
84.0	82.7	81.9	81.4	79.1	77.1	76.0	74.9	74.3	73.9	73.3	77.8	87.4	70.7	Oct.
84.0	83.0	81.6	80.4	77.6	76.0	75.2	73.9	73.3	73.1	72.3	76.7	86.3	69.5	Nov.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dec.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Year.

PUERTO PRINCIPE, CUBA.

[h_t = 55 ft.; local time, 12m slow.]

76.0	75.7	75.4	73.8	71.3	68.7	66.5	65.5	64.7	63.9	63.6	67.5	77.2	59.0	Jan.
82.1	82.6	81.8	80.0	77.1	73.2	70.8	69.2	67.9	66.9	65.6	70.9	83.7	59.6	Feb.
84.5	84.3	84.0	81.5	78.6	75.2	73.2	71.6	70.2	69.0	68.0	73.5	85.4	63.5	Mar.
86.3	85.5	83.8	81.3	78.3	76.0	74.2	73.2	72.1	71.3	70.5	75.3	87.3	66.0	Apr.
87.8	86.8	85.1	83.4	80.9	78.3	76.4	75.1	74.0	73.1	72.1	77.4	89.2	68.4	May.
85.7	83.9	83.2	82.0	80.1	78.3	76.8	76.1	75.5	75.0	74.7	78.6	89.2	71.6	June.
88.6	88.2	86.7	84.1	82.5	79.6	77.2	75.8	75.4	74.7	74.2	79.3	90.2	71.2	July.
89.4	87.1	83.4	81.0	79.1	77.5	76.7	75.9	75.4	74.8	74.4	78.9	91.1	70.9	Aug.
89.3	86.6	85.0	82.1	80.0	78.1	76.6	75.5	74.9	74.2	73.7	78.5	90.1	70.6	Sept.
87.7	87.6	85.2	81.6	78.9	76.8	76.0	74.7	74.0	73.5	72.9	77.7	89.6	69.4	Oct.
82.9	82.6	81.5	79.6	76.8	74.7	73.5	72.6	71.7	71.0	70.5	74.7	84.3	67.4	Nov.
80.0	79.7	78.5	76.8	74.1	72.1	71.0	69.8	69.2	68.6	68.0	71.9	81.4	64.3	Dec.
85.0	84.2	82.8	80.6	78.1	75.7	74.1	72.9	72.1	71.3	70.7	75.4	86.6	66.8	Year.

SAN JUAN, PORTO RICO.

[h_t=48 ft.; local time, 36m fast.]

78.5	77.5	77.0	76.1	75.5	75.1	75.0	74.4	73.9	73.6	73.3	75.1	80.4	70.3	Jan.
82.8	82.4	81.5	79.9	78.0	76.6	75.8	74.9	74.0	73.2	72.5	76.4	84.3	70.1	Feb.
79.5	79.0	78.4	77.4	76.3	75.5	75.2	74.8	74.2	73.4	73.0	75.4	80.9	69.9	Mar.
81.3	80.7	79.8	78.9	77.6	76.4	76.1	75.6	75.2	74.7	74.0	76.9	82.8	71.9	Apr.
80.6	79.8	78.7	78.0	77.4	77.0	76.6	76.5	76.0	75.7	75.1	77.5	83.5	72.8	May.
82.4	81.8	81.1	80.0	79.2	78.2	77.9	77.3	77.4	77.4	77.0	79.0	84.3	74.4	June.
83.7	83.4	82.8	81.6	80.7	80.0	79.8	79.3	78.8	78.0	77.6	80.1	85.6	75.0	July.
84.6	84.3	83.6	82.5	81.4	80.6	80.2	79.5	78.9	78.7	78.2	80.8	86.6	75.2	Aug.
84.3	83.8	83.1	82.0	81.2	80.1	79.7	79.0	78.2	77.7	77.0	80.0	86.1	74.6	Sept.
83.4	83.0	82.3	81.3	80.2	79.3	78.6	77.9	77.3	76.7	76.1	79.2	85.6	74.0	Oct.
81.6	80.9	79.9	78.6	77.7	77.1	76.6	75.8	75.6	75.1	74.7	77.5	83.4	72.4	Nov.
80.6	80.0	78.9	77.9	76.5	76.1	75.9	75.2	74.9	74.6	74.4	76.5	82.1	72.1	Dec.
81.9	81.4	80.6	79.5	78.5	77.7	77.3	76.7	76.2	75.7	75.2	77.9	83.8	72.7	Year.

SANTIAGO DE CUBA.

[h_t=46 ft.; local time, 3m slow.]

79.7	79.0	78.1	76.5	74.5	72.5	71.3	70.6	70.0	69.3	68.7	72.3	81.1	65.5	Jan.
80.8	80.7	78.9	77.9	76.2	74.6	72.9	72.0	71.0	70.4	69.5	73.3	82.7	65.0	Feb.
81.5	80.6	78.7	77.6	76.1	74.6	73.7	72.6	71.8	71.3	70.4	74.7	84.4	66.8	Mar.
83.0	82.3	80.9	79.9	78.4	76.7	75.4	74.4	73.3	72.4	71.9	76.3	86.0	67.8	Apr.
83.5	82.6	80.9	78.1	76.8	76.0	75.4	74.5	74.3	73.8	73.3	77.3	87.6	70.3	May.
83.5	82.8	81.0	79.8	78.4	77.7	77.1	76.1	75.6	75.1	74.8	78.4	87.3	72.1	June.
86.4	85.1	83.1	81.8	80.1	78.7	78.1	77.0	76.3	75.5	75.0	79.3	89.6	70.9	July.
87.8	86.4	84.9	82.9	80.6	79.4	78.5	77.3	76.6	75.6	75.0	79.8	90.3	71.5	Aug.
85.7	84.9	83.4	82.3	80.3	78.7	77.4	76.9	76.2	75.5	75.1	79.3	89.7	71.5	Sept.
84.7	84.3	83.1	82.0	80.4	78.6	77.2	76.4	75.8	75.0	74.5	78.6	88.5	70.7	Oct.
82.9	81.3	79.9	78.7	76.9	75.6	75.0	74.5	74.0	73.2	72.4	76.3	85.9	69.3	Nov.
82.5	81.7	80.4	78.1	75.9	74.3	73.7	72.9	72.6	71.8	71.3	75.0	84.3	67.7	Dec.
83.5	82.6	81.1	79.6	77.9	76.4	75.5	74.6	74.0	73.2	72.7	76.7	86.4	69.1	Year.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SANTO DOMINGO, SANTO DOMINGO.

[λ=18° 28′ N.; φ=69° 53′ W.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	69.7	69.4	69.1	68.7	68.3	68.3	68.2	71.0	73.8	76.9	78.4	79.3	79.9
Feb													
Mar													
Apr													
May													
June													
July[a]	73.9	73.2	72.9	72.5	72.5	73.2	77.3	80.3	83.7	85.3	84.2	84.8	83.6
Aug	74.4	73.7	72.9	72.6	72.2	72.3	75.7	79.0	82.6	84.5	84.2	84.9	84.1
Sept	73.0	72.8	72.4	71.8	71.6	71.8	75.4	79.4	83.1	84.5	84.6	84.4	83.9
Oct	72.7	72.0	71.5	71.0	70.8	70.8	74.3	77.7	81.9	83.3	84.4	84.5	84.2
Nov	71.2	70.3	70.0	69.8	69.2	69.1	72.1	75.4	79.7	81.7	83.1	83.9	83.1
Dec.[b]	70.7	70.2	70.0	69.5	69.4	69.1	70.9	74.0	78.3	80.6	82.1	82.4	83.0
Year													

WILLEMSTAD, CURACAO.

[λ=12° 06′ N.; φ=68° 56′ W.]

Jan	76.4	76.2	75.7	76.0	76.1	76.2	77.3	78.9	80.2	81.1	81.7	81.7	81.7
Feb	76.4	76.0	75.8	75.8	75.9	75.8	77.2	78.4	80.3	80.9	81.5	82.1	82.0
Mar	75.9	75.9	75.6	75.5	75.3	75.6	77.5	78.8	80.4	81.2	81.5	81.6	82.0
Apr	77.6	77.5	77.4	77.3	77.3	77.5	79.2	80.1	81.5	82.4	83.3	83.6	83.2
May													
June													
July													
Aug.[c]	78.9	78.3	77.8	77.7	77.6	78.2	79.9	81.9	83.3	83.9	84.9	85.9	86.5
Sept	79.1	78.8	78.6	78.2	78.1	79.0	80.9	82.5	84.0	84.8	85.3	85.6	86.0
Oct	78.5	78.2	78.1	77.9	77.9	78.8	80.6	82.5	83.3	83.7	84.4	84.9	85.0
Nov	78.5	78.1	78.0	78.1	78.0	78.3	80.0	81.7	82.8	83.5	84.1	84.4	84.2
Dec													
Year													

[a] Record for 19 days. [b] Record for 22 days. [c] Record for 15 days.

AVERAGE TEMPERATURE (DEGREES FAHRENHEIT) FOR EACH HOUR OF SEVENTY-FIFTH MERIDIAN TIME—Continued.

SANTO DOMINGO, SANTO DOMINGO.

[h_a=37 ft.; local time, 20^m fast.]

2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	Mid.	Mean.	Mean max.	Mean min.	1902.
79.7	79.3	78.3	77.3	75.1	73.4	72.2	71.3	70.7	70.2	69.9	73.3	80.9	67.7	Jan.
														Feb.
														Mar.
														Apr.
														May.
														June.
83.8	83.5	82.8	80.3	79.2	78.0	77.3	76.2	75.4	75.0	74.6	78.5	86.6	72.2	July.
83.9	83.0	82.8	81.9	80.8	79.4	78.6	77.1	76.4	75.6	75.2	78.7	86.1	72.0	Aug.
83.6	82.6	81.0	79.8	78.5	77.1	76.8	75.6	75.0	74.1	73.6	77.8	86.5	71.3	Sept.
83.7	83.4	82.4	80.5	79.4	77.9	76.8	75.4	74.5	73.8	73.3	77.5	85.3	70.3	Oct.
82.9	81.6	80.1	78.3	76.7	75.0	74.3	73.3	72.6	72.1	71.7	75.7	84.9	68.8	Nov.
81.5	80.8	80.0	78.5	76.6	75.1	74.0	73.1	72.5	72.0	71.1	75.2	83.9	68.7	Dec.
														Year.

WILLEMSTAD, CURACAO.

[h_a=39 ft.; local time, 24^m fast.]

81.4	81.3	80.5	79.3	78.2	77.9	77.6	77.5	77.4	77.0	76.6	78.5	83.2	74.8	Jan.
82.1	81.6	80.9	79.3	78.1	77.4	77.3	76.9	76.9	76.7	76.7	78.4	83.6	75.4	Feb.
82.0	81.5	80.4	78.8	77.6	77.1	77.0	76.9	76.8	76.6	76.4	78.2	83.7	74.4	Mar.
83.1	82.5	81.5	80.1	79.2	78.7	78.6	78.5	78.3	78.1	77.9	79.8	84.7	76.7	Apr.
														May.
														June.
														July.
85.9	85.3	84.3	82.5	81.4	80.8	80.5	80.1	79.5	79.5	79.4	81.4	87.1	76.9	Aug.
85.8	84.9	83.8	82.5	81.4	81.1	80.6	80.3	80.1	79.9	79.5	81.7	87.1	77.4	Sept.
85.4	85.1	83.7	82.0	80.9	80.6	80.5	80.2	79.9	79.7	79.4	81.3	86.6	77.5	Oct.
84.5	84.0	83.0	81.7	80.6	80.1	80.0	79.8	79.5	79.3	78.9	80.9	86.1	76.9	Nov.
														Dec.
														Year.

WIND—VELOCITY AND FREQUENCY.

BASSETERRE, ST. KITTS.

[λ=17° 18′ N.; φ= 62° 48′ W.] [Seventy-fifth meridian time.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	8.3	8.1	8.4	8.1	8.4	8.4	8.9	8.7	9.8	10.4	10.9	10.6	11.3	10.5	10.5	9.5	8.6
Feb	7.3	6.8	6.8	6.6	6.6	6.9	8.3	9.9	11.2	11.2	11.5	11.6	11.2	10.9	10.3	9.5	8.5
Mar....	8.8	8.1	8.5	8.5	8.3	8.2	8.5	9.8	10.6	11.1	11.2	11.4	11.3	11.2	10.9	10.1	9.3
Apr	9.2	8.9	8.8	9.1	8.9	9.1	10.4	10.4	11.2	11.5	12.1	12.3	11.8	11.1	10.5	10.1	9.5
May ...	6.7	6.7	5.7	5.4	5.8	5.9	7.0	7.6	8.3	8.7	8.7	8.7	8.6	8.2	7.8	7.1	6.8
June ...	9.6	9.2	9.7	9.4	9.7	9.9	11.0	11.6	11.7	12.4	12.4	11.9	12.1	12.2	11.5	10.5	9.9
July ...	9.5	9.1	9.5	9.4	9.4	9.9	10.1	11.2	11.7	11.8	11.6	11.5	12.0	11.1	10.9	10.7	10.4
Aug....	8.8	8.3	8.1	8.0	8.1	8.3	9.8	11.0	11.5	12.0	12.5	11.9	11.8	11.4	11.1	10.7	9.8
Sept....	7.6	7.5	7.4	7.0	7.1	7.3	8.0	9.4	10.2	10.5	10.7	10.2	9.9	9.8	9.0	8.7	8.1
Oct	5.2	5.3	5.1	5.0	5.1	5.2	5.8	7.2	8.5	8.7	8.9	9.1	8.7	8.2	7.3	6.7	5.6
Nov....	8.2	7.7	7.4	7.3	7.5	7.7	8.2	9.5	10.4	10.7	11.0	11.5	11.4	10.9	10.3	9.6	8.9
Dec	6.5	6.9	6.9	6.6	6.9	6.4	6.8	8.3	8.9	9.5	9.3	9.4	9.6	9.2	8.5	7.4	6.7
Year ...	8.0	7.7	7.7	7.5	7.6	7.8	8.6	9.6	10.3	10.7	10.9	10.8	10.8	10.4	9.9	9.2	8.5

BRIDGETOWN, BARBADOS.

[λ=13° 04′ N.; φ=59° 37′ W.]

Jan	4.9	4.9	5.0	5.5	5.5	6.1	6.6	10.3	12.5	13.0	12.6	12.9	13.3	12.6	12.1	10.9	9.3
Feb	5.0	5.6	5.9	6.0	5.8	6.0	7.8	12.4	14.3	14.6	15.0	14.9	14.8	14.4	13.7	12.9	11.3
Mar....	6.1	6.2	5.8	6.1	6.3	6.2	8.5	12.3	13.6	14.1	14.3	14.2	14.2	13.4	12.7	12.2	10.8
Apr	6.5	6.8	6.8	7.3	7.6	7.9	12.4	14.4	15.2	15.5	15.8	15.2	15.7	15.1	14.5	13.8	12.7
May ...	5.2	5.1	5.4	5.4	5.3	5.7	9.0	10.7	11.5	12.7	13.6	12.6	12.4	12.3	11.2	10.2	9.0
June ...	7.6	7.6	7.9	7.5	7.5	7.6	10.5	12.5	13.8	13.7	14.1	14.4	14.1	14.1	13.5	12.7	10.6
July ...	5.4	5.3	5.6	5.5	5.8	5.9	8.0	10.0	10.4	10.9	11.8	11.7	11.2	10.7	10.2	9.5	8.2
Aug....	5.1	5.0	5.4	5.7	5.5	5.5	8.0	10.9	11.5	12.2	12.6	12.5	12.3	11.7	11.6	10.4	8.8
Sept....	5.1	5.5	5.0	5.1	4.9	4.7	7.1	10.4	11.5	11.9	12.0	12.5	11.9	11.3	10.4	10.0	8.0
Oct	3.7	4.3	4.4	4.5	4.2	4.4	6.1	8.9	10.4	11.0	11.2	11.1	10.5	10.5	9.8	8.6	6.4
Nov....	6.4	6.3	5.9	5.6	5.6	5.6	6.9	9.4	11.0	12.1	12.0	12.6	12.7	12.2	11.2	9.8	8.0
Dec	4.8	5.0	4.8	4.8	4.7	4.6	5.8	9.1	10.4	10.7	11.4	11.1	11.3	10.5	10.0	8.9	6.6
Year ...	5.5	5.6	5.7	5.8	5.7	5.8	8.1	10.9	12.2	12.7	13.0	13.0	12.9	12.4	11.7	10.8	9.1

CIENFUEGOS, CUBA.

[λ=22° 11′ N.; φ=80° 33′ W.]

Jan	6.4	6.5	6.3	6.4	6.5	5.4	5.7	5.5	6.2	8.2	10.5	10.6	10.5	9.9	10.0	10.2	9.9
Feb	6.1	6.2	6.3	6.4	6.5	6.1	5.8	5.5	5.8	6.7	7.7	8.9	10.2	10.6	11.2	11.1	10.8
Mar....	7.5	7.5	7.2	6.8	7.2	6.5	6.1	5.9	6.8	8.3	9.2	10.5	11.6	11.8	12.3	12.3	12.5
Apr	5.5	5.0	5.3	5.4	5.2	4.8	4.8	5.2	6.9	8.1	9.3	9.2	9.4	9.6	10.6	10.4	10.3
May ...	6.5	6.2	6.2	6.2	6.0	5.7	5.8	6.4	6.9	7.4	7.8	8.3	9.5	9.8	10.0	9.2	8.0
June ...	6.0	5.5	5.8	5.5	5.4	5.2	5.6	6.0	6.9	7.5	8.6	9.6	10.1	10.1	9.9	9.5	8.8
July ...	5.7	6.0	6.4	6.2	5.9	5.9	5.4	5.8	6.2	6.3	7.7	8.2	8.5	9.7	9.7	9.4	9.6
Aug....	4.8	4.7	4.5	4.7	4.6	4.8	4.3	3.9	3.9	5.0	5.9	6.4	7.5	8.0	8.5	8.0	7.2
Sept	5.0	4.5	4.8	4.7	5.0	5.0	4.4	4.1	3.6	3.8	4.9	6.0	6.5	7.7	8.2	8.2	7.5
Oct	4.3	4.3	4.5	4.4	4.3	4.3	3.9	3.5	3.9	4.9	6.5	7.5	8.8	9.6	9.6	9.4	8.4
Nov....	6.2	5.8	5.7	5.7	5.5	5.4	5.0	5.2	7.2	9.0	9.6	9.9	10.1	10.9	10.9	10.5	9.2
Dec																	
Year ...																	

HAVANA, CUBA.

[λ=23° 09′ N.; φ=82° 21′ W.]

Jan	9.9	9.5	9.9	10.0	8.9	9.2	9.6	9.5	9.5	11.6	14.2	14.4	14.9	15.7	17.1	17.5	17.7
Feb	9.0	9.4	8.9	8.7	8.7	8.8	8.8	9.6	10.9	12.2	13.6	12.9	13.0	14.5	15.0	14.8	14.4
Mar....	9.7	9.3	8.6	8.5	8.4	8.4	8.5	9.8	12.0	15.1	14.1	14.1	15.5	16.8	18.0	18.5	18.3
Apr	7.9	7.4	7.4	7.3	7.5	7.2	6.9	8.2	11.8	13.1	12.9	15.8	18.1	19.2	19.4	19.1	19.2
May ...	6.9	6.0	5.3	5.0	5.3	5.4	6.1	8.3	13.1	13.2	14.9	16.4	18.9	20.7	21.7	21.1	20.5
June ...	8.3	7.7	7.9	7.8	7.5	7.1	7.7	9.6	12.7	14.8	16.1	16.2	17.2	18.3	18.3	18.0	17.1
July ...	6.1	5.5	5.7	5.4	5.6	5.7	6.8	8.6	12.3	12.7	12.7	13.2	16.1	18.4	18.8	18.9	17.6
Aug....	4.9	4.8	4.6	4.4	4.5	4.7	4.5	4.4	6.4	7.2	9.1	10.3	12.0	13.8	14.3	13.0	11.1
Sept	5.4	5.2	5.4	4.7	4.9	5.3	5.0	5.1	7.2	8.4	8.6	9.2	11.2	13.4	13.7	13.1	12.2
Oct	6.1	5.9	6.5	6.6	6.6	7.1	6.6	7.0	8.6	10.2	9.6	10.2	11.9	12.8	12.7	12.0	11.5
Nov....	8.8	9.0	8.2	7.9	8.1	8.4	9.0	8.6	10.6	15.0	16.6	16.0	16.7	17.1	17.2	17.5	16.4
Dec	11.1	10.3	9.7	9.9	9.8	9.8	10.2	10.7	11.5	14.2	17.7	18.2	18.7	18.8	19.0	18.9	16.8
Year ...	7.8	7.5	7.3	7.2	7.2	7.3	7.5	8.3	10.6	12.3	13.3	13.9	15.4	16.6	17.1	16.9	16.1

WIND—VELOCITY AND FREQUENCY.

BASSETERRE, ST. KITTS.

[h_a=54 ft.; local time, 49m fast.] [Seventy-fifth meridian time.]

6h p. m.	7h	8h	9h	10h	11h	Mid.	Mean	Max vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	C.	1902.
7.8	8.1	8.3	8.0	8.0	7.9	7.7	9.0	23	32	295	346	21	26	12	1	11	0	Jan.
7.6	7.1	7.0	7.1	7.4	7.4	7.0	8.6	23	48	136	371	49	51	11	2	4	0	Feb.
8.7	8.8	8.8	8.8	8.7	8.8	8.7	9.5	22	71	268	333	11	15	23	12	11	0	Mar.
8.5	8.7	9.5	9.5	9.9	10.0	9.7	10.0	32	9	154	430	47	40	34	4	2	0	Apr.
6.4	6.5	6.9	7.1	6.9	6.9	7.1	7.1	27	74	232	328	39	38	27	3	3	0	May.
9.1	10.0	10.0	10.0	10.6	10.1	9.4	10.6	34	13	65	567	46	13	9	4	3	0	June.
9.5	9.4	9.5	9.8	9.8	9.6	9.5	10.3	24	2	139	600	3	0	0	0	0	0	July.
9.2	9.4	9.5	9.4	9.4	8.9	8.6	9.9	32	13	161	530	22	10	2	1	5	0	Aug.
7.1	7.6	8.0	8.1	7.8	7.6	7.7	8.4	25	26	175	501	17	1	0	0	0	0	Sept.
4.7	5.8	6.1	5.6	5.6	5.6	5.4	6.4	26	84	180	385	36	23	26	4	6	0	Oct.
8.3	8.9	8.9	8.8	8.5	8.4	7.9	9.1	25	33	202	354	17	48	50	4	12	0	Nov.
6.4	6.8	7.0	6.8	6.3	6.6	6.7	7.5	29	67	229	366	49	21	7	3	2	0	Dec.
7.8	8.1	8.3	8.2	8.2	8.2	8.0	8.9	34	472	2,236	5,111	357	286	201	38	59	0	Year.

BRIDGETOWN, BARBADOS.

[h_a=65 ft.; local time, 1h 2m fast.]

6.2	5.4	5.2	5.1	5.1	5.2	5.0	8.1	24	0	242	447	55	0	0	0	0	0	Jan.
7.4	5.6	5.4	5.1	5.4	5.5	5.9	9.2	24	0	150	446	76	0	0	0	0	0	Feb.
8.0	6.2	5.9	5.9	6.0	6.3	6.2	9.2	25	0	361	307	57	17	0	0	0	2	Mar.
9.8	8.2	7.9	7.6	7.8	7.4	7.0	10.8	24	0	65	576	78	1	0	0	0	0	Apr.
7.1	5.8	5.4	5.5	5.6	5.6	5.2	8.2	25	0	7	316	421	0	0	0	0	0	May.
8.8	8.4	8.2	8.0	7.3	7.5	6.7	10.2	24	1	38	523	158	0	0	0	0	0	June.
6.4	5.9	5.6	5.6	5.5	5.5	5.2	7.7	22	0	132	545	67	0	0	0	0	0	July.
7.0	6.1	5.9	5.7	5.6	5.5	5.4	8.2	35	0	143	469	131	1	0	0	0	0	Aug.
5.9	5.3	5.4	5.1	5.4	5.2	5.4	7.7	25	10	142	408	157	0	0	0	0	3	Sept.
4.7	4.2	4.1	3.9	3.7	3.8	4.0	6.6	25	0	64	390	272	9	0	3	6	0	Oct.
6.4	6.4	6.4	6.5	6.2	6.2	6.7	8.3	28	0	68	448	185	17	0	0	0	2	Nov.
5.8	4.8	5.0	5.2	5.2	5.0	4.9	7.1	22	0	146	486	111	1	0	0	0	0	Dec.
7.0	6.0	5.9	5.8	5.7	5.7	5.6	8.4	35	11	1,558	5,361	1,768	46	0	3	6	7	Year.

CIENFUEGOS, CUBA.

[h_a=67 ft.; local time, 22m slow.]

8.6	7.2	6.8	7.2	7.4	7.0	6.9	7.7	27	159	442	18	5	59	23	16	19	3	Jan.
10.1	8.2	6.5	5.8	5.9	6.2	6.5	7.5	26	96	242	32	62	138	48	29	25	0	Feb.
11.1	8.9	7.0	6.5	6.7	7.1	7.1	8.5	25	44	342	74	40	141	84	6	8	5	Mar.
10.1	9.5	8.0	7.1	6.1	5.8	6.0	7.4	24	70	336	90	36	90	72	7	19	0	Apr.
6.4	6.0	5.6	6.4	6.5	6.9	6.5	7.1	20	19	371	123	28	81	104	10	7	1	May.
7.7	6.6	5.5	5.6	6.4	6.2	5.9	7.1	25	21	312	135	45	129	67	4	6	1	June.
7.8	6.2	5.8	5.5	5.5	5.7	5.4	6.9	32	23	318	163	29	52	137	12	10	0	July.
6.4	6.1	5.8	5.7	5.6	5.3	4.8	5.7	30	34	250	198	45	48	108	22	36	3	Aug.
6.6	4.9	4.7	5.2	5.2	5.7	5.5	5.5	19	27	230	218	37	42	107	24	34	1	Sept.
7.0	5.4	4.9	5.1	5.0	5.3	4.8	5.8	25	10	202	221	55	50	165	23	12	6	Oct.
6.9	6.2	6.1	6.4	5.9	6.1	6.3	7.3	23	28	290	235	43	43	59	10	10	2	Nov.
																		Dec.
																		Year.

HAVANA, CUBA.

[h_a=105 ft.; local time, 29m slow.]

16.3	14.8	13.7	13.0	12.1	11.1	10.3	12.5	36	141	175	253	44	15	14	31	71	0	Jan.
13.1	11.0	10.3	11.2	11.2	10.8	10.4	11.3	48	80	77	123	71	93	27	78	117	6	Feb.
17.2	15.3	13.4	12.2	10.9	10.4	9.7	12.6	38	62	133	318	93	66	7	2	63	0	Mar.
18.4	15.8	13.0	11.3	10.3	9.2	8.0	12.3	38	77	173	256	65	36	20	12	81	0	Apr.
19.9	17.9	14.6	12.6	11.1	9.8	8.3	12.6	39	49	277	379	23	0	0	0	16	0	May.
16.4	15.0	13.2	11.6	11.6	11.2	9.7	12.5	43	18	222	351	45	48	15	6	8	7	June.
16.5	14.6	11.7	10.3	8.9	8.2	7.7	11.2	46	16	259	402	48	4	3	2	9	1	July.
9.9	8.5	7.7	7.3	6.4	5.4	5.3	7.7	32	63	138	290	105	48	23	27	49	1	Aug.
10.8	9.4	7.5	6.8	6.1	5.7	5.8	7.9	40	36	140	360	99	48	15	5	17	0	Sept.
10.1	9.4	8.7	8.7	8.1	7.8	7.4	8.8	39	49	144	255	119	78	30	24	42	3	Oct.
14.2	12.7	11.0	9.8	10.0	9.3	8.4	11.9	38	65	204	316	44	41	9	1	37	3	Nov.
14.7	12.8	12.6	12.2	11.1	11.0	10.6	13.3	41	168	149	265	49	32	0	1	77	3	Dec.
14.8	13.1	11.4	10.6	9.8	9.2	8.5	11.2	48	824	2,091	3,568	805	509	163	189	587	24	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

KINGSTON, JAMAICA.

[λ=17° 58′ N.; φ=76° 48′ W.] [Seventy-fifth meridian time.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan																	
Feb																	
Mar																	
Apr																	
May																	
June																	
July	4.5	4.6	4.5	4.9	5.0	4.9	4.7	3.4	3.0	4.3	6.4	10.5	12.7	13.4	12.8	10.5	8.7
Aug	4.5	4.5	4.5	4.4	4.5	4.7	4.6	3.5	3.3	4.0	6.5	9.6	13.8	15.3	13.3	10.9	8.1
Sept	4.3	4.4	4.6	4.6	4.9	4.9	4.9	3.7	3.0	4.3	5.7	9.6	12.6	14.0	12.7	9.2	6.9
Oct	4.6	4.8	4.9	4.8	5.3	4.9	4.9	3.8	2.9	4.1	6.0	9.5	11.3	12.2	11.3	8.7	6.9
Nov	4.9	5.0	4.9	5.0	5.4	5.1	5.1	4.2	3.1	3.3	4.5	5.9	7.6	8.7	8.7	7.6	6.0
Dec																	
Year																	

PUERTO PRINCIPE, CUBA.

[λ=21° 23′ N.; φ=77° 56′ W.]

Jan	5.3	5.2	5.0	5.4	5.3	5.0	5.1	5.3	7.5	14.2	13.5	13.1	12.7	12.1	12.0	11.8	11.6
Feb	4.2	3.6	3.4	3.4	3.3	3.2	3.6	3.7	6.8	9.8	9.1	8.8	8.4	8.5	9.0	9.7	10.9
Mar	5.4	5.2	4.6	4.3	4.6	5.1	5.4	7.2	12.5	13.3	11.7	11.4	10.7	11.1	11.5	12.3	14.2
Apr	3.7	3.5	4.0	3.6	3.2	3.4	3.7	6.3	9.2	9.5	8.6	8.4	9.1	9.3	10.3	11.2	12.2
May	4.6	4.1	3.9	3.7	3.9	3.6	4.5	9.6	11.8	10.1	9.2	9.3	9.7	10.4	12.3	13.0	12.5
June	3.4	3.5	3.4	3.6	3.9	3.5	4.4	7.7	9.5	8.3	7.7	7.7	8.0	8.9	9.4	8.5	8.6
July	5.0	4.5	4.3	5.1	4.9	4.9	6.9	11.9	14.5	12.8	10.7	9.8	9.7	10.0	10.2	11.1	11.1
Aug	3.6	3.1	3.3	3.1	2.7	3.2	3.4	6.5	9.3	9.0	7.5	7.0	6.7	6.8	8.3	9.0	8.0
Sept	3.6	3.0	3.3	3.1	3.0	3.4	3.6	5.7	9.8	10.3	9.2	8.4	7.7	8.0	9.2	9.3	8.9
Oct	2.7	2.3	2.5	2.7	2.7	2.9	2.7	3.7	6.7	8.2	7.5	7.1	6.5	6.7	6.6	7.4	7.6
Nov	4.1	4.4	4.3	4.3	4.3	4.3	4.0	5.0	9.4	12.6	12.5	12.2	11.7	11.5	10.8	10.7	10.1
Dec	4.4	4.4	4.0	4.1	4.2	4.3	4.1	4.0	6.3	9.5	11.1	11.0	11.2	10.7	11.0	10.4	9.5
Year	4.2	3.9	3.8	3.9	3.8	3.9	4.3	6.4	9.4	10.5	9.9	9.5	9.3	9.5	10.0	10.4	10.4

SAN JUAN, PORTO RICO.

[λ = 18° 29′ N.; φ = 66° 07′ W.]

Jan	9.5	9.4	9.8	9.6	10.6	10.5	9.8	9.6	10.5	12.4	14.3	14.8	14.5	15.1	14.7	14.1	13.6
Feb	6.0	5.5	5.3	5.9	5.7	6.0	5.9	6.5	9.1	11.8	12.8	14.0	14.5	15.0	15.2	15.2	14.5
Mar	7.8	7.7	8.0	7.0	6.3	7.2	7.1	8.1	10.9	13.2	14.8	15.7	16.4	16.3	16.4	15.7	15.0
Apr	7.1	6.6	6.8	6.3	6.4	6.4	6.8	9.1	12.2	14.5	15.1	16.4	17.6	17.6	17.7	16.9	16.3
May	5.6	5.7	5.3	5.0	5.0	4.8	5.2	6.6	9.2	10.7	11.9	12.7	13.5	13.4	12.5	11.3	10.8
June	8.6	8.9	8.6	7.8	7.5	7.5	8.3	10.1	12.9	14.8	16.3	17.0	17.9	16.6	16.0	15.2	14.5
July	8.2	7.1	7.1	6.8	5.7	6.1	7.0	10.3	14.4	17.1	17.9	18.2	19.2	18.9	18.3	17.4	16.3
Aug	7.2	6.6	6.6	6.4	6.8	6.5	7.5	10.1	13.1	15.4	17.0	17.0	17.1	17.3	16.9	15.7	15.4
Sept	5.1	4.7	4.1	3.8	4.0	4.2	4.8	6.3	10.0	12.8	14.6	14.7	16.1	15.7	16.0	15.1	13.9
Oct	4.2	4.0	3.5	3.6	3.4	3.3	3.6	4.6	5.9	7.5	9.9	10.8	11.7	11.7	10.8	9.9	9.0
Nov	5.1	4.9	5.0	5.1	5.4	5.0	5.0	5.5	7.5	10.2	11.4	12.3	13.7	13.5	12.6	11.3	9.7
Dec	6.2	6.1	6.3	6.2	5.7	5.4	5.1	5.6	7.1	9.3	10.5	11.5	13.0	12.9	12.4	11.8	11.2
Year	6.7	6.4	6.4	6.1	6.0	6.1	6.3	7.7	10.2	12.5	13.9	14.6	15.4	15.3	15.0	14.1	13.4

SANTIAGO DE CUBA.

[λ = 19° 55′ N.; φ = 75° 50′ W.]

Jan	7.9	7.9	7.4	6.9	7.0	7.4	7.4	7.9	8.2	9.6	10.4	10.5	10.4	11.0	11.4	10.5	8.8
Feb	4.4	4.4	4.4	4.9	4.9	5.2	5.5	5.4	5.8	7.4	8.8	9.5	10.7	10.7	11.0	10.4	8.6
Mar	5.3	5.6	5.7	6.2	5.7	5.5	5.2	5.8	7.5	8.4	8.6	9.2	12.3	12.8	12.8	11.8	10.4
Apr	5.0	5.3	5.0	5.5	5.6	5.5	5.2	5.6	7.0	7.9	9.1	10.4	12.0	12.3	11.7	11.7	9.6
May	5.1	5.4	5.6	5.5	5.4	4.6	4.7	5.1	5.5	5.5	4.8	6.6	9.4	9.6	9.5	9.4	8.6
June	3.2	3.8	3.3	3.0	2.9	3.2	2.5	3.0	4.6	5.8	7.7	9.3	11.0	9.9	9.0	7.8	6.1
July	5.6	5.6	4.7	4.3	4.3	4.9	4.3	4.3	4.8	4.6	6.0	9.3	11.6	11.8	11.2	9.4	7.6
Aug	4.1	4.1	3.9	3.7	3.6	4.0	4.1	4.4	5.1	6.0	7.5	10.2	11.8	11.6	11.2	9.6	7.5
Sept	4.0	4.1	3.8	3.7	3.5	4.3	3.7	3.5	3.9	4.4	5.1	7.7	9.8	9.9	9.8	8.2	5.9
Oct	2.6	2.7	3.0	2.9	2.7	2.8	3.2	3.2	3.7	4.6	6.1	7.9	9.7	9.7	9.1	8.3	6.4
Nov	5.3	5.6	5.7	6.1	6.4	6.4	6.3	5.6	5.8	6.3	6.0	6.1	7.8	9.1	8.6	7.9	5.8
Dec	6.4	6.8	6.6	6.5	6.7	6.6	6.3	6.2	7.0	8.9	9.2	9.6	10.1	10.7	10.5	9.1	7.7
Year	4.9	5.1	4.9	4.9	4.9	5.0	4.9	5.0	5.7	6.6	7.4	8.9	10.6	10.8	10.5	9.5	7.8

WIND—VELOCITY AND FREQUENCY—Continued.

KINGSTON, JAMAICA.

[h_A=52 ft.; local time, 7^m slow.] [Seventy-fifth meridian time.]

6^h	7^h	8^h	9^h	10^h	11^h	Mid.	Mean	Max vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	C.	1902.
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	Jan.
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	Feb.
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	Mar.
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	Apr.
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	May.
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	June.
7.0	4.6	3.6	3.7	4.2	4.2	4.3	6.3	26	145	324	23	152	17	12	18	49	4	July.
5.5	4.4	3.3	3.9	4.0	4.3	4.5	6.2	27	126	341	15	167	24	14	17	38	2	Aug.
4.6	3.7	3.9	4.5	4.4	4.6	4.4	6.0	25	144	356	14	128	20	14	14	30	0	Sept.
4.5	3.4	3.7	4.1	4.1	4.5	4.4	5.8	26	95	389	27	158	30	8	7	29	1	Oct.
3.7	4.1	4.6	4.7	4.9	5.2	4.9	5.3	22	151	325	17	113	42	20	18	34	0	Nov.
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	Dec.
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	Year.

PUERTO PRINCIPE, CUBA.

[h_A=62 ft.; local time, 12^m slow.]

10.5	7.7	6.5	6.1	5.4	5.6	5.5	8.1	26	121	457	102	7	2	14	11	22	8	Jan.
9.9	7.9	5.6	5.0	4.8	4.1	3.9	6.3	31	84	219	94	37	84	66	28	33	27	Feb.
13.7	11.3	8.4	7.5	6.1	5.7	5.4	8.7	25	61	381	189	19	28	27	19	10	10	Mar.
11.8	9.2	7.0	5.8	5.0	4.5	3.9	6.9	23	34	377	149	25	26	30	22	28	29	Apr.
12.7	10.6	8.4	7.2	6.2	5.7	5.1	8.0	24	8	503	201	14	7	4	2	2	3	May.
8.5	7.9	6.4	5.0	4.5	4.4	3.8	6.3	27	11	311	217	63	39	34	9	9	27	June.
10.3	8.5	6.5	5.7	5.1	4.9	4.5	8.0	30	7	358	306	35	17	7	3	7	4	July
6.9	5.4	4.9	4.6	3.6	3.5	3.6	5.5	44	37	264	192	57	44	55	29	35	31	Aug.
6.9	6.0	5.2	4.4	4.1	4.0	3.6	6.0	26	13	317	227	54	29	36	14	12	18	Sept.
5.9	5.3	4.1	3.2	3.5	3.3	2.8	4.8	27	38	256	110	57	76	85	34	46	42	Oct.
7.4	6.0	5.4	5.3	4.3	4.0	4.0	7.2	24	39	420	169	26	16	18	12	3	17	Nov.
7.6	6.7	5.8	5.5	4.6	4.5	4.7	6.8	28	110	466	93	16	23	7	3	15	11	Dec.
9.3	7.7	6.2	5.4	4.8	4.5	4.2	6.9	44	563	4,329	2,049	410	391	383	186	222	227	Year.

SAN JUAN, PORTO RICO.

[h_A = 90 ft.; local time, 36^m fast.]

12.6	12.2	11.2	10.5	9.8	10.1	10.6	11.7	31	16	204	225	139	100	35	15	10	0	Jan.
12.1	10.0	9.1	8.1	6.8	6.0	5.5	9.4	27	10	53	128	264	174	31	5	7	0	Feb.
13.2	12.5	11.2	10.6	9.6	8.8	8.1	11.1	30	26	133	297	138	80	42	3	25	0	Mar.
14.4	12.1	10.6	9.3	8.8	8.6	8.0	11.3	28	4	98	243	236	108	19	5	7	0	Apr.
10.1	9.8	9.2	8.2	7.5	7.2	6.6	8.7	27	9	112	261	183	130	37	8	2	2	May.
12.6	11.5	10.4	9.6	9.6	9.4	8.8	11.7	30	2	15	298	328	41	20	8	7	1	June.
14.7	13.7	13.2	11.8	11.4	10.2	9.4	12.5	29	0	18	501	181	38	5	0	0	1	July.
13.9	12.6	11.6	10.3	9.0	8.0	7.4	11.5	38	0	44	380	229	63	24	3	1	0	Aug.
12.0	10.8	9.3	8.3	6.6	6.0	5.1	9.3	33	2	52	301	208	132	22	1	2	0	Sept.
8.0	6.7	6.3	5.4	4.7	5.1	4.3	6.6	28	12	103	155	153	233	69	13	6	0	Oct.
9.4	8.7	7.4	6.7	6.2	5.6	5.3	8.0	30	16	37	238	191	152	59	19	8	0	Nov.
9.3	8.6	8.2	6.8	6.2	6.3	6.2	8.2	30	8	79	208	221	157	51	13	7	0	Dec.
11.9	10.8	9.8	8.8	8.0	7.6	7.1	10.0	38	105	948	3,235	2,471	1,408	414	93	82	4	Year.

SANTIAGO DE CUBA.

[h_A = 52 ft.; local time, 3^m slow.]

7.2	7.1	7.2	8.2	8.0	7.6	7.3	8.5	24	398	73	6	60	37	16	18	132	4	Jan.
6.9	5.2	4.6	4.9	5.0	4.8	4.9	6.6	30	154	44	19	180	144	19	5	95	12	Feb.
8.1	6.2	6.1	6.0	5.5	5.3	5.2	7.6	30	282	45	17	161	133	20	6	75	5	Mar.
7.4	5.6	5.4	5.7	5.5	5.6	5.3	7.3	30	213	73	20	103	194	35	6	73	3	Apr.
5.5	4.2	4.5	5.5	6.0	6.1	5.6	6.1	30	362	73	22	49	143	26	8	58	3	May.
5.0	2.8	3.2	3.1	3.0	2.9	3.1	5.0	30	153	85	34	176	139	14	9	44	66	June.
5.9	4.6	3.8	4.0	4.4	5.1	5.1	6.1	27	291	97	16	169	107	2	5	55	2	July.
5.6	3.6	3.4	3.7	4.0	4.4	4.0	5.9	27	256	102	20	106	172	24	20	41	3	Aug.
4.2	3.4	3.1	3.3	4.0	3.9	3.8	5.0	24	267	85	53	93	141	16	6	56	3	Sept.
4.1	3.1	3.5	3.2	3.3	3.4	2.8	4.7	25	189	80	44	122	241	11	7	46	4	Oct.
4.7	4.4	5.2	5.9	5.9	6.0	5.5	6.2	23	316	122	30	105	82	10	8	42	5	Nov.
5.9	6.1	6.4	6.5	6.6	6.3	6.3	7.5	24	366	102	12	72	70	16	1	102	3	Dec.
5.9	4.7	4.7	5.0	5.1	5.1	4.9	6.4	30	3,247	981	293	1,396	1,603	209	99	819	113	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

SANTO DOMINGO, SANTO DOMINGO.

[λ=18° 28′ N.; φ=69° 53′ W.] [Seventy-fifth meridian time.]

1902.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	6.0	6.6	6.6	6.6	6.6	6.2	6.3	7.3	8.0	8.5	8.6	8.5	8.3	8.3	8.0	7.6	6.8
Feb	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Apr	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July[a]	5.1	5.2	5.3	5.2	4.8	5.2	6.9	6.4	5.8	5.6	5.3	6.4	7.0	7.8	7.8	7.2	6.2
Aug	4.5	4.8	4.8	4.8	4.7	4.6	5.2	5.6	4.9	5.2	6.7	7.0	7.7	7.4	7.0	6.7	6.5
Sept	4.5	4.9	4.7	4.9	5.0	5.0	5.4	5.8	5.4	4.8	5.8	6.5	6.7	6.9	6.3	6.2	5.8
Oct	4.2	4.5	4.6	4.7	4.8	4.8	4.8	5.0	4.1	3.9	5.0	5.9	6.2	6.2	5.8	5.6	5.0
Nov	5.3	5.6	5.3	5.5	5.6	5.8	5.9	6.7	7.0	6.5	6.3	6.2	6.4	6.1	5.9	5.5	4.5
Dec.[b]	5.7	5.8	5.9	5.8	5.7	5.5	5.6	5.9	6.5	6.5	6.4	6.2	6.8	6.8	6.4	5.9	5.6
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

WILLEMSTAD, CURAÇAO.

[λ=12° 06′ N.; φ=68° 56′ W.]

Jan	8.4	8.6	8.3	8.3	8.3	8.4	8.7	10.9	13.2	14.0	14.6	14.8	14.7	14.5	14.0	13.1	12.4
Feb	9.7	9.4	9.4	9.4	9.5	9.5	9.6	12.0	13.8	15.0	15.1	15.4	15.3	15.0	15.3	15.1	14.5
Mar	9.3	9.1	9.4	9.1	9.0	8.6	9.5	12.6	13.6	14.2	14.5	14.1	14.4	14.4	13.8	13.7	13.3
Apr	9.8	9.8	9.9	10.0	10.0	9.9	11.4	13.6	14.9	15.2	16.1	15.9	15.3	15.3	15.1	14.9	14.3
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug.[c]	10.8	10.2	10.3	10.5	10.7	10.5	12.5	14.5	15.3	15.9	15.7	15.6	16.4	16.7	17.5	17.1	16.6
Sept	10.0	9.9	9.6	9.5	9.2	9.1	11.0	13.7	14.5	15.0	15.0	14.6	14.9	14.9	15.1	15.4	15.3
Oct	7.9	7.7	8.2	7.5	7.6	7.5	8.8	10.6	11.7	12.3	12.8	12.6	13.1	12.9	13.2	13.0	12.6
Nov	8.0	8.0	8.0	7.9	8.0	8.5	9.2	11.8	12.9	13.7	13.8	13.7	13.6	13.1	13.2	12.8	12.2
Dec	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[a] Record for 19 days from 1 a. m. to noon; from noon to midnight, 20 days. [b] Record for 22 days. [c] Record for 15 days.

WIND—VELOCITY AND FREQUENCY—Continued.

SANTO DOMINGO, SANTO DOMINGO.

[h_a=44 ft.; local time, 20^m fast.] [Seventy-fifth meridian time.]

6^h	7^h	8^h	9^h	10^h	11^h	Mid.	Mean	Max vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	C.	1902.
6.2	8.7	5.6	6.0	6.2	6.3	6.4	7.0	24	530	117	14	38	25	5	2	9	3	Jan.
																		Feb.
																		Mar.
																		Apr.
																		May.
																		June.
5.6	5.1	5.1	5.2	5.0	5.0	4.9	[a]5.8	20	248	71	19	101	6	1	0	22	0	July.
5.1	4.7	4.9	4.7	4.6	4.6	4.7	5.5	20	308	105	29	175	71	2	9	45	0	Aug.
4.7	5.1	5.0	5.0	4.8	4.9	4.9	5.4	24	386	97	22	132	33	2	0	48	0	Sept.
4.1	3.9	4.1	4.1	4.4	4.5	3.9	4.7	19	306	86	28	173	63	4	1	83	0	Oct.
4.5	5.4	5.6	5.3	5.5	5.4	5.2	5.7	17	454	110	25	71	14	3	1	42	0	Nov.
4.5	4.7	4.7	5.1	5.1	5.5	5.4	5.8	15	350	57	13	64	17	0	0	27	0	Dec.
																		Year.

WILLEMSTAD, CURAÇAO.

[h_a=46 ft.; local time, 24^m fast.]

10.5	9.5	9.5	9.3	9.3	9.1	8.9	10.9	26	0	58	608	78	0	0	0	0	0	Jan.
13.2	11.8	11.4	10.9	10.5	10.4	10.2	12.1	29	0	26	565	81	0	0	0	0	0	Feb.
12.0	11.2	10.9	10.9	10.3	9.9	9.6	11.6	22	1	70	629	44	0	0	0	0	0	Mar.
12.9	11.7	11.2	11.4	10.8	10.4	10.3	12.5	26	0	22	602	53	9	27	6	1	0	Apr.
																		May.
																		June.
																		July.
15.7	15.0	14.9	14.3	13.7	12.6	11.7	13.9	26										Aug.
13.6	12.8	12.8	12.4	11.7	10.9	10.4	12.6	30	0	48	607	65	0	0	0	0	0	Sept.
11.5	11.0	10.8	10.4	9.6	9.4	8.5	10.5	23	1	24	560	149	8	2	0	0	0	Oct.
11.2	10.6	10.2	9.7	9.2	8.8	8.4	10.7	28	1	27	567	100	10	1	10	0	4	Nov.
																		Dec.
																		Year.

[a] For 19½ days.

SUNSHINE, 1902.

BASSETERRE, ST. KITTS T.).

[N. lat. 17° 18′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	
January	.....	.....	10	10	40	66	76	73	67	73	63	53	27	15	.....	.....	175.1	50
February	.....	.....	32	28	51	81	89	96	97	96	94	80	45	40	38	.....	228.8	70
March	.....	.....	6	8	40	56	72	75	79	77	71	51	19	15	15	.....	177.1	47
April	.....	14	14	16	34	48	69	62	69	58	48	23	5	5	7	.....	137.0	36
May	.....	7	4	8	21	44	50	58	51	39	27	7	1	.....	.....	.....	97.1	24
June	.....	.....	2	26	54	66	63	69	62	55	54	43	15	.....	.....	.....	152.5	39
July	.....	.....	.....	22	64	82	86	84	76	55	56	57	10	.....	.....	.....	183.1	45
August	.....	9	5	25	71	84	93	92	85	80	73	63	15	7	11	.....	217.4	55
September	.....	.....	.....	22	64	85	83	78	75	78	65	53	14	.....	.....	.....	186.5	51
October	.....	9	11	27	71	80	85	92	87	81	74	60	14	10	.....	.....	211.2	58
November	.....	.....	7	6	34	59	76	81	83	77	58	25	4	3	.....	.....	153.2	45
December	.....	.....	.....	.....	25	64	70	73	70	69	60	33	.....	.....	.....	.....	143.7	42
Sum	.....	39	91	198	569	815	912	933	901	838	743	538	169	95	71	.....	2,062.7	562
Percentage of possible.	.....	.....	.....	.....	48	68	76	78	75	70	62	45	.....	.....	.....	.....	171.9	47

BRIDGETOWN, BARBADOS (T.).

[N. lat. 13° 04′.]

January	.....	.....	49	53	72	83	83	82	88	84	79	70	51	59	.....	.....	256.2	72
February	.....	.....	26	31	60	84	83	91	87	87	87	76	65	52	52	.....	232.7	71
March	.....	50	62	62	81	90	93	96	96	93	88	79	66	43	41	.....	294.8	73
April	.....	44	35	54	81	90	94	91	93	91	82	76	53	26	29	.....	264.5	71
May	.....	15	17	34	48	62	62	66	70	61	59	35	21	5	7	.....	107.1	43
June	.....	26	28	36	53	56	49	55	56	65	54	39	10	12	14	.....	159.0	41
July	.....	41	44	46	50	61	64	68	77	74	67	42	26	31	31	.....	210.1	53
August	.....	48	51	58	66	72	70	75	72	69	65	57	33	38	48	.....	233.4	60
September	.....	49	57	60	72	83	90	85	79	73	64	49	22	18	33	.....	228.3	62
October	.....	53	53	55	72	76	79	82	72	68	63	48	45	47	.....	.....	233.8	64
November	.....	78	40	39	64	69	68	71	75	71	64	48	30	37	.....	.....	197.6	57
December	.....	.....	30	34	66	67	75	76	84	75	65	49	36	40	.....	.....	209.9	59
Sum	.....	404	492	562	785	893	910	938	949	911	837	668	458	408	255	.....	2,627.4	732
Percentage of possible.	.....	.....	41	47	66	74	76	78	79	76	70	56	38	34	.....	.....	219.0	61

CIENFUEGOS, CUBA (T.).

[N. lat. 22° 11′.]

January	.....	.....	39	62	88	93	97	96	94	97	94	90	89	58	.....	.....	294.8	87
February	.....	.....	51	74	87	92	96	96	96	93	94	91	89	53	.....	.....	275.5	86
March	.....	80	75	89	97	97	98	100	100	97	97	98	93	71	58	.....	344.6	92
April	.....	79	71	82	96	98	100	97	93	91	86	70	60	39	37	.....	306.3	81
May	.....	72	75	93	99	100	100	99	99	89	75	63	41	26	22	.....	316.0	77
June	.....	26	41	69	85	97	93	93	89	84	76	65	45	11	.....	.....	259.7	64
July	.....	51	65	92	96	100	99	98	98	97	89	65	42	18	14	.....	310.2	75
August	.....	62	63	84	94	93	96	92	87	78	69	40	25	10	11	.....	266.5	67
September	.....	71	73	79	93	96	95	93	94	87	70	55	27	16	4	.....	267.6	73
October	.....	84	68	71	88	88	82	88	85	73	61	37	8	7	.....	.....	230.1	64
November	.....	.....	63	68	85	90	87	90	92	84	71	45	32	30	.....	.....	240.9	72
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Percentage of possible.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

HAVANA, CUBA (T.).

[N. lat. 23° 09′.]

January	.....	.....	20	20	23	42	54	51	53	57	56	53	46	48	.....	.....	151.9	45
February	.....	.....	46	48	60	65	76	79	82	79	66	55	49	46	50	.....	202.7	68
March	.....	80	77	74	73	75	82	83	78	82	86	77	67	61	63	.....	284.0	76
April	.....	63	60	59	69	75	79	84	80	80	77	77	67	60	62	.....	273.7	72
May	.....	61	62	62	86	85	88	86	89	90	82	77	67	61	64	.....	314.7	77
June	.....	39	40	34	38	46	54	57	51	44	38	27	12	7	6	.....	145.3	36
July	.....	56	55	58	74	82	85	86	81	77	76	59	48	39	39	.....	274.9	66
August	.....	52	52	65	85	89	87	91	92	81	70	62	35	14	15	.....	263.2	66
September	.....	43	50	60	87	87	82	74	81	69	66	65	42	14	7	.....	235.9	64
October	.....	53	36	45	65	67	72	65	61	51	53	41	12	12	.....	.....	178.6	50
November	.....	.....	43	45	62	74	78	77	74	67	62	38	19	18	.....	.....	189.8	57
December	.....	.....	32	30	49	59	68	69	70	68	58	39	26	23	.....	.....	173.2	52
Sum	.....	447	573	598	771	847	905	902	892	845	790	670	490	403	306	.....	2,687.9	724
Percentage of possible.	.....	.....	48	50	64	71	76	75	74	70	66	56	41	34	.....	.....	224.0	60

SUNSHINE, 1902—Continued.

KINGSTON, JAMAICA (T.).

[N. lat. 17° 58′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—															Total. (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h	
January																	
February																	
March																	
April																	
May																	
June																	
July		29	34	75	88	98	97	80	71	70	58	60	52	35	28		261.5	64
August		32	35	77	88	91	88	84	84	71	57	46	35	17	19		245.6	62
September		41	41	80	96	99	92	94	92	76	52	31	16				233.1	63
October		37	32	74	89	90	85	81	84	74	59	44	26	14			233.2	64
November			49	67	83	93	91	94	87	83	73	64	33	20			246.3	73
December																		
Sum																		
Percentage of possible																		

PUERTO PRINCIPE, CUBA (T.).

[N. lat. 21° 23′.]

January			51	52	56	64	65	65	61	50	47	46	51	58			189.9	56
February			63	65	78	82	87	81	82	76	70	53	48	44	25		222.8	69
March		100	72	69	72	81	85	74	80	79	75	67	55	39	38		262.7	70
April		56	58	67	79	89	90	87	83	74	62	55	46	42	46		259.8	68
May		36	35	45	77	82	85	86	80	75	53	43	26	23	24		230.6	57
June		10	13	29	53	68	78	67	63	49	32	32	13	3	4		151.2	37
July		37	40	62	81	90	87	86	75	66	62	50	33	26	25		246.9	60
August		52	64	73	91	89	94	89	84	80	63	28	8	6	7		241.8	61
September		54	57	76	93	95	94	92	86	75	55	42	27	23	4		247.6	67
October		52	52	66	86	93	94	83	85	74	59	37	8				229.7	64
November			33	43	81	78	76	75	72	62	58	43	35	35			198.6	59
December			18	16	49	61	64	69	60	58	45	40	35	34			161.6	48
Sums		397	556	663	896	967	999	954	911	818	671	536	385	333	173		2,643.2	716
Percentage of possible			46	55	75	81	83	71	76	68	56	45	32				220.3	60

SAN JUAN, PORTO RICO (T.).

[N. lat. 18° 29′.]

January			3	5	33	50	59	71	66	59	48	32	13	8			138.0	40
February			29	52	87	95	96	90	84	90	91	90	83	58	56		261.6	81
March			29	52	77	83	88	90	83	84	83	79	62	36	26		202.2	70
April		5	10	51	66	74	76	72	74	79	73	64	52	28	20		218.0	58
May			4	43	72	79	81	78	72	59	35	26	16	5			176.6	44
June		3	6	17	44	58	62	56	53	54	45	40	34	10	11		146.4	37
July		3	8	46	73	83	85	78	75	73	60	50	46	18	4		218.4	54
August			2	28	79	80	77	76	77	73	70	64	43	9	7		210.9	53
September		31	35	51	88	86	89	80	86	76	66	54	39	9			229.9	63
October		37	41	78	89	95	92	86	77	75	69	62	36	16			253.1	70
November			6	28	68	69	78	83	81	71	62	41	5				177.2	52
December				5	44	56	68	69	70	68	65	42	4				152.0	44
Sums		79	178	456	820	913	951	929	898	861	767	645	435	197	124		2,444.3	666
Percentage of possible				38	68	76	79	78	75	72	64	54	36				203.7	56

SANTIAGO DE CUBA (T.).

[N. lat. 19° 55′.]

January			67	65	67	79	88	86	92	87	83	66	57	64			261.5	76
February			52	47	59	74	81	90	88	80	78	66	50	47	33		219.5	68
March		100	86	86	83	84	91	82	83	85	83	74	65	59	62		297.8	80
April		87	88	88	90	89	84	84	85	85	84	72	65	59	45		303.8	80
May		93	91	89	96	98	92	85	87	85	84	61	25	6	6		296.8	73
June		51	46	71	80	83	84	74	69	56	41	28	23	10	9		210.9	53
July		91	90	92	96	99	91	86	87	86	77	58	37	13	10		299.7	73
August		90	90	84	86	93	93	95	93	89	76	63	34	23	24		297.4	75
September		88	85	86	86	90	91	86	84	80	64	49	20	4			258.8	69
October		87	77	75	78	87	85	85	76	77	70	54	45	21			257.3	71
November			67	69	69	79	86	61	71	69	48	40	37	32			209.2	62
December			86	79	75	85	87	82	83	75	67	64	48	45			248.3	73
Sums		687	925	931	965	1,040	1,053	996	998	954	855	685	506	383	189		3,156.0	853
Percentage of possible			77	78	80	87	88	83	83	80	71	57	42	32			263.0	63

SUNSHINE 1902—Continued.

SANTO DOMINGO, SANTO DOMINGO (T.).

[N. lat. 18° 28′.]

1902.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	36	36	47	67	84	75	80	73	62	52	45	51	.....	.....	209.3	60
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July[1]	.....	74	83	94	100	100	100	95	95	92	83	79	59	22	16	.....	198.0	80
August	.....	59	63	77	90	99	100	94	93	92	80	80	62	32	18	.....	306.1	78
September	.....	67	73	95	98	100	100	94	94	93	87	80	61	18	.....	.....	301.6	82
October	.....	60	64	83	91	90	96	100	96	92	87	75	50	34	.....	.....	294.6	81
November	.....	.....	70	78	84	93	96	97	87	81	77	53	32	23	.....	.....	253.6	75
December	.....	.....	60	60	80	90	91	83	84	75	65	51	21	18	.....	.....	164.2	67
Sums	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Percentage of possible	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

WILLEMSTAD, CURAÇAO (T.).

[N. lat. 12° 06′.]

January	.....	.....	3	43	70	77	88	88	84	78	76	69	56	26	.....	.....	233.8	65
February	.....	.....	14	39	70	90	85	87	82	82	89	93	84	57	56	.....	244.7	74
March	.....	.....	6	34	70	77	79	70	62	67	67	67	50	18	13	.....	207.8	56
April	.....	.....	.....	22	37	55	74	76	68	66	60	55	47	9	3	.....	170.4	46
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August[2]	.....	54	53	51	69	89	90	90	95	91	95	93	85	73	71	.....	150.6	81
September	.....	50	50	42	54	73	87	88	84	88	86	81	69	61	71	.....	255.7	70
October	.....	47	45	40	43	50	55	69	75	74	67	61	40	38	.....	.....	202.6	55
November	.....	33	36	34	35	52	67	71	69	63	62	50	41	40	.....	.....	180.4	52
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sums	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Percentage of possible	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] For 19 days only.

[2] For 15 days only.

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