U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

REPORT

OF THE

CHIEF OF THE WEATHER BUREAU

1903-1904

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Of the Annual Report of the Chief of the Weather Bureau, four thousand copies; one thousand copies for the Senate, two thousand copies for the House, and one thousand copies for the Bureau.

LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF AGRICULURE,
WEATHER BUREAU,
Washington, D. C., October 4, 1904.

SIR: I have the honor to submit a report of the operations of the Weather Bureau during the fiscal year that ended June 30, 1904.

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.

WORK OF THE YEAR, WITH RECOMMENDATIONS.

FORECAST DIVISION.

PRACTICAL VALUE OF FORECASTS AND WARNINGS.

Weather forecasts for thirty-six and forty-eight hours in advance have been made daily throughout the year for each State and Territory, and special warnings of gales on the seacoasts, Gulf and Great Lakes, and of cold waves, frost, heavy snows, floods, etc., have been issued when the advices were calculated to benefit commercial, agricultural, and business interests. The North Atlantic and West Indian storm-warning service was continued, and forecasts for the first three days out of steamers bound for European ports were issued daily at 8 a. m. and 8 p. m. In a number of instances European shipping interests were notified of the character and probable course of severe storms that were passing eastward from the American coast.

A WEST INDIAN HURRICANE.

The first important tropical storm of the year moved from the Windward Islands of the West Indies over the Caribbean Sea and the Gulf of Mexico from August 8 to 15, 1903. The vortex of this storm passed over or near the island of Martinique during the night of the 8th–9th, reached Jamaica on the morning of the 11th, crossed the Cayman Islands during the evening of the 11th, advanced over northern Yucatan on the 13th, and apparently dissipated on the Mexican coast of Tamaulipas during the 15th. Except during its passage over Jamaica the center of this hurricane did not come within the region of observation. Beginning with the first indications of its appearance near the Windward Islands, however, shipping interests and West Indian stations were advised daily regarding its character and probable course. At Kingston, Jamaica, the barometer fell to a minimum of 28.80 inches, and on the island the losses to owners of banana plantations were estimated at more than 500,000 pounds sterling, and the destruction to houses, property, and plantations was appalling. At Grand Cayman Island a minimum barometer reading of 28.30 inches was recorded in the harbor of Georgetown, and of 23 vessels in the harbor but one was saved. Every tree or plant on the island was either blown away or had its leaves and small branches stripped off, crops were entirely destroyed, and about 200 houses were blown down or unroofed. Reports from vessels that encountered the storm in the Gulf of Mexico show that it diminished rapidly in intensity after passing westward from the Caribbean Sea.

VESSELS SAVED FROM A BAHAMA STORM.

In September, 1903, two storms of marked intensity advanced from the subtropical region north of the West Indies to the Atlantic coast of the United States. The first of these storms appeared over the Bahamas on the morning of the 10th, advanced north of west over the southern point of Florida by the morning of the 12th, moved northwestward over the eastern part of the Gulf of Mexico during the 12th and 13th, after which it diminished in intensity and finally dissipated over the South Atlantic States. At Nassau, New Providence Island, Bahamas, the wind reached an estimated velocity of 90 miles an hour, and at Cat Bay, Bahamas, a minimum barometer reading of 28.30 inches was reported. During its progress over Florida and the Gulf the storm destroyed property to the value of $100,000 from West Palm Beach to Miami, Fla.,

and 9 lives were lost by the stranding and breaking up of the British steamer *Inchulva* at Delray. The steamer and cargo were valued at $350,000. Other marine losses amounting to about $20,000 were reported on the eastern Florida coast. At Tampa, Fla., the barometer fell to 29.42 inches, the wind blew in squalls at a rate of 50 to 60 miles an hour, buildings were destroyed or damaged to the extent of about $200,000, and great havoc was wrought in the orange groves of the surrounding country.

The warnings and advices issued in connection with this storm permitted all possible precautions to save exposed property, and comparatively little damage was caused to vessels.

Mr. C. E. Garner, president of the Jacksonville Board of Trade, has written as follows regarding the warnings:

> I wish to express my appreciation of the timely warnings given by the Weather Bureau both at this point and at Tampa during the recent West Indian hurricane. They were especially valuable at Tampa, as I have steamers operating from that point to Manatee River and Terra Cela Bay points, and the notice we had from the Weather Bureau prevented our leaving port on Saturday, the 12th. The observer at Tampa kept us fully advised as to the situation there, and his warnings to vessels not to leave port, in my judgment, prevented serious disasters. I think it is very fortunate for the agricultural and shipping interests of this State that we have such an efficient service of the Weather Bureau, and that the service is in the hands of such capable and accommodating officials.

The Tampa Evening Herald of September 15 comments editorially regarding the storm, and says, in part:

> Too much credit for the saving effected can not be given to the Weather Bureau, and it is the intention of this article to direct public attention seriously toward one of the most valuable of the Government branches in this city.

The Weather Bureau observer at Jacksonville, Fla., reports that there is no doubt that a large amount of property and a number of lives were saved by the timely display of the storm warnings. During the displays ten vessels, the approximate value of which was one-quarter of a million dollars, remained in port at Jacksonville, and three vessels, valued at $135,000, at Fernandina. Sponge and fishing vessels, valued at nearly $200,000 and employing hundreds of men, remained in ports along the Florida coast, and the display of warnings undoubtedly saved many of these vessels and their crews. The observers at Tampa and Pensacola gave the widest possible distribution of the warnings, and state that they were, as usual, well heeded.

On September 16 a severe storm of small area advanced from the Atlantic Ocean and moved northward along the middle Atlantic coast, causing the loss of a number of lives and some destruction of crops and seaside property. Owing to the unusual character and course of this storm its indications did not result in a display of warnings until the morning of the 16th.

WARNING OF PACIFIC COAST GALES.

The severest storm of the year on the Pacific coast occurred on the night of March 9–10, 1904, when barometric pressure was below 29 inches on the Washington and Oregon coasts. The gales that attended this storm were severe from British Columbia to San Diego, Cal., and heavy rain fell in the coast districts and heavy snow in the mountain regions of the North Pacific States.

The Humboldt Standard, Eureka, Cal., of March 10, 1904, remarks as follows regarding the work of the Weather Bureau in connection with this storm:

> One of the most violent storms that ever occurred on the coast of northern California was heralded yesterday morning by the display of southeast storm warnings at the local Weather Bureau station. The warnings were ordered up by District Forecaster McAdie twelve hours before the storm struck this city. All of the shipping in the bay having ample notice from the Weather Bureau there was no damage to vessels, all shipping being securely tied up, with no vessels at anchor.

SPECIAL FORECASTS OF SNOW.

The following are some of the special snow warnings that, in addition to the regular forecasts, were issued for the benefit of transportation interests:

January 2, 1904: Snow will be heavy in the interior of New York and New England this afternoon and to-night, with high northeast shifting to northerly winds.

January 26, 1904: Heavy snow indicated for the interior of New York and New England during next twenty-four hours, with high southerly shifting in New York to much colder northwest winds to-night.

April 15, 1904: Heavy snow and high easterly shifting to northerly winds indicated for the lower Lake region to-night.

SAVINGS BY COLD-WAVE AND FROST WARNINGS.

The following comments have been made regarding cold-wave and frost warnings:

[The Daily Picayune, New Orleans, La., November 19, 1903.]

Sugar planters have been warned by the Weather Bureau to prepare for temperatures as low as 25°, and reports received seem to indicate that they are acting in accordance with the warnings, and protecting the cane crop. A temperature of 25° so early in the season would damage the cane crop to the extent of millions of dollars unless protection is accomplished. Since sugar cane grows richer in sugar content with every day that it is allowed to grow, many planters cut their cane only as fast as they can manufacture sugar. In some seasons grinding is completed without a freeze, and the cane harvested at the close of the season gives much greater production than that harvested at the opening. With a feeling of certainty that he will be warned by the Weather Bureau of an approaching freeze in time to enable him to protect his crop, the planter lets his cane grow until warned by the United States Weather Service to protect his crop. The Weather Bureau has in the past saved millions of dollars to the sugar planter, for there has not been a freeze in recent years but what the lowest temperature which occurred has been announced in warnings issued twenty-four to thirty-six hours in advance of its occurrence.

[The Savannah News of January 7, 1904.]

When the first intimation of the cold wave's approach was received at the Weather Bureau word was at once sent to florists and they were warned to have their fires up. These were immediately started, and when the wave reached here flowers were well protected.

[The San Francisco Call of January 20, 1904.]

Reports to-night from correspondents stationed throughout the orange districts of southern California are to the effect that the frost this morning did little damage to the citrus crop, which is now practically ready for market. Having received special warnings from the Weather Bureau, hundreds of ranchers resorted to smudging this morning and thereby removed all danger to their crops.

[The San Francisco Chronicle of March 20, 1904.]

The farmer shares equally with the merchant the advantages of Weather Bureau warnings, and every year this service increases in efficiency and value. Many millions of dollars have already been saved by the fruit growers of California by timely warnings sent out, enabling citrus growers to protect their crops against frost, and the raisin, prune, and apricot growers to stack their trays of drying fruit before overtaken by rain.

[The Daily States, New Orleans, La., March 4, 1904.]

The warnings of the United States Weather Bureau were, as usual, timely and accurate, and they enabled the protection of berry crops and truck gardens, and have thus saved thousands of dollars to the farming interests.

[The Advertiser, Montgomery, Ala., March 5, 1904.]

The Weather Bureau's warning saved many thousand young cabbages and tomatoes which were exposed in cold frames, almost ready to transplant, and which would have been killed had warnings not been received. This item of benefit from the Bureau's warnings means $50,000 or more to the truckers of this section. Had these young plants been killed, an entire new crop of early sets would have had to be started, which would make the vegetables too late to command lucrative prices in the northern markets. The warning, verified to the degree, was far enough in advance to be of great benefit.

RIVER AND FLOOD SERVICE.

PROGRESS IN WORK AGAINST ICE PACKS AND FLOODS.

Happily the floods of the year did not nearly approach in character and importance the great overflows of the spring of the year immediately preceding, with their destruction of over one hundred human lives and property valued approximately at over $40,000,000. There were, nevertheless, severe floods at various times, and in the management of the work occasioned by them the river and flood service continued to demonstrate its usefulness and growing efficiency as a valuable branch of the Weather Bureau. That there has been a constant increase in the accuracy of its work is evidenced by the more specific and detailed character of the forecasts and warnings in localities where such refined work had heretofore been considered practically impossible. The service performed during the prevalence of the great winter ice gorges in the Susquehanna, Allegheny, and Ohio rivers, with their attendant floods, was especially noteworthy. These gorges were the greatest in the history of the localities, and that their great dangers were minimized is due in no small degree to the timely advices and warnings of the Weather Bureau.

There were minor floods during nearly every month of the year, but each was amply covered by timely warnings. These floods were not in any sense alarming or dangerous, but they nevertheless attained sufficient importance to endanger a large amount of property, which without the benefit of the Weather Bureau advices and warnings would have been totally lost. As a matter of fact, considerable damage was done by these small floods, principally to growing crops which, of course, could not be protected, but the value of property saved by removal and otherwise was not far from $1,000,000.

ICE GORGES IN PENNSYLVANIA.

The great floods of the year were caused by the enormous ice gorges that formed in December in the Ohio and Susquehanna rivers, and continued during January in the Ohio and until late in March in the Susquehanna. The latter gorge was easily the greatest in our recorded history, the nearest approach to similar conditions having occurred in the same locality twenty-nine years before. From a short distance below Wilkesbarre, Pa., almost to the mouth of the river, a distance of 180 miles, there was practically a solid wall of ice, filling the river from bank to bank, and extending into the West Branch and Juniata rivers far up to their sources in the Alleghenies. In the North Branch of the Susquehanna, from Beach Haven to Sunbury, there was an unbroken mass of ice 40 miles in length and from 15 to 25 feet in height, much of it resting upon an entirely dry river bed. The floods caused by the gorges were very destructive. Towns, villages, farms, and railroad tracks were covered with masses of ice many feet in thickness, and bridges—some of them enormous steel structures—were moved from their piers. Below Harrisburg the destruction was even greater, although, owing to the wider channel, the ice was not piled so thick. Flood waters, carrying enormous masses of ice, were responsible for the major portion of the damage. At Middletown, Pa., the water reached a stage of 34.5 feet, the highest on record, and 5 feet higher than that of June 2, 1889, memorable as the period of the great Johnstown disaster. Some idea of the immensity of the gorges may be afforded by the statement that as late as May 20, 1904, ice in considerable quantities was seen in the Susquehanna River between Harrisburg and York Haven, Pa.

WARNINGS ON THE OHIO RIVER.

The Ohio River situation was equally unparalleled and almost equally grave, but very fortunately it was relieved without serious incident after a series of trying experiences and a prolonged period of apprehension. At Pittsburg the water reached a stage of 30 feet—8 feet above the danger line—and the official in charge of that station, with his corps of assistants, was compelled to remain on duty for forty-eight consecutive hours to receive reports from substations, issue warnings and advices, and furnish information to the public. Over 2,000 telephone calls were received and answered during that time. The Cincinnati situation was another that required the exercise of the best judgment as well as unremitting attention, the critical time coming when the ice gorges began to move. Elaborate preparations had been made for this event and its passage found no one unprepared.

It can readily be seen that these situations were such as to require the exercise of the best possible judgment, combined with the utmost vigilance and caution. The officials in charge of the districts were constantly on duty, day and night, during the critical periods. Every effort was made to keep the people over the districts thoroughly alive to the extreme danger and gravity of the situation, and to the success of these efforts may be attributed the extremely gratifying fact that there is no record of the loss of even a single human life during a period of such imminent danger. The property loss was very heavy, but there were no losses that could have been averted. The people had been thoroughly prepared and every possible precaution was taken.

LOWER MISSISSIPPI PROBLEMS.

The lower Mississippi flood of the spring of 1904 was not remarkable. The usual warnings were issued one to two weeks in advance, and there were no abnormally high stages of water except at Memphis, where a stage of 39 feet was recorded, but 1.1 feet below the great high-

water mark of the previous year. Some damage and inconvenience resulted, but the flood caused no great losses, and in a technical sense it afforded some extremely valuable contributions to our knowledge of the local régime of the Mississippi River.

The much-debated question as to the influence of the railroad embankment on Hopefield Point, opposite Memphis, in the apparent ponding of the waters of the Mississippi, has evidently been decided. The experiences of the last flood and that of the preceding year would seem to indicate that this water was not ponded, but that it was overflow water that had come through Reelfoot Lake district and was reentering the river.

It is also worthy of note that for the first time the St. Francis levee successfully withstood a severe flood.

EXTENSIONS OF THE RIVER AND FLOOD SERVICE.

Some extensions of the river and flood service have been made during the year. The Texas service was the first to be improved, the new service having begun promptly on July 1, 1903, with the addition of eleven reporting stations on the Sabine, Neches, Trinity, and Colorado rivers. Four days later the first flood warning was issued for the Trinity River. The North Pacific district has also been much improved, and the service will doubtless prove much more satisfactory in the future. Some lesser extensions have also been made, and the field of operations has been broadened during the year as much as the limited appropriations available would permit; but much yet remains to be done in order that the service may be made commensurate with the demands upon it. Very fortunately Congress, with a realization of the importance of the work, has appropriated a substantial increase for the river and flood service, and in a short time a considerable number of new stations will be in operation.

Arrangements have already been completed for the inauguration of a new service over the Kansas River watershed, the scene of the memorable floods of May, 1903.

LONG-RANGE FORECASTS.

It is hoped the time will come when it will be possible to forecast the weather for coming seasons—to specify in what respect the coming month or season will conform to or depart from the weather that is common to the month or season—but that time has not yet arrived, and the officials of the Weather Bureau have been informed that they will best serve the public interest when they teach the communities they serve the limitations of weather forecasting and warn them against imposition.

It is the opinion of the leading meteorologists of the world that the public interests are injured by the publication of so-called long-range weather forecasts, especially by such predictions as relate to severe storms, floods, droughts, and other atmospheric phenomena of a dangerous or damaging character. The publication of monthly forecasts has reached such proportions that it is deemed advisable to inform the public as to their harmful character. Some long-range forecasters may be honest, and may, in their ignorance, attach undue importance to storms that accidentally coincide in time of occurrence with certain relative positions of the planets, or with changes in the phases and positions of the moon, or with periods of increase or decrease in sun spots, or apparent variations in solar intensity. They may believe that they have discovered a physical law or a meteorological principle that has not been revealed to astronomers, meteorologists, or any other class of scientific investigators; but the publication of predictions that, by reason of their inaccuracy, are injurious to agricultural, commercial, and other industrial interests casts a serious doubt upon the honesty of their makers. Such publications bring the science of meteorology into disrepute, and can not, therefore, be made in response to a desire to advance that science along useful lines; and they retard the work of the honest investigator, through whose efforts only can such gains be made in the fundamental knowledge of the causation of weather as will justify the making of forecasts for a month or season in advance.

VERIFICATION OF LONG-RANGE FORECASTS.

As the result of personal verification of the work of long-range weather forecasters, some of whom have so far gained the confidence of the rural press as to receive liberal compensation for their predictions, I am led to the conclusion that these forecasters do positive injury to the public at large.

Professors Garriott and Henry have personally verified much of the work of several of the most popular long-range forecasters, and much of what follows on this subject is extracted from a report recently rendered by Professor Garriott.

The proof of a forecast is in its verification. Measured by this standard, long-range weather forecasts have an experimental value only, a value that does not justify their employment in the actual work of forecasting for specified dates and places.

Meteorologists who have conceived theories for long-range forecasting, or who have tested theories advanced by others, have applied to the theories the test of facts that are presented by meteorological records, and the results have been negative. Men who issue fake forecasts have adopted an opposite method—they have carefully ignored and concealed facts, and have depended upon advertisements of occasional successes that will inevitably occur in any system of chance.

The success of a long-range weather forecaster is usually measured by the extent to which he can impose upon the credulous and the ignorant. As a rule, it is impossible to subject the rambling and indefinite statements of the long-range weather forecasters to a verification. In the summer of 1903, however, one of these forecasters was induced to submit to the Weather Bureau some forecasts for verification. The forecasts consisted of an enumeration of certain dates around which "storms would cluster and develop great intensity." The periods, or dates, of maximum storm force, as given by the forecaster, appear in italics at the beginning of the six paragraphs next following, and a statement of the actual weather that occurred follows each date:

August 11, 1903: On this date there were no storms in any part of the United States, and no extraordinary weather conditions were manifested at any point within the region of observation, except that a tropical disturbance of small diameter was apparently moving westward south of Jamaica, West Indies. As the forecast did not specify in what part of the Northern Hemisphere the storms would reach their maximum intensity, it can not be considered that the occurrence of this storm in any way verified the forecast.

August 24, 1903: On this date no evidence could be discovered of an increase in storm force, the usual stagnant summer conditions prevailing in all parts of the United States.

September 7, 1903: On this date the weather conditions were not unusual. There were no storms of marked energy in any part of the country. A disturbance covered the northern Rocky Mountain region and the upper Missouri Valley, but it moved northeastward and did not in any way affect the region to the eastward. There was nothing unusual in the disturbance above mentioned. A storm of considerable energy developed, however, in the vicinity of the Bahamas on September 10 and persisted in the vicinity of the Gulf region until the 15th. No mention was made of this disturbance in the forecast.

September 21, 1903: On this date, likewise, the usual weather conditions prevailed in all parts of the region of observation.

October 6, 1903: On this date a depression of considerable magnitude covered the eastern slope of the Rocky Mountains. It moved eastward and developed into a severe storm on the Atlantic coast on the 9th and 10th, three days after the date set by the forecaster.

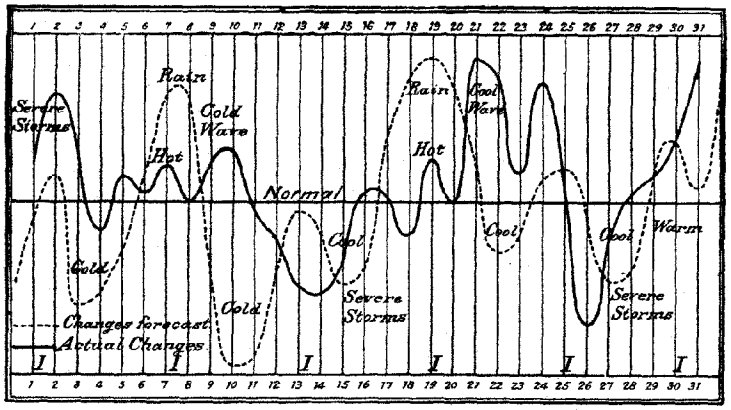
October 19, 1903: On this date the usual October weather prevailed in all parts of the United States. There was not the slightest evidence of increased storm energy on this date.

This is a plain statement of the weather conditions experienced on the dates when, according to the forecasts, the most severe storms of recent years were to occur. Let us quote one of the forecasts:

> Clustering around September 7 and 21, October 5 and 20, will come some of the most severe storms of recent years. These will be so general all around the earth that I advise all to be on guard near the dates named. Storms miss 99 out of 100 places, but you will at least read of tornadoes, hurricanes, cloud-bursts, electrical storms, and seismic disturbances in nearly all sections where these sometimes occur.

Considerable time has already been devoted to an examination of forecasts of this character, and the results thus far show that the forecasters possess no knowledge that would justify them in the making of predictions.

The character of the work put forth by long-range forecasters is illustrated in the diagram below, which was made by one of those claiming the largest share of public attention. The central line is supposed to represent the normal temperature for March, 1904, and the dotted line indicates the changes forecast for that month. When the dotted line passes above the normal line warmer weather is indicated, and when it falls below the normal line colder weather is indicated. The original diagram from which the illustration reproduced below was taken does not show the amount of the expected temperature changes. In other words, it is conveniently left to the reader to determine the intensity of the hot wave or the cold wave scheduled for any given date. It is true that the crests of the warm waves and the cold waves are placed at different distances from the normal line, but the vital point, viz, the value of distance above and below the normal line, has been omitted.



MARCH, 1904, WEATHER CHART: The solid black wavy line, the word "normal," and the explanation in the lower left-hand corner were put upon the above chart by the Weather Bureau. All other matter, including the words "severe storms," "cold," "rain," "cold wave," "hot," "cool," etc., were copied from the original chart issued by this particular long-range forecaster. The dotted wavy line represents the temperatures predicted by him; the solid black wavy line the actual temperatures as recorded at St. Louis, Mo., a city on the ninetieth meridian.

The long-range forecaster says:

"In the above chart the letter I indicates the dates about which storm waves, moving eastward, will reach meridian "90, which is about the same as the general course of the Mississippi River. All weather events move eastward "across the continent and those marked on the chart are expected to reach meridian 90 about the dates indicated. "The straight, trebble,[a] horizontal line, running through middle of chart, is the average temperature of March for "many years past and the wave line is temperature forecast for March, 1904, showing where temperature is expected "to go above or below normal, indicating how warm or how cold it will be.

"These weather charts are $1.50 a year; Weekly Bulletins $1.50 a year; 'What and When to Plant and Sow,' $6.00 a year "gives complete weather forecasts and advice; Probable effects of weather on Chicago and New York market prices of grain "and cotton $3.00 a month."

I have superposed upon the original drawing a solid blank line showing the actual daily departure of the temperature from the normal at St. Louis, Mo., longitude 90° 12′ west from Greenwich. The scale used in entering the temperature departures was 16 degrees to the inch, or 1 degree to each sixteenth of an inch. I have also reproduced verbatim the explanation that accompanied the so-called chart, except that I have had the closing paragraph printed in *italics*. It will be noticed that the relatively warm periods in the diagram are placed about five days apart, viz, on the 2d, 8th, 13th, 19th, 25th, and 29th, and the cold periods nearly a week apart, thus, 3d, 10th, 15th, 22d, and 27th. The solid black line shows the temperature changes that actually occurred during the month.

[a] This has been reproduced as a single line. The use of three lines where but one is required appears to be simply another artifice of the long-range forecaster to avoid being specific.

Three "severe storm" periods are given, viz, on the 1st and 2d, 16th to 18th, and 28th to 30th. There were no severe storms during the month. The highest winds experienced were on the 10th, 42 miles, from the southwest; 22d, 42 miles, from the southwest, and 24th, 50 miles, from the west. The two last named occurred in connection with thunderstorms and lasted but a short time. Not one of these high winds occurred on the dates assigned by the long-range forecaster.

To a long-range forecaster the occurrence of a thunderstorm or an electrical disturbance in some remote corner of the globe during one of his "storm periods" will fully justify his forecasts.

Forecasts of this character can be of no value to agricultural, commercial, or maritime interests. On the contrary, they are misleading, and, if given credence, are calculated to result in positive injury to property interests. As farmers, merchants, and mariners who keep pace with modern progress do not give credence to this class of forecasts the natural conclusion is that a long-range forecaster who receives remuneration from the press for forecasts submitted is simply catering to a class of readers who are deficient in a knowledge of the present status of popular science and who have no occasion to compare the forecasts with weather conditions that actually occur on the dates specified.

There is another long-range weather forecaster who draws his support from the American public who does not depart in any essential manner from the methods employed by the one above referred to. His statements are based upon a consideration of the moon's path with reference to the ecliptic and the equator, the phases of the moon, disturbing causes due to movements and positions of the planets—in fact a conglomerate gathering together of all imaginary and obsolete notions regarding weather causes that are calculated to mystify credulous and uninformed people. He predicts the general character of a month with a consciousness that the forecast will be verified in at least some part of a great unspecified area. He then outlines "storm periods," with intervals of two to three days, which are covered by a margin that is claimed for verification purposes, and verifications are claimed if storms occur during the periods or in the intervals in any part of the United States and, at times, in the Northern Hemisphere. This system of forecasts and verifications admits of no failures. So much for his regular forecasts. Let us now examine some of his special, emphasized predictions.

In the early part of April, 1904, a tornado and severe storms were scheduled in various western papers, over the name of this forecaster, to appear "right after April 17." The storms failed to materialize in the United States during the period specified. Returns from remote parts of the Northern Hemisphere have not, however, been received, so it is possible that a justification of the forecast will be claimed. Aside from platitudes regarding average weather conditions that prevail in April, he announced that "one of the most decided, and perhaps violent, storm periods of the month extends from about the 25th to the 29th."

In the United States the period was a quiet one, and the disturbances that appeared (and one or more surely would appear within the area of the United States during the period specified) were not attended by "very general and violent storms, destructive hailstorms, and abnormal downpours of rain," which, according to the detailed forecast, should have been experienced.

His forecast statement for May, 1904, ends as follows: "The fifth storm period will be central on the 29th, and there will be violent disturbances. Watch the barometer, and if you have a trembling wife and children clinging to you for protection provide some place of safety in which to resort in case of danger."

Is it possible to soar to greater heights of nonsense? In what particular continent or country will the storm period be central on the 29th? The forecaster does not say. Is the entire population of the United States, or of the world, expected to dig cellars or caves of shelter in anticipation of a possible occurrence of a tornado whose path of destructive violence would not cover an area represented on a large map by a mark one-half inch in length made with a sharp pencil? Is it possible that a man who issues such totally unwarranted, sensational, and harmful forecasts is seriously considered by the intelligent portion of the American public? I regret to say that he and others of his kind have a considerable constituency.

CONCLUSIONS REGARDING LONG-RANGE FORECASTING.

A review of the foregoing remarks and opinions regarding the application of past and present astronomical and meteorological knowledge to the theory and practice of long-range weather forecasting leads to the following conclusions:

(1) That systems of long-range weather forecasting that depend upon planetary meteorology; moon phases, cycles, positions, or movements; stellar influences or star divination; indications afforded by observations of animals, birds, and plants, and estimates based upon days, months, seasons, and years, have no legitimate bases.

(2) That meteorologists have made exhaustive examinations and comparisons for the purpose of associating the weather with the various phases and positions of the moon, in an earnest endeavor to make advances in the science along the line of practical forecasting, and have found that while the moon and, perhaps, the planets exert some influence upon atmospheric tides, the influence is too slight and obscure to justify a consideration of lunar and planetary effects in the actual work of weather forecasting.

(3) That the stars have no appreciable influence upon the weather.

(4) That animals, birds, and plants show by their condition the character of past weather, and by their actions the influence of present weather and the character of weather changes that may occur within a few hours.

(5) That the weather of days, months, seasons, and years affords no indication of future weather, further than showing present abnormal conditions that the future may adjust.

(6) That six and seven day weather periods are too ill-defined and irregular to be applicable to the actual work of forecasting.

(7) That advances in the period and accuracy of weather forecasts depend upon a more exact study and understanding of atmospheric pressure over great areas, and a determination of the influences, probably solar, that are responsible for normal and abnormal distributions of atmospheric pressure over the earth's surface.

(8) That meteorologists are not antagonistic to honest, well-directed efforts to solve the problem of long-range forecasting; that, on the contrary, they encourage all work in this field, and condemn only those who, for notoriety or profit or through misdirected zeal and unwarranted assumptions, bring the science of meteorology into disrepute.

(9) That meteorologists appreciate the importance to the world at large of advances in the period of forecasting, and are inclined to believe that the twentieth century will mark the beginning of another period in meteorological science.

OBSERVATORY BUILDINGS.

Carrying out the policy of the Department, the Weather Bureau has continued to cooperate with the leading universities throughout the country, and at the present time the relations existing are more cordial and the work done more important than at any time in the history of the service. Several universities and colleges have donated ground for the erection of buildings, notably the Bradley Polytechnic Institute of Peoria, Ill., and the Epworth University of Oklahoma City, Okla. Appreciation of the value of the work being done by the Weather Bureau has also been demonstrated by several other universities in placing at the disposal of the Bureau, without cost, office quarters in their buildings for recently established stations, among them being the Brown University of Providence, R. I., and the University of Wisconsin, at Madison, Wis.

The erection of buildings by the Weather Bureau not only saves the amount previously paid for rent of office quarters, but adds very much to the prestige of the service here and abroad. This prestige will be further increased upon the completion of the group of observatory buildings at Mount Weather, Va., at which place it is intended to conduct extensive experimental and research work. The present appropriation provides for the erection of not less than five buildings, but this number has proven inadequate to the growing demands from all sections of the country, and it is hoped that Congress will soon increase the appropriation sufficiently to provide for the erection of not less than ten buildings annually.

Buildings owned by the Weather Bureau.

Location.	Value of lot.	Value of buildings.	Total value.
Amarillo, Tex	$1,255.00	$6,503.00	$7,758.00
Atlantic City, N. J	(a)	6,000.00	6,000.00
Bismarck, N. Dak	(a)	10,000.00	10,000.00
Block Island, R. I	1,100.00	7,700.00	8,800.00
Cape Henry, Va	(a)	9,104.25	9,104.25
Devils Lake, N. Dak	2,300.00	8,000.00	10,300.00
Duluth, Minn	2,100.00	7,900.00	10,000.00
Hatteras, N. C	125.00	4,875.00	5,000.00
Havre, Mont	1,850.00	5,700.00	7,550.00
Jupiter, Fla	(a)	6,094.95	6,094.95
Key West, Fla	2,020.00	7,994.75	10,014.75
Kittyhawk, N. C	(a)	1,616.00	1,616.00
Modena, Utah	(a)	4,346.00	4,346.00
Mount Weather, Va.:			
Observatory building	2,000.00	18,000.00	20,000.00
Power house and balloon building	650.00	8,000.00	8,650.00
Stable	.....	2,000.00	2,000.00
Mount Washington, N. H	(b)	300.00	300.00
Narragansett Pier, R. I	4,100.00	8,000.00	12,100.00
North Head, Wash	(a)	4,000.00	4,000.00
Point Reyes Light, Cal	(a)	3,000.00	3,000.00
Port Crescent, Wash	82.00	1,000.00	1,082.00
Sand Key, Fla	(a)	5,593.00	5,593.00
Sault Ste. Marie, Mich	(a)	3,000.00	3,000.00
Southeast Farallon, Cal	(a)	5,211.22	5,211.22
Tatoosh Island, Wash	(a)	5,000.00	5,000.00
Washington, D. C	25,000.00	150,000.00	175,000.00
Yellowstone Park, Wyo	(a)	11,500.00	11,500.00
Yuma, Ariz	(a)	1,500.00	1,500.00
Total	42,582.00	311,938.17	354,520.17

a Government reservation. b Leased.

Weather Bureau buildings in course of construction, and approximate cost of each.

Location.	Cost of lot.	Cost of buildings.	Total cost.
Columbia, S. C	$3,799.00	$9,170.00	$12,969.00
Peoria, Ill	54.00	7,915.00	7,969.00
Nantucket, Mass	1,236.50	3,968.00	5,204.50
Mount Weather, Va. (3 buildings):			
Absolute building	(a)	6,500.00	6,500.00
Variation building	(a)	8,000.00	8,000.00
Kite building	(a)	3,000.00	3,000.00
Total	5,089.50	38,553.00	43,642.50

a Government reservation.

Rented buildings occupied wholly by the Weather Bureau.

Station.	Annual rent.	Other items included.
Cape May, N. J	$650.00	Heat, cleaner, light.
Durango, Colo	440.00	Heat, cleaner, water.
Flagstaff, Ariz	300.00	
Lewiston, Idaho	540.00	
Williston, N. Dak	450.00	Heat, cleaner, light, water.
Winnemucca, Nev	360.00	Heat, light, water.
Helena, Mont	504.00	Heat, water.
Santa Fe, N. Mex	360.00	
Charles City, Iowa	420.00	Heat, light, water.
Roswell, N. Mex	720.00	Heat, cleaner, light.

Stations at which observers' quarters are furnished by the Government separate from offices.

Station.	Annual rent.	
	Office.	Residence.
Habana, Cuba	(a)	$300.00
Honolulu, Hawaii	$480.00	540.00

a Public.

CLIMATE AND CROP DIVISION.

IMPROVEMENT OF ESTABLISHED LINES OF WORK.

The amount of funds allotted this division for its work during the year ending June 30, 1904, was the same as for the previous year. Therefore only those lines of work previously established have been pursued. The maintenance and improvement of established lines of work and the extension of the distribution of weather forecasts and special warnings as far as available means would permit have constituted the work of the year. The last-mentioned feature affords about the only item for especial remark in this report. Some of the older methods of distribution have in instances been abandoned for the quicker, more effective, and less expensive means of dissemination by telephone through rural telephone exchanges, the details of which are given elsewhere under the proper heading.

Action was taken during the latter part of the year to purchase a supply of thermometer supports of a new design, with a view of determining the advisability of their adoption for use at voluntary stations. These supports were not received in time to be given a test before the close of the fiscal year, but they are promised at an early date. It may be stated in this connection that there was a decided decrease in the breakage of thermometers at voluntary stations during the year, no doubt due in a great measure to a change in the method of mounting authorized in the previous year. From opinions expressed by some prominent section directors who have seen the new device, it is expected that the contemplated tests will lead to its adoption, and that a further decrease in the breakage of thermometers will result.

VOLUNTARY METEOROLOGICAL STATIONS.

Although nearly 300 voluntary stations were established during the year, the total number, 3,367, but slightly exceeds the number in operation at the close of the previous year, nearly as many stations as were opened having been discontinued. No serious injury, however, has been sustained by the loss of a majority of the stations discontinued, as in but few instances were they located where it was important to have the records continued. Of the new stations opened a number have been located in the higher and less accessible places in the mountain districts in the semiarid States, with a view to meeting more fully the demands from irrigation engineers for rainfall data. Efforts have been continued to improve the instrumental equipment and the character of the exposure of instruments. More than 400 stations were inspected by section directors, and the inspection reports received show that, while most observers are efficient and painstaking in their work, there are but few stations that were not in some way benefited by the section director's visit.

Correspondence with the Chief Signal Officer of the Army resulted in securing the generous cooperation of that official in the opening of a number of voluntary stations in Alaska along the military telegraph lines. For this purpose 20 sets of instruments, constituting the voluntary observer's equipment, were sent to officers having charge of the telegraph lines, for the equipment of stations under charge of the Signal Corps telegraph operators. As a result of this action meteorological records are already being received from new Alaska stations, and, with the establishment of the full number of stations for which equipments have been provided, the Bureau will receive meteorological data from a region concerning which available information is very meager

In March, 1904, action was taken to establish a section of the Climate and Crop Service of the Bureau in the Hawaiian Islands. Twenty complete instrumental outfits were sent to Honolulu for this purpose and other arrangements, incident to the inauguration of a section of the Climate and Crop Service, had so far advanced by the close of the year as to justify the hope that the section would be in full operation and issuing the standard publications before the close of the succeeding year.

CLIMATE AND CROP BULLETINS.

No change has been made in the character of the National Climate and Crop Bulletin nor in the method of collecting the reports used therein. This bulletin continues to be one of the most important publications of the Bureau, supplying, as it does, very complete information as to current weather conditions and their effects upon farm work and the growth and development of crops. The scope and purpose of this publication have been fully stated in previous reports.

MONTHLY REPORTS AND ANNUAL SUMMARIES OF CLIMATE AND CROP SECTIONS.

Each of the 43 section centers has without interruption issued monthly reports and annual summaries containing the data afforded by the reports of the regular and voluntary stations. The demand for these publications is constantly increasing, rendering it necessary to secure the strictest economy in their distribution. They answer so fully and in such detail so many requests for information as to the climate of the different sections of the country that an application for information of this character can nearly always be satisfactorily met by supplying a monthly report or an annual summary.

SNOW AND ICE BULLETIN.

This publication, issued from the first week in December to the last week in March, shows the depth of snow on ground and the thickness of ice in rivers and other bodies of water. It meets an important need in supplying information as to protection afforded by snow to the winter wheat crop during the trying periods when the crop is exposed to injury from alternate thawing and freezing of the ground. It also continues to be of value to ice dealers and the manufacturers of rubber and other goods, the sale of which is largely governed by the presence or absence of snow or ice.

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

These services have continued without change in the method of collection or publication of reports. Daily bulletins are issued from the several district centers, containing the full report from each substation, with the averages for all stations in each of the various districts.

SECTION SNOW BULLETINS.

The snow bulletins issued by the climate and crop sections in the Rocky Mountain and Plateau regions were more complete during the winter of 1903–4 than in any previous year, owing in a large measure to a plan of cooperation with the General Land Office, whereby was secured the aid of a large number of forest-reserve officers in reporting the depth of snow, more particularly at high altitudes. As these section snow bulletins show the amount of snow in the mountains, they afford a reliable basis of estimating the probable water supply and flow of streams for the succeeding spring and summer, and are therefore of much value to the important interests affected thereby.

DISTRIBUTION OF FORECASTS AND SPECIAL WARNINGS.

With no increase in the allotment for work in this direction, a repetition of the remarks in the annual report of last year would nearly cover the present situation. All that it was possible to do with available funds has been done, and every opportunity for extension where it could be done without exceeding the appropriation has been embraced.

There is a slight increase (61) in the number of places receiving daily forecasts by telegraph or telephone at Government expense; and as these points are, as a rule, selected on account of their eligibility as centers of distribution, the forecasts have been distributed in many sections not heretofore supplied with this information.

About 300 addresses were dropped from the emergency warning list, which has been revised and now provides for the distribution of special warnings of tropical hurricanes or storms and cold waves of unusual severity to postmasters at 6,152 points, who post the bulletins in their offices for the benefit of the public and, in many instances, telephone the warnings to adjacent points having special interests to be protected.

The railway telegraph and train services have continued in operation, supplying in the aggregate over 5,000 railroad stations with the daily forecasts, which are bulletined in the waiting rooms for the benefit of the employees and the traveling public.

Comparatively little change is shown in the number of card forecasts issued daily. This portion of the work has been so carefully examined into in previous years that nearly every post-office which could be reached in time to make the predictions of value is now being served. As mail schedules are changed the lists are modified, and as a rule the number added about equals that discontinued. Postmasters continue their cooperation in this, as well as in the rural free-delivery service, and in a large number of instances have extensive lists to which the card forecasts are distributed daily. Action was taken to prevent the printing of names of individuals or firms on cards in connection with the forecasts. The Bureau is now free from this annoying advertising feature, and, so far as known, the cards as now issued contain nothing but the official forecasts, with occasionally a date and the name of the center from which the cards are distributed. The stand taken by the Bureau in this matter resulted in the loss of the cooperation of a few of the oldest distributors, who kept up the work on account of its advertising possibilities; but arrangements were quickly effected whereby others took up the work, or the substations were supplied from adjacent centers.

Through several causes the number of addresses on the rural free-delivery lists has been largely decreased as compared with that of the previous year, owing principally to the discontinuance of the afternoon forecast distribution from Columbus, Ohio, and the transfer of a large portion of this work in Iowa from the rural free delivery to the free telephone service. There are now available sufficient data to enable us to extend the rural free-delivery distribution, when practicable, to every route on which the carrier leaves the distributing office at an hour sufficiently late to receive the morning forecasts by telegraph from the district center.

The rural telephone lines are now the best and most economical means of distributing weather information. The forecasts are quickly disseminated, cover a large territory, and at little or no expense to the Government. Through arrangements made between the Weather Bureau officials at Cleveland and Columbus and two of the great trunk telephone lines, the daily morning forecasts are now available for the use of more than 100,000 subscribers in the State of Ohio, and the records at hand indicate that nearly one-half of that number are taking advantage of this opportunity to get the forecasts in their homes within a few minutes after their preparation at the district center. Officials of telephone companies operating lines in other States are rapidly signifying their desire to cooperate in this work, and it may be safely stated that the close of another fiscal year will show a gratuitous distribution of daily forecasts over the greater proportion of all independent telephone lines between the Atlantic seaboard and the western borders of Kansas, and as far south in the Middle West as the northern portion of Texas. The general manager of one of the largest independent lines in the State of Ohio stated in a circular letter to the managers of his exchanges that "intelligent handling of these reports will do much to make your service attractive, and whenever your service is attractive it is popular, and whenever popular it is a revenue producer." As these independent lines are merged with the long-distance companies the necessity for telegraphic forecasts to individual exchanges will cease to exist, making it possible to further extend the distribution over rural free-delivery lines into agricultural sections not now supplied with the forecasts.

The following statement shows the distribution by States and Territories and the changes, as compared with work of the previous year:

Distribution of daily forecasts and special and emergency warnings.

State or Territory.	At Government expense.			Without expense to United States by—				
	Forecasts and special warnings.	Special warnings only.	Emergency warnings.	Mail.	Rural free delivery.	Telephone.	Railroad telegraph.	Railroad train service.
Alabama	23	4	139	1,175	257	107	83	12
Arizona	3	1	0	0	0	1	0	0
Arkansas	19	8	102	541	249	97	5	0
California	128	10	0	2,549	2,218	35	0	0
Colorado	17	67	39	980	1,016	1,889	0	7
Connecticut	11	3	49	1,074	100	0	15	151
Delaware	9	0	0	36	520	0	41	0
District of Columbia	0	0	0	1,199	0	0	0	0
Florida	27	127	61	917	0	42	91	0
Georgia	39	39	241	1,527	1,532	30	222	41
Idaho	10	1	0	371	0	4	0	17
Illinois	109	24	468	3,082	6,783	7,962	115	459
Indiana	93	16	208	1,913	5,488	6,658	68	287
Indian Territory	7	0	4	194	0	630	0	0
Iowa	168	30	400	1,730	7,667	51,083	13	0
Kansas	69	9	186	889	4,187	1,164	15	15
Kentucky	41	34	96	2,095	75	3,606	18	0
Louisiana	26	45	61	921	0	28	0	0
Maine	21	4	40	1,197	920	4	0	77
Maryland	26	4	42	1,778	1,384	15	101	0
Massachusetts	24	20	63	3,040	10,025	12	1	331
Michigan	115	21	379	4,894	4,888	4,208	253	457
Minnesota	62	18	196	1,961	2,342	1,744	13	0
Mississippi	55	6	118	703	0	49	6	0
Missouri	84	10	240	5,254	6,581	1,505	25	0
Montana	15	20	18	499	0	5	0	0
Nebraska	63	9	221	1,110	1,227	1,133	0	0
Nevada	3	0	0	205	0	0	0	0
New Hampshire	18	1	34	1,184	1,205	0	0	31
New Jersey	23	25	45	1,219	255	3	189	0
New Mexico	3	3	0	15	0	84	7	0
New York	106	68	365	7,549	9,359	3,467	363	168
North Carolina	56	20	189	1,131	268	24	1	16
North Dakota	16	9	99	9	258	74	0	0
Ohio	136	89	437	7,951	6,693	46,328	37	17
Oklahoma	7	2	13	214	0	2,596	9	0
Oregon	16	2	0	689	600	0	0	104
Pennsylvania	59	18	367	4,299	485	1,525	660	0
Rhode Island	4	0	12	105	0	1	0	28
South Carolina	34	5	109	1,123	456	193	30	23
South Dakota	33	19	77	800	195	2,981	0	0
Tennessee	43	11	291	1,534	1,370	217	23	2
Texas	57	66	240	1,769	1,583	259	154	0
Utah	14	62	0	372	290	6	0	0
Vermont	10	1	46	547	100	0	8	13
Virginia	43	9	96	1,572	228	118	60	96
Washington	21	5	0	737	876	8	0	29
West Virginia	18	11	55	987	232	1,619	18	26
Wisconsin	85	24	298	1,952	1,687	10,787	0	16
Wyoming	7	3	8	112	40	1	11	0
Total June 30, 1904	2,076	983	6,152	77,605	83,639	152,302	2,655	2,423
Total June 30, 1903	2,015	926	7,096	78,164	97,648	28,251	3,087	2,423
Changes	+61	+57	−944	−559	−14,009	+124,051	−432	0

THE MOUNT WEATHER METEOROLOGICAL RESEARCH OBSERVATORY.

At Mount Weather, Va., it is proposed to make and send out the apparatus for the exploring of the atmosphere to altitudes of 3 to 10 miles. In this work it is probable that many balloons will be simultaneously liberated from different stations, so as to get records of storms and of cold waves from their four quadrants. With the knowledge thus gained of vertical gradients

of pressure and of temperature, it will doubtless be possible to gain a better understanding of the mechanics of storms. This exploration will be useful in determining how near right are those who believe that change in temperature other than seasonal is mainly a function of the mechanics of the lower atmosphere—that portion lying below the 10-mile level; that in the study of those aberrations of climate called "weather" investigators need concern themselves only with the atmosphere near the earth; and that variations in the condition and in the intensity of the many forms of solar radiation are inappreciable in their effect on the weather of the earth.

With observations from the magnetic, the electric, and the solar physics observatories which the Department is now building, and which will be equipped with the most approved appliances, opportunity will be given to those who believe that the cyclonic or anticyclonic whirls that constitute storms or cold waves are mainly the result of changes in the amount or intensity of some form of solar radiation. It is the opinion of the writer that the synchronism of the changes in activity of the chromosphere of the sun and the weather of the earth has not yet been established with sufficient definiteness to be of benefit to the forecaster, but a working hypothesis has been formulated which stimulates thought, study, and investigation. This fact must be credited to the patient work of Prof. Frank H. Bigelow. Even those who differ from him in their conclusions relative to the association between astrophysics and meteorology must admit that the fertility of his thought and his earnest seeking after the problems which, when solved, shall raise meteorology from empiricism to a closer approach to an exact science, have been highly beneficial. The study of storms has too long been made from a single view point. Daring minds are needed, even those that are willing to take a considerable hazard in the hypotheses which they are willing to lay down and attempt to demonstrate; for to doubt is to investigate. New truths are usually discovered by working inductively along conventional lines, but some of the greatest principles in nature have been made known to the world by deductive reasoning and by the assumption of a hypothesis that could not at the time be demonstrated. Due deference must be given to each other's opinions, and all must strive earnestly for the elucidation of the many difficult problems that now confront the meteorologist.

LINES OF PROPOSED INVESTIGATIONS.

It is proposed to make the research at Mount Weather catholic in its broadness; to look for the truth, and not to despise its source or the means of its conveyance; to discuss meteorological observations from the point of view of their relations to solar physics; to select meteorologic and magnetic elements and compare them with solar observations; to carry on research in the allied subjects of radiation, atmospheric electricity, ionization of gases, radioactivity, etc. Progress in knowledge of the effects of the sun's actions upon weather conditions depends upon introducing more refined processes than have generally been assigned to meteorology. It is hoped to determine the nature of the alliance between meteorology and solar physics. The atmosphere of the sun and of the earth, together with the connecting radiations, will be studied as one branch of science having common interests, which may be designated as cosmical meteorology.

In the seven buildings at Mount Weather the Weather Bureau will have the most approved apparatus for measuring atmospheric electricity and magnetism, for measuring the solar radiation in the spectrum, for registering the sun-spot areas, the prominence output, and the extent of the faculæ. These are all valuable as registers of the solar energy, which, falling upon the earth, may play a part in stirring up the atmosphere and producing our weather.

INTERPRETING THE LANGUAGE OF THE SUN.

The climate and crop conditions from year to year depend largely upon the invisible and subtle solar radiations, known to exist as waves, like those used in wireless telegraphy. The space between the sun and the earth—that is, the cosmical ether—is filled with wireless messages which science is laboriously learning to interpret. Its votaries do not understand the solar code very well, and the process of deciphering it is like that of learning to read the Babylonian inscriptions, namely, by putting this and that together, learning to read a bit here and there, by

intercomparisons, trial, and failure, till at length the language of the sun shall be understood. The time may come when it may be possible to interpret the seasonal weather from year to year in advance. It has not yet arrived. The sun moves leisurely through its cycles and the terrestrial conditions seem to follow loosely. At present all available information concerning these matters comes in scattered form from observatories, in reports two or three years old. It is necessary, therefore, to have instruments, trained research observers, and computers, and a discussion of results, subject to the direct control of the Weather Bureau.

BUILDINGS COMPLETED AND PROJECTED.

During the past year the main building of the Weather Bureau observatory has been completed, the power plant and the building from which balloon ascensions and kite flights are to be made has been erected, and the magnetic buildings started. It has been found that the rocks are entirely free from magnetism, and that the field is uniform, so that it is a suitable place on which to locate a magnetic observatory. A physical laboratory for electrical and radioactive effects is being planned, the erection of which will take place during another year. Finally, a comprehensive physical observatory for photographing the sun directly and through the spectrum, for measuring the radiation energy by actinometry and bolometry, with their allied equipment, will be required. This complex institution must grow up slowly. As plans can be matured along the best modern lines, assistants must be trained to work in several lines on a harmonious general plan, and the results must be carefully studied as the science progresses.

CONVENTION OF WEATHER BUREAU OFFICIALS.

Under the authority of the Secretary of Agriculture, a convention of Weather Bureau officials was held at Peoria, Ill., in the audience room of the Bradley Institute of Technology, on September 20, 21, and 22, 1904. It is the custom to hold similar conventions once each three years. The character of the papers read and the discussions that followed were of an unusually high order. Particular effort was made to contribute to the science of meteorology, as well as to discuss methods of utility. Several important results were obtained which will, without doubt, contribute to both the science of meteorology and the efficiency of the weather service.

Synopses of the papers read follow. A full report of the convention, including all of the papers in full and the discussions relative thereto, will be issued as soon as the work can be edited.

LABORATORY WORK IN METEOROLOGY, by Prof. A. G. McAdie: Laboratories essential in all courses of the applied sciences.—Meteorology to be the most important of the applied sciences.—Equipment of laboratory a measure of the standing of the university.—A laboratory containing only first-order station instruments does not meet the demand of the day.—Less routine work and more individual contributions.—Necessity of expressing clearly results obtained.—Teachers of science not familiar with meteorology.—Out-of-door work.—Movements of air on large scale and on small scale.—Arousing an interest in the students.—More important to understand the physical processes at work and to have clear conceptions of a few things than to maintain elaborate records or attempt long courses in reading—Problems awaiting investigation.

THE MOUNT WEATHER RESEARCH OBSERVATORY, by Prof. F. H. Bigelow: Need of a modern research observatory for meteorology in the United States.—Recent advances in physics which concern meteorological problems.—Equipment of the proposed observatory at Mount Weather.—Problems and observations which can be undertaken.—Relation of the data to processes in forecasting the action of cyclones and anticyclones.—Problem of long-range forecasts of the seasons and the synchronism between solar and terrestrial actions.

ERRORS OF METEOROLOGICAL INSTRUMENTS AND LINES ALONG WHICH IMPROVEMENT SHOULD BE SOUGHT, by Prof. C. F. Marvin: Three general classes of errors mentioned.—Accuracy of mercurial barometers and thermometers.—Clock errors in automatic instruments.—Discussion of effects of thermometer errors on the psychrometer at certain temperatures.—Construction of rain gages, errors of exposure, action of wind, etc., considered.—Difficult problems in snow measurements.—Errors of anemometers at high and unusual velocities.—Measurement of sunshine.—Lines of improvement discussed.

LONG-RANGE FORECASTS, by Prof. E. B. Garriott: Refers to theories regarding weather periodicities dependent upon lunar or planetary influences, and pronounces them theories of faith and not of practice.—Summarizes results obtained by comparisons of maximum and minimum sunspot periods with the phenomena of the earth's atmosphere, and states that the next advance in meteorological science must result from extensive research in solar physics and terrestrial magnetism and comparison of solar and terrestrial phenomena.—Mentions means proposed to accomplish world-wide plan of observation permitting systematic study of the problem.

SEASONAL FORECASTS, by Prof. A. G. McAdie: Improvement of daily forecasts.—Experience at San Francisco; rain falling on typical fair weather maps; map classifications insufficient.—Seasonal types of pressure distribution.—The individual disturbance in its relation to the seasonal condition.—Permanent pressure areas and their relation to the season's character.—Typical wet winters on the Pacific coast.—Individual disturbances are by-products of the larger air movements; therefore the character of the individual high or low will vary more or less with the swinging of the larger pressure areas.—True normal conditions rare.—Ability to forecast the abnormal condition is the real test of the forecaster.

AMPLIFICATION OF FORECASTS FOR BENEFIT OF SHIPPERS OF PERISHABLE PRODUCTS, by Dr. W. M. Wilson: Importance of amplified forecast to large industrial and commercial enterprises.—Extent to which their needs are met at present, and practicability of specializing for their benefit.—Necessity of a definite view on the part of the forecaster regarding the interests to be thus served.—Terms proper to such forecasts.—Review of other special services now in operation.—Suggested methods of amplification.

AN AID IN FORECASTING, by Mr. F. H. Brandenburg: Disadvantages of a district forecaster under present methods through lack of convenient means of studying local weather signs at outlying stations.—Recommends compilations of prevailing wind directions, temperature changes, clouds, and pressure changes for twelve and twenty-four hour periods before and after precipitation.—Advantages of such compilation.

FORECASTING FOGS ON THE GULF COAST, by Mr. B. Bunnemeyer: Periods of and areas covered by dense formation.—Diurnal periods of maximum and minimum density.—Temperature, air pressure, and wind direction in connection with fogs.

A POPULAR ACCOUNT OF THE COUNTERCURRENT THEORY OF STORMS, by Prof. F. H. Bigelow: Leading meteorological theories and their defects.—Observations which have contributed to the new theory.—Cause of the countercurrents in the general circulation of the atmosphere.—Local circulation in cyclones and anticyclones.—Equilibrium of temperature.—Interchange of inertia.—Relation of the theory to forecasts.

VARIATIONS IN INSOLATION AND IN THE POLARIZATION OF BLUE SKY LIGHT DURING 1903 AND 1904, by Mr. H. H. Kimball: Observations in Washington and their comparison with those in other cities.—Cause of diminution of solar insolation in 1903.—Effect of variation of solar energy on climatic conditions and plant life.—Value of solar investigations at Mount Weather.

A POSSIBLE METHOD FOR DETERMINING THE DIRECTIONS AND VELOCITY OF STORM MOVEMENT, by Mr. E. H. Bowie: Variations from the average direction and velocity of movement of cyclonic areas responsible for a large percentage of errors in forecasting.—General statement that storms follow lines of least resistance of small practical value without definite rules for determining such lines.—Brief summary of views of leading authorities as to the main laws of control of cyclonic movement.—Studies of erratic storm movement by the writer, disclosing the influence exerted by unequal pressure distribution surrounding the area of low pressure, and the presentation of a working basis for determining the value of such control upon the future movement of the storm.

TEMPERATURE FORECASTS AND IRON ORE SHIPMENTS, by Mr. H. W. Richardson: Temperature an important consideration in the shipment of iron ore.—When iron ore is frozen it can not be economically transferred from cars to boats; thawing by steam expensive, also causes delays, which can be averted by advance information of freezing temperature.—Practical application at Duluth.

DISTRIBUTION OF FORECASTS BY TELEPHONE, by Dr. G. M. Chappel: List of telephone companies in Iowa.—Plan of cooperation.—Practical results.

PRACTICAL RULES FOR FORECASTING FLOOD-CREST STAGES FOR CAIRO, ILL., by Mr. P. H. Smyth: Difficulty of crest-stage forecasting.—Character of the data upon which forecasts are based.—Possibility of predicting the intensity of floods two or three months in advance of their occurrence.—Method of applying the tabulated data.—Brief history of the flood at Cairo in the spring of 1897.—Time of flood crests from Cincinnati, Chattanooga, Nashville, and St. Louis to Cairo.

THE COLUMBIA RIVER, by Mr. E. A. Beals: Its discovery and commercial importance.—Drainage basin, extent and character.—Precipitation over watershed.—River stages, including The Dalles Hydrograph.—Causes of floods, their frequency and duration.

SOME DIURNAL PERIODICITIES IN THE CLIMATIC FACTORS AT BALTIMORE, by Dr. O. L. Fassig: A diurnal period will be shown for temperature, pressure, humidity and vapor tension, rainfall (frequency and amount), wind velocity and direction, cloudiness and sunshine, and thunderstorms and atmospheric electricity.—Discussion based on series of ten years of hourly observations made at the Baltimore station.—Diurnal periods graphically shown by means of a system of "isopleths."

INSTRUCTION AND RESEARCH BY WEATHER BUREAU OFFICIALS, by Prof. Cleveland Abbe: In this address the author shows what has been done for meteorological education during the past thirty years by the Bureau or through its influence.—He examines the present condition of this subject in this country and considers its future prospects.—He shows that progress in forecasting means not only education in the physical sciences but research, and illustrates this by recent examples.—Finally he shows what research means, how it is to be fostered, and especially how it can be carried on at a well-equipped central meteorological observatory like that at Mount Weather.

PHENOLOGICAL OBSERVATIONS AT WAUSEON, OHIO, by Mr. J. Warren Smith: Temperature and precipitation at Wauseon, Ohio, since 1876, and their relation to the blossoming of fruit trees.—Average yield per acre of principal farm fruits and crops. (This paper will be accompanied by charts.)

A STUDY OF THE RAINFALL ON THE WEST FLORIDA COAST, by Mr. B. Bunnemeyer: Summary of rainfall data for twenty-four years, with charts.—Ratio of day rain storms to night rain storms.—Hours of greatest and of least frequency of showers.

CLIMATOLOGY OF PORTO RICO, by Mr. W. H. Alexander: Topography.—Temperature.—Rainfall.—Humidity.—Prevailing winds, etc.

MONTHLY STATEMENT OF AVERAGES FOR RURAL PRESS, by Mr. W. S. Belden: Form similar to 1079-Meteorological, based on data from all observation stations within section, to be prepared at section centers.—Such data for ten years or more now available.—Data should be concise and plainly stated.—Extreme values for important agricultural districts to be stated.—Time of issue and use of by weekly newspapers and newspaper unions.—Result of experiments.

IRREGULARITIES IN FROST AND TEMPERATURE IN NEIGHBORING LOCALITIES, by Dr. I. M. Cline: Marked variations of temperature in different localities in immediate neighborhoods.—Occurrence of "frost patches," or the irregular effect where small areas scattered over fields have suffered much greater damage than other parts of the same field.—Character and color of soils and their influence on insolation and radiation have much to do with the occurrence of frost and explain the "frost patches."

FORMER CONVENTIONS OF WEATHER BUREAU OFFICIALS, by Mr. JAMES BERRY: Brief mention of former conventions and of the benefits resulting therefrom.

WIRELESS TELEGRAPHY.

The Department of Agriculture, through the Weather Bureau, was one of the first of the Government Departments to take up, systematically, experimentation in problems concerned with the development of wireless telegraphy. By this action research into the physical problems concerned in transmitting messages through the medium of ether waves was greatly stimulated in this country. Probably one of the best, if not the best, instruments anywhere made for the receiving of wireless messages had its inception in the experimental work of the Weather Bureau.

Recently a board to consider the whole problem of wireless telegraphy and the relation of the Government thereto was appointed by the President. Its conclusions and recommendations follow:

CONCLUSIONS.

The conclusions of the board are—

That the science of wireless telegraphy has been advanced by the able and persistent work of the Signal Corps of the Army and the Weather Bureau of the Department of Agriculture, as well as by the experimental work of the Navy Department;

That wireless telegraphy is of paramount interest to the Government through the Navy Department, and that its use by the Signal Corps of the Army for communication between military posts of the Army and other necessary links will be necessary both in peace and war, and that such use shall be unrestricted. When interference seems probable between stations of the Navy and War Departments, the question involved shall be mutually settled by representatives of the two Departments;

That coastwise wireless telegraphy is not a necessity for the work of the Weather Bureau of the Department of Agriculture, provided that the necessary meteorological data for that Department can be collected by the stations of the Navy Department from ships at sea and by them sent to the Weather Bureau of the Department of Agriculture;

That the maintenance of a complete coastwise system of wireless telegraphy by the Navy Department is necessary for the efficient and economical management of the fleets of the United States in time of peace and their efficient maneuvering in time of war;

That the best results can be obtained from stations under the jurisdiction of one Department of the Government only, and that representatives of more than one Department should not be quartered at any station;

And finally the Board concludes that the Government must take the necessary steps to regulate the establishment of commercial wireless-telegraph stations among the States and between nations.

RECOMMENDATIONS.

In order that the above conclusions may be carried into effect, the Board recommends—

That the Signal Corps of the Army be authorized under its chief to establish from time to time such wireless stations as he may deem necessary, and that they do not interfere with the coastwise wireless-telegraph system of the Government under control of the Navy Department; and, further, that the Chief Signal Officer be requested to inform the Navy Department what stations of its system may be utilized to transmit messages for the Signal Corps or other bureaus of the War Department, and that representatives of the Signal Corps of the Army and the Bureau of Equipment of the Navy Department be at once requested to draw up such rules as will insure the efficient and harmonious carrying into effect of the above recommendations.

That the necessary steps be taken to have the Weather Bureau of the Department of Agriculture turn over to the Navy Department all coastwise wireless-telegraph apparatus now under its control, and such material as it may

have in its possession which can be utilized by the Bureau of Equipment of the Navy Department, and that proper transfers of funds for this purpose be made;

That the Weather Bureau of the Department of Agriculture furnish to the Hydrographic Office of the Navy, and to the naval wireless-telegraph stations, or to other portions of the public service, such meteorological data as it or they may desire, at no cost to them;

That the Department of Agriculture shall continue the work of its meteorological vessel-reporting and storm-warning stations, as now constituted and provided for by law, and continue the control of seacoast telegraph systems, except wireless systems;

That the necessary steps be taken that the Navy Department may equip and install a complete coastwise wireless telegraph system covering the entire coasts of the United States, its insular possessions, and the Canal Zone in Panama;

That the Navy Department be directed to receive from the Signal Corps of the Army, at such points as may be requested by the Chief Signal Officer of the Army, all messages for army posts within their radii, and transmit them under such rules as may be agreed upon by the representatives of the Signal Corps and Bureau of Equipment, without cost to the Signal Corps of the Army;

That all meteorological reports from vessels of war or commerce or other sailing craft, now being forwarded direct to the Hydrographic Office of the Navy, shall be forwarded direct to the Weather Bureau, and the control of ocean meteorology be transferred to the Department of Agriculture, which already has ample law for doing this work;

That the estimates for the support of the Hydrographic Office of the Navy, or any other office of the Navy, for the next and succeeding fiscal years, do not contain any provision for the making of ocean forecasts, or for the publication of meteorological data, other than such as may be needed by the Hydrographer of the Navy for use on the pilot and other charts, which data shall be furnished by and credited to the Weather Bureau;

That it is the opinion of this Board that no meteorological work need or should be done by any portion of the Navy for the purpose of publication, or for the making of forecasts or storm warnings; that all such duties, being purely civil, should devolve upon the Weather Bureau of the Department of Agriculture in accordance with the organic act creating that Bureau;

That the wireless stations of the Navy Department shall, without charge to the Agricultural Department, receive and promptly transmit to the ocean or to islands, or to other places where the information can be made useful, the storm warnings of the Weather Bureau;

That the Navy Department shall request all vessels having the use of its wireless stations for the receipt of messages to take daily meteorological observations of the weather when within communicating range and to transmit such observations to the Weather Bureau, through naval wireless stations, at least once daily, and transmit observations oftener when there is a marked change in the barometer, and that there shall be no charge against the Agricultural Department for these observations or for the transmission thereof;

That representatives of the Department of Agriculture and the Bureau of Equipment of the Navy Department be directed to prepare the necessary rules for the harmonious and efficient carrying on of the above recommendations.

We recommend that as fast as the naval wireless-telegraph stations are put in operation the Navy Department be directed to receive and transmit through these stations, free of charge, all wireless messages to or from ships at sea, provided such stations do not come in competition with commercial stations, until such time as Congress may enact the necessary legislation governing this subject.

In asking for legislation on this point, the Board desires to invite attention to the fact that where wireless stations are needed for the merchant marine as a rule the Navy will also require them. The Board believes it to be in the interest not only of governmental but public economy and efficiency to permit the naval stations to handle the public service, for in the present state of the art but one station is desirable for the public interests in such places. As the needs of the Navy are paramount on account of the problem of national defense, private stations should not be allowed to locate to the disadvantage of the former. Moreover there is at present no public need for multiplication of stations at these points.

It is admitted, however, that there may be special cases where private stations can serve a useful purpose, and the Board believes that the Department of Commerce and Labor should have the duty of issuing licenses in such cases under such regulations as will prevent interference with stations necessary to the national defense. All private stations in the interior of the country should also be under supervision of the Department of Commerce and Labor.

This method of placing private stations under full Government supervision is desirable in order to regulate them for their mutual and the public welfare, as well as from considerations of national defense. Aside from the necessity of providing rules for the practical operation of such stations, it seems desirable that there should be some wholesome supervision of them to prevent the exploitation of speculative schemes based on a public misconception of the art.

It is believed that invention and private enterprise should be encouraged in every legitimate way, and it is the policy of the Navy Department to do this. It has the means of assisting inventors that no other Department has, and it believes that in order for it to lead the navies of the world in this matter, which is of great importance to the national defense, every reasonable facility should be given inventors, while at the same time it is working out the problems of the application of their inventions to its requirements in times of peace and war.

To prevent the control of wireless telegraphy by monopolies or trusts, the Board deems it essential that any legislation on this subject should place the supervision of it in the Department of Commerce and Labor.

Because international questions may arise, due to the fact that the use of wireless-telegraph stations in our own

possessions may affect the use of similar stations in foreign countries, it is desirable for the Congress to enact legislation which will enable the Government properly to handle such cases; a failure to do so may seriously embarrass the Government at some future time.

It is thought that the legislation recommended in placing private stations under the supervision of the Department of Commerce and Labor will also cover this case.

In conclusion, the Board deems it essential that the Executive take such action as in his judgment seems wise to prevent the erection of private wireless-telegraph stations where they may interfere with the naval or military operations of the Government until legislation may be had by Congress on this subject.

Appended hereto are two extracts from the Revised Statutes, marked "W" and "X," which related to the operation of Government telegraph lines; also a decision of the Supreme Court, marked "Y," and the final protocol of the Preliminary Conference of Wireless Telegraph, held in Berlin in August, 1903, marked "Z." [a]

Very respectfully,

R. D. EVANS,
Rear-Admiral, U. S. Navy,
Representing the Department of Commerce and Labor.
H. N. MANNEY,
Rear-Admiral, U. S. Navy,
Representing the Navy Department.
A. W. GREELY,
Brigadier-General, U. S. Army,
Representing the War Department.
WILLIS L. MOORE,
Chief U. S. Weather Bureau,
Representing the Department of Agriculture.
JOSEPH L. JAYNE,
Lieutenant-Commander, U. S. Navy,
Representing the Navy Department.

MONTHLY WEATHER REVIEW AND WORK OF THE EDITOR.

Prof. Cleveland Abbe's time has been wholly occupied in collecting and preparing material for the Monthly Weather Review and in preparing and delivering a course of lectures on various problems in physical meteorology. The Monthly Weather Review has appeared as promptly as practicable about six weeks after the close of the month whose name it bears. The salient features of the principal articles published in the Reviews for June, 1903, to June, 1904, are worthy of review in this report. From notes furnished by Professor Abbe the following comments are made:

W. N. Shaw: "La lune mange les nuages." A note on the thermal relations of floating clouds (June, 1903). In this the author, who is the chief of the Meteorological Office of London, shows graphically the effect of a slow descent of the air in evaporating the clouds, a phenomenon that occurs regularly every night.

Prof. C. F. Marvin: "The Weather Bureau seismograph" (June, 1903). This describes the apparatus now established at the Weather Bureau and the sources of error in its records. This apparatus was invented by Omori, of Japan, and manufactured by the Bosch, of Strasburg. This article has been highly praised in Europe and reprinted by the manufacturer for general use. During the last year a number of earthquake waves have been recorded by it, and the records have been published in the Weather Review. Professor Marvin states that it needs to be supplemented by another smaller apparatus specially designed for the detection of short, minute waves. The present one is designed for the long, slow waves that frequently run several times entirely around the earth before their energy is spent. The Omori apparatus is said to be much more sensitive than the photographic horizontal pendulum of Milne, which is employed at Baltimore, Toronto, and Victoria, but it is apparently not so sensitive as the magnetic needle supported on a quartz fiber, as in the magnetic observatory at Cheltenham, England. The records of the Milne seismograph at certain stations are said to have demonstrated that the areas of high and low atmospheric pressure produce perceptible tiltings of the earth's surface, but the Omori instrument at Washington does not show this, possibly because its location in the basement of the main building does not isolate it sufficiently well from local changes due to temperature and the passage of wagons and individuals.

Harvey N. Davis: "Observations of solar radiation with the Angström pyrheliometer at Providence, R. I." (June, 1903).

H. H. Kimball: "Observations with the Angström pyrheliometer" (July, 1903). These reports were referred to in my previous annual report as having been presented and about to be published. Since that time they have been published in full, and have been followed by a general discussion of the whole subject of the sudden variation in the quantity of heat received at the earth's surface that occurred during 1902–3. Some have maintained that this

[a] The papers referred to in this paragraph are omitted from this report.

change is due primarily to a change in the amount or quantity of heat that issues from the sun itself. Others, with more plausibility, maintain that it is due to a sudden accession of moisture, haze, or dust in our own atmosphere, and that the changes in the solar radiation or absorption are too small to have caused this change as measured at the earth. Mr. Kimball has continued his own series of observations during the past year at Washington, and if his work is maintained for several years it will doubtless give us additional information. It is very important that the bolograph records secured by Professor Langley should be duplicated by corresponding work at some very dry station having much clear sky, such as are found in our Rocky Mountain and Pacific coast regions.

W. N. Shaw: "On curves representing the paths of air in a special type of traveling storm" (July, 1903). The author deals with a special assumed case in which the speed of the air is assumed to be uniform over the whole area of the storm, although the direction varies from point to point. The isobars are assumed to be true circles, and the wind directions are tangential to them; the center describes a straight path with the same speed as the wind. Many of the conclusions drawn from these assumptions agree with the observations of actual storms. He postpones the consideration of the influence of ascending and descending currents to his next paper, "General circulation of the atmosphere." This has already been received and published in the Review for June, 1904.

D. T. MacDougal: "Soil temperatures and vegetation" (August, 1903). This is a study in the relation between climate and plant growth, and represents the results of several years of work. It would appear that the temperature of the soil is more important than the temperature of the air.

C. G. Knott: "Solar radiation and earth temperatures" (October, 1903). A novel feature of this paper consists in the computation of the accumulation of heat, or the total quantity of heat in the soil at any time of year, as obtained by integrating the expression for the quantity present in each successive layer of soil. The computation shows that at the beginning of September there is a maximum quantity of heat below the surface of the ground, and at the beginning of March there is a minimum quantity. At Edinburgh, Scotland, this difference amounts to over 1,200 units per square centimeter, or nearly 8,000 units to the square inch.

Prof. F. H. Bigelow: "Studies on the circulation of the atmospheres of the sun and of the earth." (1) The circulation of the sun's atmosphere (October, 1903); (2) The synchronism of the variations of the solar prominences with the terrestrial barometric pressures and temperatures (November, 1903); (3) The problem of the general circulation of the atmosphere of the earth (January, 1904); (4) Values of certain meteorological quantities for the sun (February, 1904); (5) Results of the nephoscope observations in the West Indies during the years 1899–1903 (April, 1904); (6) Circulation in cyclones and anticyclones (May, 1904); (7) Average monthly vectors of the general circulation in the United States (June, 1904).

This long series of papers by Professor Bigelow presents the results of several years of work. It is the opinion of Professor Abbe that the most important conclusion to the meteorologist is the presentation of the fact that in certain portions of the globe the oscillations of temperature are similar to those of the solar phenomena, such as sun spots and prominences, while in other parts of the globe they are opposite, and that about an equal number of regions show no decided agreement or opposition. He is of the opinion that terrestrial weather phenomena are the direct result of changes in the pressure and circulation of the earth's atmosphere, and it is not yet certain that these have any connection with the sun. Some are inclined to believe that changes in the sun are the direct or indirect cause of these terrestrial changes. Others believe that the latter would exist even if the sun's radiation were absolutely uniform, and that they represent hydrodynamic and thermodynamic phenomena confined to the atmosphere itself.

Another interesting result of Professor Bigelow's work is presented in his article on the nephoscope work in the West Indies, in which he shows the variation from month to month in the directions of motions of the winds and clouds. The season of hurricanes is distinguished by a special disturbance of the atmospheric circulation. The level of the maximum horizontal velocity changes systematically throughout the year. The mean altitude at which the westward drift reverses to the eastward drift is apparently above 6 miles in the summer months. The strata, from 4 to 6 miles high, are those chiefly concerned in causing the formation of hurricanes.

Alexander G. McAdie: "Mount Whitney as a site for a meteorological observatory" (November, 1903). This is a report of an expedition by Professor McAdie to the summit of Mount Whitney. The altitude of the mountain has been determined barometrically by a number of observers. Professor McAdie's result is 14,515 feet, but the levelings reported by Prof. Joseph N. LeConte since Professor McAdie's work give 14,434 feet.

Prof. Dr. J. M. Pernter: "Methods of forecasting the weather" (December, 1903); "Promotion of meteorology" (May, 1904). These two articles present an excellent summary of the arguments against the so-called long-range forecasts by means of planetary meteorology, and will do much to stem the tide of popular ignorance and superstition on this subject.

Oliver L. Fassig: "Kite flying in the Tropics" (December, 1903). This summarizes the results of meteorological work by Doctor Fassig on an expedition to the Bahamas under the auspices of the Geographical Society of Baltimore. A number of successful kite ascensions were made both from the land and the water, and the temperature, moisture, and wind were determined at various heights up to 4,000 feet.

G. C. Abbot: "Recent studies on the solar constant of radiation" (December, 1903). This is a most important publication in which for the first time meteorologists have been favored with quite reliable determinations of the absorbing power of the atmosphere for a number of specific wave lengths, ranging from the visible portion of the spectrum far down into the ultra red. A similar work by Professor Langley has been offered for publication, and a summary will appear in some future number of the Weather Review.

Prof. James Dewar: "Problems of the atmosphere" (January, 1904). The author computes the relative quantity of oxygen and nitrogen, carbonic-acid gas, and possible hydrogen up to the outer limit of the atmosphere, and gives important suggestions as to the origin of the aurora and its spectrum.

Gen. H. L. Abbot: "Disposition of rainfall in the basin of the Chagres River" (February, 1904); "Panama meteorology" (June, 1904). These form the conclusion of an important series of papers in which the meterological data collected by the engineers of the New Panama Canal Company are subjected to discussion by one of the most prominent officers of the Engineer Corps of the United States Army. The great work of Humphreys and Abbot on the Mississippi River has been a standard for fifty years, and his work on the Chagres promises to hold an analogous position as regards that river.

Rev. Marc Dechevrens, S. J.: "Vertical component of the wind" (March, 1904). This article presents the results of observations for several years on the vertical movements of the atmosphere as recorded on the island of Jersey by the use of a special anemometer. The observations are very instructive, although it may be doubted whether they have anything but an extremely local application.

William B. Stockman: "The winter of 1903–1904." In this article Mr. Stockman gives a detailed record of departures from normal temperatures during the past winter. From New England westward to the Missouri Valley and southwest to the east Gulf States temperatures were generally below the normal. On the Rocky Mountain slope, the Plateau, and Middle Pacific districts temperatures were above normal.

Dr. Edgar Buckingham: "The amount of energy in a unit of light" (April, 1904). This is a very thoughtful paper revising our knowledge of radiant energy, and showing that to a certain extent we may calculate the temperature of a flame from its radiant energy, but the temperature of an ordinary body can scarcely be thus determined without involving undesirable assumptions.

E. L. Mosely: "The meteor of September 17, 1902" (April, 1904). The author collects the observations and calculates the path of this meteor. The sounds that emanated from it are, however, not explained by him.

R. Assmann: "The temperature of the air above Berlin" (April, 1904). The text and charts illustrate the results of the highest balloon and kite work, and give sections of the atmosphere showing the temperature day by day for fifteen months from October, 1902, to December 31, 1903. These are apparently the most accurate temperatures yet observed in the upper air, and show that at the height of 5,000 meters, or over 3 miles, the changes in temperature from day to day are surprisingly large, but very little less than at sea level. The so-called diurnal variation of temperature is of course very small, but the irregular oscillations, due to the passage of masses of warm air and cold air, are as large in summer as in winter. On the average there is a general inversion of the vertical temperature gradient; that is to say, the stratum between 500 and 2,000 meters has an average temperature a little higher than the strata above or below it. The level of freezing point varies between 3,000 meters and the ground. The international high balloon ascensions now being carried on in Europe on specified days promise to add more to our knowledge of the atmosphere than was obtainable by the use of high mountain stations; but both of these methods of investigation, as well as the kite work, have become of great importance. Each is specifically adapted to the investigation of some special problem.

S. A. Mitchell: "Pressure of light" (May, 1904). This is an exposition of the latest views accepted by experimental physicists as to the consequences of the well-demonstrated fact that a beam of light, or any other form of radiant energy, exerts a pressure in the direction of the propagation. This pressure is inappreciable, when the body is large, in comparison with the attraction of gravitation, but becomes the most important item when the body is very small. By virtue of this pressure the finest dust of gaseous particles are repelled from the sun toward the earth and in all directions. When they impinge upon the outer boundary of the earth's atmosphere they may enter it temporarily and influence atmospheric and electric phenomena. These views have received their fullest development at the hands of J. J. Thomson, and at present the subject belongs to molecular and solar physics rather than to meteorology.

W. F. Tyler: "Sensation of discomfort" (May, 1904). The author has attempted to draw curves based upon personal observation showing under what conditions of temperature, wind, and moisture he experienced the greatest discomfort. His idea is quite analogous to that proposed by the editor some years since in which curves of perfect comfort were recommended. Either method seems to offer a convenient way of expressing something analogous to the so-called sensible temperature, and without involving the observer in any unsatisfactory theory.

The cooperation of so many physicists at home and abroad is gratefully acknowledged, and has contributed in an important degree in making the Monthly Weather Review of increased value to the service as well as to meteorology in general.

THE TEACHING OF METEOROLOGY BY WEATHER BUREAU OFFICIALS.

Meteorologists gratefully recognize the personal interest of the honorable Secretary of Agriculture in the general introduction of meteorology into the courses of study provided by the universities and higher technical institutions of the country. At his suggestion the mode of teaching and the results obtained were made an important part of the work of the convention of Weather Bureau officials at Peoria, Ill., in September, 1904. At 14 educational institutions

Weather Bureau officials, in addition to their regular duties and mainly outside of office hours, deliver courses of lectures on meteorology. The discussion at the convention brought to light the fact that a large amount of work is being done by Weather Bureau men in an educational way. The methods employed are determined by the different needs of the institutions receiving the cooperation of the Bureau, and range from impromptu talks to elaborately prepared lectures, with suitable illustrations. The audiences included school classes, teachers' institutes, science associations, and business men's meetings. At many places regular and systematic courses are being given by Weather Bureau men, and at some of the leading universities a professor makes a specialty of the teaching of meteorology. It is desired that it should be incorporated as a part of the science course in every university. I am of the opinion that some general study of meteorology should be required of persons who are fitting themselves to fill the position of civil engineer, mechanical engineer, geologist, or biologist, and that an elementary knowledge of meteorology and climatology is of prime importance in the study and cure of disease.

LECTURES BY PROFESSOR ABBE.

In addition to his work on the Monthly Weather Review, the editor, Professor Abbe, has delivered a course of lectures on meteorology to students who come to the Weather Bureau. These lectures should, perhaps, properly be considered as preliminary or introductory to those that may be given in future years at Mount Weather. One lecture of two hours' duration was given on consecutive Fridays from January to May, inclusive. The preparation of these lectures required much more time than was originally contemplated, and as the subjects were treated from a mathematical point of view it may be doubted whether they can properly be called popular. However, they presented the latest results of work done by some of the ablest meteorologists in the world. If they could be published they would perhaps be recognized as an extension of the knowledge collected by Hann in his Lehrbuch der Meteorologie. The publication of an English edition of this Lehrbuch is still greatly to be desired, but as the work is a herculean task it may perhaps be postponed until Professor Hann himself publishes a condensed edition of his volume.

ENCOURAGEMENT AND INCREASE OF EDUCATIONAL WORK.

The general subject of instruction in meteorology given by Weather Bureau men in the form of public lectures or college class work has been kept faithfully in mind. Every case worth mentioning has been noted in the Monthly Weather Review. Inspectors have been instructed to report fully as to the amount and character of the work and the possibility of increasing it. There is an increasing demand for class work in high schools and colleges. It is not likely that the Weather Bureau employees can fully respond to this demand, partly because of their want of training as teachers, but principally because of the absorption of their time in regular office work. It is to be hoped that our colleges and universities will establish proper positions for teachers of meteorology, and that some of our best men may fill such places when retired from active service in the Weather Bureau. Meanwhile they are doing their best to respond to the demands made upon them.

LIBRARY.

The work of the library has been conducted on the same general lines as in recent years. On June 1, 1904, Dr. W. F. R. Phillips was succeeded by Mr. H. H. Kimball as librarian, climatologist, and supervising examiner.

The library is being used more and more as the work of the Bureau expands. Employees detailed to special lines of research need first of all to become familiar with the methods and results of others doing similar work. The library, therefore, becomes their starting point, and hence the necessity for having the books and pamphlets so arranged and indexed that all that relates to any given subject may be readily found.

As set forth in former reports, it has been the aim of the librarian to supplement the author index of books and pamphlets with a subject index, and this in turn with a bibliography of

meteorological and allied topics made up from papers that appear in the periodicals of this and other countries. The bibliography is kept up to date, and most of the titles that are added to it are also published month by month in the Monthly Weather Review for the benefit of students. The subject index of books and pamphlets is still incomplete, however, and work upon it will be pushed during the coming year as fast as the resources of the library will permit.

The accessions during last year amount to 550 titles, of which 82 were by purchase and the remainder by exchange or gift. The total number of accessions now amounts to 24,680 books and 4,430 pamphlets, besides a number of miscellaneous works not catalogued.

Accessions are now limited to books and pamphlets bearing directly upon the science of meteorology. Many of these are the periodical publications of foreign governments and of scientific societies in all parts of the world; they contain so much that is of interest and value to meteorological students that it is plainly our duty to preserve them carefully.

A small collection of text-books, such as are required by observers in preparing for examinations for promotion, and also a few meteorological works of a more advanced character, is maintained at stations. Under the supervision of the library this collection of books is added to year by year as funds will permit. So many station officials are engaged in educational work in connection with high schools and colleges that a small library of this kind is necessary, although books are loaned to these officials from the central office library when practicable.

EXAMINATIONS FOR PROMOTION.

During the year 55 requests for examination were received by the supervising examiner and favorably acted upon. The subjects in which examinations are now given are arranged as follows:

1. For eligibility for promotion to the $1,000 grade: Arithmetic, English grammar, elementary meteorology.
2. For eligibility for promotion to the $1,200 grade: Algebra, elementary physics, plane trigonometry.
3. For eligibility for promotion to the $1,400 grade: Astronomy, plant physiology, advanced meteorology.

As a rule, all the subjects in a group are given at one examination. Of the 55 examinations held during the year 25 were on subjects in the first group, 21 in the second group, and 9 in the third group. Only five persons received less than the passing grade (70 per cent) on any subject.

Since one of the primary objects of these examinations is to elevate the educational standard among Weather Bureau employees, it is gratifying to note that the number of those who pass the examinations in the higher grades is increasing.

INSTRUMENTS AND EXHIBITIONS.

The instrument division is charged with the duties of providing, testing, adjusting, and supervising the installation of all meteorological instruments and storm-warning towers. During the past year the exhibits of the Weather Bureau at the Louisiana Purchase Exposition, St. Louis, were prepared and installed by the professor in charge of the divison.

PRESENT STATUS OF STATION EQUIPMENTS.

The status of the instrumental equipment of stations at the close of business, June 30, 1904, was as follows:

One hundred and fifty-eight stations were completely equipped—that is, were supplied with instruments by means of which automatic records are made of the direction and the velocity of the wind, the duration of sunshine, the amount and the time of beginning and ending of rainfall, and, finally, the temperature and the pressure of the air. Of these stations the following were newly equipped with complete sets of apparatus, namely: Birmingham, Ala.; Modena, Utah (old station reequipped); Yellowstone Park, Wyo.; Maritime Exchange, New York; Brooklyn Eagle Building, Brooklyn, N. Y., and Honolulu, Oahu, Hawaii. The number of completely equipped stations has been increased by twenty during the past year.

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

Triple registers	166
Barographs	202
Thermographs	165
Tele-thermographs	8
Tipping-bucket rain gages	152
Electrical sunshine recorders	144
Photographic sunshine recorders	15

With one or two exceptions the stations that are not at present completely equipped are of slight importance, and, in general, have all the instruments necessary to the satisfactory performance of their work.

EQUIPMENT OF STORM-WARNING STATIONS.

The equipment of 26 selected stations with storm-warning towers and improved high-power lanterns was undertaken at the beginning of the year. The funds available for this were limited, and notwithstanding the fact that a considerable amount of other work was taken up, including the installation of an exceptionally high tower (115 feet) at the Delaware Breakwater, Delaware, nearly all have been brought to a very satisfactory state of completion.

Almost a year is required in work of this kind, for the reasons that owing to the special nature of the towers, lanterns, etc., they are not carried in stock by contractors, but require to be manufactured after orders are placed, viz, after the beginning of the fiscal year. From sixty to ninety days are required for this purpose, and the shipment of towers to stations, the locations of which are often relatively inaccessible, consumes additional time. During this interim leases and other arrangements are made for title to the site of the towers, and bids for their erection and the installation of lights are obtained. Owing to the severity of the winters in the Lake regions it is necessary, in certain cases, to defer until springtime the erection and installation of towers and lanterns planned for during the winter.

At the close of business June 30, 149 steel towers, with improved auxiliary equipment, had been installed at as many stations distributed over the shores of the Great Lakes and the Atlantic and Pacific seacoasts.

High-power electric lanterns are installed at 77 stations and improved oil lights at 68 stations. The towers at 3 stations are used for flag displays only.

The present plans contemplate the equipment of 10 additional stations, supplies for which have been ordered.

EXPOSITION WORK.

The preparation of the exhibit to be made by the Weather Bureau at St. Louis was actively taken up by the professor in charge of the instrument division, and practically all the apparatus and material required was boxed and ready for shipment February 1, 1904. Shipment was made a few days thereafter, and additional supplies, consisting of a special glass weather map, swinging chart frames (clusters), instrument cases, etc., were forwarded from Detroit, Mich. Nothing was injured or delayed in any way in transit. The work of installation began promptly on April 6 and was completed on April 29, the day before the opening, with the exception of the charging of the storage batteries and the installation of a special automatic card printing press. The shipment of the latter had been unavoidably delayed, and the wiring of the building for electric current had not been completed. These deficiencies were supplied, however, in the course of a few weeks, and the exhibit was turned over to Mr. E. H. Bowie, in charge of the station at St. Louis, on May 21.

TELEGRAPH SERVICE.

TELEGRAPHIC REPORTS.

To meet as far as possible the pressing demands for a wider distribution of the daily telegraphic reports of observations, arrangements were perfected at the close of the year for a very generous increase in the number of such reports telegraphed over circuits or as special messages, to go into effect on July 1, 1904; including the establishment of a new circuit between Fort Worth, Tex., and St. Louis, Mo., with intermediate stations at Oklahoma, Okla., Wichita and Kansas City, Kans., and Hannibal, Mo. While for economic reasons it is impracticable to satisfy all demands in this respect, it is believed that the present distribution of reports, resulting in a much more comprehensive display of weather conditions on the maps and bulletins issued at stations, will give general satisfaction, both to the public and to the officials charged with making district or local forecasts.

The services rendered by the principal telegraph companies in collecting and distributing the reports of observations and in telegraphing the daily forecast messages from the several district centers were, as a rule, prompt and efficient. Complaints of delays, errors, and other irregularities, when brought to the notice of the proper telegraph officials, received prompt attention and corrective action.

TELEGRAPH AND TELEPHONE LINES.

A new 3-conductor submarine telegraph cable was laid from the mainland to Block Island, R. I., a distance of 11 miles, on September 3, 1903. Preparations are now under way for laying submarine cables from near Nags Head to Manteo (Roanoke Island), N. C., from South Manitou to North Manitou Island, Lake Michigan, and from Flavel, Oreg., across the mouth of the Columbia River, to Fort Canby, Wash. All of these, it is expected, will be in operation within the next few months.

No old lines were abandoned or new ones built during the year.

The total receipts from commercial telegrams sent over Weather Bureau lines were $4,669.35, of which amount $2,337.33 was for United States tolls and was covered into the Treasury, and $2,332.02 was paid over to connecting commercial lines.

VESSEL REPORTS.

The reorganization, at the beginning of the year, of the vessel and wreck reporting service of the Weather Bureau, with additional stations at Sand Key, Fla., and Southeast Farallon, Cal., has largely added to the effectiveness of this popular feature of the Bureau, and has been much appreciated by maritime interests generally. Vessel and wreck reports are now furnished free of all charges, except for telegraph tolls over commercial lines, to all corporations and individuals who may apply for them. The average number of vessels reported per month from each designated station was as follows: Cape Henry, Va., 1,000; Jupiter, Fla., 57; Sand Key, Fla., 87; Point Reyes light, Cal., 80; Southeast Farallon, Cal., 25; North Head, Wash., 112, and Tatoosh Island, Wash., 264.

Besides reporting passing vessels, these stations rendered important services in connection with wrecks and other maritime disasters. A brief account of the more striking cases follows:

On October 28, 1903, the schooner *Wempe Bros.* was wrecked on Bonilla Point, Vancouver Island. The Weather Bureau observer at Tatoosh Island telegraphed for assistance, which arrived in time to save the crew, but the vessel proved a total loss.

The U. S. torpedo boat *Mocasin* went ashore near Currituck Inlet, North Carolina, December 3, 1903. The Weather Bureau repairman at that point immediately opened a wreck station on the beach and put himself in direct telegraphic communication with the commandant's office at the Norfolk Navy-Yard, to convey all information and instructions to and from the scene of the wreck. Special acknowledgment was made by the Navy Department of the valuable services rendered in this connection.

On February 22, 1904, the schooner *Frank W. Howe* was observed by the North Head, Washington, station to be flying signals of distress. The observer promptly responded with an encouraging message by flag signals, and notified the life-saving crew, who succeeded in saving 7 of the vessel's crew out of 9. Vessel and cargo proved a total loss. Six days later distress signals were flown by the steam schooner *Grace Dollar*, when the same observer telegraphed for a tug, which was able to save both vessel and crew. The following is quoted from the Oregon Journal, of Portland, Oreg., in this connection:

> Sailors plying up and down the cost have a true friend in observer Kelliher, of the North Head weather station. During the past two weeks his "eternal vigilance" has been the means of saving a score or more of them from going down to watery graves. He was the first landsman to notice the helpless condition of the American schooner *Frank W. Howe*, and with admirable alacrity communicated the intelligence to the several life-saving stations, which immediately responded to the call. With the spirit of the true hero, at the risk of his own life and health, he joined in the work of rescue. Every man on board the doomed vessel was brought ashore in safety. A few days later the watchful observer discerned a small speck out upon the misty sea that did not look altogether right. With the aid of a telescope he discovered that it was a steamer in distress. He apprised the tugboat captains and they went to the rescue. Later they returned with the *Grace Dollar* in tow, and the alert Kelliher was again the direct means of saving life and property.

On June 6, 1904, the water-logged schooner *Antelope* was sighted by the Southeast Farallon observer in great peril. Assistance from San Francisco was telegraphed for and arrived in the nick of time to save both vessel and crew.

PRINTING AND PUBLICATIONS.

The total number of copies, consisting of the regular publications of the Bureau, together with books, bulletins, and miscellaneous pamphlets and forms, printed and disseminated during the year amounted to 46,229,853, of which 21,919,853, an increase of 1,919,853 copies over the preceding year, were printed in the office of the Bureau, as follows:

Daily weather maps, 569,680; Monthly Weather Reviews, 57,600; Climate and Crop Bulletins, 151,567; Snow and Ice Bulletins, 31,216; station maps, 3,093,400; and miscellaneous books, pamphlets, meteorological charts and forms, 18,016,390.

The remainder of the work, mostly station maps and forecast cards, was performed at the Government Printing Office.

There have been no additions to or improvements in the plant since last report.

PERSONNEL OF THE BUREAU.

CLASSIFIED SERVICE.

APPOINTMENTS.—During the fiscal year appointments were made as follows: By original certification at salaries ranging from $360 to $1,000 per annum, 48; by transfer at salaries from $1,000 to $1,250, 4, and by reinstatement at salaries from $360 to $1,000, 4; total, 56.

TEMPORARY APPOINTMENTS.—There were 14 temporary appointments for periods from ten days to three months and at salaries from $360 to $720; 25 emergency appointments for periods from a week to thirty days and at salaries from $450 to $1,250—all of which were made under the authority of the Civil Service Commission. Total appointments, all kinds, during the year, 95.

PROMOTIONS.—One hundred and thirty-one promotions were made, all but 3 being by advancement to the next higher grade. The exceptions were: One employee promoted from $1,600 to the position of librarian and climatologist at $2,000 because he was the only one between those grades qualified for the position. One was promoted from assistant observer at $1,000 to observer at $1,300 on account of his demonstrated fitness to fill the vacancy caused by the death of a section director, he being on duty as assistant at the station at which the vacancy occurred and for months during the illness of the deceased having performed the latter's duties. The third was in the case of a messenger certified by the Civil Service Commission to fill a temporary vacancy at $450 per annum. Coincidental with the termination of the $450 vacancy another occurred in the $600 grade, to which this employee was promoted and in which he served a few days only.

REDUCTIONS.—The exigencies of the service (change of station assignment requested by employees or necessitated by the public needs) required 8 reductions. In addition, 3 were made because of carelessness in the performance of important meteorological work, 4 because of physical disability, 1 because of frequent absences without authority and delaying payment of debts, 2 because of excessive use of intoxicants and neglect of duty, and 1 because of insubordination, making a total of 19 for all causes.

RESIGNATIONS.—There were 44 voluntary separations from the Bureau, of which number 9 were permitted for the purpose of enabling employees to accept appointments in other branches of the public service. Seven resignations were required, as follows: Three for inefficiency, 1 for excessive use of drugs, 1 for inefficiency and marked personal uncleanliness, 1 for nonpayment of debts, and 1 for delaying payment of debts and tardiness in reporting for duty. Total separations, 51.

REMOVALS.—Discharges were ordered in 9 cases, for the following causes: Unsatisfactory service, 4; intoxication and neglect of duty, 1; insubordination and unsatisfactory service, 2; intoxication and insubordination, 1; untruthful statement as to cause of absence, and neglect of duty, 1.

DEATHS.—The total number of deaths was 5. During the preceding year but 2 were recorded.

UNCLASSIFED SERVICE.

Appointments to the unclassified service numbered 9 (the salaries ranging from $1.50 per diem to $600 per annum), as follows: For duty at Washington, D. C., 4 (1 through the board of labor employment and 3 for temporary periods of less than one month); for duty outside the District of Columbia, 5 (of which number 4 were appointed as temporary laborers at $1.50 per diem and employed in road building in connection with the new station at Mount Weather, Va.).

Nine unclassified employees were promoted during the year, each promotion being made to the next higher grade, the salaries ranging from $480 to $720 per annum.

One unclassified employee was reduced, on account of change of station, at his own request. Eight voluntary resignations were accepted and 1, a station agent, was necessitated by a change of the status of the station at which the agent was serving. But 2 unclassified employees were removed—one under strong suspicion of theft, and the other for obtaining leave of absence under false representation when his services were needed, and for absence without authority. No deaths occurred in the unclassified service.

ABSENCES DURING THE CALENDAR YEAR 1903.

STATION.—The average absence of station employees, with pay, during the calendar year 1903 was 1.1 days on account of sickness and 10.5 days on account of annual leave. Ninety-nine per cent of the station employees being males, the matter of sex has been disregarded in figuring the average.

WASHINGTON, D. C.—The average absence, with pay, of employees at Washington, D. C. (clerks, mechanics, messengers, and laborers), during the same period was, males, 4.7 days on account of sickness and 27.1 days on account of annual leave; females, 6.7 days on account of sickness and 28.8 days on account of annual leave.

The general average of the entire service, station and Washington combined, was 2.1 days on account of sickness and 14.9 days on account of annual leave.

STATISTICS OF THE SERVICE.

The following tables show in compact form the numerical strength of the Bureau and the highest and lowest salaries paid in the classified and unclassified grades:

Numerical strength of the Weather Bureau July 1, 1904.

At Washington, D. C.:		
Classified	169	
Unclassified	14	
		183

Outside of Washington, D. C.:		
Classified	476	
Unclassified	11	
		487
Total commissioned employees		670
Additional employees outside of Washington, D. C.:		
River observers	230	
Storm-warning display men	236	
Cotton-region observers	141	
Corn and wheat region observers	135	
Rainfall observers	71	
Fruit and wheat region observers	19	
Sugar and rice region observers	9	
Total noncommissioned employees		841
Total paid employees		[a] 1,511
Voluntary observers		3,367
Voluntary crop correspondents		13,406
Total numerical strength		18,284

Distribution of commissioned force.

In Washington, D. C.:		In Washington, D. C.—Continued.	
Accounts Division	13	Library	3
Barometry and research work	3	Meteorological Records Division	15
Climate and Crop Division	7	Miscellaneous mechanical work	4
Editor, Monthly Weather Review	2	Publications Division	45
Executive work	19	Supplies Division	9
Forecast Division	16	Telegraph Division	11
Instrument Division	10	Under captain of the watch	26

Outside of Washington, D. C.:

66 stations	with 1 employee	= 66 employees.
47 stations	with 2 employees	= 94 employees.
31 stations	with 3 employees	= 93 employees.
17 stations	with 5 employees	= 85 employees.
14 stations	with 4 employees	= 56 employees.
4 stations	with 6 employees	= 24 employees.
4 stations	with 7 employees	= 28 employees.
4 stations	with 8 employees	= 32 employees.
1 station	with 9 employees	= 9 employees.
188		487

Salaries paid in the classified and unclassified grades.

Grades.	July 1, 1904.		Grades.	July 1, 1904.	
	Station.	Washington, D. C.		Station.	Washington, D. C.
CLASSIFIED GRADES.			UNCLASSIFIED GRADES.		
Highest salary	$3,000	$5,000	Highest salary	$720	$720
Lowest salary	360	450	Lowest salary	300	240
Average salary	1,007	1,216	Average salary	541	534

Average salary for all (station and Washington, including the Chief of Bureau), $1,029.

The foregoing table of salaries does not include employees on duty at substations (storm-warning displaymen, river observers, etc.), whose compensation ranges from $5 to $20 per month, and whose tour of service would average less than one hour a day.

[a] This total embraces all paid employees in the Bureau on July 1, 1904, including the Chief of Bureau, but excluding employees on furlough for three months or more.

METEOROLOGICAL RECORDS.

The routine work of recording the date of receipt of each meteorological form, examining and correcting same, tabulating the data contained therein for publication in the Monthly Weather Review, and Annual Report of the Chief of Weather Bureau; preparing error letters for the several forms; charting data from regular and selected voluntary stations for the several charts in Weather Review, and from which to prepare text; compiling data in compliance with requests from different Federal Departments and bureaus, including different divisions of the Weather Bureau; for State, county, and city officials; civil engineers, lawyers, physicians, health and pleasure seekers, numerous commercial concerns and purposes, and for certification under the seal of the Department has continued throughout the year.

INFORMATION SUPPLIED THE PUBLIC.

During the year 887 requests for data were answered, occupying in their preparation from a few minutes to days—sometimes as many as five to twelve. Besides this there were 90 calls for certified data, requiring 257 sheets, this not including a request from the sanitary district of Chicago, which required about one thousand hours to compile and verify the data, the work being performed by persons not connected with the Weather Bureau and paid for by the sanitary commission.

Owing to the limited clerical force and the demands upon the time of clerks for more important duties, it was found necessary to adopt a new policy in connection with requests for certified data, viz: When there was a Weather Bureau office in the city in which applicant resided and the data were desired for that place the request was complied with, and in the letter of transmittal it was suggested to the applicant that he arrange to have future needs for such data filled by process of subpœna duces tecum served upon the official in charge of the station.

For requests for data which did not require certification from persons residing in a place where there is a Weather Bureau station the applicants were referred to the local office and informed that they would be granted access to the records and allowed to extract the desired data. During the last few months applicants for information contained in climate and crop publications were referred to the local section directors.

IMPROVEMENTS IN SERVICE.

A scale for determining, without computation, wind velocities from the triple register sheets, devised and used by Mr. Arthur Thompson for several years past, was adopted as the standard gauge for station use and the necessary drawings made from which to have plates engraved for the purpose of printing the scales and issuing them to all stations.

All instructions for the preparation of meteorological forms, which heretofore have appeared on the backs and covers of the several forms, and in various other places, were revised and assembled in one publication under the caption, "Instructions for preparing meteorological forms, division of meteorological records circular, 1904." In this circular have been brought together all instructions for preparing meteorological forms, which will do away with the printing of instructions on the several forms, be a great convenience to observers, and render unnecessary the destruction of editions of forms which have become obsolete because of amendments to instructions relative thereto and the issue of new editions of the forms, thereby saving the expense of printing new editions. The circular will be issued each year, amended to date so far as practicable.

Under the supervision of the official in charge of the division, Mr. Eric Miller codified, and practically rewrote, the Instructions to Observers, in future to be known as "Station Regulations."

Negotiations are under way to obtain a large number of charts of the very best procurable types of clouds, with a view of having them mounted in a neat and attractive manner for issue to stations and for sale to teachers of meteorology and physical geography and others. It is believed they will meet a popular want and their sale be large.

RECOMMENDATIONS CONCERNING APPROPRIATIONS FOR 1905.

It is recommended that the appropriations for the fiscal year beginning July 1, 1905, be the same as those for the current fiscal year, with the following exceptions:

An increase of $1,000 per annum, from $2,000 to $3,000 per annum, in the salary of the chief of the Climate and Crop Division, is urgently recommended. This official has charge of the climate and crop service of the Bureau. He writes the weekly National Crop Report and supervises the reports issued by State section directors. For many years his work has been of such a high order and has so commended itself to the agricultural and commercial industries of the country as to reflect credit upon the public service. In order that these reports, which frequently influence the price of the products of the farm, may command the confidence of the public, it is essential that there be assigned to the work an official whose integrity, as well as whose ability, is so high as to be above suspicion. The present incumbent has made no request for advancement, but I am firmly of the opinion that it would be a wise economy, as well as a just action, to recognize his many years of valuable and faithful public service by making the increase in salary herein recommended.

It is also recommended that the salary of the assistant chief of the Division of Accounts of the Department of Agriculture, who is appropriated for in another part of the bill making appropriations for the support of the Department of Agriculture, and who serves under the joint direction of the Disbursing Officer of the Department and the Chief of the Weather Bureau, as disbursing clerk of the Bureau, be increased from $2,000 to $2,500 per annum. For nearly ten years I have had the benefit of the valuable assistance of this official in handling the fiscal affairs of the Bureau. I have implicit confidence in his integrity, and know that his ability as an accountant is of the highest order. If the committee in Congress would look into the manner in which his many and important duties are performed I believe that they would agree with me that his long and faithful service should be rewarded by the advancement in his salary that is now recommended. The Disbursing Officer of the Department joins me in this recommendation. There is no part of the work of the Weather Bureau that requires higher executive and business ability than that performed by this officer.

An increase of $20,000, as submitted under "Salaries outside of the city of Washington," is to cover the salaries of officials and employees required to establish eight new stations.

An increase of $2,000, as submitted under "Fuel, lights, and repairs," is for the purchase of new boilers for heat, light, and power.

An increase of $20,000, as submitted under "General expenses," is for supplies and maintenance of eight new stations.

An increase of $52,000 (from $48,000 to $100,000), as submitted under "Buildings; Weather Bureau," is for the purpose of erecting not less than ten Weather Bureau observatory buildings. The present appropriation provides for the erection of not less than five buildings, which number has not met the growing demands for the construction of new observatories. The wisdom of the Department in erecting and owning its own observatories is more manifest each day. It not only saves the amount now paid for rent of office quarters, but provides structures with roof exposures suitable to meteorological purposes, and also adds dignity to the public service.

An increase of $8,000 (from $27,000 to $35,000), as submitted under "Cables and land lines," is for the purpose of constructing cables and land lines to connect Beaver Island with Charlevoix, Mich., or some point in the immediate vicinity.

PART II.

LIST OF OBSERVING STATIONS AND CHANGES THEREIN DURING 1903.

TWICE-DAILY READINGS OF THE PRINCIPAL METEOROLOGICAL ELEMENTS AT 8 A. M. AND 8 P. M., SEVENTY-FIFTH MERIDIAN TIME, FOR THIRTY SELECTED STATIONS DURING 1903.

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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, 1903);

T=continuous records of temperature (on December 31, 1903);

W=continuous records of wind (direction and velocity) (on December 31, 1903);

V=continuous records of wind (velocity only) (on December 31, 1903);

R=continuous records of rainfall (on December 31, 1903);

S=continuous records of sunshine (on December 31, 1903).

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)	148
Taking one observation daily (all elements)	27
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*)	127
Taking one observation daily (temperature and rainfall only, *fruit and wheat region*)	19
Taking one observation daily (river and rainfall only)	190
Taking one observation daily (rainfall only)	67
Total paid stations	740
Voluntary stations, about	2,565
Grand total	3,305

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, 1903. 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, **P T W**	32 23	99 40	1 39 S.	1,738	45	36	54	Sept. 14, 1885	
Albany, **P T W R S**	42 39	73 45	05 F.	97	102	100	115	Dec. 22, 1873	
Alpena, **P T W R S**	45 05	83 30	34 S.	609	63	54	80	Sept. 10, 1872	
Amarillo, **P T W R**	35 13	101 50	1 47 S.	3,676	43	36	52	Jan. 1, 1892	
					10	3	49	.....	June 1, 1903
Asheville, **P T W R S**	35 36	82 32	30 S.	2,255	73	62	100	Aug. 22, 1902	
					53	46	75	.....	May 22, 1903
Astoria, **P V**	46 11	124 00	3 16 S.	20	57	36	64	Nov. 1, 1883	
Atlanta, **P T W R S**	33 45	84 23	38 S.	1,174	190	182	216	Sept. 25, 1878	

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, 1903. 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.		
Atlantic City, PTWRS	39 22	74 25	02 F.	52	39 37	32	48	Dec. 10, 1873	
Augusta, PTWRS	33 28	81 54	28 S.	180	89	54	97	Nov. 2, 1870	Dec. 5, 1903
Baker City, TV	44 50	117 50	2 51 S.	3,471	53	40	59	July 9, 1889	
Baltimore, PTWRS	39 18	76 37	06 S.	123	69	73	117	Jan. 1, 1871	
Binghamton, PTWRS	42 08	75 55	04 S.	875	79	71	90	Oct. 1, 1896	
Birmingham, PTWRS	33 32	86 50	47 S.	700	136	128	144	Sept. 14, 1895	
Bismarck, PTWRS	46 47	100 38	1 43 S.	1,674	16	2	29	Sept. 15, 1874	
Block Island, PTWRS	41 10	71 36	14 F.	26	11	3	60	Sept. 1, 1880	
Boise, PTWRS	43 37	116 08	2 45 S.	2,739	61	51	68	July 1, 1877	
Boston, PTWRS	42 21	71 04	16 F.	125	115	154	181	Nov. 1, 1870	
Buffalo, PTWRS	42 53	78 53	16 S.	767	178	168	206	....do	
Cairo, PTWRS	37 00	89 10	57 S.	356	87	80	93	June 1, 1871	
Cape Henry, PTWRS	36 56	76 00	04 S.	18	11	43	58	Dec. 15, 1873	
Cape May, TV	38 56	74 51	01 F.	17	47	39	51	July 16, 1897	
Carson City, PTWRS	39 10	119 46	2 59 S.	4,720	82	77	92	Dec. 1, 1887	
Charleston, PTWRS	32 47	79 56	20 S.	48	14	76	92	Jan. 5, 1871	
Charlotte, PTWRS	35 13	80 51	23 S.	773	68	60	76	Oct. 6, 1878	
Chattanooga, PTWS	35 04	85 14	41 S.	762	106	98	112	Sept. 12, 1875	
Cheyenne, PTWRS	41 08	104 48	1 59 S.	6,088	56	49	64	Nov. 1, 1870	
Chicago, PTWRS	41 53	87 37	50 S.	823	241	238	274	.....do	
Cincinnati, PTWRS	39 06	84 30	38 S.	628	152	145	160	.....do	
Cleveland, PTWRS	41 30	81 42	27 S.	762	190	163	201	.....do	
Columbia, Mo., PTWRS	38 57	92 14	1 09 S.	784	11	3	84	Aug. 21, 1889	
Columbia, S. C., PTWRS	34 00	81 03	24 S.	351	114 167	107 159	122 175	June 5, 1887	
Columbus, PTWRS	39 58	83 00	32 S.	824	173	171	190	July 1, 1878	Oct. 1, 1903
Concord, PTWRS	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, PTWRS	27 49	97 25	1 30 S.	20	48	38	53	Feb. 1, 1887	
Davenport, PTWRS	41 30	90 38	1 03 S.	606	71	64	79	May 24, 1871	
Denver, PTWRS	39 45	105 00	2 00 S.	5,291	79	74	151	Nov. 19, 1871	
Des Moines, PTWRS	41 35	93 37	1 14 S.	861	84	75	99	July 29, 1877	
Detroit, PTWRS	42 20	83 03	32 S.	730	153	147	193	Nov. 1, 1870	
Dodge, PTWRS	37 45	100 00	1 40 S.	2,509	44	36	54	Sept. 15, 1874	
Dubuque, PTWRS	42 30	90 44	1 03 S.	698	100	95	117	July 2, 1873	
Duluth, PTWRS	46 47	92 06	1 08 S.	702	95	90	116	Nov. 1, 1870	
Eastport, PTWRS	44 54	66 59	32 F.	76	69	62	82	Apr. 1, 1873	
Elkins, PTWRS	38 53	79 49	19 S.	1,940	41	34	50	Jan. 1, 1899	
El Paso, PTW	31 47	106 30	2 06 S.	3,762	10	2	110	Apr. 1, 1878	
Erie, PTWRS	42 07	80 05	20 S.	713	92	82	102	May 25, 1873	
Escanaba, PTWRS	45 48	87 05	48 S.	612	43 40	37 33	57 48	May 24, 1871	
Eureka, PTWS	40 48	124 11	3 17 S.	62	62	54	80	Jan. 1, 1887	July 3, 1903
Evansville, PTWR	37 58	87 33	50 S.	431	72	66	82	Dec. 1, 1897	
Flagstaff, TW	35 12	111 37	2 26 S.	6,907	12	3	25	Sept. 9, 1898	
Fort Smith, PTWRS	35 22	94 24	1 18 S.	457	79	72	94	Apr. 13, 1879	
Fort Worth, PTWRS	32 43	97 15	1 29 S.	670	106	3	114	Sept. 1, 1898	
Fresno, PTWRS	36 43	119 49	2 59 S.	330	67	54	70	Aug. 18, 1887	
Galveston, PTWRS	29 18	94 50	1 19 S.	54	106	98	112	Apr. 19, 1871	
Grand Rapids, PTWRS	42 58	85 40	43 S.	707	127	121	165	July 1, 1903	
Grand Junction, PTWRS	39 09	108 33	2 14 S.	4,608	43	36	51	Jan. 1, 1899	
Green Bay, PTWRS	44 31	88 00	52 S.	617	49	43	86	Sept. 1, 1886	
Hannibal, PTWRS	39 41	91 20	1 05 S.	534	75	68	110	Apr. 16, 1892	
Harrisburg, PTWRS	40 16	76 52	07 S.	374	94	87	104	July 1, 1888	
Hatteras, PWRS	35 15	75 40	03 S.	11	12	34	47	Dec. 1, 1880	
Havre, PTW	48 34	109 40	2 19 S.	2,505	46	38	53	May 16, 1892	
Helena, PTWS	46 34	112 04	2 28 S.	4,110	88	80	94	Apr. 1, 1880	
Houghton, PTWS	47 03	88 34	54 S.	668	66	57	74	Aug. 26, 1900	
Huron, PTWRS	44 21	98 14	1 33 S.	1,306	56	52	67	July 1, 1881	
Independence, PTWS	36 48	118 12	2 53 S.	3,910	51	43	58	Dec. 1, 1894	
Indianapolis, PTWRS	39 46	86 10	45 S.	822	154	146	164	Feb. 10, 1871	
Ithaca, PTWRS	42 27	76 29	6 S.						
Jacksonville, PTWRS	30 20	81 39	27 S.	43	101	88	129	Sept. 11, 1871	

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, 1903. 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.		
Jupiter, P W R S	26 57	80 07	20 S.	28	10	3	30	Jan. 1, 1888	
							48		Jan. 1, 1903
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 33	81 48	27 S.	22	43	34	50	Nov. 1, 1870	
					10	3	53		May 23, 1903
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	
					35	25			May 8, 1903
La Crosse, P T W R S	43 49	91 15	1 05 S.	714	71	63	87	Oct. 15, 1872	
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	116	108	123	July 1, 1877	
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	77	88	May 24, 1871	
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	
					76				Nov. 3, 1903
Memphis, P T W R S	35 09	90 03	1 00 S.	397	140	134	154	Feb. 28, 1871	
					146				Aug. 5, 1903
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, P T W R S	37 48	113 54	2 36 S.	5,479	10	2	38	Jan. 1, 1901	
							43		June 1, 1903
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.	938	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	134	Nov. 1, 1870	
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	305	350	.....do	
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	16	3	60	Mar. 1, 1887	
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	
						34			Jan. 1, 1903
Oklahoma City, P T W R S	35 26	97 33	1 30 S.	1,214	79	71	86	Nov. 1, 1890	
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	
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	
Point Reyes Light, V	38 11	122 51	3 11 S.	490	7	2	50	Mar. 1, 1889	
Port Crescent, V	48 08	123 41	3 15 S.	259	13	2	20	Oct. 1, 1898	
					12	3	29		Feb. 1, 1903
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	68	63	96	Nov. 1, 1870	

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, 1903. 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.		
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	111 208	100 199	210 217	Nov. 1, 1870	Aug. 16, 1903
St. Paul, P T W R S	44 58	93 03	1 12 S.	837	102	93	122	Nov. 1, 1870	
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	
Sand Key, P T W R S	24 39	82 52	28 S.	25	40	40	71	June 1, 1903	
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	46	39	48	June 1, 1885	
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	151	May 1, 1893	
Shreveport, P T W R S	32 30	93 40	1 15 S.	249	77	77	84	Sept. 3, 1871	
Sioux City, P T V	42 29	96 24	1 26 S.	1,135	96	86	164	Dec. 1, 1887	
S. E. Farallon, P T W R S	37 42	123 00	3 12 S.	30	9	3	17	June 4, 1903	
Spokane, P T W R S	47 40	117 25	2 50 S.	1,929	101	94	110	Feb. 1, 1881	
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 6	104	June 3, 1882	
Syracuse, P T W R S	43 02	76 10	05 S.	597	97	65	113	Aug. 22, 1902	Sept. 22, 1903
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	120	112	127	Nov. 1, 1870	
Topeka, P T W R S	39 03	95 41	1 23 S.		81 85	73	89	June 1, 1887	Nov. 13, 1903
Valentine, P T W R S	42 50	100 32	1 42 S.	2,598	47	36	54	Sept. 1, 1885	
Vicksburg, P T W R S	32 22	90 53	1 04 S.	247	62	53	74	Sept. 10, 1871	
Walla Walla, P W	46 02	118 20	2 53 S.	1,000	65	56	73 71	Dec. 1, 1885	April 14, 1903
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	86	July 1, 1888	
Williston, P T W S	48 09	103 35	1 54 S.	1,875	14	4	44	Nov. 24, 1893	
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	42	32	49	Apr. 1, 1873	
Yuma, V	32 45	114 36	2 38 S.	141	16	2	50	Oct. 4, 1875	
Yellowstone Park, P T W R S	44 58	110 42	2 23 S.	6,200	11	4	47	Dec. 2, 1903	

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, 1903. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Date of changes in elevation.
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 02 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, **PV**	17 58	76 48	07 S.	286	38	38	52	Aug. 16, 1898	
					41	39	55	.....	July 1, 1903
Trinidad.									
Port of Spain, **PV**	10 35	61 30	54 F.	40	65	48	66	Aug. 7, 1898	
					47	40	55	.....	Jan. 5, 1903
Dominica.									
Roseau, **PV**	15 17	61 23	54 F.	25	36	30	45	Oct. 20, 1898	
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 1903.

ESTABLISHED.

Stations.	Latitude.	Longitude.	Date of establishment.
	° ′	° ′	
Grand Rapids, Mich	42 58	85 40	July 1
Sand Key, Fla	24 39	82 52	June 1
Southeast Farallon, Cal	37 42	123 0	Apr. 17
Yellowstone Park, Wyo	44 58	110 42	Dec. 21
CORN AND WHEAT.			
Albia, Iowa			Apr. 1
Beaver Dam, Ky			Do.
SPECIAL RIVER.			
Abbeville, Ga			May 5
Austin, Tex			July 1
Ballenger, Tex			Do.
Baton Rouge, La			Do.
Beaumont, Tex			Do.
Castleton, N. Y			Feb. 21
Celina, Tenn			Dec. 1
Chatham, N. J			Feb. 10
Cohoes, N. Y			Feb. 21
Columbus, Tex			July 1
Corinth, N. Y			Feb. 21
Dallas, Tex			July 1
Donaldsonville, La			Do.
Fort Hunter, N. Y			Feb. 21
Glasgow, Mo			Feb. 1
Glens Falls, N. Y			Feb. 21
Grand Rapids, Wis			July 1
Hempstead, Tex			Do.
Hoosic Falls, N. Y			Feb. 21
Liberty, Tex			July 1
Little Falls, N. Y			Feb. 21
SPECIAL RIVER—continued.	° ′	° ′	
Logansport, La			July 1
Mahwah, N. J			Feb. 10
Mechanicsville, N. Y			Feb. 21
Millpoint, N. Y			Do.
Natchez, Miss			July
Northville, N. Y			Feb. 21
Old Boonton, N. J			Feb. 10
Orange, Tex			July 1
Pompton Plains, N. J			Feb. 10
Riverside, Tex			July 1
Riverton, Ala			Oct. 1
Rockland, Tex			July 1
Schaghticoke, N. Y			Feb. 21
Schenectady, N. Y			Do.
Schoharie Junction, N. Y			Do.
Stuyvesant, N. Y			Do.
Trenton Falls, N. Y			Do.
Troy, N. Y			Do.
Utica, N. Y			Do.
Warrensburg, N. Y			Do.
SPECIAL RAINFALL.			
Arkadelphia, Ark			Apr. 10
Athens, Ga			Nov. 1
Buckingham, Va			Apr. 15
Greensboro, Ga			Nov. 1
Griffin, Ga			Do.
Little Falls, N. J			Aug. 1
Malvern, Ark			Apr. 10
Oriskany, Va			Apr. 15
Prescott, Ark			Apr. 10

DISCONTINUED.

	° ′	° ′	
Astoria, Oreg	46 57	124 0	Jan. 31
Grand Haven, Mich	43 05	86 13	June 30
Lansing, Mich	42 44	84 32	Do.
New Brunswick, N. J			June 16
CORN AND WHEAT.			
Ogden, Iowa	42 03	94 01	Sept. 30
Canal Dover, Ohio	40 32	81 31	Do.
Chillicothe, Ohio	39 19	82 57	Do.
O'Neill, Nebr	42 27	98 33	Do.
Tecumseh, Nebr	40 22	96 10	Do.
FRUIT AND WHEAT.	° ′	° ′	
Chico, Cal	39 43	121 48	Aug. 31
SPECIAL RIVER.			
Marshall, N. C	35 47	82 10	Mar. 15
SPECIAL RAINFALL.			
Clifton Forge, Va			Apr. 15

TWICE-DAILY OBSERVATIONS FOR 30 SELECTED STATIONS, 1903.

EXPLANATION OF THE TABLES.

To meet the demands for more detailed data of the various meteorological elements, and to place before students of meteorology and climatology the means to follow the daily variations in the atmospheric field over large areas in conjunction with the publication of similar data from the principal meteorological services of the world, it has been decided to publish the daily values for a limited number of stations. Thirty stations have been selected, and effort has been made to cover as nearly as possible all the regions showing distinctive climatic features.

As a rule the various headings sufficiently explain the data thereunder. The pressure values are those known as "station pressures," viz, the original barometer readings to which corrections have been applied as follows: (1) For scale errors, capillarity, etc.; (2) for local gravity, including both latitude and altitude terms; (3) for the temperature of the mercury and the metallic scale.

The temperature of the air at 8 a. m. and 8 p. m. is obtained from the whirled dry thermometer exposed in the standard shelter adopted in 1885. The maximum and minimum temperatures are obtained from standard instruments and are for the civil day—midnight to midnight, seventy-fifth meridian time. The wet bulb temperatures are obtained from the whirled psychrometer exposed with the dry thermometer, as indicated above.

The values under precipitation show the amounts for the twelve hours preceding 8 a. m. and 8 p. m., respectively. Their sum will show the amount for the day ending at 8 p. m., seventy-fifth meridian time.

Under the heading "Clouds" is given the extent of the sky covered (amount) on a scale of (0–10); the kind of cloud and its direction.

The limited space available has made it impossible to give more than one "kind" of cloud. When more than one kind of cloud was observed, the predominating cloud is given. If an equal amount of both upper and lower clouds were recorded, only the upper clouds are given in this report.

Only two symbols for fog are used, viz, $\equiv^{o}$ light fog surrounding the observer, but not obscuring objects at a distance of 1,000 feet; $\equiv^{s}$ dense fog, obscuring objects at a distance of 1,000 feet. The period during which fog prevailed is indicated by the letters "a" and "p" for morning and evening respectively. No distinction as to vertical thickness is made.

EASTPORT, ME.

[φ=40° 54′ N; λ=66° 59′ W; barometer above sea, 76 feet; gravity correction, applied 0.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.99	29.86	25.0	34.5	40	25	23.5	81	32.0	76	W	8	SW	6	.....	.....	0	0	
2	30.02	30.09	32.0	36.2	40	31	31.0	89	34.0	81	W	10	W	5	.....	.....	5 ci. cu., n	10 s. (?)	
3	29.85	29.27	36.9	38.0	38	34	36.9	100	38.0	100	SE	20	NE	13	T.	0.44	10 n. (?)	10 s. (?)	≡◦
4	29.45	29.48	34.0	36.0	38	33	33.5	95	34.0	82	SW	6	NW	4	T.	.....	10 s. cu., sw	10 s., w. (?)	
5	29.45	29.71	30.0	26.5	33	24	29.0	89	24.5	76	NW	15	W	8	0.04	.....	10 s. cu., nw	0	*
6	29.65	29.30	26.0	25.0	31	22	24.5	81	24.5	94	W	7	N	14	.....	.22	5 s. sw	10 n. (?)	*≡◦p.
7	29.34	29.39	16.4	17.0	22	15	15.2	79	15.8	80	NW	15	W	6	.04	.....	2 s. nw	0	
8	29.00	29.12	20.5	14.0	21	12	20.5	100	14.0	100	N	12	NW	12	.16	.16	10 n. (?)	10 n. (?)	*≡◦
9	29.31	29.47	4.2	2.4	12	2	3.6	84	1.6	76	NW	18	W	12	.06	.....	10 s. cu., n	0	
10	29.64	29.89	− 3.0	4.0	11	− 5	− 3.8	69	3.0	72	W	15	W	9	.....	.....	2 s. cu., w	0	
11	30.04	29.60	10.0	31.0	35	3	9.0	78	31.0	100	W	7	SE	24	.....	.17	0	10 n. (?)	*≡◦p.
12	28.96	29.42	32.5	19.5	44	16	31.5	90	17.9	76	SW	20	W	15	.79	.....	10 cu., sw	0	
13	29.60	29.87	7.0	1.6	16	− 1	6.0	75	0.6	69	W	20	NW	15	.....	.....	2 cu., n	0	
14	29.95	29.88	− 1.0	16.0	16	− 1	− 1.6	79	14.2	69	W	20	W	13	.....	.....	0	0	
15	29.64	29.52	17.0	26.5	28	13	15.8	80	25.0	82	SW	8	SW	7	.....	.....	10 s., w	10 s. (?)	
16	29.68	29.75	20.0	23.0	26	18	18.4	76	21.0	72	NW	15	SW	12	.....	.....	5 s. cu., nw	0	
17	29.56	29.24	29.5	35.0	39	26	29.5	100	33.0	82	SW	7	W	9	.12	.18	10 n. (*)	0	
18	29.34	29.75	15.0	− 3.0	33	− 7	13.8	79	− 3.8	69	W	24	NW	30	.....	.....	1 cu., w	0	*≡◦a.
19	30.16	30.38	−14.0	− 1.6	− 2	−14	−14.5	68	− 2.2	78	W	18	W	9	.....	.....	0	0	
20	30.50	30.41	− 1.6	30.5	32	− 6	− 2.6	64	29.0	84	W	4	SW	16	.....	.....	0	5 s., sw. (?)	
21	30.08	29.06	37.0	41.5	45	32	36.5	95	41.5	100	S	12	NW	11	.....	1.04	10 s., s	10 n. (?)	≡◦p.
22	29.59	29.78	27.0	23.0	36	20	25.5	82	21.0	72	NW	18	NW	7	.06	.....	10 s. cu., nw	0	
23	29.71	29.85	22.0	11.5	30	4	20.5	78	10.5	80	SW	8	NW	26	.....	T.	1 s. cu., sw	0	*
24	30.22	30.34	− 4.3	5.0	7	− 4	− 4.9	76	4.0	73	NW	20	NW	10	T.	.....	0	0	*
25	30.35	30.24	5.5	14.0	16	3	4.9	84	13.0	81	NE	10	NE	15	.....	.....	5 ci. cu., se	0	
26	30.27	30.36	11.0	18.2	20	10	10.2	83	16.6	74	N	8	NW	8	.....	.....	10 ci. cu., ne	0	
27	30.26	30.09	19.0	34.0	34	14	17.6	78	32.0	81	SW	6	SW	6	.....	.....	2 s., sw	10 s. (?)	
28	29.96	29.84	32.0	36.3	36	32	30.5	84	36.3	100	W	3	SE	1	.....	T.	10 s., n	D. fog, se	≡◦a.
29	29.94	29.86	33.5	34.5	35	31	32.5	90	34.0	95	NE	14	E	20	.....	.....	10 s., ne	10 s. (?)	
30	29.42	29.02	35.0	35.5	41	32	35.0	100	35.0	95	SE	16	W	10	T.	.42	10 n., se	10 s. (?)	≡◦a.
31	29.23	29.48	17.0	20.5	32	15	15.8	80	18.5	70	W	20	W	20	.....	.....	8 cu., sw	0	
Mn.	29.75	29.72	18.4	22.1	28.5	13.8	17.5	83.4	21.0	81.9	W	13.0	W	12.0	1.27	2.58	5.7 s., s.cu., sw.	3.7 s., w., se., & sw.	

FEBRUARY, 1903.

1	29.78	29.95	16.2	22.0	25	16	15.0	79	20.0	71	W	18	NW	8	.....	.....	0	0	
2	29.94	29.95	20.0	29.5	30	18	19.0	85	29.0	94	E	7	E	17	.....	0.08	10 s., e	10 s. (?)	*
3	29.74	30.06	29.2	20.5	30	18	29.2	100	19.5	85	NE	34	NE	8	0.66	.03	10 n., ne	10 s. (?)	*≡◦a.
4	29.91	29.18	27.0	32.0	32	19	26.0	88	32.0	100	E	20	E	34	.....	.27	10 s., e	10 n. (?)	*≡◦p.
5	28.79	29.04	26.0	21.2	38	20	24.5	82	20.2	86	W	13	W	20	.13	.....	10 s., w	0	*
6	29.44	29.78	22.0	17.4	28	12	21.0	86	15.6	70	W	25	W	22	.01	.01	10 n., w	0	
7	29.91	30.12	10.0	10.0	15	7	8.8	73	8.9	77	NW	10	NW	15	.....	.....	0	0	*
8	30.15	29.70	6.2	24.0	25	4	4.8	64	24.0	100	N	12	SE	27	.....	.10	0	0	
9	29.10	29.45	16.2	21.2	37	16	15.0	79	19.2	71	W	20	NW	24	.38	T.	5 s., w	10 n. (?)	*≡◦p.
10	29.79	29.94	22.0	27.2	31	21	20.0	71	25.0	74	NW	16	NW	10	.....	.....	3 s., w	3 s., nw	*
11	29.93	29.75	25.5	38.0	39	23	23.0	68	37.0	91	NW	2	S	18	.....	.....	Lt. fog, nw	0	
12	28.94	29.32	41.0	36.0	43	30	41.0	100	33.5	78	S	20	W	27	.07	T.	10 s., s	10 s., s	
13	29.65	29.79	22.0	30.0	34	22	19.5	65	27.3	71	NW	24	NW	12	.....	.....	0	0	≡◦a.
14	29.81	29.96	18.6	19.0	26	17	17.2	78	17.0	69	NW	27	NW	20	.....	.....	0	0	
15	29.97	29.86	11.2	22.0	25	11	10.0	74	20.0	71	NW	14	NW	12	.....	.....	0	0	
16	29.66	29.57	13.4	18.0	21	13	13.4	100	16.8	80	N	8	N	11	.03	.05	10 n., n	9 s. (?)	
17	29.07	29.37	8.0	1.0	17	− 2	8.0	100	0.4	81	NE	36	NW	16	.38	.26	10 n. (?)	5 s. (?)	*≡◦a.
18	29.80	29.69	− 5.0	5.0	7	− 5	− 5.6	75	5.0	100	W	15	NW	10	.....	.08	0	0	*≡◦a.
19	29.95	30.08	− 3.0	− 1.0	2	− 6	− 3.6	77	− 1.8	72	W	16	W	16	.02	.....	0	10 n. (?)	*≡◦p.
20	30.17	30.20	− 3.0	12.8	14	− 7	− 3.8	69	11.2	69	W	11	SW	15	.....	.....	0	0	
21	30.28	30.10	12.0	25.5	27	10	10.6	71	24.5	87	W	5	SW	6	.....	.02	0, lt. fog, w	0	
22	29.83	30.05	20.0	22.0	30	18	19.0	85	20.5	78	W	12	NW	22	.02	.....	10 s., n	10 s. (?)	*
23	30.18	30.06	22.0	30.5	33	14	21.0	86	28.5	78	W	9	SW	6	.....	T.	10 s., w	0	≡◦a.
24	30.14	30.02	25.0	29.0	31	24	23.0	74	27.1	78	W	8	SW	4	.....	.....	2 s., nw	10 s. (?)	*
25	29.94	30.01	21.0	29.0	31	20	20.0	85	27.0	77	N	15	SW	13	.08	.....	10 s., n	0	
26	30.07	30.06	27.0	35.0	42	25	24.5	70	32.3	75	W	9	SW	13	.....	.....	3 s., w	0	*
27	30.08	30.05	31.0	38.0	50	29	29.5	84	36.0	83	SW	10	SW	8	.....	.....	0	10 s. (?)	
28	29.68	29.10	43.0	50.0	52	39	43.0	100	50.0	100	S	30	SW	39	.25	.63	10 n., s	10 n. (?)	≡◦
Mn.	29.78	29.79	18.7	23.7	29.1	15.2	17.6	81.0	22.3	80.9	W	15.9	NW	16.0	2.48	1.53	4.8 s., w	4.2 s., nw	

EASTPORT, ME.

[φ=40° 54′ N; λ=66° 59′ W; barometer above sea, 76 feet; gravity correction applied 0.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.41	29.90	41.0	21.0	45	13	39.5	88	19.0	71	SW	15	NW	20	T.	.....	10 s., w	0	
2	30.19	30.28	12.0	28.5	30	11	10.8	75	26.0	72	SW	8	W	13	.....	.....	8 s., sw	0	*
3	30.63	30.56	5.0	18.6	22	4	8.8	68	17.2	78	N	12	SW	6	0.01	.....	0	0	
4	30.32	30.23	33.2	35.0	38	22	31.7	85	32.0	81	SW	15	SW	6	.....	.....	10 s., sw	0	
5	30.23	30.04	32.5	32.0	34	32	30.5	80	32.0	100	W	9	E	15	.....	0.11	10 s., w	10 n. (?)	*≡°p.
6	29.89	30.34	33.4	32.0	36	30	32.0	85	29.5	74	NW	24	N	9	.22	.....	8 s. cu., n	0	
7	30.52	30.51	26.0	35.5	38	25	23.5	69	33.0	77	NW	5	SW	12	.....	.....	0	10 s. cu., sw	
8	30.27	30.16	38.2	42.3	42	34	38.2	100	42.3	100	S	29	SW	11	.03	.44	10 s., s	10 n. (?)	≡°
9	30.37	30.57	39.4	35.0	40	32	39.0	96	34.0	90	N	18	NE	34	.67	T.	10 s., n	10 n. (?)	
10	30.59	30.54	32.2	34.5	36	30	32.2	100	33.5	90	E	28	SE	12	.29	.37	10 n., e	10 s. (?)	≡°a.
11	30.29	30.05	36.0	40.0	42	33	35.0	91	40.0	100	SE	14	W	8	.05	.30	10 s., se	D. fog, W	≡°a.
12	30.18	30.07	33.5	38.0	49	32	31.0	76	35.0	75	N	10	W	6	.....	.....	0	0	
13	30.06	30.09	35.0	37.5	49	32	32.0	72	35.0	78	SW	5	S	7	.....	.....	0, lt. haze	5 s., w	—°
14	30.10	30.06	35.0	39.0	49	32	35.0	100	36.5	79	0	0	NW	10	.....	.....	0, lt. fog, 0	0	
15	30.26	30.41	31.8	28.5	39	27	30.3	84	27.0	82	NE	20	E	20	.....	.....	2 s., ne	0	
16	30.50	30.38	28.0	31.0	33	26	26.5	82	29.0	78	SE	16	SW	12	.....	.....	0	0	*
17	30.10	30.09	36.0	37.8	40	31	35.5	95	37.8	100	SW	12	W	6	T.	.25	10 s., sw	10 n. (?)	≡°
18	30.33	30.41	34.0	33.3	37	32	32.0	81	31.3	80	NE	11	SE	5	T.	.....	0	0	
19	30.15	30.00	38.0	39.0	49	35	36.5	87	36.0	75	SW	22	SW	11	.....	.....	10 s., sw	Lt. smoke, sw	≡°a.
20	30.05	30.17	38.0	31.8	41	30	35.5	79	29.8	79	NE	9	NE	40	.....	.....	5 s. cu., w	10 s. (?)	
21	30.19	29.99	31.0	37.0	40	30	31.0	100	37.0	100	E	15	SE	9	.08	.10	10 n. (?)	D. fog, se	≡°a.
22	29.91	30.11	39.2	44.0	48	39	39.2	100	41.5	81	NW	3	NW	7	.71	.01	10 n., nw	0	
23	30.29	30.02	35.5	35.3	40	35	33.5	82	35.3	100	NE	4	E	22	.....	.09	10 s., e	10 n. (?)	≡°p.
24	29.92	29.87	39.0	34.0	49	31	39.0	100	31.9	80	NW	9	NE	20	.75	.....	D. fog, nw	10 s. (?)	
25	29.66	29.55	31.0	38.0	43	30	29.5	84	35.5	79	N	7	W	10	.01	.....	10 s. cu., sw	0	
26	29.63	29.78	34.0	36.0	42	30	31.0	71	33.0	73	W	24	W	3	.....	.....	5 s. cu., w	0	—°
27	29.69	29.83	37.0	36.0	48	30	35.0	83	33.0	73	SW	5	NW	8	.....	.01	10 s., sw	0	
28	30.02	30.00	27.0	28.0	32	26	25.5	82	27.0	88	NE	9	0	0	.....	.03	8 s., ne	10 n. (?)	*—°≡°p.
29	30.19	30.34	20.0	33.0	36	20	18.0	70	30.0	70	NW	28	NW	6	.06	.....	2 cu., nw	0	*—°
30	30.29	30.04	29.0	34.1	42	25	26.5	72	31.6	76	W	4	SW	11	.....	.....	0	7 s. (?)	—°
31	29.48	29.35	34.6	39.0	40	34	34.6	100	37.0	83	NE	30	N	10	.84	.05	10 n. (?)	10 s., ne	≡°a.
Mn.	30.12	30.12	32.1	34.3	40.3	28.2	30.8	85.1	32.5	82.6	SW	13.3	SW	11.9	3.22	1.76	6.1 s., sw	3.9 s. n., sw	

APRIL, 1903.

1	29.56	29.91	35.0	34.0	43	32	33.0	81	31.5	.76	SE	6	NE	10	.....	.....	10 s., s	10 s. (?)	
2	30.19	30.08	25.0	34.0	35	25	28.0	74	32.0	81	NE	12	S	13	.....	.....	10 s. cu., e	7 s. cu., sw	
3	29.67	29.39	39.0	45.0	49	34	39.0	100	45.0	100	S	36	S	26	0.13	0.04	10 n., s	D. fog, s	≡°a.
4	29.32	29.44	47.3	33.3	48	24	46.3	93	33.3	100	SW	19	N	21	.05	.22	10 s. (?)	10 n. (?)	△≡°a.
5	29.75	30.06	21.0	25.2	27	20	19.5	78	23.0	72	NW	24	NW	19	.38	.....	10 s. cu., nw	0	*—°△
6	30.30	30.32	20.0	32.0	37	17	18.0	70	30.0	79	NW	17	SW	7	.....	.....	0	10 s., sw	—°
7	30.30	29.91	35.0	40.2	45	31	33.0	81	40.2	100	SE	17	S	25	.....	.61	10 s. cu., se	10 n. (?)	*△≡°p.
8	29.82	29.70	42.2	37.6	47	36	42.2	100	37.6	100	SW	8	NE	10	.28	.20	10 s. (?)	10 n. (?)	≡a.≡°p.
9	29.54	29.69	38.0	45.0	52	38	38.0	100	41.5	74	NW	15	NW	10	.84	T.	10 n., ne	0	
10	29.80	29.85	36.5	44.0	50	32	33.0	68	39.5	67	NW	4	NW	10	.....	.....	10 s. cu., w	0	
11	29.89	29.81	34.3	41.5	46	32	33.3	90	36.5	62	NE	13	NW	16	.04	.03	10 n. (?)	0	*
12	29.74	29.74	34.0	35.0	43	32	29.0	52	30.5	58	NW	15	N	11	.....	.....	5 s. cu., nw	10 s., n	
13	29.81	29.96	35.0	39.0	45	31	34.5	95	37.0	83	NE	12	NE	17	T.	.....	10 s. (?)	5 s., ne	
14	29.99	30.05	39.5	37.0	43	34	37.5	83	35.0	83	N	7	E	19	.....	.....	0	0	
15	29.98	29.89	34.0	40.5	42	34	33.0	90	39.0	88	NE	28	E	30	.....	.....	8 s., ne	10 s. (?)	
16	29.75	29.65	35.0	40.5	43	33	33.5	86	38.5	84	NE	30	NE	20	.....	T.	10 s., ne	10 s. (?)	*
17	29.51	29.40	32.2	32.2	33	31	31.7	95	32.2	100	NE	24	N	26	.18	.09	10 n., ne	10 s. (?)	*
18	29.30	29.40	34.0	41.0	46	31	32.5	86	38.0	77	NW	18	NW	8	.15	.....	8 cu., nw	0	*
19	29.46	29.49	35.2	38.0	45	32	32.0	70	37.0	91	W	8	W	4	.....	.06	0	10 s., w. (?)	*
20	29.50	29.52	34.8	40.5	50	33	32.8	81	37.5	76	W	10	SW	8	.....	.....	3 s., w	0	
21	29.54	29.57	40.0	45.0	48	35	36.5	71	41.0	71	SW	5	W	11	.....	.....	0	0	
22	29.67	29.70	39.6	42.0	49	36	36.6	75	39.5	81	NE	12	E	4	.....	.....	0	6 s. (?)	
23	29.88	29.89	38.0	40.5	49	37	36.0	83	38.0	80	NE	4	S	6	.....	.....	6 s., 0	0	
24	29.85	29.74	39.0	43.0	49	37	37.0	83	40.0	77	SE	7	SW	7	.....	.....	10 s., e	10 s. (?)	
25	29.69	29.85	41.8	44.5	48	38	38.3	76	41.0	74	NW	11	SW	6	T.	.03	10 s., nw	0	
26	30.07	30.05	41.0	40.5	48	36	37.5	72	37.5	76	NW	3	S	3	.....	.....	0	0	
27	30.06	30.08	41.0	44.0	50	38	39.0	84	40.5	74	E	12	S	5	.....	.....	2 ci., w	0	
28	30.10	29.93	45.0	45.0	52	37	41.0	71	42.0	78	S	5	SW	6	.....	.....	0	0	—°
29	29.88	29.85	45.0	61.0	72	40	40.0	64	56.0	73	SW	2	N	20	.....	.....	0	Lt. smoke, n	
30	30.00	29.85	39.0	43.0	47	38	37.5	87	41.0	85	NE	15	SE	14	.....	.....	8 ci. s., nw	0	
Mn.	29.79	29.79	36.5	40.1	46.0	32.8	34.5	81.3	37.7	80.7	NE	13.3	S	13.1	2.05	1.28	6.0 s., nw	4.6 s., n., sw., w	

EASTPORT, ME.

[φ=40° 54′ N; λ=66° 59′ W; barometer above sea, 76 feet; gravity correction applied 0.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.61	30.08	43.0	39.5	53	35	43.0	100	36.0	71	S	13	NW	9	.....	.....	10 s., s	0	≡°a.
2	30.45	30.43	29.3	37.0	41	28	26.3	66	34.0	74	NE	13	SE	4	.....	.....	0	0	⌐°
3	30.42	30.26	38.3	39.0	44	34	35.3	75	37.0	83	SE	9	S	5	.....	.....	0	10 s., w	⌐°
4	30.14	30.14	43.0	43.8	45	38	42.0	92	43.8	100	NE	3	N	6	0.28	0.95	10 n., ne	10 n. (?)	≡°
5	30.18	30.12	42.0	44.0	44	42	42.0	100	43.5	96	NE	14	NE	15	.77	.14	10 n., ne	10 s., se	≡°a.
6	30.07	30.00	41.0	46.3	48	40	40.0	92	45.3	93	N	12	N	13	.04	T.	10 s. cu., n	10 s., ne	
7	29.95	29.94	44.0	46.0	54	43	42.0	85	44.0	86	N	7	E	3	T.	T.	10 s., n	0	
8	29.96	29.98	49.0	56.0	69	42	46.0	80	51.0	71	N	10	SW	4	.....	.....	5 s. cu., n	0	
9	30.19	30.19	42.0	42.0	56	40	38.5	73	39.0	77	NE	16	E	3	.....	.....	0	0	
10	30.20	30.18	49.0	44.0	56	39	45.5	76	41.5	81	SW	9	SW	12	.....	.....	0	0	
11	30.22	30.23	46.0	50.0	58	42	44.0	86	45.0	67	S	9	S	12	.....	.....	0	0	
12	30.29	30.35	50.0	47.0	61	42	46.0	74	43.5	75	SW	2	E	8	.....	.....	0	2 s. (?)	Lt. smoke, w.p.
13	30.28	30.02	42.4	48.5	55	41	41.4	92	46.5	86	SW	5	SW	13	.....	.....	10 s. (?)	0	≡°a.
14	29.97	29.89	48.8	46.0	52	42	45.8	80	43.5	82	N	9	NE	11	....	T.	Lt. smoke, n.	10 s. (?)	
15	29.74	29.94	49.0	44.0	65	40	46.5	83	41.0	78	W	6	E	23	.....	.....	Lt. smoke, w.	Lt. smoke, e	
16	30.19	30.14	40.6	42.0	48	37	36.6	69	39.0	77	E	5	SW	15	.....	.....	0	0	
17	30.01	29.90	46.0	46.5	53	40	43.5	82	44.5	86	SW	7	S	8	.....	.....	Lt. smoke, sw.	Lt. smoke, s	
18	29.82	29.90	53.0	49.0	76	43	50.0	81	45.0	73	NW	10	NE	8	.....	.....	Lt. smoke, nw.	Lt. smoke, ne	
19	29.88	29.84	45.0	47.5	53	44	43.0	86	44.5	79	NE	7	SE	8	.....	.....	5 s., w	6 s. (?)	⌐a Lt. smoke.
20	29.85	29.78	43.0	44.5	47	42	42.5	96	44.0	96	E	12	SW	11	.21	T.	10 s., e	D. fog, sw	
21	29.79	29.72	49.0	58.0	70	44	49.0	100	54.0	77	NW	6	SW	12	....	.04	4 s. cu., nw	0	≡°a⌐a
22	29.59	29.68	54.0	53.5	68	47	52.0	88	50.5	82	NW	5	NW	9	.09	.....	2 s. cu., w	0	Lt. smoke, a.
23	29.78	29.91	40.0	44.5	48	40	38.0	83	40.5	71	NW	18	NW	18	.....	.....	0	0	
24	30.04	30.04	38.7	43.5	52	34	34.7	67	41.0	81	NW	16	S	4	.....	.....	0	0	
25	30.16	30.19	45.0	46.0	60	39	40.0	64	42.5	75	W	6	SW	4	.....	.....	Lt. smoke, w.	0	—
26	30.30	30.30	50.5	50.0	65	40	48.0	84	45.0	67	S	5	SW	12	.....	.....	0	2 s., w	
27	30.23	30.09	52.0	50.5	56	44	48.5	78	50.0	96	S	16	S	15	....	T.	6 s., w	D. fog, s	Lt. smoke, a.
28	30.02	29.95	57.0	58.3	64	49	55.5	91	57.3	94	SW	18	SW	21	.....	.....	10 s., sw	10 s., sw	≡°
29	29.92	29.93	50.0	63.5	76	50	49.5	96	58.5	74	S	11	W	11	.....	.....	10 s. (?)	8 a. cu., w	≡°a
30	29.95	29.96	57.0	51.5	65	46	51.0	66	45.5	62	W	7	NW	8	.....	.....	2 s., w	0	Lt. smoke, a.
31	30.08	30.18	48.8	48.0	60	43	44.8	73	45.0	79	N	15	E	8	.....	.....	0	8 s. cu., nw	
Mn	30.04	30.04	46.0	47.4	56.8	41.0	43.6	82.5	44.6	80.3	n,ne, sw,s, nw	9.7	SW	10.1	1.39	1.13	3.7 s., w	2.8 s., w	

JUNE, 1903.

1	30.16	30.10	56.0	57.0	64	41	50.0	65	52.0	71	W	5	NW	8	.....	.....	0	10 s. cu., n	
2	30.18	29.98	47.3	53.0	62	44	43.3	72	49.0	75	NE	6	SW	12	.....	.....	Lt. smoke, ne.	2 s., w	Lt. smoke.
3	29.72	29.86	56.3	50.5	72	46	52.3	76	47.0	78	W	10	E	15	T.	.....	Lt. smoke, w.	D. smoke, e	
4	30.10	30.16	47.5	49.0	62	41	43.5	72	46.0	80	NW	10	SE	2	.....	.....	Lt. smoke, nw.	Lt. smoke, se	
5	30.27	30.17	46.3	56.0	61	44	43.3	79	51.0	71	NE	5	S	9	.....	.....	Lt. smoke, ne.	Lt. smoke, s	
6	30.12	30.09	58.0	50.0	63	47	54.5	80	47.5	83	SW	3	NE	8	T.	.....	Lt. smoke, sw.	Lt. smoke, ne	
7	30.07	30.04	47.0	49.0	51	45	46.5	96	49.0	100	SE	4	S	12	.....	.....	D. fog, se	D. fog, s	
8	30.05	30.00	52.0	48.0	56	48	52.0	100	48.0	100	S	6	S	7	.....	.....	10 s., s	D. fog, s	
9	29.98	29.97	53.0	54.0	56	49	53.0	100	53.5	100	S	10	S	5	0.08	0.04	10 n., s	10 n. (?)	≡a.
10	29.99	29.98	53.0	53.0	58	49	53.0	100	53.0	100	S	8	0	0	.06	.....	D. fog, s	D. fog, 0	≡°p.
11	29.98	29.99	51.0	51.3	54	48	51.0	100	51.3	100	NE	6	N	6	.....	.....	D. fog, ne	D. fog, n	≡°a.
12	30.00	30.04	52.0	52.2	56	48	52.0	100	50.2	87	E	18	E	26	.04	.02	10 n., e	10 s., se	
13	29.97	29.88	48.0	50.8	54	47	47.0	93	50.8	100	E	30	E	19	.....	.36	10 ci. s., e	10 n. (?)	≡°
14	29.80	29.76	50.0	49.0	56	48	50.0	100	49.0	100	NE	8	NE	4	.50	.09	D. fog, ne	D. fog, ne	
15	29.70	29.76	50.5	50.0	52	48	50.5	100	48.5	90	NE	36	NE	24	T.	.07	10 n., ne	10 s., ne	≡°a.
16	29.79	29.76	48.8	55.0	56	47	46.8	86	53.0	88	NE	15	NE	8	.....	.....	10 s., ne	10 s. cu., n[e]	
17	29.82	29.89	52.0	51.5	55	49	50.0	87	49.5	87	NE	17	NE	12	.....	.....	10 s. cu., ne	9 s. cu., ne	
18	29.94	29.89	51.5	52.0	64	49	49.0	84	49.0	81	NE	6	SW	6	.....	.....	4 s. cu., ne	10 s. cu., ne	
19	29.88	29.85	52.0	50.5	55	48	49.5	84	48.5	87	NW	4	SE	3	.....	.....	10 ci. cu., ne	10 s. cu., se	
20	29.90	29.92	49.0	48.0	54	44	47.5	90	47.0	93	E	8	S	6	.....	.....	10 s., e	10 s. (?)	Lt. smoke, a. ≡°p.
21	29.92	29.84	46.0	52.5	58	42	46.0	100	51.0	90	E	15	E	8	.....	.....	10 s., e	5 s., w	≡°a.
22	29.90	29.95	49.5	52.0	58	48	47.0	83	49.5	84	NE	16	NE	4	.....	.....	4 ci. s., w	Lt. smoke, ne	≡°a.
23	30.02	29.98	51.3	61.0	70	47	48.3	81	57.0	78	NE	11	E	1	.....	.....	2 s., ne	5 s. (?)	≡°a. Lt. smoke, p.
24	30.04	30.06	46.5	49.0	53	45	45.0	89	46.0	80	E	16	SE	12	.....	.....	10 s., e	7 a. cu., w	Lt. smoke.
25	30.04	29.85	47.0	51.0	51	45	46.0	93	50.0	94	NE	18	NE	15	T.	.10	10 s., ne	10 s. (?)	Lt. smoke, a.
26	29.81	29.77	55.0	49.0	64	49	55.0	100	46.5	83	W	8	S	7	.33	T.	10 s. cu., w	10 s. cu., w	≡°
27	29.72	29.64	64.0	65.5	75	52	60.0	79	61.5	80	W	5	NW	10	.....	.....	2 s. cu., w	5 s., w	Lt. smoke, a.
28	29.69	29.73	59.0	55.0	74	49	54.0	72	52.0	82	NW	6	S	8	.....	.....	0	0	
29	29.86	29.89	56.0	54.0	60	48	53.5	85	52.0	88	SW	5	S	6	.....	.....	8 s., sw	10 s., sw	
30	29.85	29.75	54.0	54.0	60	50	51.0	82	52.0	88	W	3	SW	8	T.	T.	10 s., w	10 s., w	
Mn	29.94	29.92	51.6	52.4	59.4	46.8	49.7	87.6	50.3	87.3	NE	10.6	S	9.0	1.01	.68	5.3 s., ne	5.5 s., ne	

EASTPORT, ME.

[φ 40° 54′ N; λ = 66° 59′ W; barometer above sea, 76 feet; gravity correction applied 0.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.73	29.68	52.2	51.3	62	47	50.0	87	50.3	94	S	5	S	10	0.01	.....	10 s., s	10 s. (?)	≡°
2	29.50	29.49	52.0	66.6	84	47	52.0	100	61.6	76	S	15	NW	14	.23	.....	D. fog, s	0	⌐◪
3	29.68	29.64	62.2	61.0	69	55	58.2	79	57.0	78	NW	13	W	6	.....	.....	0	5 s. cu., w	
4	29.80	29.95	57.4	59.5	63	55	53.4	77	54.5	72	NW	18	NW	8	.....	.....	2 cu., nw	0	
5	30.03	29.96	57.3	62.0	71	50	52.3	71	59.0	84	NW	1	SW	11	.....	.....	0	5 s. cu., ne	
6	29.98	29.94	51.0	54.0	59	50	49.0	87	53.5	97	S	10	S	6	T.	T.	10 s. cu., w	D. fog, s	
7	29.92	29.84	55.6	65.0	70	50	55.6	100	63.0	90	S	2	SW	6	.....	.....	8 s. cu., n	10 s., w	≡°
8	29.82	29.77	65.2	63.0	76	59	61.2	80	61.0	89	W	2	0	0	.....	.....	8 s. cu., n	10 s. cu., nw	
9	29.79	29.84	57.0	58.0	70	52	56.0	94	57.0	94	0	0	S	6	.07	0.04	10 n., nw	Lt. fog, s	≡°a.
10	29.86	29.64	55.2	54.0	57	52	54.2	94	54.0	100	S	8	S	15	....	1.36	10 s., s	D. fog, s	⌐◪≡°a.
11	29.63	29.61	60.0	68.0	77	52	60.0	100	63.5	78	SW	2	SW	6	....	T.	D. fog, sw	5 s. cu., w	
12	29.60	29.60	57.0	71.0	80	55	56.0	94	65.0	72	S	5	NW	8	.05	.....	Lt. fog, s	10 s. cu., w	
13	29.63	29.64	61.0	61.0	74	54	59.0	89	60.0	94	W	2	SW	2	.....	.....	10 s., w	10 s., w	≡°
14	29.64	29.65	56.0	52.0	64	50	55.5	97	52.0	100	0	0	S	9	.....	.....	8 s., w	D. fog, s	≡°a.
15	29.64	29.69	54.0	52.0	60	48	53.0	94	51.5	97	S	9	S	8	.....	.....	10 s., ne	D. fog, s	≡°a.
16	29.64	29.71	52.5	56.5	66	49	52.5	100	55.0	91	SW	7	SW	8	....	.01	8 cu., sw	10 s., sw	≡°
17	29.81	29.85	60.0	58.0	69	49	57.0	83	55.0	83	S	2	S	8	....	T.	0	3 s., w	
18	29.87	29.85	59.0	53.0	69	51	55.0	78	52.0	94	SW	2	S	8	.....	.....	Lt. fog, sw	2 s., w	≡°p.
19	29.80	29.65	54.5	53.4	57	52	54.5	100	53.4	100	E	6	NE	37	.02	.18	10 n., e	10 n., ne	≡°p.
20	29.66	29.84	58.0	61.0	65	55	57.5	97	58.5	86	N	10	NW	8	.09	.....	10 s. cu., n	10 s. cu., nw	≡°a.
21	29.92	29.94	59.0	56.6	64	54	57.0	89	55.0	91	0	0	W	4	....	.03	10 s. cu., 0	9 s., w	≡°a.
22	29.99	30.01	58.3	55.8	64	53	55.3	83	54.8	94	NW	1	S	8	.....	.....	3 s. cu., nw	D. fog, s	≡°a.
23	29.93	29.76	51.3	52.6	58	51	51.3	100	52.6	100	NE	8	S	4	....	.89	D. fog, ne	D. fog, s	⌐◪
24	29.73	29.79	62.0	61.0	72	56	61.0	94	55.0	68	W	8	NW	8	....	.02	7 s. cu., nw	0	
25	29.84	29.76	61.3	57.0	71	53	56.3	73	54.5	85	W	3	SW	6	.....	.....	7 s. cu., nw	10 s. cu., w	
26	29.68	29.50	63.3	64.0	74	54	61.3	89	61.5	87	W	5	SW	9	.04	.02	10 ci. cu., w	3 cu. n., w	⌐◪
27	29.40	29.65	49.3	54.0	59	45	45.3	73	50.0	76	W	22	N	20	T.	T.	10 n., w	8 s. cu., n	≡°a.
28	29.80	29.88	55.0	54.0	68	47	50.0	70	51.5	85	NW	14	S	6	.....	.....	0	9 cu., w	
29	29.90	29.73	54.0	53.0	60	49	52.0	88	52.5	97	S	11	S	10	.....	.35	10 ci. s., s	10 n. (?)	≡°p.
30	29.68	29.59	51.0	53.0	60	53	54.0	100	52.5	97	S	8	S	10	.44	.....	10 s., s	D. fog, s	≡°a.
31	29.67	29.85	64.4	62.0	75	52	64.4	100	56.0	69	SW	5	W	6	.....	.....	8 s. cu., sw	0	≡°a.
Mn.	29.76	29.75	57.1	58.2	67.3	51.5	55.2	89.0	55.9	87.7	S	6.6	S	8.9	0.95	2.90	6.1 s. cu., s	4.8 s. cu., w	

AUGUST, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.04	30.06	60.0	61.0	71	50	55.0	73	54.0	63	W	8	W	6	.....	.....	0	0	
2	30.16	30.26	56.0	58.0	64	50	51.0	71	53.0	72	N	12	NW	10	.....	.....	0	5 s., w	
3	30.27	30.20	55.0	57.0	66	50	50.0	70	52.0	71	NW	4	SW	8	.....	.....	0	0	
4	30.16	30.10	57.0	56.0	69	49	52.0	71	51.0	71	0	0	SW	8	.....	.....	2 s., 0	5 s., sw	≡°a.
5	30.13	30.04	50.5	52.0	58	48	50.5	100	51.0	94	SE	2	E	6	.....	.....	10 s., 0	Lt. fog, e	≡°a.
6	29.96	29.85	51.3	59.0	60	49	50.3	94	56.0	83	NE	18	N	6	.....	.....	10 s., ne	10 s. (?)	≡°a.
7	29.76	29.69	55.0	55.0	57	55	54.5	97	55.0	100	E	2	SW	4	.....	0.02	D. fog, e	D. fog, sw	
8	29.83	29.88	55.0	55.5	64	51	50.0	70	51.5	76	NW	9	SW	4	.....	.....	0	2 s., w	
9	29.94	29.87	56.0	50.3	58	48	52.5	79	49.3	93	S	9	SE	7	.....	.24	2 s., w	10 n. (?)	≡°p.
10	29.83	29.84	52.3	52.8	58	50	52.3	100	51.8	94	W	4	SW	8	0.20	.....	10 s., w	Lt. fog, sw	≡°a.
11	29.91	29.87	50.0	54.0	60	47	50.0	100	53.5	97	NE	5	S	10	.....	.....	D. fog, ne	D. fog, s	
12	29.83	29.78	54.0	58.0	62	52	54.0	100	57.0	94	SE	4	S	4	.08	.....	10 s., 0	9 s., w	≡°
13	29.80	29.90	60.0	59.5	68	55	56.0	78	54.5	72	W	11	W	4	.....	.....	7 s. cu., w	0	
14	29.97	29.93	58.0	63.0	72	52	54.0	77	57.0	69	W	6	NW	6	.....	.....	0	0	
15	29.92	29.94	59.8	61.5	70	54	54.8	73	57.5	78	NW	4	SW	6	....	T.	3 s. cu., nw	7 s. cu., w	
16	29.98	29.93	60.0	60.0	69	53	55.0	73	55.0	73	0	0	S	6	.....	.....	0	2 s., w	
17	29.92	29.91	54.0	54.4	62	51	51.0	82	53.4	94	E	6	NE	3	....	.07	8 s. cu., e	10 s. (?)	⌐◪≡°
18	29.95	29.99	53.3	55.0	64	51	53.3	100	52.0	82	W	5	SW	6	.02	.....	10 s., w	0	≡°a.
19	29.93	29.88	54.0	60.0	68	51	53.0	94	58.5	91	S	13	S	8	.....	.....	10 s., s	10 s. cu., w	≡°
20	29.73	29.56	58.0	59.0	65	56	58.0	100	58.5	97	S	11	NW	4	....	.11	D. fog, s	10 s. (?)	≡°p.
21	29.72	29.79	62.0	63.0	71	55	58.0	79	56.5	67	NW	12	S	6	.03	.....	0	0	▽
22	29.58	29.40	62.0	62.5	73	56	60.0	89	60.0	87	SW	24	W	12	....	.15	7 ci., sw	0	⌐◪≡°a.
23	29.67	29.68	54.5	58.0	67	50	51.0	79	54.0	77	W	9	NW	8	....	.01	5 ci., w	0	
24	29.79	29.83	55.0	58.0	66	48	50.0	70	53.0	72	NW	11	W	7	.....	.....	0	0	
25	29.89	29.82	54.0	56.0	62	47	50.0	76	54.0	88	W	2	SW	2	....	T.	8 s. cu., nw	10 s., w	
26	29.85	29.85	57.5	54.0	68	52	53.5	77	52.0	88	NW	7	SW	6	T.	.....	3 ci. s., nw	0	
27	29.90	29.95	56.0	60.0	69	52	51.0	66	54.0	68	NW	11	N	4	T.	.....	0	0	
28	30.06	30.11	54.3	54.0	67	49	50.3	76	52.0	88	NW	2	S	5	.....	.....	0	0	
29	30.18	30.16	52.7	56.0	66	49	49.7	81	52.0	76	N	5	SW	6	.....	.....	5 ci. s., w	0	
30	30.19	30.15	53.8	59.0	64	49	51.3	87	55.0	78	NE	7	SE	11	.....	.....	3 ci. s., w	10 s., w	
31	30.00	29.80	53.3	55.0	56	52	53.3	100	55.0	100	E	82	NE	15	.14	.07	10 n., e	D. fog, ne	≡°a.
Mn.	29.93	29.90	55.6	57.3	65.0	51.0	52.8	83.3	54.2	82.4	NW	8.2	SW	6.6	.47	.67	4.0 s., w	3.2 s., w	

EASTPORT, ME.

[φ=40° 54′ N; λ=66° 59′ W; barometer above sea, 76 feet; gravity correction applied 0.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.81	29.90	58.0	63.5	65	54	58.0	100	60.5	84	NW	10	NW	6	.....	.....	10 s., nw	6 s., w	≡ᵒa.
2	30.03	30.04	62.0	57.0	67	54	58.0	79	56.0	94	0	0	S	4	.....	.....	10 s. cu., 0	3 ci., w	≡ᵒa.
3	30.07	30.02	59.0	54.3	67	53	58.0	94	53.3	94	SW	2	S	8	.....	.....	D. fog, sw	0	
4	29.99	29.88	56.0	58.3	68	52	56.0	100	57.3	94	S	9	S	11	.....	.....	8 s. cu., sw	0	≡ᵒa.
5	29.87	29.81	60.0	58.5	67	54	59.0	94	58.0	97	SW	6	S	1	0.07	0.05	8 s. cu., w	10 s., w	⌐⨯≡ᵒ
6	29.83	29.86	52.0	57.0	62	50	49.0	81	53.0	77	N	13	NW	8	.35	.....	0	9 a. cu., w	
7	29.97	30.06	51.3	48.5	60	46	48.3	81	47.0	90	NW	10	NW	9	.....	.12	0	0	
8	30.16	30.24	46.0	53.0	62	43	43.0	79	50.0	81	NW	14	N	1	.....	.01	0	0	
9	30.28	30.15	50.0	55.0	67	46	46.0	74	52.5	85	N	5	SW	4	.....	.....	0	0	⌐
10	30.17	30.02	55.0	56.0	61	49	51.0	76	54.5	91	SW	2	S	10	.....	.....	Lt. fog, sw	10 s. (?)	
11	29.89	29.94	60.0	66.5	80	54	59.5	97	63.0	82	S	1	NW	12	.....	.....	D. fog, s	0	
12	30.11	30.09	60.0	66.0	78	54	55.0	73	60.0	71	W	6	W	8	.....	.....	2 s. cu., w	0	≡ᵒa.
13	30.05	29.85	62.0	62.0	75	57	58.0	79	59.0	84	SW	2	SW	12	.....	.....	Lt. fog, sw	0	
14	29.85	29.97	72.0	74.0	85	63	67.0	77	66.0	65	SW	7	W	3	.....	.....	Lt. haze	0	
15	30.06	30.07	58.0	56.0	64	55	56.0	88	55.5	97	E	12	E	2	.....	.....	0	D. fog, e	
16	30.05	30.03	55.0	57.0	61	55	55.0	100	57.0	100	0	0	S	12	.....	.....	D. fog, 0	D. fog, s	
17	29.76	29.73	63.3	61.0	70	57	63.3	100	61.0	100	SW	30	S	20	.18	.....	10 s., sw	D. fog, s	≡ᵒa.
18	29.72	30.04	60.3	56.0	67	50	59.3	94	52.5	79	S	5	W	10	.28	T.	10 n., s	7 s., w. (?)	≡ᵒa.
19	30.27	30.32	48.5	50.0	60	46	46.5	86	47.5	83	NW	3	SW	8	.....	.....	5 ci. s., sw	8 s. (?)	
20	30.38	30.29	50.5	53.0	60	48	49.5	93	50.5	84	SW	4	0	0	.....	.....	5 ci. s., w	0	
21	30.17	29.90	52.0	52.4	56	49	50.0	87	51.4	94	NE	8	N	1	.....	T.	10 s. cu., ne	0	⌒
22	29.94	29.96	55.0	59.0	69	48	51.0	76	51.0	57	NW	10	W	6	.....	.....	0	0	⌒
23	29.97	29.79	59.0	56.0	69	50	57.0	89	54.5	91	SW	8	S	9	.....	.....	Lt. fog, sw	0	
24	29.63	29.61	59.0	54.0	62	47	58.0	94	50.0	76	S	8	W	9	.....	.23	10 s. cu., s	0	≡ᵒa.
25	29.84	29.88	46.8	52.0	62	42	43.8	79	48.0	75	W	7	SW	8	.....	.....	0	0	
26	30.07	30.04	48.8	54.0	59	45	44.8	73	52.5	91	0	0	SW	12	.....	.....	Lt. haze	0	
27	29.98	29.82	58.0	57.0	62	53	57.0	94	56.0	94	S	12	S	21	.....	.....	10 s. cu., s	10 s. cu., sw	⌐⨯≡ᵒs.
28	29.72	29.85	55.0	49.0	62	44	54.5	97	43.0	61	W	5	NW	17	.33	.....	10 s. cu., sw	0	⌐⨯
29	30.00	30.05	40.3	42.4	50	39	35.3	60	37.4	62	NW	15	NW	12	.....	.....	0	0	⌐
30	30.12	30.04	43.0	52.0	60	38	39.0	70	48.0	75	W	6	SW	9	.....	.....	0	2 s., w	⌐
Mn	29.99	29.98	55.2	56.3	65.2	49.8	52.9	85.5	53.5	83.6	SW	7.3	S	8.4	1.21	.41	3.6 s. cu, sw	2.2 s., w	

OCTOBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.97	29.86	53.0	57.0	71	50	50.5	84	54.5	85	SW	3	SW	5	.....	T.	8 ci. s., w	3 s., w	≡ᵒa.
2	29.93	30.16	59.0	54.5	62	48	56.5	86	49.0	68	NW	8	W	3	0.02	.....	9 s., w	0	
3	30.30	30.30	51.0	51.0	58	46	44.0	56	44.0	56	N	12	E	3	.....	.....	0	0	
4	30.30	30.16	49.0	52.0	53	47	43.0	61	48.5	78	SE	11	S	18	.....	.....	10 s., sw	10 s. cu., w	
5	30.00	29.92	55.5	57.2	58	53	54.5	94	56.7	97	S	10	SW	3	.26	0.21	10 n., sw	10 s., sw	≡ᵒ
6	30.08	30.20	52.3	53.0	62	49	49.3	81	49.5	78	NW	8	SW	1	.....	.....	2 ci. s., w	0	≡ᵒa.
7	30.29	30.26	51.0	49.5	53	48	48.0	81	46.0	76	E	14	E	9	.....	.....	2 ci. s., nw	2 ci. s., 0	
8	30.17	30.10	47.2	53.0	54	46	45.0	86	50.0	81	SE	17	SE	11	.....	.....	5 cu., se	9 s. cu., se	
9	30.07	30.10	52.7	52.5	54	51	49.7	81	47.5	69	E	18	E	21	.....	.....	10 s. cu., se	9 s. cu., e	
10	30.17	30.18	49.0	52.0	52	49	46.5	83	48.0	75	NE	20	NE	23	.....	.....	10 s. cu., e	10 s. (?)	
11	30.09	29.97	48.0	50.3	52	48	47.0	93	49.5	94	NE	26	NE	26	T.	.04	10 n., ne	10 s. (?)	≡ᵒ
12	29.79	29.77	50.3	50.3	53	50	50.3	100	50.3	100	NE	24	NE	25	.13	.22	10 n., ne	10 n. (?)	≡ᵒ
13	29.80	29.78	47.0	48.5	51	47	47.0	100	47.0	90	N	20	N	18	.11	T.	10 n., n	10 n., n. (?)	≡ᵒa.
14	29.68	29.73	45.0	49.2	56	43	43.0	86	45.2	78	NW	8	N	12	.....	.....	10 s. cu., nw	0	
15	29.92	29.98	41.0	47.0	53	37	38.5	80	43.5	75	NW	19	W	8	.....	.....	0	0	
16	30.06	30.01	49.6	52.0	54	44	47.6	87	50.0	87	SW	8	S	15	.....	.....	10 s., sw	10 s. (?)	
17	29.93	29.77	56.0	56.0	58	53	56.0	100	55.5	97	S	13	S	12	.02	.05	10 s., s	10 s. (?)	⌐⨯≡ᵒ
18	29.16	29.47	58.0	43.0	61	38	58.0	100	40.5	81	SW	20	NW	21	1.15	.03	10 s., sw	10 s., nw. (?)	≡ᵒa.
19	29.95	29.96	34.0	44.0	46	32	30.0	62	40.0	71	W	12	SW	4	.....	.....	0	10 s. (?)	⌐²
20	29.76	29.68	53.0	52.6	58	46	51.0	87	51.0	90	S	30	SW	3	.02	.....	10 s., sw	0	≡ᵒa.
21	29.87	30.10	45.3	37.5	50	35	41.3	71	33.5	66	NW	12	W	11	.....	.....	3 s. cu., sw	0	
22	30.29	30.12	35.0	47.0	49	33	31.0	63	43.0	72	SW	7	S	21	.....	.....	0	0	
23	29.95	29.83	52.0	48.5	57	48	50.5	90	47.5	93	S	24	N	10	.....	.41	10 s. cu., s	10 n. (?)	
24	29.83	29.88	41.0	37.5	48	35	39.0	84	33.5	66	NW	15	NW	13	.01	.....	5 s. cu., nw	0	
25	29.86	29.64	35.5	38.6	41	32	32.5	72	34.6	66	N	9	NW	7	.....	.....	5 ci., s., sw	0	
26	29.47	29.43	37.3	32.6	43	30	34.3	74	31.6	90	W	7	W	24	.....	.05	10 s. cu., nw	10 s., w	*
27	29.59	29.81	32.0	31.0	36	29	30.5	84	29.0	78	NW	20	W	14	.10	.....	6 s. cu., nw	0	*
28	29.84	29.85	30.0	31.0	36	29	28.5	83	28.5	78	W	12	NW	12	.....	.....	10 s., cu., w	10 s. cu., nw	
29	29.89	29.67	28.0	43.0	44	27	25.0	66	40.0	77	W	15	SW	11	.....	.....	2 ci. s., w	9 s., w	
30	29.83	29.98	43.5	45.5	49	41	39.5	70	42.0	74	NW	12	SW	3	.....	.....	2 cu., nw	0	
31	30.04	29.98	45.5	50.0	56	44	45.0	96	47.5	83	W	2	SW	8	.....	.....	D. fog, w	3 ci., w	⌒
Mn	29.93	29.92	46.0	47.3	52.5	42.2	43.6	81.9	44.4	79.3	NW	14.1	SW	12.1	1.82	1.01	6.4 s. cu., sw	5.3 s., w	

EASTPORT, ME.

[φ=40° 54′ N; λ=66° 59′ W; barometer above sea, 76 feet; gravity correction applied 0.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.82	29.83	51.0	48.0	57	41	48.5	84	42.0	60	W	7	NW	12	T.	.....	Lt. fog, w	2 s., nw	
2	29.95	29.96	40.0	43.0	48	39	35.0	60	38.5	66	NW	11	N	9	.....	.....	0	5 ci., w	☿
3	29.97	29.84	45.0	48.0	57	39	41.0	71	45.0	79	W	2	SW	6	.....	.....	Lt. smoke, w	0	
4	29.77	29.71	47.3	50.5	64	43	44.3	79	46.5	74	W	3	S	3	.....	.....	Lt. haze	0	
5	29.48	29.36	51.0	43.5	57	38	50.5	97	41.5	85	S	9	NW	14	....	0.29	10 s., s	10 s. (?)	≡ᵒa.
6	29.67	29.79	37.0	33.5	39	31	34.5	78	32.5	90	N	15	NE	23	....	.09	10 s. cu., n	10 n. (?)	✶≡ᵒ
7	29.47	29.53	36.0	29.0	36	27	36.0	100	28.0	88	NE	42	NW	27	0.25	.17	10 n., ne	10 n. (?)	✶≡ᵒa.
8	29.74	29.95	32.0	38.0	43	28	29.0	69	34.0	66	W	13	W	16	T.	.....	0	0	
9	30.06	29.91	35.0	47.0	50	34	33.5	86	44.0	79	SW	8	SW	9	.....	.....	3 ci. s., w	0	≡ᵒa.
10	29.85	29.74	49.0	50.0	54	45	47.5	90	47.5	83	SW	7	SW	12	.....	.....	Lt. fog, sw	0	
11	29.95	29.91	42.0	48.0	50	40	39.0	77	46.0	86	NW	3	NE	17	.....	.....	6 ci. s., w	2 s. (?)	∞ᵒa.
12	29.61	29.82	42.0	41.0	47	38	42.0	100	39.5	88	NW	14	W	8	.58	.18	10 n., nw	0	≡ᵒa.
13	29.90	29.85	44.0	45.0	50	36	42.0	85	43.0	86	SE	10	SW	5	.....	.....	10 s. cu., sw	10 s. (?)	
14	29.97	29.84	41.0	39.0	43	37	39.0	84	36.0	75	NW	4	W	8	.....	.....	10 s. nw	10 s. (?)	
15	29.84	29.96	32.0	31.0	40	29	28.0	59	28.0	68	NW	12	W	12	....	T.	5 s. cu., w	5 s. (?)	✶
16	30.10	30.12	26.3	29.0	29	26	23.3	63	27.0	77	NW	12	NE	12	.....	.....	10 s. cu., w	10 s. (?)	✶
17	29.87	29.69	38.0	51.0	51	29	37.5	96	51.0	100	E	20	SW	10	.07	.25	10 n., e	10 n. (?)	≡ᵒ
18	29.87	29.82	37.0	33.0	46	31	37.0	100	33.0	100	NW	9	N	12	.44	.14	10 n., nw	10 n. (?)	✶≡ᵒ
19	30.02	30.25	26.0	28.5	31	24	23.5	69	26.0	72	W	18	W	11	.07	.....	0	0	
20	30.44	30.58	22.8	26.0	28	21	21.0	72	24.0	75	N	10	N	8	.....	.....	8 s. cu., n	0	
21	30.64	30.52	25.0	27.5	31	22	22.0	62	25.0	70	N	3	W	5	.....	.....	0	0	☿
22	30.38	30.17	34.0	37.0	39	26	31.0	71	35.0	83	S	5	SE	12	.....	T.	10 s. cu., sw	10 s. (?)	△
23	29.93	29.67	40.0	37.5	40	35	39.5	96	36.5	91	E	6	N	6	.02	T.	10 n., e	10 s. (?)	
24	29.39	29.30	42.7	35.5	43	28	42.7	100	34.5	91	SE	19	W	14	.01	.32	10 n., se	10 s. (?)	≡ᵒa.
25	29.58	29.76	21.8	19.0	28	17	19.3	65	17.2	72	W	18	W	14	T.	.....	2 s. cu., w	0	
26	29.95	29.90	17.0	21.0	24	16	14.0	50	19.5	78	W	10	W	8	.....	.....	0	0	
27	30.00	29.90	13.0	20.0	20	13	12.0	80	18.5	77	N	12	N	18	.....	.....	8 s. cu., n	10 s. (?)	
28	29.54	29.49	24.8	24.6	28	18	23.0	73	22.6	78	N	24	NW	14	.04	.07	10 n., n	10 s., nw	✶
29	29.67	29.50	23.0	31.0	34	23	21.5	79	31.0	100	NW	7	NE	20	....	.26	10 s. cu., sw	10 n. (?)	✶≡ᵒp.
30	29.71	29.84	22.0	26.5	29	22	21.0	86	25.5	88	NW	6	N	13	.30	.04	10 s. cu., w	10 s. cu., w	✶
Mn	29.87	29.85	34.6	36.1	41.2	29.9	32.6	79.4	33.9	80.8	NW	11.3	W	11.9	1.78	1.81	6.1 s. cu., w	5.5 s., w., nw	

DECEMBER, 1903.

1	30.14	30.27	18.4	23.7	26	18	17.0	77	21.7	73	NW	5	NW	3	.....	.....	8 s. cu., ne	0	
2	30.28	30.17	25.3	29.0	30	21	24.3	87	28.0	88	NE	12	NE	26	....	0.05	10 s., sw	10 s. (?)	✶
3	30.04	29.98	29.0	33.0	34	27	28.5	94	32.0	90	NE	24	NE	20	0.05	.02	10 s., ne	10 s. (?)	✶
4	29.85	29.85	25.0	28.5	31	23	25.0	100	22.0	80	N	16	NW	16	.14	T.	10 n., n	10 s., nw	✶≡ᵒa.
5	29.93	29.87	20.0	29.5	31	18	18.0	70	28.5	88	W	7	W	4	....	T.	10 s. cu., nw	10 n. (?)	✶
6	29.82	29.78	25.4	27.0	31	24	23.0	68	25.5	82	W	10	NW	15	.01	.....	Lt. haze	10 s., w (?)	
7	29.83	29.80	24.4	35.5	36	22	23.0	80	33.5	82	W	5	SE	7	.....	.....	10 s. cu., w	10 s. (?)	✶
8	29.88	30.00	26.0	32.0	36	26	25.5	94	30.0	79	NW	9	NW	4	.10	.....	10 s., nw	0	✶
9	30.04	29.82	29.0	34.0	38	28	28.5	94	33.0	90	NE	18	NE	30	.01	T.	10 n., ne	10 s. (?)	✶≡ᵒa.
10	28.98	29.40	46.0	33.0	49	30	46.0	100	30.5	75	SW	32	SW	13	.12	T.	10 s. cu., sw	0	
11	29.64	29.92	29.0	26.0	30	24	27.0	77	23.5	69	W	7	NW	5	.....	.....	10 s. cu., w	0	
12	30.05	30.22	28.2	30.5	35	25	25.2	76	28.5	78	W	13	0	0	.....	.....	0	10 s. (?)	
13	29.82	29.71	46.0	30.0	51	23	45.5	96	28.5	83	S	32	W	23	T.	.66	10 n., s	0	☿≡ᵒa.
14	30.01	30.01	15.8	15.5	23	9	14.2	72	13.5	64	W	24	SW	22	.....	.....	0	0	
15	30.08	29.85	2.4	11.4	17	2	1.6	76	10.0	70	W	8	SW	10	.....	.....	0	0	
16	29.72	29.57	11.4	16.0	26	8	9.8	66	14.8	79	W	12	NW	15	....	T.	0	0	✶
17	29.62	29.77	10.0	7.4	16	5	8.4	65	6.0	66	W	17	W	18	.....	.....	0	0	
18	29.96	30.14	− 1.0	5.6	7	− 1	− 1.8	71	4.2	64	NW	24	NW	30	.....	.....	0	0	
19	30.28	30.25	3.0	20.0	23	2	1.8	65	18.0	70	W	20	W	12	.....	.....	0	0	
20	30.08	29.60	28.0	44.0	49	18	26.5	82	43.5	96	W	8	SE	30	....	.37	8 s., w	10 n. (?)	≡ᵒp.
21	29.06	29.52	43.5	29.0	49	27	42.5	93	26.5	72	SW	16	W	20	.43	.....	10 s. cu., sw	0	
22	29.41	29.54	35.5	24.0	38	14	35.0	95	22.0	73	SW	6	NW	29	.03	.01	10 n., sw	0	≡ᵒa.
23	29.92	29.87	12.0	26.5	28	11	10.0	59	25.0	82	W	10	SW	12	....	T.	0	10 s. (?)	✶
24	29.93	29.70	32.0	40.3	41	28	29.5	74	39.3	92	W	12	SW	17	....	.05	4 s., w	10 n. (?)	
25	29.42	29.42	36.0	31.0	40	27	34.0	82	30.0	89	SW	10	NW	10	.06	.04	0	10 s. (?)	✶
26	29.43	29.43	20.0	12.0	27	5	18.5	77	11.0	80	NW	8	NW	13	....	.01	10 s. cu., nw	10 n. (?)	✶
27	29.70	29.53	− 5.2	15.0	17	− 5	− 5.8	75	14.4	89	NW	12	NE	10	.01	.03	0	10 s. (?)	✶
28	29.55	29.96	5.8	5.0	13	0	5.2	84	4.0	73	NW	12	W	18	.03	.....	5 s., nw	0	
29	30.23	30.15	− 5.6	16.0	24	− 6	− 6.2	74	15.0	82	NW	10	SE	10	.....	.....	0	10 s., sw	✶☿
30	29.65	29.67	24.8	14.0	30	10	24.8	100	13.0	81	NE	26	NW	17	1.00	.03	10 n., ne	10 s., nw	✶≡ᵒa.
31	29.79	29.75	7.0	13.0	15	7	6.2	80	12.0	80	NW	9	W	9	.....	.....	10 s., n	0	
Mn	29.81	29.82	20.9	23.6	30.4	15.2	19.7	80.7	22.2	79.3	W	14.6	NW	15.1	1.99	1.27	5.6 s. cu., s. ne. nw	5.2 s., nw	

NEW YORK, N. Y.

[φ=40° 43′ N; λ=74° 00′ W; barometer above sea, 314 feet; gravity correction applied—.01.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.93	29.90	27.4	36.0	40	24	24.9	70	31.0	55	SW	8	W	15	....	.....	0	0	
2	29.92	29.77	32.0	43.0	44	30	30.0	79	39.0	70	W	11	E	8	....	0.02	0	10 n., e	≡p.
3	29.26	29.29	39.0	38.0	41	37	38.2	94	37.0	91	NW	10	SW	15	1.03	.....	10 s., nw	5 a. cu., sw	≡
4	29.38	29.30	36.1	36.0	40	34	34.3	84	35.0	91	SW	12	NW	5	....	T.	5 a. s., sw	10 s., nw	*
5	29.47	29.48	33.8	40.5	41	33	31.4	77	37.0	72	W	16	SW	10	....	.....	3 a. s., sw	10 s., sw	
6	29.27	29.26	35.0	29.0	38	27	34.3	93	26.0	66	SW	5	NW	26	.04	.04	10 n., sw	0	*≡a.
7	29.29	28.98	30.0	34.0	42	25	27.0	67	32.0	81	SW	12	SW	14	....	.02	Few s. cu., sw	10 s., sw	*
8	28.92	29.13	28.1	24.0	34	19	27.0	87	20.0	47	W	22	NW	36	.01	.....	7 s. cu., w	0	*
9	29.37	29.40	14.8	20.5	21	14	12.2	53	18.0	62	W	20	W	20	....	.....	3 s. cu., w	0	
10	29.65	29.84	17.9	21.0	24	18	15.7	65	18.0	56	W	26	W	12	....	.....	0	0	
11	29.81	29.05	24.0	42.5	46	19	21.0	60	41.5	92	SE	6	SW	16	....	.85	10 s., se	10 s., sw	*≡p.
12	29.43	29.65	22.5	13.0	36	8	20.0	66	11.0	61	W	48	W	30	....	.....	0	0	
13	29.83	29.93	11.0	16.0	20	8	9.0	58	13.0	48	W	22	W	20	....	.....	0	0	
14	29.99	29.83	14.7	26.0	27	13	12.9	67	23.0	63	NW	13	SW	8	....	.....	4 s. cu., nw	0	
15	29.57	29.56	26.0	33.5	34	25	24.4	80	30.0	66	SW	10	W	10	....	.....	10 s. cu., sw	5 s. cu., w	⊽
16	29.67	29.62	35.5	40.0	41	33	32.5	72	35.0	60	W	21	SW	10	....	.....	10 s. cu., w	8 a. s., sw	
17	29.36	29.26	36.8	39.5	45	36	34.0	75	36.0	71	SW	13	W	24	....	.....	7 a. s., w	0	
18	29.58	29.85	23.0	18.0	38	15	20.5	66	15.0	52	NW	34	NW	30	....	.01	Few cu., nw	Few a. s., nw	*
19	30.16	30.23	10.6	20.0	20	11	8.4	53	17.0	55	NW	16	E	5	....	.....	Few a. s., nw	4 a. s., nw	
20	30.21	29.98	20.0	34.5	36	19	18.0	70	32.0	76	E	10	E	20	....	T.	1 s. cu., e	10 s., e	≡a.
21	29.21	29.38	48.0	40.0	48	36	47.5	96	36.0	68	SE	20	NW	20	.58	.01	10 n., se	2 cu., nw	≡a.
22	29.59	29.65	36.0	37.0	40	34	33.8	80	32.0	57	SW	11	W	12	....	.....	5 a. s., sw	10 s. cu., w	≡a.
23	29.68	29.91	30.6	24.0	39	19	28.5	77	20.0	47	SW	14	NW	42	....	T.	9 s. cu., sw	0	*≡a.
24	30.10	29.98	15.5	22.9	24	15	14.0	74	20.5	67	NE	10	NE	25	....	T.	8 a. s., w	10 n., ne	*≡a.
25	29.81	29.90	23.2	27.0	27	22	22.2	86	28.0	88	NE	22	NE	12	.30	.20	10 n., ne	10 s., ne	*
26	30.04	30.11	27.0	29.0	31	24	26.0	88	27.0	77	E	4	NE	4	T.	.....	10 s., e	0	*≡a.
27	30.05	29.90	31.0	38.0	39	26	30.0	89	36.0	83	S	10	SW	6	....	.....	10 s., s	10 s., sw	≡a.
28	29.68	29.65	42.2	48.0	51	39	42.2	100	44.5	76	SW	7	NW	10	.23	.02	10 n., sw	0	≡a.
29	29.62	29.40	39.5	44.0	49	38	38.3	90	43.0	93	NE	4	SE	15	....	.04	3 a. s., w	10 n., se	≡
30	29.08	29.37	42.5	30.0	47	28	42.5	100	24.0	36	SW	13	W	38	.02	.02	10 n., sw	0	≡a.
31	29.61	29.75	28.0	37.0	38	28	24.5	59	30.0	40	NW	36	W	14	....	.....	Few s. cu., nw	0	
Mn.	29.63	29.62	28.4	31.7	36.8	24.4	26.6	76.6	28.6	66.7	SW	15.7	W	17.4	2.21	1.23	5.3 s. cu., sw	4.3 s., sw	

FEBRUARY, 1903.

1	29.75	29.65	38.0	39.0	40	34	33.0	58	37.5	87	S	3	SW	4	....	T.	10 s., s	10 s., sw	≡
2	29.66	29.56	39.3	41.0	46	36	39.0	98	40.0	92	SW	3	E	2	....	T.	5 s., sw	0	≡a.
3	29.69	29.66	40.0	46.0	49	40	36.0	68	40.0	58	NW	20	E	5	....	.....	2 ci. s., sw	10 s., e	⊏≡a.
4	29.12	28.82	41.8	46.0	54	38	41.3	96	45.0	93	E	11	NW	20	.43	.25	10 n., e	10 s., nw	*
5	29.14	29.38	30.2	31.0	38	29	28.2	78	25.0	37	W	45	NW	53	....	T.	10 s., w	0	
6	29.76	29.82	32.2	36.0	40	32	28.0	57	32.0	64	W	15	NW	12	....	.....	Few s. cu.; w	0	⊽
7	29.94	29.96	30.0	33.0	35	30	26.8	65	27.0	41	W	10	N	7	....	.....	3 ci. s., sw	8 ci. s., w	△
8	29.71	29.25	33.0	38.0	44	31	29.9	69	36.0	83	E	12	W	35	.01	.47	10 s., e	8 ci. s., w	*
9	29.51	29.76	32.0	34.0	36	32	26.8	47	29.0	52	NW	48	NW	26	....	T.	8 s. cu., w	Few s. cu., nw	≡a.
10	29.93	29.86	30.0	40.0	43	30	27.2	69	35.0	60	NW	18	W	10	....	.....	4 s. cu., nw	0	
11	29.71	29.08	38.2	47.0	49	36	35.8	80	45.0	86	S	6	SE	25	....	.34	10 s., s	10 s., se	
12	29.41	29.64	42.8	48.5	52	42	38.6	68	42.0	57	W	36	W	15	.06	.....	0	0	
13	29.65	29.77	41.5	46.0	57	41	38.6	77	40.5	61	SW	9	N	15	....	.....	Few s., sw	10 s., n	
14	29.94	29.98	34.0	36.0	42	33	29.0	52	29.0	38	NW	24	NW	15	....	.....	8 s. cu., sw	0	
15	29.87	29.55	30.0	29.5	34	29	26.0	56	28.0	83	N	4	NE	14	T.	.12	10 n., n	10 n., ne	*△
16	29.21	29.12	32.5	29.5	34	28	31.0	84	28.5	88	NE	Br.	N	15	.40	.15	10 n., ne	10 n., n	*≡
17	28.83	29.50	20.0	11.0	29	9	19.0	85	8.0	37	NW	22	NW	30	.88	.02	10 n., nw	0	*
18	29.74	29.68	6.2	16.0	18	6	5.0	69	14.2	69	W	21	W	17	....	.....	10 s., w	0	*
19	30.15	30.14	2.2	13.0	16	2	0.8	58	11.0	61	W	23	W	20	T.	.....	0	0	
20	30.18	30.15	12.2	23.5	24	9	11.0	75	21.0	66	W	5	W	10	....	T.	10 s., w	0	*
21	30.07	29.81	22.0	36.3	38	20	21.0	86	33.0	70	N	2	W	9	....	.....	0	7 ci. s., w	≡a.
22	29.90	30.15	26.2	29.0	33	24	23.0	61	25.0	55	NW	20	W	12	....	.....	3 a. s., w	0	
23	30.16	29.97	22.5	37.0	40	22	21.0	78	33.9	73	SW	12	SW	15	....	.....	0	0	
24	29.93	29.80	32.0	38.5	44	31	30.0	79	34.0	62	N	5	NW	15	....	.....	0	10 s., nw	∞° a.
25	29.97	30.09	26.0	34.0	38	25	23.0	63	30.0	62	W	20	W	10	....	.....	0	0	
26	30.16	30.09	28.0	40.0	44	27	25.0	65	35.0	60	SW	7	W	12	....	.....	0	0	
27	30.06	29.83	37.0	46.0	52	35	33.0	65	44.0	86	SW	7	S	17	....	.01	2 ci. s., sw	10 n., s	≡a.
28	29.30	29.29	57.0	54.2	62	47	56.0	94	46.0	52	S	36	W	32	.49	.20	10 n., s	0	
Mn.	29.73	29.69	30.6	35.7	40.4	28.5	28.0	71.4	32.0	65.5	W	16.4	W	16.9	2.27	1.56	5.2 s., sw	4.0 s., w., nw	

NEW YORK, N. Y.

[φ=40° 43′ N; λ=74° 00′ W; barometer above sea, 314 feet; gravity correction applied −01.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.58	29.91	44.0	32.0	51	29	40.0	71	28.0	59	W	29	NW	20	....	....	10 s. cu., w	3 s. cu., nw	
2	30.07	30.09	29.0	39.0	41	28	26.0	66	33.5	55	SW	7	SW	7	....	....	0	0	
3	30.24	30.20	35.3	41.0	46	34	32.0	69	37.5	72	E	17	SE	8	....	....	0	0	∞°a.
4	30.12	29.99	32.2	45.0	51	32	31.8	96	41.0	71	E	2	S	11	....	....	0	5 a. cu., s	— ≡a.
5	29.90	29.73	40.0	50.0	51	39	38.0	88	45.0	67	E	6	SW	6	....	T.	10 s., e., 0	10 s., sw	≡a.
6	29.99	30.10	40.0	46.0	51	38	35.5	64	41.0	65	NW	17	E	4	....	....	0	0	
7	30.18	30.06	39.6	43.5	47	38	35.0	63	42.5	92	E	14	E	20	....	0.04	4 ci. cu., e	10 n., e	≡—
8	29.94	29.80	51.4	54.0	56	46	50.6	95	53.5	97	S	12	S	20	0.33	.39	10 n., s	10 n., s	≡°
9	29.96	30.08	50.0	45.0	57	44	48.0	87	43.0	86	NE	20	NE	15	.53	.31	10 n., ne	10 s., ne	≡°
10	30.14	30.06	44.1	44.5	49	43	41.6	81	42.5	86	NE	8	SE	5	....	....	10 s., ne	9 s., se	≡°a.
11	29.91	29.93	44.5	50.0	54	41	43.5	93	47.0	80	S	8	N	20	.08	.10	10 n., s	7 s. cu., n	≡°a.
12	29.99	29.89	41.0	51.0	53	41	38.5	80	46.5	71	N	6	SW	6	....	....	6 ci. cu., n	0	≡°a.
13	29.91	29.85	41.3	52.5	60	39	39.3	84	47.0	66	NW	5	S	15	....	....	0	0	— ≡°a.
14	29.89	29.83	45.1	59.0	67	45	41.6	74	50.0	52	NW	4	S	16	....	....	1 s. cu., 0	4 s., s	— ≡°a.
15	29.91	30.00	49.4	46.0	56	42	43.9	64	42.0	72	N	14	E	15	....	....	8 a. s., w	0	
16	30.11	30.05	40.1	41.0	43	38	37.1	75	40.0	92	E	14	E	6	....	T.	10 s., e	10 s., e	≡°p.
17	29.89	29.87	41.9	54.0	56	39	40.4	88	52.0	88	NE	2	SW	10	....	....	10 s., ne	0	≡°a.
18	30.03	30.12	50.5	47.0	57	43	47.2	79	44.0	79	E	10	E	8	....	....	0	0	≡°a.
19	30.10	29.97	40.0	52.0	55	40	39.7	98	50.0	87	SW	4	S	12	....	....	D. fog, sw	Few s., s	
20	29.91	29.73	51.9	56.5	65	51	50.9	94	55.0	91	S	9	S	22	T.	....	D. fog, s	0	
21	29.71	29.60	57.0	59.0	66	51	55.7	92	58.0	94	S	12	S	16	.01	.19	10 n., s	5 s., s	≡a.
22	29.82	29.83	45.5	49.5	51	45	43.0	82	48.0	90	NE	15	NE	15	.39	.04	10 n., sw	10 n., ne	≡a.
23	29.68	29.56	46.4	59.0	60	45	45.9	96	57.6	92	E	22	S	17	.46	.29	10 n., e	10 s., s	≡a.
24	29.66	29.57	55.2	55.7	65	51	53.2	88	53.0	84	W	2	NW	17	T.	.01	0	10 s. cu., nw	≡a.
25	29.63	29.64	42.0	43.0	51	40	39.0	77	39.0	70	W	11	W	26	....	....	0	9 s. cu., w	
26	29.81	29.78	39.0	53.0	57	38	35.8	73	46.0	58	W	24	W	12	....	....	0	0	
27	29.75	29.67	44.6	60.5	65	44	41.1	74	53.0	60	SW	10	SW	15	....	....	0	0	
28	29.68	29.79	52.0	44.5	62	40	47.4	71	39.0	60	E	15	NW	30	....	.01	1 a. s., sw	8 s. cu., nw	≡°a.
29	30.15	30.15	35.2	40.0	45	35	31.2	63	35.0	60	N	20	SE	13	....	....	1 ci. s., n	3 a. s., se	
30	29.96	29.38	39.0	41.0	44	37	34.7	65	40.5	96	E	15	NE	36	....	.23	10 s., e	10 n., ne	
31	29.16	29.38	42.0	53.0	57	41	41.0	92	50.0	81	NW	16	W	16	.24	T.	10 n., nw	0	
Mn.	29.90	29.86	43.5	48.6	54.5	40.5	40.9	79.9	45.2	76.5	E	12.0	S	14.8	2.04	1.61	4.9 n., e	4.6 s., s	

APRIL, 1903.

1	29.60	29.69	46.0	54.0	58	45	40.5	61	47.0	59	NW	22	NW	8	....	....	0	0	
2	29.81	29.55	47.3	51.5	55	44	43.0	70	49.0	84	E	12	SE	20	....	T.	8 a. cu., w	10 s., se	
3	29.36	29.08	59.0	59.5	72	51	54.1	73	54.0	70	S	18	S	20	0.05	....	10 s., s	2 ci. s., sw	
4	29.16	29.52	54.5	31.0	64	29	53.6	95	28.0	68	W	23	NW	44	.38	0.13	10 n., w	Few s. cu., nw	✳ △ ≡°a.
5	29.88	30.02	28.5	41.0	43	28	23.0	38	32.0	31	NW	40	NW	15	....	....	0	0	
6	30.11	29.96	40.0	44.0	47	37	33.7	50	42.0	85	E	8	SE	10	....	....	1 ci. s., w	10 a. s., w	—
7	29.75	29.59	50.0	57.0	58	45	48.3	89	55.0	88	S	14	S	13	.13	.19	10 n., s	10 s., s	≡a.
8	29.54	29.35	56.0	48.5	56	47	54.8	93	46.5	86	E	6	N	34	.03	.40	10 n., e	10 s., n	≡a.
9	29.68	29.52	48.0	51.0	63	45	44.2	74	50.0	94	NW	13	S	10	T.	.09	0	10 s., s	
10	29.62	29.75	49.0	55.0	60	48	43.2	62	46.0	49	NW	23	NW	17	....	....	8 s. cu., nw	0	
11	29.83	29.70	46.4	54.0	60	45	41.2	64	48.0	64	NW	8	S	7	....	....	1 ci. s., w	8 s., s	
12	29.64	29.50	44.8	50.0	52	45	41.8	78	47.0	80	NE	11	SW	6	.19	T.	10 n., ne	0	≡°a.
13	29.53	29.51	48.0	48.0	56	45	40.6	51	42.0	60	NE	12	E	24	....	....	10 a. s., w	10 s., e	
14	29.38	29.30	43.0	44.0	45	42	42.2	94	42.0	85	E	34	NE	44	.13	.56	10 n., e	10 s., ne	≡a.
15	29.13	29.21	46.0	45.0	47	43	44.8	91	43.0	86	NE	38	NE	34	.49	.04	10 n., ne	10 n., ne	≡°
16	29.26	29.27	41.2	45.5	47	41	39.2	84	42.5	78	NE	18	N	17	.07	T.	10 s., n	10 s., n	≡°a.
17	29.31	29.36	47.5	50.5	57	45	41.2	58	42.0	46	N	26	NW	30	....	....	3 s. cu., nw	0	
18	29.38	29.40	46.5	51.0	61	44	39.1	49	40.0	34	NW	24	NE	26	....	....	0	0	
19	29.50	29.40	44.0	58.0	61	42	36.5	46	47.0	41	W	22	W	6	....	....	0	0	∞°p.
20	29.43	29.32	49.0	56.0	62	48	39.1	37	46.5	47	N	10	SW	4	....	....	1 a. cu., w	Few a. s., sw	∞°a,
21	29.37	29.40	46.5	48.0	60	43	38.0	42	41.0	54	N	12	NW	22	....	....	4 ci. s., sw	0	∞°a.
22	29.44	29.49	41.0	51.5	52	39	37.0	69	43.5	50	N	15	NW	5	....	....	7 s. cu., w	10 s., nw	⊕
23	29.56	29.57	47.7	51.0	57	45	42.8	67	45.0	62	NE	6	SW	6	....	....	3 ci. s., sw	10 s. cu., sw	∞°a.
24	29.65	29.61	48.5	53.5	61	48	40.2	46	46.0	56	NW	17	SW	6	....	....	1 s. cu., nw	Few s., sw	∞°a.
25	29.65	29.68	53.5	54.0	60	51	46.2	57	48.0	64	NW	8	S	10	....	....	7 a. cu., sw	0	∞°a.
26	29.73	29.66	49.0	53.0	57	48	41.5	51	49.5	78	NE	20	E	6	....	....	0	2 a. s., e	∞°p.
27	29.78	29.80	49.5	60.0	68	48	44.2	65	50.0	48	N	18	E	6	....	....	0	0	∞°a.
28	29.93	29.80	53.8	68.0	76	50	45.1	49	60.0	62	N	11	SW	8	....	....	0	0	∞°a.
29	29.79	29.68	63.0	80.0	84	57	51.0	42	64.0	41	W	12	NW	6	....	....	Few a. cu., nw	Few a. s., w	∞°
30	29.68	29.41	63.2	70.0	85	62	57.1	69	58.0	48	N	4	S	26	....	....	0	Few s., s	∞°a.
Mn.	29.58	29.54	48.3	52.8	59.5	45.0	42.9	63.8	46.5	63.3	NW	16.8	NW	16.3	1.47	1.41	4.5 n., w	4.1 s., s., sw	

NEW YORK, N. Y.

[$\varphi = 40° 43'$ N; $\lambda = 74° 00'$ W; barometer above sea, 314 feet; gravity correction applied −0.1.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.77	30.01	44.0	48.0	68	43	37.0	49	38.0	35	NW	36	NW	19	.....	.....	3 s. cu., nw	0	
2	30.17	30.08	43.0	46.0	53	40	36.0	48	38.0	45	E	15	SE	12	.....	.....	0	0	
3	29.97	29.83	45.5	53.0	56	43	43.0	82	50.0	81	E	11	SE	6	.....	T.	10 s., e	10 n., se	
4	29.81	29.80	54.0	57.1	65	53	53.0	94	54.0	82	NW	12	E	4	0.14	.....	10 s. cu., nw	6 n. s., sw	∝°p.
5	29.88	29.78	55.7	60.9	66	53	48.7	60	54.0	63	NE	18	SW	6	.....	T.	3 n. cu., ne	6 n. cu., sw	
6	29.87	29.74	56.1	58.0	69	54	49.7	63	52.5	69	E	10	SE	8	.....	.....	Few s., e	Few s., se	
7	29.69	29.70	52.0	62.0	67	50	49.8	86	52.6	52	SW	5	NE	20	.....	0.01	7 n. cu., sw	0	
8	29.82	29.79	55.3	64.5	74	50	50.0	69	53.5	48	N	15	S	10	.....	.....	0	0	
9	29.87	29.88	61.0	61.6	77	53	52.8	57	54.9	65	NE	5	SE	5	.....	.....	0	0	∝°a.
10	29.97	29.93	54.6	61.1	70	51	51.1	79	51.0	49	E	11	S	6	.....	.....	0	0	∝°a.
11	30.00	29.98	57.0	59.0	68	53	49.0	55	54.0	72	E	10	SE	6	.....	.....	0	0	
12	30.03	30.03	57.0	61.0	69	54	53.5	80	55.1	69	E	7	E	5	.....	.....	0	0	
13	30.03	29.86	55.6	60.5	70	55	53.7	89	58.0	86	W	3	S	10	.....	.....	10 s., w	Few s., s	∝°a.
14	29.77	29.59	59.0	68.0	75	56	57.0	89	63.5	78	SW	7	S	15	.....	.....	2 n. cu., w	10 n. s., s	
15	29.61	29.63	61.8	71.9	78	59	58.0	80	65.0	69	W	12	S	5	.....	.....	6 ci. s., w	8 n. cu., s	
16	29.83	29.91	60.5	62.0	72	58	58.0	86	57.9	78	NE	11	SE	6	.....	.....	7 ci. s., ne	0	∝°a.
17	29.95	29.80	55.2	70.5	75	53	54.7	97	62.0	62	SW	3	SW	12	.....	.....	4 s., sw	0	≡°a ∝°p.
18	29.75	29.65	62.1	80.0	87	59	57.6	76	67.0	50	W	8	SW	6	.....	.....	0	Few s. cu., sw	∝°
19	29.66	29.57	70.2	81.9	88	67	62.2	64	67.0	45	NW	5	S	12	.....	.....	0	0	∝°
20	29.62	29.58	72.2	79.0	91	70	64.6	67	68.9	60	W	9	NW	15	.....	.09	2 ci. s., w	7 s. cu., w	⌐⌐ ∝°a.
21	29.72	29.60	71.9	75.9	86	69	61.2	54	61.0	41	W	6	S	20	.....	.....	1 ci. s., w	Few a. s., w	
22	29.55	29.51	68.0	79.9	85	67	61.0	67	64.0	41	W	10	W	17	T.	.08	10 s., w	2 s. cu., w	≡°a.
23	29.70	29.67	63.2	71.2	76	61	53.0	49	54.2	30	NW	12	NW	14	.....	.....	0	1 s., nw	
24	29.79	29.80	53.0	56.0	64	51	46.5	61	51.5	73	NE	20	E	8	T.	T.	10 s., ne	10 s., e	
25	29.90	29.96	57.2	59.3	67	53	52.2	71	54.5	73	E	10	S	7	.....	.....	0	Few ci. s., w	
26	30.03	30.00	59.0	60.6	66	53	55.5	80	56.0	75	SE	10	SE	8	.....	.....	5 ci. cu., se	10 s., se	
27	29.93	29.82	63.2	68.0	72	59	60.0	83	60.5	65	S	17	S	20	.....	.....	10 s., s	9 s. cu., s	
28	29.76	29.71	66.9	74.0	80	64	63.2	82	68.0	74	S	12	S	11	.....	.01	10 s., s	1 s., s	
29	29.85	29.77	67.3	68.0	76	65	62.1	74	63.5	78	NE	8	SE	4	.....	.....	7 ci. cu., ne	8 s., se	
30	29.74	29.76	62.5	62.1	67	58	56.5	69	57.5	76	NE	18	S	4	T.	T.	9 n. s., sw	3 ci. cu., w	
31	29.86	29.90	56.9	59.6	68	55	50.0	65	54.1	70	NE	22	SE	10	.....	.....	10 s., ne	4 s. cu., se	
Mn	29.84	29.79	58.7	64.5	72.4	55.8	53.6	71.8	56.8	63.0	NE.E	11.5	S	10.0	.14	.19	4.4 s., w	3.1 s., s	

JUNE, 1903.

1	29.98	29.90	60.0	62.8	69	55	58.5	65	54.9	60	E	10	S	8	.....	.....	1 a. s., s	3 s., s	
2	29.93	29.91	63.3	63.1	75	55	55.3	60	57.6	71	NE	14	S	9	.....	.....	0	Few a. s., s	∝°
3	29.84	29.70	61.3	79.5	83	56	55.3	68	68.0	55	W	8	NW	16	.....	.....	0	0	∝°a.
4	29.86	29.95	69.6	63.0	72	60	59.1	53	57.0	69	E	4	E	15	.....	.....	0	Dense smoke	Lt. smoke, s.
5	30.03	30.02	58.0	63.1	65	56	54.7	81	61.0	89	E	9	E	4	.....	.....	0	6 s. cu., e	Lt. smoke.
6	29.97	29.88	61.1	65.0	73	59	58.0	83	62.9	89	NE	4	SE	9	.....	.....	7 s., ne	10 s. cu., se	Lt. smoke, a ∝∝°p.
7	29.79	29.68	64.5	64.0	68	63	63.4	94	63.0	95	SE	9	SE	16	0.04	0.12	10 n., se	10 s. cu., se	≡°
8	29.58	29.55	64.7	65.0	68	64	63.7	95	64.0	95	S	15	SE	8	.06	.07	10 s. cu., s	10 n., se	⌐⌐ ≡°
9	29.59	29.63	64.8	71.0	77	62	63.8	95	69.0	90	SE	2	SE	5	.15	.....	10 s., se	2 s. cu., se	≡°
10	29.69	29.66	66.8	69.0	74	64	64.9	90	68.0	95	E	5	NW	6	.....	.06	5 s. cu., e	10 s. cu., nw	⌐⌐ ≡°
11	29.63	29.56	68.0	69.0	78	65	66.0	90	66.5	88	W	2	SE	10	.....	.....	7 a. s., s	10 s. cu., se	≡°a.
12	29.22	29.33	66.6	63.0	68	59	65.6	95	60.5	87	E	31	W	15	1.84	.09	10 n., e	10 s. cu., w	
13	29.37	29.45	56.9	62.7	68	56	54.7	87	57.2	71	W	5	SW	7	.01	.09	2 a. s., sw	8 s. cu., sw	⌐⌐
14	29.44	29.31	59.2	60.0	64	58	56.7	86	58.4	91	S	7	SE	7	T.	.29	10 s. cu., s	10 s. cu., s	⌐⌐
15	29.32	29.34	55.2	60.2	63	55	54.1	93	58.2	89	N	20	NW	23	.34	.06	10 n., n	10 n., nw	
16	29.46	29.55	60.0	62.5	68	57	53.8	67	58.5	79	NE	7	SE	5	.10	.....	10 s. cu., ne	10 s. cu., se	
17	29.58	29.60	57.5	60.0	64	54	52.0	69	57.0	83	S	5	SE	10	.01	.01	9 a. s., w	10 n., se	
18	29.61	29.63	60.0	59.0	63	58	57.8	88	56.5	86	SE	7	E	10	.19	T.	10 s., se	10 s., e	≡°a.
19	29.60	29.54	59.6	61.0	67	59	58.0	91	59.0	89	E	4	SE	6	.05	.10	10 n., e	10 s. cu., sc	⌐⌐ ≡°a.
20	29.51	29.37	61.2	63.3	67	61	59.7	92	62.5	96	E	10	SE	7	.03	.10	10 n., e	10 n., se	≡°a.
21	29.29	29.41	63.0	67.2	72	62	62.9	99	63.2	80	E	6	N	9	.11	.03	10 n., e	9 s. cu., n	≡°a.
22	29.59	29.65	60.8	58.1	66	56	54.5	66	57.1	94	N	14	SE	10	.....	T.	4 s. cu., w	10 n., se	≡°p.
23	29.50	29.54	55.0	56.2	59	53	53.0	88	55.3	95	E	20	E	23	.04	.58	10 n., e	10 n., e	≡°a.
24	29.63	29.69	54.8	58.2	62	53	53.8	94	57.2	94	E	12	SE	5	.36	T.	10 n., e	10 s., se	≡°a.
25	29.68	29.68	57.2	61.0	65	56	53.5	79	58.0	84	SE	5	S	8	.....	T.	10 s., se	10 s. cu., s	≡°a Lt. smoke p.
26	29.71	29.64	58.0	70.4	75	56	57.0	94	66.4	81	W	2	SW	10	.....	.....	2 ci. s., w	4 s. cu., sw	≡°a.
27	29.61	29.50	67.0	70.3	77	63	64.0	85	65.3	77	W	4	SW	7	.....	.....	3 a. s., sw	3 ci. s., sw	≡°a.
28	29.58	29.54	64.5	66.3	71	63	58.8	71	61.8	78	E	10	E	4	.....	.....	10 s., e	8 a. s., se	
29	29.50	29.55	61.0	61.0	65	60	60.0	94	60.5	97	NE	10	N	10	.25	2.24	10 n., ne	10 n., n	⌐⌐ ≡°
30	29.67	29.57	62.6	78.2	79	60	59.8	85	71.7	73	SW	4	W	40	T.	T.	0	10 n., w	⌐⌐
Mn	29.63	29.61	61.4	64.4	69.5	58.6	58.2	83.2	61.2	84.0	E	8.8	SE	10.7	3.58	3.84	6.7 n., e	7.8 s. cu., se	

NEW YORK, N. Y.

[$\varphi = 40° 43'$ N; $\lambda = 74° 00'$ W; barometer above sea, 314 feet; gravity correction applied $-.01$.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.58	29.46	72.8	83.0	90	70	69.2	84	73.5	64	SW	10	SW	16	T.	.....	5 a. cu., w	0.....	
2	29.47	29.52	77.8	81.2	90	69	72.2	76	73.7	70	W	22	SW	10	.....	0.29	4 ci. sw	4 ci. s., sw	
3	29.67	29.61	74.0	73.6	88	71	68.0	74	70.0	84	NW	17	W	24	.....	.03	3 ci. s., w	10 n., w	
4	29.72	29.74	70.4	75.3	80	68	66.1	80	67.8	88	NE	5	SE	5	0.02	.....	10 s. cu., ne...	5 ci., w	
5	29.83	29.80	68.4	70.1	79	66	64.4	80	65.6	79	S	5	S	14	.....	T.	4 ci. s., nw....	10 n., s.....	
6	29.78	29.72	67.5	81.1	86	68	66.0	92	68.6	52	W	7	NW	20	.02	.02	10 n., w.....	2 s. cu., nw	
7	29.81	29.76	71.3	81.7	80	68	65.7	74	68.7	51	NW	10	SW	3	.....	.....	2 s. cu., nw...	6 a. s., n	
8	29.77	29.62	73.0	83.0	89	68	66.0	69	72.0	58	W	7	SW	12	.....	.....	2 ci. s., w	10 a. s., nw	
9	29.65	29.60	79.5	88.9	94	71	69.7	61	74.9	51	NW	12	W	10	.....	.....	Few s., nw ...	Few a. s., nw.....	
10	29.60	29.50	79.8	82.8	94	76	71.0	65	74.8	69	SW	5	W	18	.....	T.	0.....	6 s. cu., w	
11	29.52	29.44	78.7	73.0	88	68	71.7	71	71.5	93	NW	10	W	7	.....	.35	7 a. s., w.....	10 s., w	⌐⌙
12	29.48	29.44	72.6	74.1	86	70	70.5	90	70.1	82	S	5	SW	8	.....	.05	9 s. cu., s	10 s., sw	⌐⌙
13	29.45	29.48	69.0	70.3	73	67	66.1	86	62.8	66	NW	8	W	12	.07	.05	10 n., nw	10 s., w.....	≡°a.
14	29.52	29.48	68.0	66.5	79	63	61.4	69	61.0	73	SW	5	W	12	.....	T.	Few ci., w.....	4 s., w.....	
15	29.51	29.59	63.1	64.1	69	60	57.3	70	57.6	67	NW	16	W	17	.....	.....	0.....	1 s. cu., w.....	
16	29.68	29.64	61.3	72.1	77	57	57.8	81	62.6	59	W	19	W	15	.....	.....	4 ci., cu., w...	5 ci. s., n.....	
17	29.72	29.69	67.6	73.2	79	63	61.0	69	66.7	71	NW	5	SE	6	.....	.....	1 s., 0	2 ci., ne.....	○○°a.
18	29.60	29.27	69.3	65.0	71	63	65.8	83	64.2	96	S	8	E	21	.....	1.13	10 s., s	10 s., e	
19	29.35	29.46	63.2	72.2	75	61	60.5	86	65.2	69	NW	17	W	7	.....	.....	9 s. cu., nw...	Few ci. s., 0 (?) ...	
20	29.53	29.56	68.0	72.1	78	64	65.0	85	68.1	82	E	8	NW	6	.06	T.	7 s. cu., e	10 a. s., sw	⌐⌙≡°a.
21	29.58	29.64	67.4	77.2	80	66	65.0	93	66.7	57	NW	6	SW	8	.01	.....	3 ci. cu., w ...	Few s. cu., sw	≡°a.
22	29.67	29.56	74.0	71.1	80	68	69.5	80	67.1	81	SE	9	S	15	.....	.56	Few ci. s., s...	10 cu. n., s.....	⌐⌙
23	29.59	29.62	68.0	75.1	80	65	64.5	83	67.1	66	NW	9	NW	11	.04	.....	Few ci., w....	Few s. cu., nw....	
24	29.65	29.70	69.7	78.0	85	67	65.8	81	63.5	44	NW	11	NW	12	.....	.....	0.....	0.....	
25	29.81	29.70	67.4	81.0	88	65	62.9	78	68.5	52	NW	8	SW	12	.....	.....	1 s. cu., 0	2 ci., nw.....	
26	29.59	29.54	75.2	77.5	87	70	69.3	74	69.0	65	W	20	NW	18	.....	.02	2 a. cu., nw...	8 a. s., w.....	
27	29.66	29.69	66.5	69.5	75	63	61.0	73	56.0	42	NW	17	NW	15	.....	.....	Few ci. s., 0 ..	Few ci. s., 0 (?)...	
28	29.77	29.71	61.1	69.0	73	60	55.5	70	63.0	72	NW	8	S	12	.....	.....	6 ci. s., nw....	10 s. cu., w.....	
29	29.63	29.50	71.0	77.0	82	68	68.0	86	73.5	85	S	12	S	15	.....	.....	10 s., s	10 s., s	⌐⌙
30	29.52	29.51	74.0	73.3	90	71	71.8	90	70.0	85	SW	10	SW	8	.04	.47	4 ci. s., sw	8 s. cu., sw.....	⌐⌙
31	29.66	29.80	69.0	67.0	73	65	62.5	70	59.3	65	NW	26	NW	8	T.	.....	4 ci. cu., nw ..	8 ci. s., w	
Mn	29.62	29.59	70.3	74.8	82.1	66.4	65.6	78.2	67.2	68.3	NW	10.9	W	12.3	.26	2.97	4.1 ci.s.,s.cu.,w	5.5 s. cu., w.....	

AUGUST, 1903.

1	29.95	29.97	66.8	70.0	77	60	58.1	60	62.3	65	NE	10	S	9	.....	.....	Few ci. s., 0(?).	2 ci. s., sw	
2	30.09	30.04	67.8	70.1	78	62	63.3	78	61.9	63	NE	8	S	7	.....	.....	0.....	5 a. cu., sw	
3	30.01	29.92	69.0	71.0	77	65	61.1	63	64.0	68	N	4	S	8	.....	.....	1 ci. cu., w ...	10 s. cu., s.....	
4	29.84	29.62	71.0	65.0	72	65	65.2	73	64.8	99	SE	8	SE	17	.....	0.85	9 s. cu., se	10 n., se.....	
5	29.47	29.60	62.9	63.0	68	61	62.0	95	60.0	84	NW	21	NE	13	1.79	.01	10 n., nw	4 s. cu., ne.....	
6	29.65	29.58	62.4	64.8	70	60	59.2	83	62.8	90	E	4	SE	8	.....	T.	10 s., se	10 s. cu., se	⌐⌙
7	29.50	29.65	67.2	66.2	76	61	65.0	89	56.8	51	NW	8	NW	25	.14	.....	Few cu., nw..	Few s., nw	
8	29.72	29.68	58.7	65.5	70	56	51.2	59	58.0	64	NW	8	SE	12	.....	.....	1 ci. s., sw	5 ci. s., w	
9	29.56	29.54	62.2	69.8	71	62	60.7	92	66.0	82	E	12	NW	2	.22	.01	10 n., e	Few s., nw	
10	29.65	29.66	67.0	73.5	82	65	61.7	74	67.2	72	NW	6	S	8	.....	.....	2 ci. s., w	3 ci. cu., sw.....	
11	29.62	29.52	70.8	70.7	76	68	69.2	92	67.7	86	SE	5	E	4	.....	.01	Dense fog, 0 ..	10 s., e	
12	29.58	29.68	67.0	69.0	76	52	59.2	63	58.3	52	NW	11	NW	20	.....	.....	4 ci. s., sw	4 ci. s., w	
13	29.80	29.80	61.8	70.2	74	59	54.0	60	61.5	60	NW	10	SW	7	.....	.....	2 ci. s., sw	7 s., sw	
14	29.82	29.76	63.2	67.5	72	63	61.2	89	64.0	83	W	3	S	8	.05	.06	10 s., e	0.....	
15	29.80	29.77	65.8	71.0	77	62	60.5	74	62.0	60	N	5	S	10	.....	.....	2 ci. s., w	2 a. s., 0.....	
16	29.74	29.70	67.5	67.2	71	65	64.5	85	63.2	80	S	4	N	4	.....	.01	10 s., s	10 s., n.....	≡°a.
17	29.70	29.70	64.0	73.3	79	62	59.7	78	67.0	72	NW	9	S	8	T.	.....	0.....	2 ci. s., w	
18	29.74	29.72	69.0	73.0	81	64	63.8	75	68.3	79	N	4	S	15	.....	.....	2 a. cu., w	0.....	
19	29.69	29.56	70.1	73.1	80	68	67.1	86	69.7	84	S	5	S	15	.....	.01	10 s. cu., s	8 s. cu., s	⌐⌙
20	29.39	29.46	71.0	74.1	78	69	69.1	91	66.0	65	S	4	NW	13	.16	T.	4 a. s., sw.....	1 ci. cu., sw.....	
21	29.85	29.68	65.7	73.8	78	65	59.0	67	60.8	47	NW	12	SW	9	.....	.....	0.....	1 s., sw	
22	29.59	29.49	67.0	80.5	85	65	62.0	75	70.0	59	SW	11	W	14	.....	.....	1 a. s., sw.....	9 s. cu., se	
23	29.53	29.52	73.2	79.7	84	72	68.7	80	71.0	65	W	6	W	12	.09	.....	10 s., w	Few s., w.....	
24	29.61	29.66	71.5	74.0	77	68	64.0	66	65.0	61	NE	4	E	4	.09	.....	8 a. s., w.....	9 s. cu., e	
25	29.59	29.52	73.1	76.0	88	68	68.6	80	69.0	70	SE	6	NW	8	.....	.19	10 a. s., nw ...	3 s., nw.....	⌐⌙
26	29.58	29.67	71.2	70.0	77	69	67.7	84	65.0	77	E	12	SE	5	.01	T.	4 s. cu., e	10 s. cu., se	≡°a.
27	29.71	29.74	67.6	69.0	72	67	65.2	88	65.0	81	NE	4	SE	6	T.	T.	10 s. cu., ne...	10 n., se.....	
28	29.68	29.68	63.1	60.8	68	59	60.9	88	60.2	96	E	20	E	20	.24	1.04	10 n., e.....	10 n., e.....	
29	29.66	29.72	59.4	60.0	62	57	59.4	100	59.0	94	NE	28	NE	15	.74	.15	10 n., ne	10 n., ne	
30	29.71	29.66	60.0	62.6	64	59	59.2	95	61.5	94	NE	20	NE	22	.05	.03	10 n., ne	10 s., ne.....	≡°a.
31	29.67	29.64	59.3	63.2	64	59	58.3	94	61.5	91	NE	8	NW	10	.01	.....	10 s., ne.....	10 s., nw.....	
Mn	29.69	29.67	66.3	69.6	75.0	63.5	62.2	79.9	63.8	74.0	NW	9.0	S	10.9	3.59	2.37	5.6 ci. s., w ...	5.6 s., se., w.....	

NEW YORK, N. Y.

[φ=40° 43′ N; λ=74° 00′ W; barometer above sea, 314 feet; gravity correction applied −.01.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.67	29.72	62.6	67.0	70	62	61.1	92	65.0	90	N	5	S	6			10 s., n	9 s., s	≡ca.
2	29.76	29.78	66.2	69.0	76	62	64.5	91	65.5	83	NE	4	SE	6			8 ci. cu., ne	2 a. s., w	≡ca.
3	29.82	29.82	62.5	65.5	78	62	62.0	97	63.8	91	N	6	SE	8			4 a. s., 0 (?)	7 s., se	≡ca.
4	29.82	29.74	65.0	71.0	76	62	64.0	95	68.5	88	S	8	S	12			8 s., s	0	⌐a≡ca.
5	29.66	29.59	67.8	68.0	79	66	67.3	97	66.5	92	SW	7	W	10		0.15	10 s., 0 (?)	10 s., w	▽
6	29.70	29.77	60.2	66.5	70	59	59.0	93	63.0	82	N	18	NW	4			2 a. s., n	0	
7	29.85	29.86	59.5	67.0	71	56	57.0	86	61.5	73	NW	9	E	8		T.	1 a. s., w	10 s. cu., e	
8	29.94	29.99	60.0	63.0	66	60	55.5	75	57.0	69	E	11	E	13	T.		10 s., e	10 s., e	
9	30.02	29.97	64.2	65.5	66	63	57.8	68	59.5	70	SE	10	S	8			10 s., 0 (?)	10 s., s	
10	29.85	29.74	68.0	73.0	77	66	64.5	83	70.0	86	S	6	S	13			10 s., s	8 s., s	
11	29.78	29.87	68.0	74.0	80	67	66.5	92	66.5	67	W	11	NW	10	0.07		Few ci. s., 0	0	
12	29.95	29.94	65.0	70.5	76	62	62.2	86	65.0	74	NE	6	SE	7			0	2 s., se	
13	29.92	29.82	67.0	77.5	80	66	65.0	90	71.5	74	S	4	SW	12			10 s., s	0	∞°a.
14	29.83	29.81	69.0	79.5	84	68	67.8	94	72.0	70	SW	9	SW	12			0	0	
15	29.87	29.83	69.2	72.6	82	69	68.0	94	69.4	85	SW	5	SE	10			10 s., sw	0	
16	29.74	29.65	78.9	76.0	77	69	71.7	90	71.5	80	E	14	SW	15	.01	1.29	10 s., e	8 s. cu., sw	∞°a.
17	29.55	29.60	74.2	67.5	77	65	71.8	89	67.5	100	S	13	SW	12		.70	6 s. cu., s	10 n., sw	
18	29.73	29.89	57.2	61.0	65	56	52.2	71	59.5	92	NW	24	NW	9	.01		4 ci. s., s	0	
19	30.08	30.04	58.0	63.0	65	53	53.2	73	59.5	82	NE	13	NE	4			0	0	
20	30.03	29.95	58.0	62.5	64	55	55.5	85	61.0	92	N	9	N	12			3 a. s., 0	0	
21	29.88	29.82	55.8	67.8	70	51	51.0	72	56.3	48	N	8	W	7			Few ci. s., w	0	
22	29.83	29.81	63.0	73.2	77	59	56.2	65	64.7	63	NW	9	N	2			0	0	
23	29.77	29.55	62.7	69.0	75	61	57.3	72	65.0	81	NE	3	SE	8			0	3 ci., 0	
24	29.39	29.57	62.2	55.0	65	50	57.1	78	48.8	64	N	26	NW	29			10 a. s., s	0	
25	29.74	29.74	49.7	60.2	62	48	44.7	67	53.0	62	NW	7	W	7			Few ci., sw	0	
26	29.87	29.80	55.2	63.7	70	58	51.5	78	60.3	82	W	4	S	18			0	0	
27	29.67	29.57	66.3	64.5	75	60	61.8	92	64.5	100	S	16	S	2	.02	.32	10 s., s	10 s. cu., s	⌐a
28	29.75	29.86	54.7	53.7	60	49	48.7	65	52.3	91	NW	25	NW	18	.02		0	0	
29	30.00	30.00	47.9	55.0	58	45	42.2	62	49.0	65	NW	16	NW	11			0	0	
30	30.09	30.01	50.2	63.4	66	47	45.9	72	57.0	67	SW	3	SW	7			0	0	
Mn	29.82	29.80	62.1	66.8	71.9	59.0	58.9	82.0	62.5	78.8	N & NW	10.1	S & NW	9.7	.14	2.46	4.5 s., s	3.3 s., s	

OCTOBER, 1903.

1	29.97	29.80	55.2	68.9	72	55	53.5	90	60.5	61	SW	9	SW	12			4 ci. s., w	9 a. s., sw	
2	29.79	29.86	62.9	69.0	75	62	59.2	81	69.0	100	SW	8	NE	17	T.	0.03	7 s. cu., sw	10 n., ne	
3	30.02	29.97	60.6	61.0	65	58	55.6	73	52.8	57	NE	13	SE	10	0.34		3 a. cu., w	0	
4	29.96	29.86	59.2	65.2	67	56	55.0	76	62.0	84	E	5	S	12			8 s. cu., s	7 a. cu., 0	
5	29.85	29.79	63.2	69.0	73	60	61.5	91	68.0	95	SW	6	NE	4		T.	10 s. cu., sw	10 n., ne	
6	29.88	29.85	66.0	66.3	70	63	62.5	82	62.8	82	NE	12	E	10	.01		10 s. cu., ne	6 s. cu., e	
7	29.86	29.74	64.1	64.0	67	62	63.0	94	63.5	97	E	9	E	15	.01	T.	10 n., e	D. fog, 0	≡ca.
8	29.57	29.43	67.9	56.9	69	54	65.2	87	56.9	100	SE	17	N	26	T.	2.03	8 s. cu., se	10 n., n	⌐a
9	29.30	29.43	55.8	63.0	66	54	55.8	100	60.4	86	N	25	NE	30	4.40	3.61	10 n., n	10 s. cu., ne	≡ca.
10	29.62	29.58	58.0	53.0	60	52	52.0	66	52.5	97	NE	34	NE	24	.05	.08	8 s. cu., ne	10 n., ne	
11	29.58	29.54	54.0	55.0	55	53	50.8	81	52.6	86	N	24	N	24	.20		10 s., n	10 s. cu., n	
12	29.50	29.57	55.3	57.0	62	53	51.0	74	51.7	70	NW	20	NW	16		.01	10 s., nw	10 s., nw	
13	29.66	29.63	54.3	61.0	66	53	50.5	77	54.5	65	W	15	NW	12			3 a. cu., w	0	
14	29.65	29.58	53.7	62.4	67	52	49.8	76	54.0	57	NW	7	NW	12			0	0	
15	29.73	29.70	56.0	60.0	64	55	50.0	65	56.5	81	E	10	SE	6			0	0	
16	29.70	29.64	60.4	63.5	68	56	58.0	87	60.5	84	S	7	SW	7			8 a. s., sw	10 a. s., s	≡°a.
17	29.58	29.25	65.0	61.0	68	59	62.9	89	60.2	95	S	10	S	5	T.	.68	10 s., s	10 n., s	≡°
18	29.28	29.65	50.7	48.0	59	47	46.7	75	45.3	81	W	27	NW	16	.03		8 s. cu., w	0	
19	29.79	29.70	45.0	56.0	59	44	41.0	71	51.6	73	W	11	SW	16			7 s. cu., w	Few ci. s., s. (?)	
20	29.62	29.55	51.9	61.5	67	49	47.9	75	57.0	76	SW	15	SW	8			1 ci., nw	0	
21	29.74	29.87	51.7	58.4	60	51	45.6	62	50.0	55	NW	13	SE	3			Few a. s., 0	0	
22	29.97	29.75	52.4	61.0	63	51	48.0	73	55.5	71	E	8	S	12			0	0	
23	29.57	29.63	59.8	49.4	62	48	57.8	89	49.4	100	SW	8	N	7		.05	10 s., sw	10 n., n	≡°a.
24	29.70	29.70	44.8	41.8	50	37	40.9	72	36.0	56	N	11	NW	13	.02		7 a. cu., sw	Few s. cu., nw	
25	29.61	29.44	36.2	48.2	50	34	33.2	78	43.3	67	N	5	W	16			5 ci. s., s	8 s. cu., w	
26	29.50	29.76	43.3	38.7	50	37	36.3	48	32.8	52	NW	45	W	21		T.	Few s. cu., nw	0	
27	29.88	29.85	36.0	41.0	42	34	31.7	62	35.5	57	NW	16	NW	20	T.		1 s. cu., nw	0	
28	29.77	29.82	43.4	45.2	49	40	38.9	66	39.0	56	W	15	NW	18			9 s. cu., w	0	
29	29.84	29.74	41.2	55.0	62	39	39.2	84	47.5	57	W	11	W	12			0	0	⌐
30	29.81	29.83	50.2	60.1	68	49	43.9	59	52.8	61	SW	8	W	10			5 a. s., sw	2 ci., w	
31	29.89	29.83	51.0	61.0	68	48	43.3	52	49.5	28	W	6	SW	15			0	6 a. s., sw	
Mn	29.72	29.69	53.8	57.5	62.7	50.5	50.0	75.8	53.0	73.8	SW & W	13.9	NW	13.8	5.06	6.49	5.5 s. cu., sw., w.	4.5 n., n., e., s	

NEW YORK, N. Y.

[$\varphi = 40^{\circ}\ 43'$ N; $\lambda = 74^{\circ}\ 00'$ W; barometer above sea, 314 feet; gravity correction applied −.01.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.86	29.82	51.4	62.2	69	51	46.4	68	58.0	78	W	13	NW	19	.....	.....	0	Few a. s., nw	
2	29.85	29.79	49.5	61.3	66	49	44.5	67	49.0	39	W	4	NW	15	.....	.....	4 a. s., sw	5 a. s., nw	
3	29.80	29.74	53.0	64.0	69	51	47.0	63	52.5	45	W	12	W	13	.....	.....	0	0	∞°p.
4	29.71	29.56	52.2	63.0	70	52	46.0	74	53.8	54	W	14	SW	8	.....	.....	0	2 ci. s., w	☾
5	29.28	29.31	59.0	48.0	66	43	57.5	91	42.0	60	S	9	NW	24	0.40	0.02	10 n., 0 (?)	10 s. cu., nw	≡°a.
6	29.54	29.70	38.0	37.0	43	32	33.5	62	30.0	40	NW	18	NW	24	T.	.....	9 s. cu., nw	3 s. cu., nw. (?)	
7	29.82	29.84	32.2	35.0	40	30	28.5	62	30.0	51	NW	16	NW	20	.....	.....	8 s. cu., nw	0	_²
8	29.94	29.93	36.0	47.0	52	32	32.5	68	42.3	68	W	25	W	10	.....	.....	0	0	
9	29.94	29.80	39.2	53.0	57	38	36.5	77	43.5	44	W	8	SW	8	.....	.....	0	Few ci., sw. (?)	
10	29.70	29.58	44.0	55.5	60	43	41.5	81	48.5	60	S	10	W	8	.....	.....	7 a. s., 0	0	
11	29.63	29.52	46.5	54.5	56	44	42.0	68	50.0	73	N	12	SE	4	.....	.....	0	0	
12	29.56	29.66	49.0	49.0	54	45	44.8	72	42.0	54	NW	22	SW	8	T.	.....	0	0	
13	29.64	29.72	43.5	52.3	56	44	38.5	68	43.0	44	SW	8	NW	12	.....	.....	0	10 a. s., nw. (?)	
14	29.75	29.77	45.0	42.0	50	41	40.8	69	39.0	77	NW	4	W	15	T.	.06	10 n., 0 (?)	0	
15	29.88	29.88	34.7	43.0	45	35	32.0	75	38.5	66	W	12	W	8	.....	.....	4 s. cu., w	2 ci., w	
16	29.71	29.52	52.0	55.2	59	42	48.6	75	53.0	87	S	15	S	9	.01	.07	10 n., s	10 s. cu., s	≡°p.
17	29.43	29.50	60.3	45.3	63	43	58.9	92	44.0	90	S	11	NW	24	.09	.21	10 n., s	10 n., nw	≡°n.
18	29.69	29.80	41.7	31.0	43	29	37.0	64	26.5	52	NW	17	NW	27	T.	.....	8 s. cu., s	0	
19	30.03	30.09	27.0	31.2	35	26	23.8	62	27.0	56	W	13	W	16	.....	.....	0	0	
20	30.27	30.32	26.3	35.0	35	25	23.5	60	30.5	58	NW	16	NE	8	.....	.....	0	0	
21	30.37	30.18	30.3	34.8	37	27	26.0	53	30.0	55	NE	9	E	9	.....	.....	Few ci., w	0	
22	29.98	29.82	36.2	39.4	41	36	33.8	78	37.2	81	E	5	N	5	.....	.02	10 s., e	10 s., n	≡°p.
23	29.69	29.35	39.9	47.5	48	36	38.1	85	43.0	69	SE	3	SW	11	.....	.02	10 s., se	10 s., sw	≡°a.
24	29.40	29.60	39.2	34.0	44	28	35.2	67	29.3	55	W	26	W	24	.....	T.	7 s. cu., w	0	
25	29.71	29.74	25.8	24.5	29	22	22.0	53	21.2	57	NW	24	NW	18	.....	.....	Few s. cu., nw.	5 ci., nw. (?)	
26	29.73	29.72	22.4	27.0	30	20	19.9	65	24.2	66	NE	4	NW	18	.....	.....	0	0	
27	29.76	29.62	18.2	25.3	29	17	16.6	74	22.6	66	NW	14	NW	18	.....	.....	0	7 ci. s., 0	
28	29.54	29.42	21.0	30.0	32	20	19.9	71	25.0	46	NW	12	NW	10	.....	.....	0	8 s. cu., nw	
29	29.37	29.37	26.2	26.4	29	24	24.2	75	24.0	71	NE	8	NW	8	.....	T.	0	8 a. s., nw	∞°p.
30	29.58	29.72	22.3	30.5	34	22	20.5	74	26.0	52	W	8	W	10	.....	.....	0	0	Lt. smoke a ∞°p
Mn.	29.74	29.71	38.7	42.8	48.0	34.9	35.4	70.5	37.5	60.6	W	12.4	NW	13.7	.50	.40	3.6 s. cu., s., w., nw.	3.3 a. s., s. cu., nw	

DECEMBER, 1903.

1	29.93	29.92	27.0	34.5	36	26	25.0	76	30.3	60	N	5	E	6	.....	.....	0	0	≡°a ∞°p.
2	29.85	29.74	31.8	35.2	40	31	31.3	95	34.0	89	N	14	NE	18	0.01	T.	10 n., n	10 n., ne	*
3	29.66	29.67	30.7	34.3	37	29	30.0	92	31.0	68	NE	22	N	13	.42	0.04	10 n., ne. (?)	10 s., n	*≡°a.
4	29.72	29.75	27.2	36.6	39	26	25.7	82	32.0	60	N	6	W	8	.....	.....	0	9 s. cu., w	∞°a.
5	29.76	29.77	35.8	35.0	41	30	32.6	71	29.5	49	SW	6	NW	25	.....	.....	9 s. cu., sw	0	∞°a.
6	29.78	29.74	28.9	31.4	36	24	21.7	70	28.0	64	W	12	W	20	.....	.....	0	0	
7	29.75	29.61	27.0	37.0	41	26	25.0	76	32.5	61	W	12	S	8	.....	.....	2 s., w	0	∞°p.
8	29.71	29.69	30.3	39.6	42	30	28.0	75	34.4	58	NW	5	SE	3	.....	.....	0	10 ci. s., 0	∞°
9	29.50	28.87	38.0	42.7	43	35	34.5	70	41.8	93	NE	17	NE	24	.....	.67	10 s., ne	10 n., ne	
10	29.12	29.34	34.3	34.4	37	32	31.5	73	30.0	58	W	20	W	12	.05	.....	10 s., w	4 s., w	
11	29.59	29.82	26.9	29.5	33	27	23.9	64	25.0	50	W	10	W	12	.....	.....	0	0	
12	30.00	29.90	24.9	41.2	43	24	21.9	62	37.8	73	SW	4	S	18	.....	.....	1 ci., w	0	
13	29.45	29.84	49.8	32.4	52	25	48.8	93	26.4	40	S	21	W	20	.14	.18	10 n., s	0	
14	30.00	30.01	19.0	22.5	25	18	16.0	53	18.0	38	W	18	NW	13	.....	.....	10 s., w	0	
15	29.90	29.86	18.6	21.0	24	18	15.4	50	18.4	62	W	19	W	24	.....	.....	4 a. s., w	0	
16	29.71	29.60	16.0	22.8	25	15	13.8	62	20.2	52	W	20	W	26	.....	.....	2 ci. s., w	0	
17	29.74	29.71	22.0	29.3	32	22	19.7	67	26.8	72	W	14	W	16	.....	T.	Few a. s., w	0	*
18	29.90	30.17	24.1	19.0	28	15	20.9	58	16.0	53	NW	34	N	12	.....	.....	6 s. cu., nw	0	
19	30.23	30.00	14.8	35.8	41	13	12.6	60	32.8	73	NW	5	S	12	.....	.....	0	8 s., s	∞°a.
20	29.52	29.03	46.8	43.7	51	39	45.9	94	41.2	81	S	24	W	20	.28	.66	10 n., s	6 s. cu., w	
21	29.39	29.46	37.2	37.6	40	36	31.3	49	33.0	61	NW	36	S	13	.....	.....	10 s., nw	9 a. s., s	*△
22	29.36	29.74	37.0	29.5	39	25	34.8	81	25.0	50	W	17	NW	25	T.	T.	3 s. cu., w	0	*△
23	29.90	29.83	26.1	35.7	37	24	23.6	69	31.0	58	W	14	SW	19	.....	.....	7 s. cu., w	0	
24	29.82	29.50	35.9	40.6	47	34	31.6	61	36.0	64	SW	12	SW	11	.....	T.	7 a. s., sw	10 s. cu., sw	
25	29.34	29.20	39.5	34.3	40	32	37.0	79	33.0	88	SW	8	W	10	.....	.06	10 s., sw	10 s., w	*≡°p.
26	29.06	29.60	34.0	9.3	34	7	33.0	90	8.1	72	SW	5	NW	33	T.	.05	10 n., sw	0	*≡°a.
27	29.57	29.36	13.0	27.8	31	7	10.8	57	25.0	67	SW	13	SW	12	.....	.10	Few s., sw. (?)	10 s., sw	*
28	29.69	29.93	17.7	18.0	30	17	14.7	51	15.0	52	NW	34	NW	12	.....	.....	0	0	
29	29.87	29.67	18.4	26.2	31	16	17.7	88	24.3	76	E	14	N	5	T.	.15	10 n., e	0	*
30	29.65	29.74	17.0	21.0	29	17	16.6	93	18.3	60	W	10	W	25	.....	T.	7 s. cu., w	2 a. s., w	*☆≡°a.
31	29.69	29.71	18.6	24.3	28	16	17.2	78	21.8	67	W	13	W	7	T.	.....	10 s., w	Few a. s., w	*
Mn.	29.68	29.67	27.8	31.1	36.5	23.7	25.6	72.2	27.6	63.5	W	15.1	W	15.5	.90	1.91	5.4 s., w	3.5 s., w	

WASHINGTON, D. C.

[$\varphi = 38° 54'$ N; $\lambda = 77° 3'$ W; barometer above sea, 112 feet; gravity correction applied −.02.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.22	30.18	22.2	35.0	46	20	21.0	83	33.0	81	S	1	SW	1	.....	.....	4 ci. s., nw	Lt. smoke, 0	Lt. smoke, a.
2	30.18	29.83	30.4	35.0	40	27	29.4	89	35.0	100	W	1	NE	12	.....	1.12	10 a. s., w	10 n., ne	
3	29.55	29.59	34.0	41.0	44	33	33.8	98	41.0	100	SW	3	N	5	0.74	.....	10 s., 0	D. fog, 0	
4	29.68	29.61	36.0	36.7	39	35	35.0	91	35.2	87	NW	1	NW	8	.....	.05	10 a. s., 0	10 s., nw	≡ᵒa
5	29.76	29.70	35.8	41.0	44	35	35.0	93	39.0	84	S	5	S	8	.....	.....	10 s., sw	10 s., 0 (?)	
6	29.54	29.66	35.0	30.3	39	27	34.3	93	28.8	83	NW	8	W	6	.18	.01	10 n., nw	0	
7	29.46	29.25	30.8	35.0	39	27	27.3	63	34.0	91	S	10	SW	4	.....	.03	10 s., 0	9 a. s., sw	✳
8	29.31	29.51	32.5	27.8	34	22	28.5	60	25.3	71	W	16	W	12	.....	.01	10 s. cu., w	5 ci. s., nw	✳
9	29.78	29.70	17.3	28.0	33	16	14.0	46	23.0	43	W	12	NW	9	.....	.....	0	0	
10	30.01	30.10	18.4	26.3	34	18	14.9	44	24.2	74	W	6	N	3	.....	.....	0	2 ci. s., 0	▭
11	29.88	29.37	32.2	33.0	37	22	31.0	87	32.5	95	SE	7	S	6	T.	.55	10 n., 0	5 ci. s., sw	✳△
12	29.93	30.10	19.0	16.2	37	14	15.5	46	13.4	51	W	10	NW	12	.....	.....	0	4 ci. s., nw	
13	30.24	30.28	11.0	21.4	24	11	9.0	58	18.0	50	NW	10	W	10	.....	.....	0	10 a. s., nw	
14	30.31	30.09	20.2	30.0	36	19	17.7	62	27.0	67	SW	2	S	3	.....	.....	10 a. s., w	0	
15	29.93	29.89	31.0	39.5	44	26	27.0	58	35.0	64	W	6	W	1	.....	.....	3 a. s., w	10 a. s., 0 (?)	
16	29.96	29.87	32.0	44.0	53	30	29.8	77	38.0	52	W	2	S	4	.....	.....	7 a. s., w	10 a. s., 0 (?)	
17	29.67	29.61	34.0	44.3	54	31	32.5	86	39.8	67	S	1	NW	17	.....	.....	10 a. s., w	7 a. s., nw	
18	29.91	30.15	30.0	27.0	41	19	26.0	56	23.0	52	NW	12	NW	10	.....	.....	1 s., nw	0	
19	30.43	30.45	15.0	21.2	26	15	13.0	64	18.7	63	NW	3	E	6	.....	.....	0	0	
20	30.38	30.02	21.0	35.5	42	16	19.2	74	35.0	95	NE	6	NE	15	.....	.13	9 s. cu., sw	10 n., ne	✳
21	29.59	29.76	36.0	43.0	49	34	35.2	93	39.5	73	NW	10	NW	8	.65	.....	1 s., nw	10 s., nw	
22	29.88	29.96	38.0	37.8	46	29	35.0	75	33.8	66	NW	4	NW	3	.....	.....	10 s., sw	0	
23	30.01	30.14	30.0	37.0	44	27	28.5	83	33.0	65	SW	3	NW	12	.....	.....	5 ci., w	0	
24	30.26	30.06	23.0	24.7	32	23	20.5	66	23.8	88	NE	12	N	9	.....	.11	10 s., 0	10 n., ne	✳
25	30.03	30.15	22.5	28.2	30	22	22.1	92	26.7	82	NW	5	N	4	.01	T.	10 s., 0	0	✳
26	30.29	30.35	25.0	30.3	31	24	24.4	93	29.1	87	NW	2	S	9	.....	.....	10 s., 0	10 s., 0	
27	30.28	30.11	33.0	39.1	40	31	32.5	95	38.0	91	S	6	E	5	.....	T.	D. fog 0	10 n., 0 (?)	
28	29.93	29.91	36.6	45.8	58	36	36.4	98	44.3	89	NW	1	S	1	.65	.....	D. fog 0	Lt. fog, 0	
29	29.82	29.51	46.0	55.0	55	45	45.0	93	53.5	91	SE	5	S	5	T.	T.	10 n., 0	10 s. cu., sw	
30	29.44	29.83	50.6	35.8	56	34	46.0	70	29.7	45	NW	14	W	24	.02	.....	10 s., w	0	
31	30.04	30.08	34.5	41.0	48	32	28.0	39	35.0	54	NW	18	S	4	.....	.....	0	0	
Mn	29.93	29.90	29.5	34.4	41.1	25.8	27.3	75.0	31.8	74.2	NW	6.5	S NW	7.6	2.25	2.01	6.1 s., w	4.9 a. s., nw	

FEBRUARY, 1903.

1	29.97	29.90	37.0	41.0	43	35	36.0	91	39.5	88	NW	1	NE	4	0.12	0.23	10 n., 0	7 cu., w	≡ᵒa△
2	29.86	29.82	39.2	51.1	55	36	38.0	90	49.0	86	E	2	SW	3	.....	.....	10 s., sw	3 ci. s., sw	
3	29.93	29.76	40.0	50.0	56	39	39.0	92	44.0	61	N	1	SE	8	.....	.....	0	10 s., s	
4	29.30	29.24	55.0	49.3	67	40	54.5	97	43.2	60	S	8	NW	30	.66	.02	10 n., w	0	≡ᵒa.
5	29.62	29.94	32.5	34.2	40	32	26.5	40	28.2	43	W	30	W	12	.....	.....	5 cu. n., w	0	
6	30.21	30.18	31.3	38.0	42	29	26.3	48	30.5	37	W	8	W	6	.....	.....	3 a. s., w	5 ci. s., w	⊕
7	30.24	30.15	36.0	36.0	42	31	31.0	55	32.0	64	NW	2	E	9	.....	.....	7 a. s., w	10 s., e	
8	29.75	29.69	34.0	44.0	46	34	34.0	100	40.0	71	NE	6	W	14	.22	.13	10 n., ne	4 ci. s., nw	
9	29.99	30.16	34.5	35.5	40	32	31.0	66	31.0	59	NW	12	NW	4	.....	.....	5 cu., nw	0	
10	30.24	30.13	27.0	41.0	46	24	25.0	76	36.0	61	W	1	S	3	.....	.....	1 a. s., w	2 ci. s., 0	Lt. smoke, a.⊕
11	29.85	29.38	39.3	44.3	49	36	38.3	92	43.2	92	S	6	S	7	.17	.29	10 n., s	10 s. cu., sw	
12	29.83	29.90	44.8	51.0	61	43	41.7	77	45.0	62	SW	6	S	4	T.	.....	0	0	
13	29.95	30.00	38.2	58.0	68	36	36.7	87	50.0	56	S	1	NE	9	.....	.....	2 ci. s., sw	4 cu., nw	
14	30.20	30.20	40.9	39.0	48	37	36.0	62	35.5	71	N	6	E	8	.....	.09	10 a. s., nw	8 a. s., sw	
15	30.00	29.68	35.1	38.0	39	35	34.0	90	37.4	95	SE	9	E	8	.01	.50	10 n., se	10 s., se	
16	29.40	29.26	37.2	32.0	40	26	36.8	96	32.0	100	N	7	N	14	.14	.86	10 n., n	10 n., 0 (?)	✳△
17	29.39	29.92	18.4	14.0	27	9	16.0	62	11.0	44	W	34	W	12	.72	.....	Few cu., nw	0	✳△
18	29.98	30.08	8.0	17.6	28	3	6.0	53	13.4	32	W	1	NW	24	.....	.....	0	0	
19	30.54	30.49	5.0	15.0	16	4	3.0	46	14.0	82	NW	10	NW	2	.....	.....	0	0	
20	30.42	30.36	16.8	29.8	35	9	15.4	77	26.3	62	S	2	E	6	T.	.....	9 cu., sw	0	✳
21	30.26	30.05	19.0	35.5	41	17	18.0	84	32.0	68	E	2	W	3	.....	.....	10 a. s., s	4 a. s., 0	≡ᵒa.
22	30.31	30.47	26.0	29.8	32	25	22.5	57	25.3	51	NW	24	W	2	.....	.....	1 cu., nw	0	
23	30.43	30.21	28.0	41.0	52	24	25.5	71	35.0	54	S	7	0	0	.....	.....	0	0	
24	30.15	30.12	29.8	40.2	52	27	28.7	88	36.7	71	S	1	NW	9	.....	T.	Lt. fog, 0	10 s., nw	
25	30.34	30.41	29.5	36.0	41	29	28.0	83	31.5	60	NW	9	NW	2	.....	.....	0	0	
26	30.44	30.35	28.3	48.2	50	24	26.8	82	39.2	41	SW	3	S	3	.....	.....	3 ci., nw	0	
27	30.25	29.91	35.8	53.0	56	31	33.2	76	52.0	94	S	1	SE	12	.....	.26	10 a. s., sw	10 n., se	
28	29.44	29.62	66.0	58.0	73	54	64.0	90	50.5	59	S	20	NW	6	.35	.55	10 s., sw	9 a. s., nw	
Mn	30.01	29.98	32.6	39.3	46.1	28.6	30.4	76.0	35.1	65.1	S	7.9	NW	8.0	2.39	2.93	5.2 a. s., n.; sw., w., nw.	4.1 ci. s., s.; nw	

WASHINGTON, D. C.

[φ=38° 54′ N; λ=77° 3′ W; barometer above sea, 112 feet; gravity correction applied −.02.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.91	30.21	46.0	35.2	55	31	42.0	72	32.0	70	NW	18	NW	24	.....	.....	5 ci. cu., nw	0	
2	30.38	30.33	29.5	44.0	47	25	26.4	65	37.5	53	SW	4	S	4	.....	.....	0	10 a. s., 0 (?)	☂
3	30.45	30.38	33.0	46.0	53	30	31.0	80	39.8	44	S	2	SE	5	.....	.....	Lt. fog, 0	0	☂
4	30.32	30.21	32.4	51.0	58	30	31.6	91	46.0	68	SE	2	SE	2	.....	.....	5 ci. s., 0	0	≡ⁿa, ☂
5	30.04	29.98	45.5	58.0	64	38	42.5	78	52.0	66	S	10	S	4	....	0.02	10 s. cu., sw	10 s., w	◎
6	30.22	30.30	48.4	49.8	57	47	46.0	83	44.2	63	NE	9	S	5	.....	.....	9 cu., nw	10 s., 0 (?)	
7	30.32	30.20	43.0	45.4	47	41	41.0	85	45.0	97	NE	6	NE	4	0.03	.31	10 n., ne	10 s., 0 (?)	
8	30.12	30.01	46.7	58.0	60	44	46.1	95	57.3	96	S	8	S	5	.01	.14	10 s., 0 (?)	10 s., sw	≡ⁿa.
9	30.15	30.27	53.5	49.1	57	47	52.5	94	48.0	92	N	12	NE	12	.01	T.	10 s., n	10 s., ne	
10	30.35	30.25	45.0	48.4	49	44	44.2	94	47.0	90	E	6	SE	4	T.	.....	10 s., ne	10 s., se	
11	30.14	30.18	49.0	56.0	57	47	48.8	98	54.0	88	S	5	N	7	.10	.07	10 n., 0	10 s., nw	≡ⁿa.
12	30.24	30.15	42.0	51.4	58	39	40.5	88	47.0	72	N	8	SE	4	.....	.....	0	0	
13	30.16	30.09	37.0	57.0	65	34	36.5	95	52.5	74	E	2	SE	4	.....	.....	Lt. fog, 0	0	☾
14	30.13	30.07	41.2	61.0	69	38	40.7	96	55.0	68	0	0	SE	2	.....	.....	2 ci., w	2 ci. s., 0	≡ⁿa.○ⁿp.☂
15	30.10	30.14	46.0	54.5	70	41	44.8	91	52.4	87	S	2	E	9	.....	.....	9 a. s., sw	3 a. s., 0 (?)	≡ⁿa.
16	30.28	30.23	42.3	44.0	48	42	41.2	91	42.5	89	E	10	E	6	....	T.	10 s., e	10 s., e	
17	30.14	30.10	44.8	57.0	63	43	44.0	92	53.5	80	E	4	E	5	T.	.01	10 n., se	0	
18	30.22	30.26	47.0	61.7	70	43	46.0	93	56.2	71	E	4	E	8	.....	.....	Lt. fog, 0	0	
19	30.34	30.19	45.2	55.7	63	44	44.7	96	54.2	91	E	2	S	8	.....	.....	10 s., 0	0	≡ⁿa.
20	30.12	29.92	54.5	66.2	74	53	54.3	98	63.3	85	S	4	SE	8	....	T.	D. fog, 0	0	
21	29.92	29.84	60.0	58.8	69	51	59.5	97	53.6	99	SE	4	NW	22	.57	.23	10 n., sw	10 n., nw	✱☐
22	30.03	29.96	46.0	46.5	51	45	45.5	96	46.0	96	N	7	N	8	.89	.23	10 n., n	10 n., 0	
23	29.69	29.79	52.0	57.2	65	46	51.6	97	56.3	94	NW	3	W	2	.93	.48	10 n., n	0	
24	29.82	29.86	56.2	55.0	64	51	55.2	100	52.5	85	W	1	NW	8	.01	.....	D. fog, 0	5 cu., nw	
25	29.95	30.01	42.8	43.5	51	42	40.0	79	39.0	66	NW	20	NW	16	.....	.....	0	0	☂
26	30.16	30.07	40.2	53.4	60	35	37.7	79	46.0	56	S	4	SW	2	.....	.....	0	0	☂
27	30.05	29.92	46.0	61.2	70	39	42.5	75	54.7	65	S	2	S	3	.....	.....	3 ci. s., nw	0	☂
28	29.91	30.01	50.5	56.3	71	43	46.0	71	47.8	52	S	1	NW	24	.....	.....	2 ci. cu., sw	10 s., nw	
29	30.38	30.34	38.0	40.8	45	35	34.0	66	36.7	68	N	15	E	10	.....	.....	6 ci. s., nw	10 s., 0 (?)	☂
30	30.01	29.49	37.5	45.3	47	36	37.0	96	44.8	96	NE	16	N	10	.39	.76	10 n., ne	10 n., ne	
31	29.53	29.72	44.1	55.5	60	41	43.0	92	52.5	82	NW	24	W	8	.04	.....	9 s. cu., nw	Few a. s., 0	
Mn	30.12	30.08	44.7	52.2	59.3	40.8	43.2	87.8	48.7	77.5	S	6.9	SE	7.8	2.98	2.75	5.8 n., nw	4.8 s., nw	

APRIL, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.87	29.86	45.5	61.0	71	40	44.0	89	54.0	63	SW	3	N	1	.....	.....	2 ci. s., nw	Few ci. s., sw	≡ⁿa.
2	29.93	29.66	52.0	68.7	70	50	49.0	81	58.0	52	NE	5	S	12	....	T.	3 ci. s., nw	1 s., nw	○ⁿa.
3	29.59	29.28	64.0	73.5	78	62	60.0	79	62.0	52	S	10	S	22	.....	.....	10 a. s., sw	4 a. s., sw	◎
4	29.50	29.94	41.0	36.0	71	30	38.5	80	33.0	73	NW	24	NW	22	0.91	.....	10 s., nw	0	
5	30.29	30.28	28.7	41.0	47	26	27.2	83	38.0	76	NW	16	NW	3	.....	.....	0	3 ci. s., nw	☂ⁿ▽
6	30.33	30.07	40.0	50.0	58	33	37.2	77	46.5	77	S	7	SE	6	.....	.....	5 ci. s., w	1 ci. s., w	☂
7	29.95	29.83	54.7	60.8	63	53	53.2	91	58.3	86	S	12	S	10	.09	0.15	10 n., sw	10 s. cu., sw	
8	29.71	29.77	58.0	50.2	69	47	57.2	95	48.7	90	S	4	NW	16	.17	.62	10 s., sw	3 cu., nw	≡ⁿa.☐
9	29.95	29.75	49.5	68.3	73	42	48.5	93	59.0	57	W	2	NW	9	.....	.....	Lt. fog, 0	10 s. cu., nw	
10	29.98	30.02	54.2	56.0	64	47	48.2	64	50.0	65	NW	12	N	3	.....	.....	Few ci. s., nw.	Few a. s., 0	
11	30.08	29.92	49.5	53.0	56	42	45.0	70	50.0	81	NE	5	NE	4	....	.01	10 a. s., sw	10 n., 0	
12	29.76	29.71	51.5	50.8	63	48	50.0	90	50.3	97	NE	6	E	16	.04	.04	4 s. cu., ne	10 n., 0 (?)	
13	29.68	29.51	48.0	50.0	51	47	47.5	96	48.0	87	NE	9	NE	18	.16	.06	10 n., ne	10 n., ne	
14	29.37	29.30	46.4	48.0	52	44	46.2	98	47.5	96	NE	12	NE	20	1.07	.04	10 n., ne	10 n., ne	
15	29.26	29.33	44.8	48.0	50	44	44.2	95	47.0	93	NW	14	SW	6	.80	.05	10 n., nw	10 s., sw	
16	29.49	29.54	43.2	49.6	50	43	42.7	96	47.3	84	N	12	NW	6	.05	T.	10 n., ne	10 s., nw	
17	29.67	29.69	49.2	55.5	61	47	47.0	85	49.5	65	NW	18	NW	5	T.	.....	0	0	
18	29.78	29.68	48.7	61.0	67	42	45.2	76	51.0	49	NW	16	NW	8	.....	.....	Few ci. s., nw	0	
19	29.76	29.63	50.0	62.0	69	39	46.0	74	55.2	65	NW	1	SE	2	.....	.....	2 ci. s., w	7 a. s., sw	
20	29.62	29.58	56.2	54.0	64	48	50.0	64	51.0	82	NE	6	SE	4	....	T.	6 ci. cu., w	10 s., 0	
21	29.63	29.62	49.0	56.0	61	48	46.0	80	48.0	55	N	10	NW	4	T.	.....	6 cu., nw	1 ci. s., nw	
22	29.73	29.76	43.8	50.2	56	38	40.8	78	43.7	58	N	3	N	10	.....	.....	0	9 a. s., nw	☂
23	29.84	29.88	45.0	50.0	55	42	41.5	74	43.0	55	N	12	NW	8	.....	.....	4 cu., w	10 s., nw	
24	29.99	29.88	48.0	58.5	62	43	43.0	66	48.5	46	NW	12	SW	3	.....	.....	0	10 a. s., sw	
25	29.88	29.87	53.7	54.0	60	50	49.2	73	52.0	88	S	2	E	5	....	.02	10 s. cu., w	10 n., ne	
26	29.86	29.87	51.8	55.4	58	47	50.2	90	52.0	80	NE	10	NE	4	.01	.....	10 s., ne	Few ci. s., n	
27	30.04	30.08	53.2	60.0	67	42	50.0	81	51.0	53	N	14	N	2	.....	.....	0	Few a. s., 0	
28	30.21	30.09	55.0	68.6	77	43	49.0	62	56.0	44	NW	1	S	2	.....	.....	0	Few a. s., w	
29	30.12	29.96	58.0	77.0	86	46	52.0	66	62.0	42	SW	3	W	1	.....	.....	0	0	
30	29.92	29.64	64.0	78.2	89	50	58.0	70	58.0	26	NW	1	S	12	.....	.....	Few ci., 0	3 a. s., sw	Lt. smoke, a.
Mn	29.82	29.77	49.9	56.8	63.9	44.1	46.9	80.5	50.6	67.9	NW	8.7	NW	8.1	3.30	.99	4.7 ci. s., nw	5.1 a. s., nw	

WASHINGTON, D. C.

[φ=38° 54′ N; λ=77° 3′ W; barometer above sea, 112 feet; gravity correction applied −.02.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.13	30.23	45.0	50.8	67	44	40.0	64	41.3	42	NW	24	N	4	.....	.....	2 cu., nw	0	
2	30.36	30.22	42.5	53.0	60	38	36.5	55	48.0	69	NE	8	SE	8	.....	.....	Lt. haze	0	☂
3	30.13	29.94	48.2	60.5	70	42	46.2	86	59.5	94	SE	2	NW	7	.....	0.43	10 s., se	10 n., sw	☐
4	30.08	30.05	52.0	57.5	63	48	50.0	87	54.0	80	NW	12	NW	7	0.11	.....	2 ci., nw	Few a. s., 0	
5	30.09	30.04	51.0	62.3	69	44	48.0	81	56.2	69	NW	6	E	4	.....	.....	0	0	
6	30.09	29.97	51.5	66.0	76	46	50.0	90	55.0	48	S	5	SE	4	.....	.....	Few ci. s., sw.	1 s., sw	∞ᵖa.⊕
7	29.92	29.91	60.5	68.7	77	56	56.5	78	52.2	30	S	4	N	3	T.	.....	3 a. cu., w	Few a. s., 0	
8	30.07	30.01	54.0	60.5	69	48	48.0	64	53.1	61	NE	12	NE	4	.....	.....	0	2 a. s., sw	
9	30.08	30.05	56.0	68.0	75	43	54.0	77	54.5	40	NE	9	SE	6	.....	.....	2 ci., nw	Few a. s., sw	
10	30.14	30.11	59.7	68.0	76	44	52.2	60	57.0	50	NE	7	E	6	.....	.....	0	0	
11	30.21	30.14	51.5	66.0	71	45	50.0	90	56.0	53	E	5	E	5	.....	.....	10 s., e	Few a. s., w	
12	30.24	30.18	55.0	67.0	71	49	53.0	88	59.0	62	NE	8	E	4	.....	.....	9 s. cu., ne	Few a. s., 0	
13	30.21	30.06	60.2	69.0	76	49	57.2	83	62.5	70	NE	5	SE	6	.....	.....	0	Few a. s., sw	
14	30.00	29.83	62.4	69.4	79	53	60.0	87	62.0	74	S	4	SE	5	.....	.....	3 ci., nw	9 a. s., sw	
15	29.84	29.82	63.5	72.0	81	58	61.0	87	63.0	61	S	4	S	5	.....	.....	2 ci. s., nw	Lt. haze	
16	30.01	30.06	64.3	71.7	81	56	60.2	79	62.6	61	S	1	S	12	.....	.....	3 a. cu., 0	Few a. s., 0	∞°
17	30.16	30.05	63.5	70.6	78	54	60.5	84	61.5	59	SE	1	S	5	.....	.....	Lt. haze	Lt. haze	
18	30.02	29.90	63.0	75.5	83	59	58.0	74	68.0	68	S	4	SW	2	.....	.....	Lt. haze	4 s. cu., sw	∞ᵖp.
19	29.92	29.82	71.2	76.7	86	62	65.1	72	66.2	57	NW	1	S	1	.....	.....	4 cu., nw	Lt. haze	∞ᵖa.
20	29.91	29.85	72.2	79.0	91	62	63.1	61	69.0	60	W	9	SW	2	.....	.06	Lt. haze	9 s. cu., w	
21	29.95	29.84	73.5	79.0	88	63	65.5	65	69.4	64	NW	8	SE	4	.....	.....	0	Few a. s., sw	
22	29.83	29.80	74.0	81.0	88	65	68.0	74	69.0	54	NW	9	W	7	.....	.....	10 a. s., nw	10 a. s., sw	☐
23	29.95	29.90	68.5	71.0	79	66	66.5	62	66.5	84	NE	10	SE	4	.16	.....	7 cu., nw	4 a. s., nw	
24	29.90	29.92	65.0	57.5	68	56	63.5	92	56.5	94	W	2	E	18	.34	.33	9 s. cu., nw	10 n., ne	☐
25	30.10	30.14	56.0	63.0	65	55	54.5	91	58.0	74	NE	9	E	6	.01	T.	10 s., ne	10 s., ne	
26	30.21	30.14	60.0	65.0	66	58	56.6	81	60.5	77	SE	6	SE	3	.....	T.	10 s., se	10 s., se	
27	30.10	30.01	66.2	68.0	75	62	64.0	89	67.0	95	SE	4	SE	4	.....	.61	10 s., se	10 s., w	☐
28	29.98	29.97	69.5	67.0	82	63	67.5	90	64.0	85	S	10	SW	5	T.	.19	10 s. cu., sw	2 a. s., w	☐
29	30.03	29.95	68.0	69.0	80	59	65.5	88	67.8	94	SW	1	NW	4	.....	.27	4 ci. s., w	10 n., w	
30	29.92	29.92	67.8	64.5	80	62	66.7	94	62.5	90	W	2	NE	8	.11	.02	8 s. cu., w	10 n., ne	
31	30.00	30.09	60.2	59.0	62	57	58.7	91	56.5	86	NE	9	NE	6	.04	.07	10 s., ne	10 s., ne	
Mn	30.05	30.00	60.6	67.0	75.2	53.7	56.8	79.5	59.8	66.9	NE	6.5	SE	5.5	.77	1.98	4.5 s., nw	3.9 a. s., sw	

JUNE, 1903.

1	30.17	30.12	57.0	64.0	67	55	54.0	82	57.5	67	NE	7	E	6	0.01	.....	10 s. cu., ne	10 s. cu., sw	
2	30.16	30.13	60.0	64.0	74	53	55.4	77	58.2	71	E	4	S	1	.....	.....	10 a. s., 0	1 a. s., sw	
3	30.16	30.02	61.2	68.8	79	48	58.0	83	59.3	57	SE	1	SW	2	.....	.....	Lt. smoke, 0	0	
4	30.07	30.07	63.5	71.8	83	52	58.0	72	63.3	63	SW	3	S	1	.....	.....	3 ci., nw	2 a. s., sw	☂
5	30.18	30.14	60.0	67.0	68	58	58.5	91	64.0	85	NE	8	NE	8	.....	T.	D. fog, 0	10 s., e	≡ᵖp.
6	30.14	30.03	64.1	67.5	73	62	63.0	94	66.0	92	E	6	S	9	T.	0.12	10 s., 0	10 n., sw	≡ᵖa.
7	29.88	29.78	68.5	70.0	76	63	67.5	95	68.5	93	S	6	S	4	.82	T.	10 s. cu., s	8 s. cu., sw	☐
8	29.78	29.75	65.0	72.8	79	61	63.5	92	68.8	82	S	5	S	2	.10	T.	9 s. cu., sw	2 ci. cu., nw	
9	29.82	29.82	69.7	78.0	84	62	67.2	88	72.5	77	S	2	S	2	.....	.....	Lt. smoke, 0	2 ci. s., 0	Lt. smoke, p.
10	29.88	29.85	70.3	73.8	84	68	66.8	83	71.0	88	W	3	S	3	T.	.07	10 s., nw	9 s., nw	☐
11	29.83	29.73	66.5	62.0	73	59	65.8	96	61.3	96	NE	8	N	20	.....	.10	10 s., ne	10 n., n	
12	29.68	29.62	60.0	60.0	70	54	57.5	86	54.0	68	NW	17	NW	12	.18	T.	4 cu., nw	9 s., sw	
13	29.66	29.71	54.8	60.2	64	52	51.3	79	54.7	70	NW	14	W	1	.10	.03	9 cu., w	10 s. cu., sw	
14	29.57	29.62	57.2	62.7	69	56	52.7	74	55.2	62	SW	6	W	4	.01	.02	10 s. cu., sw	2 s. cu., nw	
15	29.68	29.68	59.2	68.0	71	54	53.1	67	57.5	52	NW	12	NW	8	.....	.....	Few cu., nw	1 cu., nw	
16	29.72	29.69	62.0	67.5	80	58	56.5	71	62.0	74	NW	8	SE	9	.....	.....	10 s. cu., nw	9 s. cu., nw	☐
17	29.76	29.76	61.8	66.0	75	59	59.2	86	64.0	90	SE	6	E	5	T.	.08	10 s. cu., se	7 s. cu., sw	☐
18	29.83	29.80	59.8	66.2	74	54	56.3	81	61.2	75	NW	8	N	2	.....	.....	Few ci. s., nw	2 a. s., w	
19	29.80	29.68	65.5	73.2	81	55	61.0	78	66.7	71	N	2	SE	4	.....	.....	10 s. cu., sw	8 a. s., sw	
20	29.62	29.51	69.0	74.0	76	64	65.0	81	68.0	74	E	3	SE	4	.....	T.	10 s. cu., s	10 s. cu., w	☐
21	29.58	29.71	67.8	70.8	76	59	63.0	77	63.3	66	NW	12	NW	12	.89	.....	1 cu., nw	Few a. s., nw	
22	29.79	29.68	66.5	70.3	78	55	62.0	78	62.8	66	N	2	E	14	.....	.....	Few cu., w	10 s. cu., s	Lt. smoke, a.
23	29.61	29.72	60.7	64.0	68	58	58.5	88	62.0	90	E	8	NE	5	.07	.12	10 n., e	Few cu., ne	
24	29.82	29.82	62.2	67.1	72	60	59.8	87	62.0	75	NE	6	SE	9	.....	.....	10 s. cu., ne	10 s. cu., se	
25	29.87	29.87	60.0	69.0	73	60	58.8	93	65.5	83	E	5	SE	6	T.	.01	10 n., se	2 a. s., s	
26	29.91	29.85	65.3	70.3	75	64	64.0	93	66.0	80	S	4	SE	5	.....	T.	10 s., se	10 a. s., s	
27	29.84	29.76	65.0	72.2	76	63	64.0	95	69.0	85	SE	3	SW	1	T.	.10	10 n., se	10 s., sw	
28	29.73	29.65	69.0	71.2	77	66	67.5	93	69.7	93	E	4	SE	4	.10	.05	10 s. cu., se	10 s., se	☐
29	29.68	29.76	69.0	71.5	81	66	67.0	90	70.0	93	W	5	NE	6	.57	.05	10 s. cu., nw	5 s. cu., nw	☐
30	29.89	29.83	66.0	78.9	87	63	66.0	100	73.4	77	NE	2	S	1	.....	.....	D. fog, 0	2 a. s., sw	
Mn	29.84	29.80	63.6	68.8	75.4	58.7	60.7	85.0	63.9	77.2	NW	6.0	S	5.7	2.85	.75	6.9 s. cu., nw.	6.0 s. cu., sw	

WASHINGTON, D. C.

[φ=38° 54′ N; λ=77° 3′ W; barometer above sea, 112 feet; gravity correction applied—.02.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.84	29.72	74.5	83.5	92	66	71.0	84	75.5	69	SW	2	SW	3	.....	.....	2 ci. s., w	Few ci. s., w	
2	29.77	29.79	80.5	87.0	96	73	74.0	74	75.2	58	S	4	W	5	.....	.....	Few ci. s., 0 ...	3 s., w	
3	29.89	29.85	82.7	78.5	95	74	75.2	71	72.5	75	W	1	NE	7	....	T.	2 ci. s., nw	4 s. cu., nw.....	☐
4	29.91	29.93	78.0	73.3	90	71	73.0	79	71.8	93	NE	3	SW	3	....	0.23	3 ci. s., nw	9 s. cu., se.....	☐
5	30.02	29.98	72.5	77.0	83	69	68.0	80	72.0	79	E	6	SE	6	.....	.....	4 s. cu., nw....	10 s. cu., sw	
6	30.01	29.96	73.0	79.5	87	69	71.0	91	73.5	75	SW	3	NW	5	0.33	.....	10 s. cu., nw...	3 ci. s., nw	☐
7	30.05	29.99	73.2	75.5	84	64	65.7	67	70.0	76	N	8	N	3	.....	.....	Few ci. s., n...	0.....	
8	30.02	29.89	74.0	81.0	88	63	68.5	76	72.0	64	NW	4	S	2	.....	.....	2 ci., n	Few ci. s., sw	
9	29.92	29.83	78.4	83.2	92	68	72.0	73	77.0	75	NW	8	0	0	.....	.....	Few ci., nw....	0.....	
10	29.87	29.80	78.0	81.0	96	69	73.5	81	72.5	66	SE	1	NW	7	.....	.....	3 ci. s., w	9 s., nw	
11	29.78	29.68	81.5	74.3	95	70	73.0	67	70.3	82	W	3	W	9	....	.21	2 ci., nw	6 s., nw	☐
12	29.70	29.66	76.2	71.8	89	70	73.7	89	70.7	95	SW	3	SW	3	.12	2.81	6 a. s., w	10 s. cu., sw	☐
13	29.70	29.74	65.6	69.1	72	64	64.5	95	66.1	85	N	3	W	4	.22	.05	10 s., sw	10 s., w	
14	29.77	29.78	67.5	68.5	80	62	64.0	83	60.0	60	W	4	N	12	.....	.....	0.....	10 s. cu., nw.....	
15	29.82	28.89	66.0	67.0	73	58	59.0	66	58.0	58	NW	5	NW	5	T.	.....	Few s. cu., 0...	1 cu., nw.....	
16	29.96	29.90	64.2	70.4	77	57	57.2	65	63.0	66	NW	10	SW	1	.....	.....	0.....	4 cu., w	
17	29.96	29.89	68.0	75.5	82	56	60.5	65	67.0	64	SW	2	SE	4	.....	.....	0.....	4 a. s., sw.....	
18	29.74	29.52	70.2	81.5	86	69	67.7	88	76.0	78	SE	9	NW	7	T.	.52	10 n., sw	5 s. cu., nw.....	
19	29.67	29.67	74.2	76.7	84	68	66.1	65	70.5	73	W	6	0	0	.....	.....	6 cu., nw.....	Few s., 0.....	
20	29.73	29.73	71.7	69.0	85	63	67.2	79	66.3	87	N	2	NW	4	.35	.01	1 cu., sw	9 s. cu., sw	☐
21	29.88	29.84	69.5	78.0	83	63	63.0	70	68.0	60	W	8	SE	4	T.	.....	0.....	Few s., nw.....	
22	29.80	29.78	74.0	76.0	88	68	69.5	80	73.5	89	S	5	SW	3	....	.13	2 ci. s., nw	5 s. cu., sw	☐
23	29.88	29.86	69.5	78.5	82	65	63.0	70	68.6	78	NW	8	N	2	.....	.....	0.....	Few s. cu., 0.....	
24	29.93	29.93	74.2	77.0	86	66	66.7	67	70.5	72	N	8	N	4	.....	.....	0.....	Few cu., w.....	
25	30.06	29.96	72.5	81.7	89	62	66.0	71	73.7	69	NW	2	S	1	.....	.....	2 ci. s., nw	Few s., sw	
26	29.94	29.82	77.3	82.5	94	68	71.2	74	71.5	58	S	3	N	6	.....	.....	Few ci. s., 0...	10 s. cu., nw.....	
27	29.95	29.90	72.4	71.0	80	63	64.0	63	65.0	72	N	6	0	0	.....	.....	3 ci. cu., nw...	3 ci. s., w	
28	30.00	29.87	65.2	75.5	81	58	55.2	52	68.0	68	NE	5	SE	4	.....	.....	Few ci., nw....	Few s., 0.....	
29	29.85	29.75	74.0	81.7	91	71	71.5	89	72.7	65	S	9	SW	4	....	T.	10 s., s.....	10 s. cu., sw	☐
30	29.78	29.78	78.5	75.5	94	71	73.0	77	71.5	82	S	7	S	3	.19	T.	4 a. cu., sw	2 a. cu., w.....	☐
31	29.90	30.02	74.0	68.5	76	65	70.0	82	61.0	65	NW	3	NE	5	....	T.	10 s., sw.....	10 s., sw.....	
Mn	29.88	29.83	73.3	76.3	86.1	65.9	67.7	75.3	69.8	72.8	NW	4.9	SW	4.1	1.21	3.96	3.0 ci. s., nw...	4.4 s. cu., sw., nw..	

AUGUST, 1903.

1	30.17	30.21	61.0	66.0	66	61	59.0	89	62.0	80	N	6	0	0	0.13	0.06	10 n., ne	10 s., nw	
2	30.29	30.23	66.0	72.7	78	63	63.0	85	65.2	67	N	4	SE	4	.....	.....	10 s., ne	10 s. cu., sw	
3	30.22	30.09	68.6	74.2	79	67	66.0	90	65.2	61	SE	3	SE	3	T.	.....	10 s. cu., se.....	10 s. cu., se.....	
4	30.02	29.74	67.2	72.0	74	65	63.1	80	70.6	93	SE	6	SE	6	.27	.13	10 s., s.....	5 s., se.....	
5	29.76	29.74	72.0	76.2	85	68	69.5	88	72.1	82	SW	2	NE	4	.....	.....	2 cu., sw	Few ci. s., 0	
6	29.81	29.70	67.0	72.0	76	65	66.4	97	71.0	95	SE	6	NE	5	T.	.01	10 n., 0.....	2 a. cu., w.....	≡ᵒa.
7	29.80	29.87	69.7	66.5	79	60	65.1	79	60.0	68	NW	10	N	2	.50	.....	Few a. s., nw..	Few a. s., nw.....	☐
8	29.94	29.81	64.0	71.3	77	54	58.0	70	67.5	82	E	5	SE	4	.....	.....	Few ci. s., nw.	10 s., se.....	
9	29.73	29.73	69.0	78.0	86	67	67.0	90	73.5	81	NE	3	SE	3	T.	T.	10 s., 0	Few a. s., 0.....	≡ᵒa.
10	29.88	29.82	72.2	78.8	87	65	70.0	90	73.0	76	NE	4	SE	7	.....	.....	3 ci., nw	3 s., nw	☐
11	29.80	29.74	73.0	75.0	79	69	71.0	91	72.0	86	E	1	S	5	.65	.08	10 s., se.....	Few a. s., sw	≡ᵒa. ☐
12	29.86	29.91	67.2	69.4	77	61	62.2	75	65.0	79	NW	6	N	3	.....	.....	4 ci. s., nw	Few a. cu., nw....	
13	30.01	29.98	65.0	67.3	73	61	59.5	72	66.0	93	NE	5	NE	5	....	.13	10 s., sw.....	10 s. cu., sw	
14	29.98	30.00	66.9	65.6	67	64	65.0	90	64.0	92	N	4	NE	4	.17	.01	10 n., ne	10 s., ne.....	
15	30.04	29.96	68.1	72.0	79	63	65.2	85	67.0	77	E	2	SE	3	T.	.....	10 s. cu., se....	10 s., se.....	
16	29.92	29.89	63.2	67.0	73	61	61.0	88	63.0	80	E	6	N	6	.30	.....	10 s., ne.....	9 s., ne.....	
17	29.96	29.93	69.3	70.0	80	62	64.2	76	65.5	79	NE	2	NE	2	.....	.....	1 cu., sw	Few a. s., 0.....	
18	29.97	29.91	68.0	73.3	79	59	65.0	85	68.3	78	SW	3	SE	4	.....	.....	7 cu., sw	Few a. s., 0.....	
19	29.87	29.71	71.5	72.7	80	68	70.0	93	70.0	87	S	4	SE	5	.....	.27	10 s., sw.....	10 s., se.....	☐
20	29.65	29.73	69.5	71.2	78	66	66.5	86	68.5	87	NW	5	N	1	T.	.....	10 s., nw	1 cu., nw.....	
21	29.94	29.92	65.2	70.8	80	60	57.8	68	64.7	72	NW	8	S	4	.....	.....	0.....	0.....	
22	29.88	29.78	66.5	78.0	88	60	61.5	75	72.0	75	S	3	0	0	.....	.....	0.....	2 a. s., nw.....	
23	29.80	29.78	73.5	79.5	89	66	69.0	80	71.0	66	SW	4	SW	1	.....	.....	Few ci. cu., nw	Few a. s., sw.....	
24	29.83	29.79	75.5	83.2	93	66	69.0	72	74.0	64	SW	2	S	2	.....	.....	Few a. cu., sw.	Few a. s., 0.....	
25	29.82	29.75	77.0	86.1	96	72	72.0	79	78.0	70	SW	2	W	4	.....	.....	Few ci. cu., w.	7 a. s., sw.....	☐
26	29.81	29.83	80.0	78.8	87	73	78.0	72	76.0	87	NW	4	NW	3	....	.09	10 a. s., nw....	7 s. cu., nw.....	☐
27	29.90	29.84	71.3	74.2	78	70	70.0	94	72.4	92	NE	6	SE	4	T.	.01	10 s., ne.....	10 n., se.....	≡ᵒa.
28	29.76	29.74	75.1	71.8	90	70	73.0	91	70.5	94	SW	4	NE	12	.58	T.	10 s. cu., sw...	10 n., ne.....	☐
29	29.81	29.84	69.1	66.0	75	62	67.0	90	64.5	92	NE	8	NE	10	.84	T.	10 s., ne.....	10 n., ne.....	☐
30	29.84	29.82	61.2	65.0	66	60	60.2	94	63.9	94	E	7	NE	5	.24	.05	10 n., e.....	10 s., ne.....	☐
31	29.83	29.84	64.0	65.7	68	63	63.4	97	63.5	89	NE	5	NE	5	T.	T.	10 n., ne	10 s., ne.....	
Mn	29.90	29.86	68.9	72.6	79.4	64.2	65.6	84.2	68.4	81.2	NE	4.5	SE	4.1	3.68	.84	6.7 s., ne., sw., nw.	5.4 s., nw.....	

WASHINGTON, D. C.

[$\varphi = 38° 54'$ N; $\lambda = 77° 3'$ W; barometer above sea, 112 feet; gravity correction applied $-.02$.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	S. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.90	29.91	64.0	69.5	74	63	62.1	90	65.6	91	NE	6	E	4	T.	.....	10 s., ne	5 s., e	
2	30.00	29.99	66.2	70.3	81	62	64.4	91	68.0	87	N	3	N	2	.....	.....	5 s., w	0	
3	30.06	30.02	66.8	74.7	83	60	64.7	87	70.0	79	NW	1	SE	2	.....	.....	0	0	
4	30.06	29.97	69.1	76.0	85	62	67.0	90	70.0	74	S	1	S	3	.....	.....	Lt. fog, 0	0	
5	29.89	29.82	69.3	74.1	86	65	67.0	89	67.0	69	S	2	NE	6	.....	T.	0	8 s. cu., w	
6	29.96	30.01	62.0	60.1	72	55	56.3	70	54.5	70	N	8	N	6	.....	.....	10 s. cu., nw	10 cl. s., nw	
7	30.10	30.06	57.8	67.1	75	48	53.2	74	58.4	59	N	1	SE	3	.....	.....	Few cl. cu., w	3 s. cu., e	
8	30.10	30.13	67.1	64.4	67	62	61.8	74	62.5	90	E	3	NE	4	.....	0.12	10 s. cu., e	10 n., ne	
9	30.20	30.12	64.8	71.7	74	63	63.5	93	68.0	83	NE	2	E	3	0.01	T.	10 n., ne	10 s., e	
10	30.04	29.96	71.3	77.0	86	69	69.8	93	72.0	79	SE	6	S	6	.....	.....	10 s. cu., se	0	
11	30.04	30.07	72.6	75.1	87	67	69.6	91	72.0	86	S	2	NW	3	.....	T.	7 ci., w	Few a. s., 0	
12	30.15	30.11	71.9	75.4	88	68	69.0	86	71.2	81	NE	7	S	2	.....	.....	1 ci. s., w	0	
13	30.14	30.05	72.3	76.0	87	69	69.2	86	71.2	79	SW	3	S	2	.....	.....	0	0	
14	30.08	30.02	71.2	73.8	85	65	68.6	85	69.6	80	S	4	S	1	.....	.....	0	0	
15	30.07	29.99	73.2	76.1	86	68	71.0	90	71.2	78	S	6	SE	2	.....	.....	10 s. cu., s	0	
16	29.91	29.88	70.4	77.8	87	68	68.2	89	71.0	71	NW	8	SE	6	.....	.....	3 ci. s., w	Few ci., w	
17	29.63	29.81	74.1	67.0	86	60	72.8	94	58.5	60	S	22	NW	12	.09	0.39	10 n., s	10 n., 0	
18	30.06	30.17	54.0	64.1	66	50	49.0	70	50.3	77	NW	6	NW	4	T.	.....	8 ci. s., w	Few ci., w	
19	30.29	30.24	55.2	55.1	68	49	49.7	68	51.7	80	N	4	N	5	.....	.....	0	0	
20	30.25	30.16	55.0	56.3	70	48	51.2	67	53.7	84	N	6	N	4	.....	.....	0	0	
21	30.16	30.08	53.6	60.8	73	45	50.4	80	57.0	70	W	1	NW	1	.....	.....	Lt. smoke, 0	0	
22	30.09	30.04	61.3	68.2	81	53	55.6	70	63.0	73	NW	4	N	6	.....	.....	0	0	
23	29.99	29.74	58.4	65.2	80	54	55.0	81	61.8	83	N	2	W	2	.....	.....	8 ci. s., w	2 ci. s., w	
24	29.68	29.85	62.2	57.2	66	51	58.7	84	50.0	60	NW	7	NW	8	.....	.....	10 a. s., sw	0	
25	30.03	29.99	51.0	55.8	68	45	46.3	70	52.8	82	NW	4	S	3	.....	.....	0	1 ci., w	
26	30.08	29.98	55.0	65.8	75	48	53.0	88	60.6	74	S	1	SE	6	.....	.....	7 ci., w	0	
27	29.87	29.88	68.1	64.8	84	61	66.5	92	60.0	75	S	7	NW	12	.....	.13	10 s. cu., sw	10 s. cu., nw	
28	30.11	30.16	55.0	55.0	64	45	47.5	57	47.0	54	NW	6	NW	7	T.	.....	0	0	
29	30.30	30.27	50.0	51.5	65	43	48.5	58	49.5	87	NW	5	N	2	.....	.....	0	0	
30	30.32	30.25	49.0	60.5	72	42	47.0	86	57.5	84	N	3	S	1	.....	.....	Lt. fog, 0	0	
Mn.	30.05	30.02	63.1	66.5	77.4	56.9	59.7	81.3	61.9	77.0	S NW	4.7	S NW	4.3	.10	.64	4.3 s. cu., w	2.3 ci., s. cu., w	

OCTOBER, 1903.

1	30.21	30.06	58.0	68.3	78	54	53.0	83	61.2	67	SW	7	S	4	.....	.....	2 ci., w	10 cu., w	
2	30.05	30.04	63.1	70.0	80	58	60.0	84	66.0	81	S	3	NW	5	.....	T.	4 ci. cu., nw	4 ci. s., ne	
3	30.15	30.16	64.8	64.5	66	60	63.0	91	61.0	82	NE	7	E	1	T.	T.	10 n., ne	10 s. cu., ne	
4	30.17	30.08	60.5	66.0	74	58	58.0	86	63.0	85	NE	2	S	2	.....	.....	10 s., 0	0	≡°a.
5	30.04	30.02	63.2	67.0	80	61	61.2	89	66.4	97	S	5	SW	2	.....	0.49	1 s. cu., sw	10 n., w	
6	30.05	30.00	65.1	70.2	75	64	64.0	95	67.3	86	NW	3	E	4	T.	.....	10 cu., w	4 ci. s., sw	☂
7	30.01	29.86	67.0	69.2	79	65	65.0	90	64.7	79	SE	4	SE	8	T.	.05	1 s. cu., s	2 ci. s., sw	
8	29.62	29.68	69.0	53.0	69	52	66.0	85	51.9	87	S	9	N	4	.....	1.24	10 s. cu., sw	10 s. cu., n	
9	29.61	29.62	55.5	51.5	62	50	51.0	68	50.5	94	NW	16	N	26	.....	.04	10 a. s., nw	10 n., nw	
10	29.75	29.78	51.2	57.0	59	49	50.1	94	52.5	74	N	24	N	17	0.52	T.	10 n., n	10 s., n	
11	29.76	29.80	51.5	57.0	58	51	51.5	100	54.5	85	N	13	NW	10	.82	.20	10 n., n	10 s., nw	
12	29.84	29.90	53.2	58.0	66	52	51.0	86	52.0	66	NW	9	NW	8	.43	.....	9 cu., nw	0	☂
13	30.00	29.92	49.5	56.7	67	47	46.0	76	54.2	85	NW	12	NW	2	.....	.....	0	0	
14	29.94	29.85	54.0	55.2	71	49	51.0	82	53.1	87	NW	4	0	0	.....	.....	Few cl. s., nw	0	≡°a.
15	29.90	29.87	50.2	60.0	66	45	49.2	93	57.8	88	NW	4	E	2	.....	.....	3 cl. s., nw	0	≡°a.
16	29.91	29.84	60.0	65.0	70	54	58.5	91	63.2	91	SE	2	S	4	.....	.....	10 s., se	10 a. s., 0 (?)	
17	29.76	29.52	64.0	58.8	65	54	63.2	96	57.8	94	SE	6	NW	5	.06	.57	10 n., se	10 n., 0	
18	29.79	29.98	49.2	48.0	55	39	46.7	83	45.0	79	NW	13	SW	3	.02	.....	Few cu., nw	0	
19	30.07	29.94	44.0	53.8	62	37	42.5	89	47.8	64	S	2	S	4	.....	.....	Few ci. cu., w	0	
20	29.89	29.82	48.0	58.0	74	43	45.5	83	54.0	77	S	2	S	1	.....	.....	1 ci. s., sw	0	
21	30.00	30.09	52.5	52.5	70	46	49.5	81	50.0	84	NW	1	SE	1	.....	.....	Lt. fog, 0	0	
22	30.18	29.93	45.0	59.2	68	42	44.0	93	55.4	79	NE	2	SE	6	.....	.....	Lt. fog, 0	0	
23	29.81	29.93	58.3	52.2	58	46	56.8	91	44.3	52	SW	4	NW	12	.....	.04	9 cu., w	10 s., nw	
24	30.00	29.92	44.8	48.5	49	40	40.0	65	38.5	63	N	8	N	9	.....	.....	10 s., nw	6 a. s., nw	
25	29.88	29.77	38.8	53.0	57	37	35.9	69	44.5	50	NW	6	W	6	.....	.....	10 s. cu., nw	0	
26	29.90	30.15	49.0	41.0	50	39	43.0	61	36.0	61	NW	9	NW	12	.....	.....	1 ci. s., nw	0	☾°
27	30.26	30.19	37.5	40.3	50	33	34.0	70	37.8	79	S	2	NW	1	.....	.....	2 s. cu., nw	0	☾°
28	30.13	30.07	41.3	54.3	64	33	36.2	60	43.8	40	SW	3	W	4	.....	.....	Few ci. s., sw	0	
29	30.17	30.07	40.0	56.0	69	36	37.0	75	45.5	42	SW	2	SW	1	.....	.....	0	0	≡°a.
30	30.15	30.12	40.0	57.3	74	35	38.0	83	48.3	50	SW	1	S	1	.....	.....	Few ci. cu., sw	8 a. s., 0	≡°a. ○○p.
31	30.14	30.11	43.0	52.8	70	40	41.0	85	49.0	76	NW	4	S	3	.....	.....	4 ci. cu., sw	3 ci. cu., sw	
Mn.	29.97	29.94	52.6	57.1	66.3	47.4	50.0	83.1	52.8	75	NW	6.1	NW	5.4	1.85	2.63	4.7 ci. s., s. cu., nw.	4.1 s., a. s., ci. s., nw	

WASHINGTON, D. C.

[φ=38° 54′ N; λ=77° 3′ W; barometer above sea, 112 feet; gravity correction applied, −.02.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.15	30.11	50.7	54.0	72	43	45.2	65	50.5	79	W	3	NW	1	.....	.....	2 ci. s., w	Lt. haze	○○ᵒa.
2	30.12	30.06	49.0	54.8	70	45	47.0	86	51.2	78	N	2	S	1	.....	.....	7 cu., nw	Lt. haze	○○ᵒa.
3	30.10	30.03	47.0	53.8	73	43	46.0	93	50.3	79	SW	2	NW	2	.....	.....	Lt. fog, 0	Few s. cu., w	☾
4	30.06	29.79	44.0	62.0	72	41	43.0	93	57.5	76	W	2	SE	2	.....	.....	Lt. fog, 0	8 ci. s., sw	
5	29.56	29.56	60.8	57.0	72	45	59.2	91	52.5	74	SW	5	NW	12	0.35	T.	10 s. cu., sw	10 s. cu., nw	
6	29.87	30.06	37.0	36.0	45	33	34.0	74	32.0	64	NW	12	NW	10	.04	T.	2 s. cu., nw	0	☾ ✱
7	30.24	30.20	29.5	39.0	44	28	27.5	78	35.0	67	NW	9	NW	6	.....	.....	Few s. cu., nw	2 a. s., nw	
8	30.29	30.22	31.0	39.5	53	29	30.0	89	36.0	71	SW	2	S	3	.....	.....	0	0	
9	30.22	30.04	30.0	44.8	59	27	29.0	89	40.8	71	S	2	SE	2	.....	.....	Lt. fog, 0	0	
10	29.95	29.83	36.0	47.8	66	34	35.0	91	44.2	75	W	1	S	1	.....	.....	5 ci. s., nw	0	≡ᵒa.
11	29.89	29.69	36.2	55.2	64	33	35.2	91	48.0	58	W	2	SE	3	.....	.....	Lt. fog, 0	5 a. s., 0	
12	29.91	29.90	42.8	41.5	56	37	38.2	65	38.0	72	NW	4	NE	1	T.	.....	0	0	
13	29.90	29.96	36.5	54.0	63	34	35.0	86	46.5	56	E	1	NE	2	.....	.....	1 ci. s., sw	6 a. s., 0	≡ᵒa. ⊕
14	30.00	30.08	43.3	44.0	52	35	41.2	84	41.0	78	N	4	NW	3	.06	.....	10 s., nw	0	
15	30.19	30.10	33.0	46.0	57	31	32.0	90	39.5	55	NW	1	SE	1	.....	.....	8 ci. cu., sw	0	
16	29.90	29.76	51.0	62.0	70	40	47.0	75	60.0	89	S	5	S	12	.01	0.05	9 cu., sw	10 s., sw	
17	29.67	29.84	64.0	48.0	66	44	61.4	86	43.5	69	S	12	NW	18	.01	.22	10 s., sw	10 s., nw	
18	30.01	30.23	40.0	27.0	44	24	35.5	64	23.0	52	NW	15	NW	16	.....	.....	10 s. cu., nw	0	
19	30.36	30.40	25.5	31.5	36	24	22.0	56	26.5	48	NW	14	NW	5	.....	.....	0	0	
20	30.57	30.58	25.2	29.0	37	23	22.7	68	26.3	68	NW	6	N	5	.....	.....	0	0	⊕
21	30.60	30.38	23.2	33.5	40	22	21.2	72	30.5	70	N	5	NE	4	.....	.....	8 ci. s., nw	3 a. s., 0	
22	30.21	30.05	35.0	36.5	50	31	32.5	77	34.0	78	N	2	SE	2	.....	.....	9 s. cu., sw	0	
23	29.90	29.61	31.8	44.5	52	27	31.3	95	41.5	78	SE	1	W	2	.....	T.	D. fog, 0	0	
24	29.82	29.98	40.5	35.3	51	35	36.0	64	32.8	77	W	12	NW	8	.....	.....	6 s. cu., nw	3 cu., nw	
25	30.04	29.99	30.0	29.5	35	24	27.0	67	26.0	61	NW	8	N	6	.....	.....	10 ci. cu., nw	8 a. cu., nw	
26	30.00	30.00	23.3	25.0	33	19	22.3	86	22.0	62	N	1	N	3	.....	T.	10 s. cu., nw	0	≡ᵒa. ✱
27	30.08	29.95	19.2	28.7	30	18	17.2	69	24.5	53	NW	8	NW	12	.....	T.	7 cu., nw	0	✱
28	29.86	29.66	21.8	29.0	32	21	19.0	61	25.0	55	W	10	SE	6	.....	.....	0	0	✱✱
29	29.59	29.68	25.0	27.0	30	24	24.5	94	25.5	82	W	3	NW	2	.05	.01	10 n., nw	10 s. cu., nw	
30	29.81	30.00	25.0	31.0	38	23	24.5	94	28.0	68	W	1	NW	6	.....	.....	1 s. cu., nw	0	≡ᵒa.
Mn.	30.03	29.99	36.2	41.6	52.1	31.2	34.1	79.8	37.7	68.8	NW	5.2	NW	5.2	.52	.28	4.5 s. cu., nw.	2.3 a. s., nw	

DECEMBER, 1903.

1	30.17	30.13	20.2	28.5	38	18	19.6	91	26.0	72	NW	1	NE	4	.....	.....	Lt. fog, 0	4 ci. s., w	☾
2	30.08	29.98	27.5	31.1	36	26	25.4	75	30.0	88	NE	4	NW	12	.....	T.	10 cu., sw	10 n., nw	Lt. smoke, a. ✱
3	29.92	29.96	30.0	34.4	38	29	28.0	78	32.0	77	NW	10	N	4	0.01	T.	10 s., nw	8 s. cu., n	✱
4	30.06	30.04	29.2	40.5	46	26	26.7	72	35.2	58	NW	6	S	5	.....	.....	Lt. smoke, 0	10 s., sw	
5	30.04	30.06	37.5	38.0	48	32	34.0	70	32.5	54	SW	3	NW	2	.....	.....	3 cu., sw	4 ci. s., nw	
6	30.11	30.07	29.2	31.5	37	28	26.1	65	28.0	64	W	4	W	6	.....	.....	1 s. cu., nw	0	
7	30.02	29.84	25.5	40.0	47	25	24.0	81	34.0	52	S	2	S	2	.....	.....	0	0	
8	29.98	29.87	24.0	40.0	48	22	23.0	87	35.0	60	NW	3	NE	6	.....	.....	Few ci. s., nw	5 a. s., 0 (?)	≡ᵒa. ⊕
9	29.62	29.33	35.8	32.5	38	32	33.0	74	31.5	90	NE	6	NW	12	T.	0.18	10 s., 0	3 s., nw	✱
10	29.52	29.62	30.0	30.0	41	28	28.5	83	29.0	89	SW	1	NW	18	.....	.04	Lt. fog, 0	10 n., nw	✱
11	29.95	30.15	23.0	29.5	36	22	22.0	86	28.0	83	SW	2	SW	2	.02	.....	1 ci. s., nw	0	
12	30.26	30.06	24.2	44.0	46	19	23.2	87	38.0	56	SW	1	S	12	.....	.....	Few ci. s., sw	10 s., s	≡ᵒa.
13	29.69	30.17	50.2	33.3	51	30	49.7	96	30.2	69	SW	15	NW	5	.21	.04	10 n., s	0	
14	30.36	30.29	26.7	30.0	37	26	22.2	46	25.0	46	NW	6	NW	6	.....	.....	9 a. s., nw	0	
15	30.22	30.17	25.8	28.0	33	22	22.7	62	23.0	43	N	2	NW	8	.....	.....	9 ci. cu., w	0	
16	30.10	29.96	22.8	28.0	30	20	19.3	52	24.5	59	NW	4	W	5	.....	.....	10 a. s., nw	0	
17	30.12	30.10	20.0	27.2	31	19	17.5	62	23.7	58	NW	5	NW	3	.....	.....	0	0	
18	30.25	30.38	21.5	29.7	36	20	18.5	57	26.0	59	NW	9	N	4	.....	.....	5 ci. s., w	0	
19	30.48	30.20	20.0	34.2	35	19	18.1	71	31.0	69	E	4	SE	4	.....	.....	5 a. s., nw	10 s., 0	✱
20	29.67	29.47	35.5	42.0	49	32	35.0	95	37.5	65	W	10	NW	16	.70	.49	10 n., w	0	
21	29.88	29.76	35.4	42.0	42	35	32.0	68	37.0	62	W	12	S	8	.....	.....	Few cu., nw	10 s., sw	
22	29.77	30.06	42.5	35.5	43	33	36.4	54	31.0	59	NW	9	NW	5	.....	.....	3 cu., nw	0	
23	30.24	30.18	27.3	39.0	47	25	25.8	82	33.5	42	W	2	S	4	.....	.....	0	0	
24	30.09	29.78	38.0	41.0	45	36	35.5	62	36.2	63	S	5	S	10	.....	.03	10 s. cu., sw	1 s., w	
25	29.59	29.44	40.0	37.0	42	34	39.0	92	36.3	93	NW	1	N	2	.02	.13	10 n., sw	Few a. cu., nw	≡ᵒa.
26	29.60	30.00	24.8	14.2	37	12	21.3	55	11.1	42	NW	24	NW	12	.....	.....	Few cu., nw	0	
27	29.81	29.66	16.5	37.0	40	12	14.0	58	32.0	57	S	12	SW	4	.....	.....	9 a. s., w	9 cu., w	
28	30.05	30.17	21.0	21.5	40	16	17.5	49	18.0	50	N	9	N	2	.....	.....	Few a. s., nw	3 ci. s., nw	☾
29	29.98	29.93	26.0	35.0	41	16	24.0	75	31.0	63	E	4	NW	4	.....	.....	9 s. cu., s	2 cu., nw	☾
30	30.00	30.11	25.5	24.0	32	21	21.5	50	20.5	54	NW	12	NW	2	.02	.....	Few s., nw	10 ci. s., 0	✱☾
31	30.04	29.94	15.5	28.0	37	13	14.8	88	26.0	76	NW	1	S	1	.....	.....	Lt. fog, 0	0	
Mn.	29.99	29.96	28.1	33.1	40.2	24.1	25.7	71.7	29.4	63.6	NW	6.1	NW	6.1	.98	.91	4.3 a. s., cu., nw	3.5 s., nw	

SAVANNAH, GA.

[φ=32° 05′ N; λ=81° 5′ W; barometer above sea, 65 feet; gravity correction applied, −.03.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.12	30.05	46.0	55.5	57	45	42.0	72	53.0	85	N	10	NE	8	.....	.....	10 a. s., 0 (?)	10 s., ne	
2	29.90	29.78	59.0	66.0	72	55	58.5	97	64.5	92	NE	6	SW	7	0.05	0.57	D. fog, ne	10 s., sw	
3	29.81	29.77	60.0	57.2	65	52	56.2	74	52.5	73	W	7	W	5	.01	.....	10 a. s., sw	10 s., w	
4	29.67	29.77	48.0	50.0	52	48	47.5	96	44.5	64	NW	3	NW	10	.63	.10	10 n., nw	10 s., nw	
5	29.88	29.72	44.8	47.8	49	45	41.0	72	45.5	84	W	6	W	5	.....	T.	10 s., w	10 n., w	
6	29.84	29.99	40.2	39.0	46	37	35.0	59	34.9	67	W	18	W	9	.19	.....	10 s. cu., w	0	
7	29.88	29.49	35.8	63.7	67	34	32.3	68	55.1	57	SW	12	W	16	.....	.....	0	5 s. cu., w	
8	29.80	29.95	40.0	38.4	51	37	34.4	56	33.0	55	NW	20	W	9	.....	.....	9 s. cu., nw	0	
9	30.12	30.04	31.0	45.0	51	31	28.0	68	37.0	44	W	8	SW	9	.....	.....	Lt. smoke, w	Few ci., w	
10	30.13	30.06	37.1	47.2	54	36	31.1	48	43.0	71	W	6	E	6	.....	.....	6 ci. s., w	9 a. s., w	≡°a.
11	29.77	29.81	60.0	60.7	64	48	60.0	100	59.0	91	SW	14	W	7	.55	.27	10 n., sw	8 s. cu., w	
12	30.12	30.28	38.0	36.3	56	32	34.0	66	30.8	51	NW	10	NW	7	.....	.....	7 a. cu., w	0	
13	30.39	30.38	27.0	36.5	42	27	24.0	64	32.5	64	NW	4	SE	4	.....	.....	3 ci. s., 0 (?)	10 s., w	
14	30.37	30.31	35.0	44.0	46	34	31.0	63	39.3	65	NE	4	N	7	.....	.....	10 a. s., w	10 s., 0 (?)	
15	30.21	30.12	41.9	51.2	56	40	35.9	55	44.7	59	N	3	W	7	.....	.....	10 s., w	0	
16	30.13	30.00	39.1	49.2	61	39	35.5	71	44.9	71	W	5	SW	8	.....	.....	2 ci., w	10 s., 0 (?)	≡°a.
17	29.82	29.80	44.1	53.3	59	42	43.6	96	50.8	84	SE	4	W	4	.50	.02	10 n., se	0	
18	29.87	30.01	47.5	51.0	57	46	47.0	96	44.5	59	NW	3	NE	9	T.	.....	10 a. s., w	0	≡°a.
19	30.16	30.15	37.0	39.8	46	37	31.0	48	36.3	71	NE	12	NE	13	.....	T.	0	10 s., ne	
20	30.00	29.88	35.2	39.0	40	35	35.0	98	38.6	97	N	12	N	13	T.	.01	10 n., n	10 s., n	
21	29.84	29.91	39.3	49.8	60	38	38.8	96	48.6	92	W	4	SW	7	.23	T.	10 s. cu., w	2 s., sw	≡°a.
22	30.06	30.12	47.3	49.8	57	45	45.3	86	45.0	70	W	8	W	5	.21	.....	10 s. cu., w	0	
23	30.22	30.12	39.1	47.8	59	39	37.2	83	43.8	73	N	5	SW	7	.....	.....	Lt. fog, n	0	
24	29.99	29.92	47.0	50.0	56	42	44.0	79	49.2	94	S	6	E	5	.....	.04	10 a. s., sw	10 s., e	≡°a.
25	30.08	30.10	47.8	50.5	60	48	47.5	98	49.5	87	NE	7	E	7	T.	.....	10 a. s., 0 (?)	10 s., e	≡°a.
26	30.18	30.18	44.8	54.8	56	45	43.8	93	53.0	89	NE	10	NE	7	.....	.....	10 a. s., sw	10 s., ne	
27	30.12	30.07	55.0	65.0	66	53	55.0	100	68.5	92	NE	6	NW	5	.26	T.	10 s., ne	10 n., nw	≡°a.
28	30.06	30.00	59.6	58.3	68	56	59.6	100	58.3	100	N	2	SE	4	T.	T.	D. fog, n	D. fog, se	
29	29.99	29.87	57.8	65.2	78	56	57.8	100	62.2	83	SW	6	SW	10	.....	.....	5 a. cu., w	0	
30	29.89	30.18	64.1	52.7	70	47	61.5	87	43.2	44	W	12	W	5	.....	.....	8 ci. s., w	0	
31	30.29	30.23	38.8	48.8	63	39	33.1	53	44.0	68	N	6	S	5	.....	.....	5 ci., w	0	
Mn	30.02	30.00	44.8	50.4	57.5	42.2	42.1	78.8	46.6	74.1	W	7.7	W	7.4	2.63	1.01	7.0 a. s., w	5.3 s., w	

FEBRUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.13	30.08	53.9	61.5	72	48	50.8	82	57.0	76	SW	8	SW	7	.....	.....	6 ci. s., w	0	
2	30.07	30.02	59.2	58.3	68	57	55.5	80	57.8	97	SW	3	SE	7	.....	0.24	10 a. s., w	10 n., se	Lt. smoke, a.
3	29.96	29.85	56.2	61.0	63	55	56.2	100	61.0	100	N	2	SW	7	0.08	.02	D. fog, n	D. fog, sw	
4	29.71	29.75	66.7	62.0	71	57	64.2	87	58.0	79	SW	18	W	14	.01	.09	10 a. s., w	9 s. cu., w	
5	30.04	30.17	41.1	46.8	57	41	34.0	46	39.7	52	NW	18	W	3	.....	.....	7 ci. s., w	0	
6	30.31	30.22	42.1	48.8	53	41	38.0	69	43.2	63	N	6	NE	10	.....	.....	10 a. s., w	10 a. s., sw	
7	30.12	29.96	51.3	50.2	70	48	50.0	92	49.8	97	E	9	N	5	T.	.02	10 n., s	10 s. cu., sw	
8	29.79	29.97	64.5	58.2	66	51	63.0	92	52.2	66	SW	14	NW	9	.02	.11	10 s., sw	10 a. cu., sw	
9	30.17	30.20	41.7	49.2	59	42	39.0	79	45.2	73	NW	5	SE	3	.02	.....	2 ci. s., 0 (?)	0	
10	30.21	30.07	47.6	55.0	64	46	44.9	81	52.0	82	NE	6	E	14	.....	.....	10 a. s., w	10 a. cu., sw	
11	29.80	29.85	64.0	59.8	67	56	63.0	95	56.5	82	SW	16	W	14	.....	.75	10 s. cu., sw	10 s., w	⊓
12	30.05	30.04	49.0	55.0	64	49	48.0	93	50.5	73	N	3	S	4	.....	.....	Lt. fog, n	0	
13	30.14	30.12	49.8	58.0	71	48	48.0	87	54.5	80	N	2	S	4	.....	.....	1 ci., w	0	≡°a.
14	30.13	30.10	58.4	62.6	72	56	54.1	76	61.0	91	N	6	SE	5	.05	.01	10 a. cu., w	5 a. cu., w	
15	30.02	29.84	61.0	66.0	79	61	61.0	100	63.0	83	S	2	SW	12	.....	.....	D. fog., s	0	
16	29.62	29.33	63.0	65.5	80	53	62.1	95	58.0	64	SW	8	W	48	.....	.12	10 s. cu., sw	10 s. cu., w	
17	29.86	30.17	32.3	31.8	53	30	28.0	56	27.8	59	W	18	NW	12	.....	.....	1 s. cu., w	0	
18	30.35	30.30	26.2	48.8	54	26	24.0	74	40.2	43	NW	5	W	6	.....	.....	1 ci. s., 0 (?)	0	
19	30.48	30.45	36.2	40.5	47	36	30.3	46	36.5	68	N	10	SE	6	.....	.....	7 ci. s., w	0	
20	30.44	30.33	36.0	47.5	54	36	33.5	77	44.0	76	N	5	E	7	.....	.....	7 ci. s., w	10 s., e	
21	30.18	30.10	42.0	49.8	51	41	40.5	88	43.3	58	NE	13	NW	7	.31	.06	10 n., sw	Lt. smoke, nw	
22	30.33	30.46	40.8	45.3	54	40	36.9	69	42.0	76	NE	15	E	6	.....	.....	0	0	
23	30.46	30.26	42.0	52.0	54	41	38.8	75	48.2	76	NE	8	NE	8	.....	.....	10 a. s., sw	10 s., ne	⊕
24	30.17	30.12	46.5	54.6	67	46	42.9	76	49.8	71	N	6	SE	4	.....	.....	6 ci. s., sw	0	
25	30.24	30.32	48.2	49.8	57	47	45.0	78	47.0	81	N	6	NE	12	.....	.....	10 ci. s., w	0	≡°a.
26	30.31	30.24	50.8	60.1	67	49	48.5	85	55.7	76	E	12	E	14	.....	.....	10 ci. s., sw	8 s., e	
27	30.02	29.91	61.2	68.2	78	58	61.0	99	67.0	94	SE	20	SW	18	.92	.87	10 n., se	8 s. cu., sw	
28	29.84	29.96	67.0	67.0	72	62	65.1	90	64.0	85	SW	23	SW	8	.04	.24	9 a. cu., w	0	
Mn	30.10	30.08	50.0	54.8	63.5	47.2	47.4	80.9	50.9	75.8	N	9.5	se sw w	9.8	1.45	2.63	6.7 ci. s., w	4.3 s., s. cu., sw	

SAVANNAH, GA.

[φ=32° 05′ N; λ=81° 5′ W; barometer above sea, 65 feet; gravity correction applied −.03.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.13	30.21	55.0	60.3	69	53	49.4	68	52.0	56	NW	4	NE	8	T.	.....	10 a. cu., w	0	
2	30.33	30.30	46.3	53.0	60	45	39.8	55	50.5	90	NE	9	SE	7	.....	.....	3 ci. s., w	8 s., se	
3	30.37	30.34	48.0	54.0	62	47	47.5	63	49.0	70	NE	7	E	4	T.	T.	2 ci. s., w	10 s., e	
4	30.30	30.28	50.0	51.0	55	50	50.0	100	50.5	97	NE	10	NE	10	0.37	0.95	10 n., se	10 n., ne	
5	30.20	30.17	51.2	61.5	70	51	51.2	100	60.0	92	N	6	E	4	.01	.....	D. fog, n	10 s., e	
6	30.18	30.18	57.0	63.0	72	56	57.0	100	62.0	95	SE	2	SE	5	.03	.....	Lt. fog, se	0	⊕☋
7	30.18	30.18	57.8	61.9	73	56	57.8	100	60.9	94	SE	6	SE	5	.....	.....	D. fog, se	8 ci., w	☋
8	30.18	30.12	63.2	65.0	77	60	62.8	98	64.0	95	S	5	S	7	.....	.....	2 ci. s., 0 (?)	7 ci., w	☋
9	30.16	30.16	63.0	65.0	72	62	62.1	95	63.6	98	S	4	S	5	.....	.01	10 a. cu., w	Few ci., 0 (?)	
10	30.23	30.23	63.0	66.8	77	61	62.5	97	63.3	92	S	4	S	5	.01	.....	5 s. cu., s	0	⊕
11	30.23	30.17	62.0	65.0	76	60	60.2	89	62.0	85	S	2	S	7	.....	.....	7 s. cu., s	0	
12	30.14	30.08	62.6	66.8	75	61	60.0	86	62.4	76	SW	1	SE	4	.....	.....	10 a. cu., n	10 s. cu., se	Lt. smoke, a.
13	30.09	30.08	59.0	61.5	65	59	58.0	94	57.7	80	NE	6	E	4	.....	.....	10 s., 0 (?)	10 s. cu., e	
14	30.06	30.03	58.4	62.3	63	58	57.9	97	60.9	93	NE	8	E	8	.02	.10	10 n., ne	10 s., e	
15	30.06	30.04	61.0	64.0	72	61	60.0	94	62.0	90	E	6	E	7	T.	.01	10 a. cu., se	7 s., e	
16	30.05	30.03	62.9	65.0	71	62	61.9	95	63.0	90	E	8	E	10	.....	.25	9 a. cu., s	8 s. cu., e	
17	30.04	30.06	62.5	63.0	70	62	62.1	98	61.3	91	E	7	E	8	.....	.....	10 s., e	0	
18	30.09	30.12	61.9	64.0	73	62	60.4	92	62.5	92	NE	8	E	8	.....	.....	10 s., ne	0	
19	30.18	30.12	64.0	66.0	76	63	63.0	95	64.5	92	NE	8	E	6	.....	T.	10 s. cu., ne	0	
20	30.11	29.99	66.1	67.3	77	64	65.0	95	65.0	88	N	2	SE	5	.....	.....	10 s. cu., se	0	
21	29.96	29.90	68.6	69.3	78	66	66.7	90	67.3	90	SW	8	S	10	.....	.03	2 a. cu., sw	9 s. cu., s	⚐
22	29.89	29.78	67.9	71.4	78	66	66.0	90	68.0	84	SW	5	S	14	.01	.....	10 s. cu., sw	0	
23	29.81	29.91	66.0	68.7	81	66	65.2	96	66.1	87	SW	8	SW	8	.39	.....	10 a. s., w	0	
24	29.97	29.97	66.9	68.8	78	60	62.8	80	57.8	55	N	8	NW	8	.....	T.	7 a. cu., sw	9 a. s., w	
25	30.08	30.05	54.2	58.0	64	53	44.2	42	48.0	46	N	8	N	9	.....	.....	10 a. s., sw	0	
26	30.19	30.16	50.0	56.6	64	47	42.5	52	50.0	62	NE	12	E	8	.....	.....	0	0	
27	30.14	30.06	53.3	61.0	71	51	50.0	80	57.0	78	NE	8	SE	5	.....	.....	4 ci. cu., w	0	
28	30.04	29.95	59.3	64.5	74	57	57.3	89	61.5	84	N	2	SE	5	.....	.....	3 a. cu., w	10 s., 0 (?)	
29	29.82	29.62	61.7	55.0	63	53	60.0	90	54.7	98	E	12	NE	12	.79	2.48	10 n., e	10 n., ne	
30	29.66	29.76	56.3	55.0	59	53	53.3	82	50.5	73	W	18	W	9	.07	.....	7 s. cu., w	10 s., w	
31	29.86	29.89	52.2	65.0	69	52	47.7	72	55.5	54	W	14	NW	3	.....	.....	Few s. cu., w	0	
Mn	30.09	30.06	59.1	62.6	70.5	57.3	56.9	86.3	59.1	82.3	NE	7.0	E	7.0	1.70	3.83	6.5 a. cu., w	4.7 s., e	

APRIL, 1903.

1	30.08	30.00	56.5	64.0	76	55	52.0	73	58.5	72	NW	4	S	5	.....	.....	Lt. smoke, nw	0	
2	30.07	29.97	60.6	67.1	77	58	54.9	70	60.0	66	SW	5	SW	6	.....	.....	Lt. smoke, sw	0	
3	29.92	29.75	64.1	67.4	78	62	60.1	79	62.4	75	SW	12	SW	14	.....	.....	3 ci., nw	9 ci., w	
4	29.83	30.00	47.2	56.0	69	47	42.0	66	45.7	42	NW	22	N	12	0.09	.....	2 s. cu., nw	0	
5	30.24	30.25	45.0	51.2	55	45	39.0	67	47.1	75	NE	14	NE	10	.....	.....	1 ci., 0 (?)	10 a. cu., w	
6	30.24	30.15	55.7	63.4	71	52	53.4	86	60.0	82	N	6	S	8	.....	.....	8 a. cu., nw	10 ci. s., w	☋
7	30.14	30.05	61.4	67.0	75	60	59.9	92	62.4	78	S	4	S	9	.....	.....	6 a. cu., w	10 a. s., w	☰a.
8	29.96	29.91	67.0	69.1	74	62	62.0	75	64.5	79	SW	14	SW	6	.01	0.13	6 ci. s., w	9 a. s., w	
9	30.06	30.03	60.8	62.3	71	59	53.2	61	59.2	84	NE	10	SE	2	.....	.....	0	0	
10	30.07	30.02	57.9	68.0	81	55	56.0	88	58.2	55	W	4	S	7	.....	.....	Lt. smoke, w	8 ci. s., 0 (?)	☋
11	30.06	30.00	64.2	67.4	76	61	61.5	86	63.3	80	0	0	S	5	.....	.....	10 a. s., 0 (?)	7 a. cu., nw	Lt. smoke, a.
12	29.97	29.78	66.1	69.1	78	63	62.0	80	63.7	79	SW	8	SW	13	.....	T.	9 a. cu., w	10 a. s., w	
13	29.66	29.51	67.9	64.0	77	64	64.4	83	63.0	95	SW	12	SW	8	.....	.77	8 ci. s., nw	5 s. cu., sw	⚐
14	29.40	29.52	66.0	60.5	71	56	64.1	90	52.0	56	W	14	W	18	.....	T.	10 s. cu., w	6 s. cu., w	
15	29.61	29.61	53.3	56.1	59	50	47.3	63	49.0	60	W	12	NW	8	.....	.....	10 s. cu., w	10 s. cu., nw	
16	29.67	29.66	48.8	60.8	67	45	45.0	74	52.2	55	W	12	W	8	.....	.....	0	10 s. cu., w	
17	29.77	29.82	58.6	61.0	66	51	49.0	69	53.5	61	N	10	N	5	.....	.....	Few a. cu., 0 (?)	0	
18	29.94	29.89	54.0	62.0	73	48	49.1	70	55.0	64	N	6	SW	12	.....	.....	0	Few a. s., 0	
19	29.93	29.78	60.8	67.0	73	57	56.2	76	61.5	78	SW	9	SW	8	.....	T.	10 a. cu., sw	8 s. cu., sw	⚐
20	29.86	29.56	62.6	72.7	79	57	61.6	96	60.0	47	SW	12	NW	8	.53	T.	10 a. cu., w	7 s. cu., s	
21	29.68	29.70	61.0	68.8	75	58	55.8	73	55.3	41	NW	12	N	4	.....	.....	0	5 s. cu., 0	
22	29.72	29.78	57.0	63.1	74	53	49.0	55	49.1	33	W	8	N	12	.....	.....	0	0	
23	29.91	29.99	49.5	59.3	65	46	44.0	64	51.3	57	N	6	NE	8	.....	.....	0	10 s. cu., se	
24	30.14	30.06	52.2	60.0	67	50	47.1	69	54.0	62	NE	8	S	7	.....	.....	0	0	
25	30.04	29.86	56.2	66.8	75	52	51.2	71	58.8	62	SW	8	SW	12	.....	.....	0	0	
26	29.84	29.84	60.5	60.0	68	56	56.8	80	50.0	48	SW	10	NW	9	.....	T.	6 a. cu., w	2 s. cu., sw	∞°a.
27	30.02	30.15	56.7	66.9	72	50	52.2	74	56.9	53	N	18	NE	4	.....	.....	1 s. cu., n	0	
28	30.31	30.28	57.0	65.8	75	53	54.0	82	52.3	38	N	7	SW	4	.....	.....	Few ci. cu., 0 (?)	0	
29	30.29	30.16	58.0	68.2	80	55	52.0	66	56.2	46	SW	6	SW	9	.....	.....	Lt. haze	0	
30	30.15	30.00	62.3	68.2	83	57	56.7	71	61.0	66	W	11	SW	12	.....	.....	3 ci. s., w	1 s. cu., sw	
Mn	29.94	29.90	58.1	64.1	72.7	54.6	53.7	74.6	56.5	63.0	SW	9.5	SW	8.4	.63	.90	3.4 a. cu., w	4.6 s. cu., w	

SAVANNAH, GA.

[φ=32° 05′ N; λ=81° 5′ W; barometer above sea, 65 feet; gravity correction applied −.03.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.03	30.08	65.0	65.0	71	64	59.0	70	63.0	90	NW	4	SW	2	....	0.03	10 a. s., w	8 s. cu., sw	
2	30.16	30.12	60.2	62.0	65	60	57.2	78	59.0	84	NE	10	E	10	....	....	10 s., e	10 s. cu., e	
3	30.09	30.01	61.2	65.0	72	59	60.0	93	63.0	90	NE	4	SE	6	....	....	10 s. cu., ne	1 a. s., 0	
4	30.03	29.95	63.2	68.0	82	59	62.2	95	66.0	90	SW	3	SE	4	....	T.	6 cu., w	8 s. cu., sw	≡°a. ⌐◪
5	30.02	30.04	64.5	65.2	74	62	63.0	92	62.2	85	NE	8	E	8	....	....	10 s. cu., ne	1 a. s., 0	
6	30.06	30.01	66.8	68.0	75	62	64.0	86	64.0	80	E	7	E	9	....	....	10 a. s., sw	10 a. s., sw	
7	29.98	29.89	63.7	64.0	69	62	62.2	92	63.0	95	SE	7	E	12	0.42	.21	10 n., sw	10 n., e	
8	29.78	29.71	61.2	60.8	64	59	60.0	93	60.3	97	E	15	NE	30	.34	2.10	10 n., e	10 n., ne	
9	29.71	29.69	60.0	62.2	65	60	59.0	94	59.7	86	NE	18	NE	32	.28	.14	10 n., ne	10 n., ne	
10	29.79	29.90	61.2	65.7	66	61	61.2	100	62.0	82	NE	22	NE	10	.56	.63	10 n., ne	10 n., ne	
11	29.97	29.98	65.2	66.0	74	63	63.0	89	64.2	90	NE	13	E	8	T.	....	7 s. cu., ne	5 ci. s., 0 (?)	
12	29.99	29.97	67.0	69.0	75	65	64.8	90	65.7	84	NE	9	E	15	....	....	10 a. cu., sw	10 a. s., 0 (?)	
13	29.98	29.91	66.1	69.0	73	66	65.0	95	65.6	83	E	9	E	12	.25	T.	10 n., e	10 n., e	
14	29.85	29.73	67.8	67.7	70	66	65.0	86	66.0	91	E	15	E	9	.01	.14	10 s. cu., e	10 n., e	
15	29.69	29.76	67.0	68.0	69	61	66.0	95	64.0	80	N	5	NE	5	.15	.54	10 n., e	10 s. cu., ne	⌐◪
16	29.89	29.98	67.1	69.0	75	62	64.0	90	64.0	76	NE	9	NE	12	....	....	0	3 a. s., sw	
17	30.10	30.10	68.9	69.1	77	64	64.0	76	65.0	81	E	10	E	5	....	....	0	0	
18	30.11	30.04	66.1	70.0	80	64	65.0	95	62.8	67	NE	8	S	5	....	....	2 ci. s., 0 (?)	1 ci., c (?)	∞°a.
19	30.07	30.02	65.8	72.2	83	61	63.8	90	64.8	67	W	5	S	8	....	....	Lt. smoke, w	0	
20	30.10	30.04	69.0	73.5	87	64	65.0	81	67.0	71	W	7	SW	6	....	....	0	3 ci., 0 (?)	
21	30.06	30.01	70.0	74.5	88	66	66.1	81	70.0	80	W	10	SW	10	....	....	2 a. cu., e	2 a. s., ne	
22	30.07	29.99	72.1	78.0	90	69	67.2	77	72.0	75	W	9	SW	9	....	....	3 a. cu., ne	1 cu., n	
23	30.03	29.94	74.0	81.5	94	71	67.0	69	72.0	63	W	9	SW	9	....	....	0	Few a. s., sw	
24	30.01	29.95	78.0	82.5	96	74	70.3	68	70.6	56	W	5	SW	9	....	....	0	0	
25	30.02	30.01	77.8	80.6	93	75	70.8	71	74.0	74	W	6	SW	5	....	T.	0	10 s. cu., nw	⌐◪
26	30.09	30.08	75.0	76.4	85	72	70.0	78	74.0	89	NE	5	SE	8	.50	....	5 a. cu., w	10 a. s., n	⌐◪
27	30.13	30.11	75.5	75.0	81	74	71.9	84	70.3	79	S	10	SE	5	....	....	7 cu., s	10 s. cu., nw	
28	30.11	30.05	76.0	74.9	82	72	71.0	78	69.1	75	S	6	S	6	....	....	4 ci. s., sw	10 s., 0 (?)	
29	30.08	30.01	75.0	74.5	81	71	68.5	72	70.0	80	S	12	SE	4	....	....	9 a. cu., sw	3 ci., s	
30	30.03	29.94	75.1	75.0	83	71	70.0	78	69.0	74	S	4	S	8	....	....	4 a. cu., ne	9 a. s., sw	
31	29.95	29.91	76.0	74.0	83	71	69.1	70	68.0	74	S	6	SE	6	....	....	2 s. cu., s	4 a. s., se	
Mn	30.00	29.96	68.4	70.5	78.1	65.5	65.0	83.9	66.1	80.3	NE	8.7	E	9.3	2.51	3.79	5.8 a. cu., n., ne	6.1 a. s., nc., sw	

JUNE, 1903.

1	29.98	29.94	76.0	75.1	82	70	70.9	78	71.0	82	S	4	SE	10	....	T.	9 ci. s., w	3 a. s., sw	⌐◪
2	29.99	29.99	72.0	75.1	82	71	66.1	73	68.8	73	NW	6	SE	4	0.01	....	6 ci., sw	5 a. s., sw	
3	30.09	30.05	70.7	74.0	83	66	68.9	91	71.0	86	NE	6	SE	4	....	....	10 s. cu., ne	10 s. cu., sw	
4	30.09	30.08	75.8	70.0	76	66	72.0	83	69.0	95	E	6	SE	6	....	1.00	10 a. s., 0 (?)	10 s., sw	⌐◪
5	30.12	30.09	74.1	75.0	78	70	70.8	85	71.2	83	S	7	S	9	.02	....	10 a. s., sw	10 s. cu., s	
6	30.10	30.00	76.0	76.0	84	70	71.8	82	73.0	87	SW	12	S	15	.01	.20	8 cu., sw	8 a. s., w	⌐◪
7	29.99	29.88	74.0	75.7	86	71	72.0	91	73.2	89	SW	11	SW	12	....	T.	1 s. cu., sw	4 ci. s., w	⌐◪
8	29.88	29.84	74.2	72.4	86	67	70.8	84	71.1	94	SW	6	S	8	....	1.10	2 ci., 0 (?)	9 a. s., w	▲⌐◪
9	29.91	29.91	76.1	76.8	85	71	72.1	82	72.0	80	SW	7	S	7	....	....	8 a. cu., sw	10 a. s., 0 (?)	⌐◪
10	29.94	29.90	74.5	76.1	85	71	72.7	92	71.5	80	N	4	SE	3	.39	.01	1 cu., n	10 a. s., nw	⌐◪
11	29.87	29.71	74.2	76.8	88	68	71.2	86	71.8	79	S	3	SW	6	....	T.	10 a. s., sw	8 a. s., w	⌐◪
12	29.76	29.73	69.8	74.7	81	66	66.3	83	68.2	53	N	12	NW	4	.99	....	3 cu., n	1 s. cu., s	
13	29.83	29.83	62.0	70.1	76	60	54.0	59	60.0	50	N	12	N	3	....	....	8 ci. s., nw	7 ci. s., nw	
14	29.91	29.84	63.0	76.0	81	59	57.0	69	60.2	38	W	4	W	5	....	....	9 a. cu., w	7 a. s., sw	
15	29.88	29.78	66.0	82.2	89	63	58.0	61	65.0	38	W	6	W	4	....	....	9 a. s., sw	8 a. s., w	
16	29.79	29.76	75.0	77.0	86	71	62.7	50	69.7	70	N	8	S	6	....	....	0	Few a. s., 0 (?)	
17	29.82	29.81	76.0	77.0	85	72	71.1	78	72.0	79	S	6	S	5	T.	....	9 s. cu., nw	5 a. s., w	
18	29.83	29.82	73.4	72.5	86	69	66.8	71	72.0	98	SW	5	SW	8	....	.72	5 a. s., w	10 n., nw	▲⌐◪
19	29.87	29.77	78.0	78.0	86	67	69.7	85	71.9	75	W	8	SW	10	.14	....	0	2 a. s., sw	⌐◪
20	29.82	29.74	76.2	81.0	91	73	71.0	77	73.0	68	SW	12	SW	8	....	....	Few, ci. s., sw	8 a. s., sw	⌐◪
21	29.76	29.73	78.1	80.0	93	73	73.0	79	73.8	75	W	6	S	10	T.	....	1 ci. s., sw	1 a. s., sw	
22	29.69	29.64	77.0	77.3	88	72	74.1	87	74.0	86	SW	3	S	6	T.	.30	9 n., sw	8 s. cu., w	⌐◪
23	29.72	29.70	76.0	79.0	90	73	71.8	81	75.2	84	W	12	SE	8	....	.09	1 a. cu., w	9 a. s., sw	⌐◪
24	29.77	29.79	76.1	72.8	92	71	71.0	78	68.5	81	W	8	NW	4	....	.09	0	10 n., sw	⌐◪
25	29.85	29.86	75.6	71.3	88	70	72.3	85	69.0	89	SW	8	W	6	.15	.12	2 ci., w	10 a. s., sw	⌐◪
26	29.93	29.94	74.0	68.0	87	68	70.5	84	67.2	96	W	9	N	13	....	.37	3 ci. s., sw	10 n., sw	⌐◪
27	29.93	29.82	74.8	72.9	84	70	71.3	84	71.1	92	SW	9	S	8	.06	.22	6 a. cu., sw	10 n., sw	⌐◪
28	29.84	29.80	73.0	73.0	84	70	70.9	91	70.2	86	SW	8	SW	9	.01	T.	10 s. cu., sw	10 a. s., w	
29	29.91	29.92	72.3	75.8	84	70	69.3	86	72.7	86	SW	8	SW	8	....	.01	10 a. s., sw	8 a. s., sw	⌐◪
30	30.01	29.96	75.0	78.4	85	71	72.2	87	74.0	81	W	8	SW	12	T.	....	2 a. cu., w	1 a. s., nw	
Mn	29.90	29.85	73.5	75.3	84.9	69.0	69.1	80.1	70.2	78.4	SW	7.5	S	7.4	1.78	4.23	5.2 a. s., sw	7.1 a. s., sw	

SAVANNAH, GA.

[φ=32° 05′ N; λ=81° 5′ W; barometer above sea, 65 feet; gravity correction applied −.03.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.97	29.93	77.2	80.0	89	73	73.0	82	73.8	73	SW	3	SW	5	....	T.	Few ci. s., 0 (?)	3 a. s., nw	☐
2	29.99	29.96	76.3	80.2	88	72	72.8	84	75.0	78	SW	6	SW	7	....	....	1 a. cu., sw	1 a. s., 0 (?)	
3	30.04	29.99	77.9	79.4	89	74	73.8	83	74.0	77	SW	5	S	8	....	....	Few. ci., 0 (?)	1 cu., 0 (?)	
4	30.06	30.00	78.7	80.0	89	75	74.8	83	75.0	79	SW	8	S	9	....	T.	1 ci., ne	1 ci. s., 0 (?)	
5	30.04	30.01	78.8	79.8	91	75	74.0	80	72.5	71	SW	9	SE	4	....	....	6 ci. s., e	6 a. s., e	☐
6	30.04	29.99	79.0	80.8	87	74	75.3	84	76.0	80	SW	6	S	5	....	0.34	7 a. cu., w	10 s. cu., w	☐
7	30.00	29.98	76.1	78.7	86	74	73.8	90	75.2	85	N	4	E	6	0.04	....	10 a. cu., 0	8 a. s., e	☐
8	30.06	30.01	78.3	77.9	80	72	72.3	95	73.2	80	SE	2	S	4	.79	.02	10 n., se	10 a. s., s	☐
9	30.05	29.99	78.3	75.6	76	71	72.8	98	73.9	92	E	6	S	2	.82	3.26	10 n., sw	10 a. s., sw	☐
10	30.04	29.99	77.0	79.0	90	74	73.1	83	74.0	79	N	4	W	8	....	....	2 a. cu., sw	7 a. cu., sw	
11	30.02	29.91	77.0	81.2	87	73	71.0	74	74.9	74	W	8	SW	9	....	T.	6 a. s., s	4 s. cu., sw	
12	29.95	29.87	77.2	76.0	86	73	73.0	82	73.0	87	SW	10	SW	9	....	.20	5 ci. s., 0	10 a. s., sw	☐
13	29.88	29.77	76.0	77.8	83	72	73.5	89	74.0	84	SW	12	SW	8	....	.20	10 a. cu., sw	10 a. s., sw	☐
14	29.85	29.86	72.5	78.0	85	70	70.0	88	72.6	75	N	8	S	4	.01	T.	10 s. cu., n	2 ci. s., nw	
15	29.91	29.91	74.2	79.1	88	71	70.7	84	66.0	50	NW	4	S	5	....	....	0	Few a. s., nw	
16	29.98	29.96	75.2	79.0	88	70	68.8	72	69.1	60	N	5	SW	6	....	....	Lt. smoke, n	2 s. cu., nw	
17	30.01	29.95	74.6	79.0	85	71	70.7	82	71.1	68	W	4	S	6	....	....	10 a. cu., nw	7 ci., nw	
18	29.98	29.87	77.7	81.7	92	75	73.7	83	75.0	73	SW	8	SW	10	....	....	3 ci., 0 (?)	0	
19	29.89	29.82	80.8	88.4	95	76	74.0	73	75.5	54	W	9	SW	6	....	....	0	2 ci., w	
20	29.85	29.87	80.5	81.6	92	77	73.2	71	74.5	72	W	6	W	6	....	....	7 a. cu., w	4 ci. s., sw	
21	29.96	29.94	81.6	81.5	95	73	67.0	46	76.0	78	NW	4	S	6	....	....	1 s. cu., sw	1 s. cu., s	
22	29.99	29.91	78.1	81.0	93	72	75.0	87	77.0	84	SW	8	S	8	....	.70	Few ci., sw	4 ci. s., s	☐
23	29.90	29.82	79.0	85.2	96	75	74.0	79	78.0	72	SW	8	SW	6	....	....	0	2 cu., 0 (?)	
24	29.94	29.98	79.0	80.0	87	74	74.7	82	71.0	64	NE	7	SE	7	....	....	10 ci. s., sw	10 a. s., ne	
25	30.07	30.09	78.1	79.0	86	73	73.2	79	74.0	79	NE	8	SE	5	....	....	3 ci. s., s	5 ci. s., 0 (?)	
26	30.12	30.05	81.0	80.0	88	73	75.7	78	74.7	78	NE	3	S	4	....	....	Few a. s., 0	2 ci. s., 0 (?)	☐
27	30.04	29.92	76.8	82.0	94	73	73.1	84	74.2	70	SW	5	S	8	....	....	0	Few a. s., ne	
28	29.94	29.92	77.5	80.0	88	73	74.0	85	75.1	79	SW	4	S	6	....	....	0	Few a. s., s	
29	29.98	29.93	80.0	80.0	87	76	74.1	75	75.0	79	SW	9	SW	8	....	....	Few ci. s., 0 (?)	5 a. s., sw	
30	30.04	29.97	75.1	82.0	91	73	73.5	93	76.0	76	W	8	SW	12	....	....	7 s. cu., w	3 cu., sw	
31	30.03	30.03	79.3	73.2	92	73	75.0	82	71.0	90	SW	4	S	9	....	.16	6 a. s., sw	9 n., sw	☐
Mn	29.99	29.94	77.4	79.9	88.5	73.2	73.0	81.6	73.9	75.5	SW	6.3	S	6.6	1.66	4.88	4.0 a. cu., sw	4.5 a. s., sw	

AUGUST, 1903.

1	30.10	30.12	81.0	81.0	88	76	76.8	83	76.0	80	SW	8	S	5	0.01	0.10	6 ci., sw	2 a. s., 0	☐
2	30.22	30.21	80.0	81.5	90	75	77.0	87	75.9	78	E	5	SE	4	....	....	3 ci. s., e	3 s. cu., se	
3	30.21	30.09	80.1	75.7	89	74	76.8	86	73.9	90	NE	4	N	4	....	.18	2 as., ne	9 a. s., nw	☐
4	30.04	29.93	76.7	79.8	87	72	72.0	80	74.4	79	N	4	S	4	....	....	1 as., n	2 a. s., nw	
5	29.92	29.89	76.0	80.0	91	72	71.0	78	71.5	66	N	7	N	18	....	....	8 ci. s., w	10 s. cu., n	☐
6	29.91	29.85	75.5	82.7	94	72	71.9	84	73.9	66	SW	8	W	10	.02	....	3 ci. cu., sw	5 ci. s., sw	☐
7	29.89	29.85	78.3	79.0	95	74	74.0	82	72.5	73	W	8	W	12	....	T.	7 ci. s., nw	10 n., w	☐
8	29.89	29.83	77.0	74.0	88	74	72.8	82	72.9	95	SW	6	SW	7	.02	.02	2 ci. s., sw	10 n., s	
9	29.85	29.91	76.8	77.0	92	74	74.0	88	72.9	83	W	8	NE	3	.05	....	9 a. cu., w	10 a. s., 0	☐
10	29.98	29.94	77.0	82.0	90	73	74.1	87	76.2	77	W	8	SW	8	....	....	Few ci., 0	6 a. s., sw	☐
11	29.98	29.90	78.0	83.5	93	75	74.3	84	76.5	73	W	9	SW	8	....	....	7 ci. s., w	9 cu., w	☐
12	29.92	29.90	80.0	74.4	88	70	76.0	93	71.9	89	SW	6	SW	4	T.	.56	3 ci. cu., sw	9 a. s., w	☐
13	29.97	29.94	76.0	80.1	86	72	72.7	85	76.0	83	N	3	SW	5	....	.12	7 s. cu., sw	7 a. s., sw	☐
14	30.01	29.94	79.3	81.5	90	76	76.1	86	77.0	82	SW	6	S	7	....	....	3 a. s., sw	10 cu., nw	☐
15	29.99	29.93	76.0	75.3	86	72	72.1	82	74.2	95	W	3	SW	6	T.	2.08	10 a. s., sw	10 a. s., sw	☐
16	29.90	29.84	76.0	76.0	89	74	74.0	91	74.0	91	W	9	S	4	.02	.03	10 n., w	9 s. cu., nw	☐
17	29.89	29.88	75.0	79.0	86	72	73.2	92	74.0	79	NE	5	SE	5	....	....	1 s. cu, ne	4 s. cu., 0	
18	29.86	29.82	75.2	78.4	79	71	72.1	86	72.3	95	NE	3	S	8	.02	.79	10 a. cu., sw	10 n., s	☐
19	29.79	29.74	77.1	77.0	83	73	75.0	91	75.1	91	NE	1	SW	4	.25	.40	10 s., s	10 n., sw	☐
20	29.73	29.78	76.0	75.8	83	74	73.9	91	75.0	97	SW	10	SW	3	.03	.22	10 s. cu., sw	10 n., sw	
21	29.92	29.95	76.0	78.5	86	73	73.3	88	75.3	86	N	8	NE	7	.02	.07	2 cu., sw	1 a. s., 0 (?)	
22	30.01	29.95	76.0	79.1	88	74	74.5	93	74.9	82	NE	6	SE	4	....	....	10 s. cu., ne	2 a. s., 0 (?)	
23	29.99	29.94	74.2	80.0	90	72	74.2	100	75.6	79	E	4	S	7	....	....	Lt. fog, e	Few a. s., 0	
24	29.98	29.95	78.3	82.2	93	74	74.8	85	77.9	83	SW	5	S	8	....	....	Few ci. s., 0	1 a. s., se	
25	30.00	29.95	79.2	83.1	96	77	76.0	86	78.0	80	W	6	SW	8	....	....	1 cu., ne	1 a. s., nw	
26	29.96	29.89	80.4	86.0	98	77	76.2	82	78.3	71	W	8	SW	8	....	....	0	3 cu., nw	☐
27	29.92	29.87	81.2	86.4	98	78	76.8	82	79.5	73	W	5	SW	7	....	....	1 s. cu., sw	1 cu., 0	
28	29.90	29.83	83.0	84.0	99	79	77.0	76	75.0	66	W	5	S	6	....	.09	0	3 a. s., sw	☐
29	29.86	29.80	80.8	89.7	98	78	76.0	81	76.8	55	W	8	W	4	....	....	0	1 a. s., 0	
30	29.84	29.79	80.5	81.6	95	78	73.0	69	73.0	67	W	6	SW	6	....	T.	1 a. cu., w	8 cu., sw	☐
31	29.80	29.77	77.1	79.5	89	70	73.0	83	73.0	74	NW	3	S	5	....	.08	3 a. cu., w	8 a. s., sw	☐
Mn	29.94	29.90	77.9	79.9	90.2	74.0	74.3	84.9	74.9	79.9	W	6.0	SW	6.4	.44	4.73	4.2 ci. s., sw	5.9 a. s., sw	

SAVANNAH, GA.

[φ=32° 05′ N; λ=81° 5′ W; barometer above sea, 65 feet; gravity correction applied −.03.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.81	29.83	75.7	81.5	87	72	72.0	83	73.0	67	SW	5	NE	6	0.94	T.	Few cu.,sw	10 s. cu., sw	▲ ◪
2	29.93	29.95	71.0	78.0	83	69	71.6	100	73.9	83	N	7	E	8		1.95	D. fog, n	1 cu. n., sw	▲ ◪
3	30.02	30.02	75.0	78.4	85	72	72.5	89	73.8	81	NE	6	SE	4		T.	Few cu., ne	1 a. s., w	
4	30.03	29.97	78.7	77.3	81	72	72.2	93	73.0	82	NE	9	E	6		.01	3 as., s.	10 a. s., w	
5	29.97	29.86	72.5	79.0	88	70	70.5	91	73.0	75	N	6	SW	6			0	0	
6	29.90	29.90	73.6	81.0	93	70	70.0	84	74.1	72	SW	4	S	5			0	0	
7	30.02	30.03	78.8	79.8	88	74	75.0	84	75.8	83	E	3	E	8		T.	0	0	
8	30.10	30.10	76.5	78.7	86	74	75.0	93	73.1	77	NE	6	SE	5			Few cu., ne	Few a. s., e	
9	30.13	30.11	75.2	78.2	86	72	72.7	89	73.8	81	NE	4	SE	8		T.	1 cu., e	Few s. cu., e	
10	30.10	30.06	77.8	75.4	85	74	73.2	81	71.9	84	E	3	S	4		.02	2 cu., e	4 s. cu., e	
11	30.09	30.08	72.8	77.2	85	68	68.8	82	71.0	73	NE	5	E	6		T.	1 a. cu., s	1 s. cu., e	
12	30.08	30.07	80.0	77.5	86	72	71.1	64	74.2	86	E	14	SE	9	T.	.02	1 cu., se	10 s. cu., e	
13	30.06	30.04	78.0	76.5	80	70	75.0	87	75.0	93	E	9	E	4	.18	.36	10 n., e	10 n., e	
14	30.03	29.98	74.2	76.0	82	72	73.2	95	75.0	96	E	6	SE	7	.54	.37	10 a. s., s	10 n., se	◪
15	29.98	29.88	74.0	77.5	78	72	73.0	95	76.2	94	SE	6	SW	15	1.05	1.20	10 n., s	10 n., s	◪
16	29.91	29.92	74.0	74.0	84	71	72.0	91	72.9	95	SW	7	SW	8	.11	1.34	10 n., sw	10 s., sw	
17	29.92	29.89	73.7	72.1	82	72	72.2	93	71.0	95	SW	8	SW	7	.16	.20	10 s., sw	10 s., sw	◪
18	30.08	30.06	63.2	69.1	76	62	58.3	74	64.1	76	N	12	NE	8			10 s., sw	8 s. cu., ne	
19	30.14	30.11	61.9	68.0	75	61	57.0	74	61.0	67	N	10	N	9			4 a. cu., sw	0	
20	30.13	30.07	62.0	69.4	76	60	58.2	80	62.6	68	NE	10	N	8			0	6 a. cu., 0 (?)	
21	30.11	30.05	64.0	70.5	76	62	60.0	79	64.0	70	N	10	N	6			0	1 s. cu., n	
22	30.07	29.99	62.2	70.2	77	60	57.5	76	60.0	54	N	8	N	4			Few a. cu., 0(?)	0	
23	29.91	29.79	61.3	73.0	80	59	56.8	76	61.7	62	N	12	N	7			1 a. cu., 0 (?)	1 a. s., s	
24	29.81	29.82	65.0	79.2	89	64	59.1	70	66.0	49	NW	6	N	2			6 ci. s., n	0	Lt. smoke, a.
25	29.94	29.96	69.0	74.0	87	64	61.0	63	71.0	86	N	3	E	4			Few a. cu., 0(?)	1 ci. s., 0 (?)	Lt. smoke, a.
26	30.08	30.04	69.8	75.0	83	69	69.8	100	71.2	83	E	1	S	3			Lt. fog, e	0	
27	30.09	30.01	71.0	75.0	88	68	68.3	87	70.0	78	S	3	S	7			Lt. fog, 0	0	
28	30.08	30.11	72.0	71.3	85	68	68.5	84	67.0	80	W	7	NE	8			Lt. smoke, w.	0	
29	30.22	30.24	63.2	68.0	76	61	58.2	74	62.0	71	N	8	NE	8			Few a. cu., 0(?)	0	
30	30.26	30.27	65.2	68.0	78	62	61.9	84	63.8	79	NE	8	E	6			1 s. cu., ne	1 ci. s., nw	
Mn	30.03	30.01	70.9	75.0	82.8	67.9	67.5	83.8	69.8	77.7	N	6.9	E	6.4	2.98	5.47	2.7 cu., s. cu., sw	3.5 s. cu., e	

OCTOBER, 1903.

1	30.28	30.20	63.0	72.0	81	62	62.0	95	69.0	86	N	4	E	5			4 a. cu., sw	3 ci., w	
2	30.19	30.08	68.8	73.2	83	66	66.5	88	69.0	81	NE	6	S	5			Few ci., 0 (?)	0	Lt. smoke, a.
3	30.08	30.04	69.7	74.0	86	66	67.0	87	70.9	86	NW	2	SE	4		0.18	1 ci., 0 (?)	Few a. s., n	≡°a.
4	30.10	30.08	68.0	72.0	79	66	62.1	71	69.0	86	NE	7	E	6			10 s., ne	Few ci., ne	≡°a.
5	30.08	30.03	67.0	74.5	82	67	66.2	96	72.2	90	NE	8	E	4		.17	10 s., ne	Few s. cu., 0	
6	30.01	29.97	71.2	74.0	83	70	70.2	95	71.0	86	E	4	E	4			1 a. cu., s	4 a. cu., se	
7	29.99	29.90	70.9	74.8	88	69	70.0	95	71.0	83	NE	3	S	6			4 ci., w	0	
8	29.78	29.79	71.2	65.8	77	61	69.7	93	63.0	41	SW	13	W	9		13	4 a. s., w	0	
9	29.83	29.69	57.9	66.0	73	55	50.8	61	54.3	45	N	12	NE	12			0	0	
10	29.66	29.67	56.5	67.8	73	54	47.8	52	57.1	51	NW	14	N	16			8 ci. s., n	1 a. s., ne	
11	29.79	29.85	58.0	67.3	73	58	51.7	64	59.7	64	N	10	N	1			Few a. s., 0 (?)	0	
12	30.02	30.02	60.8	66.2	74	59	58.0	85	62.1	80	E	5	S	5			Few s., e	0	≡°a.
13	30.07	30.00	62.0	69.0	80	61	60.1	89	64.0	76	W	3	SW	5			3 ci., w	0	
14	30.00	29.91	64.2	71.0	82	62	61.0	83	64.0	68	SW	6	SW	8			9 a. cu., n	0	
15	29.96	29.93	66.8	70.3	77	65	64.0	86	67.8	88	SW	4	S	6			10 a. s., sw	10 s., 0 (?)	
16	29.97	29.93	66.8	68.0	74	66	64.8	90	66.5	92	E	5	SE	8		.05	10 a. s., sw	10 n., se	
17	29.79	29.77	72.1	67.0	73	66	70.1	91	66.5	97	SW	10	W	10	0.43	1.61	10 n., sw	10 n., sw	
18	29.99	30.06	56.0	59.6	67	55	52.0	76	52.8	64	N	15	N	5	T.		Few ci. s., 0 (?)	0	
19	30.13	30.06	51.1	62.2	69	50	48.0	81	55.0	63	N	6	E	3			0	0	
20	30.07	30.01	54.0	66.3	76	52	48.8	69	61.2	75	NE	6	SE	3			0	0	
21	30.03	30.02	58.0	66.0	79	54	55.9	88	61.8	79	NW	3	SE	5			Lt. fog, nw	0	
22	30.10	29.99	59.9	69.0	78	58	58.5	91	66.0	85	NE	5	E	5			Few ci., w	6 ci. s., w	
23	29.91	29.77	66.8	69.1	77	64	64.3	87	65.0	85	E	8	E	4		.02	10 a. s., w	1 a. s., 0 (?)	
24	29.86	29.94	49.1	45.0	64	43	48.0	93	43.0	86	N	20	N	12	.13	.06	10 s. cu., n	0	◪
25	30.06	30.08	39.0	51.2	58	38	37.1	83	43.2	50	NW	4	W	6			Lt. fog, nw	0	
26	30.13	30.14	45.2	65.0	73	44	40.1	64	54.0	48	W	9	NE	3			Lt. smoke, w.	Lt. smoke, 0	☾
27	30.22	30.27	48.0	54.5	68	46	43.5	69	48.0	62	NE	10	NE	7			1 ci., sw	6 ci., sw	
28	30.26	30.23	44.5	58.0	66	43	41.0	74	49.5	54	N	7	NE	4			0	0	
29	30.26	30.19	48.8	60.0	70	47	45.1	75	55.9	77	NE	6	E	4			Few ci., w	0	☾
30	30.16	30.13	57.2	63.7	73	55	55.1	88	61.0	86	NE	6	E	7			10 a. cu., w	10 ci., sw	
31	30.14	30.13	60.0	65.1	75	59	59.1	94	64.0	94	NE	6	E	4		.46	5 a. cu., sw	2 a. s., se	
Mn	30.03	30.00	59.8	66.1	74.9	57.5	56.7	82.4	60.9	74.5	NE	7.3	E	6.0	.58	2.66	3.9 ci., w	2.0 a. s., sc., w	

SAVANNAH, GA.

[φ=32° 05′ N; λ=81° 5′ W; barometer above sea, 65 feet; gravity correction applied −.03.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.16	30.13	63.0	67.0	77	60	61.0	89	64.0	85	E	6	E	7	.....	0.05	1 s. cu., e	10 a. s., sw	
2	30.12	30.09	67.0	66.2	76	64	66.0	95	64.1	89	0	0	SE	5	T.	.01	10 a. cu., 0	9 ci. s., w	≡°a.
3	30.13	30.10	63.0	67.7	78	62	62.2	95	65.1	87	N	8	SE	6	.....	.....	10 a. s., 0 (?)	10 s. cu., se	≡°a.
4	30.01	29.88	66.1	65.3	76	62	64.6	92	64.3	95	E	4	SW	7	.....	.81	8 a. cu., sw	10 s. cu., sw	⌐⌐
5	29.84	29.74	59.1	66.1	76	59	59.1	100	61.0	75	N	7	NW	5	.....	.....	D. fog, n	0	
6	29.80	29.98	59.0	54.2	71	50	55.2	78	49.2	70	NW	4	NE	18	.....	.....	3 a. cu., w	10 s., ne	≡°a.
7	30.24	30.24	45.0	47.8	53	42	35.8	47	40.0	48	NE	14	NE	6	.....	.....	Few a. cu., w	0	
8	30.24	30.21	40.5	52.0	54	40	36.0	64	45.0	57	N	9	N	6	.....	T.	10 a. s., sw	10 s. cu., n	
9	30.17	30.03	52.9	56.6	64	51	50.0	81	52.1	74	NE	6	N	6	0.01	.....	10 s. cu., se	0	
10	30.01	29.94	50.7	63.0	72	50	45.0	64	55.0	60	NW	4	NW	4	.....	.....	Lt. fog, nw	Lt. smoke, nw	
11	29.98	29.89	54.9	58.6	73	52	49.4	68	53.9	74	NW	4	SW	10	.....	.01	8 ci., w	4 s., sw	≡°a.
12	29.93	29.90	58.0	68.2	78	55	55.5	85	65.2	85	SW	6	S	12	.....	.....	3 a. cu., w	9 s. cu., s	Lt. smoke, a.
13	30.02	30.01	64.0	67.6	81	63	64.0	100	65.9	92	SW	6	SW	6	T.	.....	1 ci., 0 (?)	0	≡°a.
14	30.06	30.06	67.5	72.0	80	66	66.1	92	67.9	82	W	10	W	4	.....	.....	2 ci., 0	0	
15	30.18	30.16	59.1	61.9	74	59	55.8	82	59.9	89	NE	5	E	6	.....	.....	1 a. cu., 0 (?)	5 a. cu., s	
16	30.09	29.99	65.5	68.2	75	61	63.0	87	65.0	84	S	2	S	9	...	T.	10 a. cu., sw	0	Lt. smoke, a.
17	29.94	29.88	66.2	70.2	79	66	64.9	94	63.0	67	SW	7	SW	8	.....	.....	7 s. cu., sw	5 s. cu., sw	
18	30.04	30.18	48.0	50.0	69	41	44.9	79	40.5	41	NW	10	N	10	T.	.....	7 a. cu., w	0	
19	30.39	30.38	32.5	39.5	47	32	28.0	66	32.6	44	N	13	N	9	.....	.....	0	0	—[2]
20	30.43	30.40	34.2	46.0	51	32	29.7	57	37.0	39	N	12	NE	11	.....	.....	Few ci., w	0	
21	30.39	30.28	38.2	41.0	44	37	35.1	75	40.3	96	N	12	N	12	T.	.09	10 n., se	10 n., n	
22	30.18	30.11	40.2	54.0	59	40	39.1	92	49.0	70	N	12	N	4	.02	T.	10 s., n	0	
23	30.07	29.96	43.4	55.6	71	43	42.0	89	52.1	79	NE	4	SW	8	.....	.....	Lt. smoke, ne.	0	
24	29.99	29.96	50.0	56.3	67	50	46.9	80	50.0	64	W	8	S	6	.....	.....	Lt. fog, w	Lt. smoke, s	
25	29.94	29.88	47.6	47.0	61	39	41.5	60	44.3	81	N	4	N	8	.....	.03	Lt. fog, n	10 n., n	
26	29.96	30.01	36.5	42.8	48	36	35.0	86	38.0	64	N	8	NW	4	.81	.....	0	5 s. cu., nw	Lt. smoke, p.
27	30.14	30.12	29.0	33.2	38	28	24.0	44	27.0	40	N	18	NW	4	.....	.....	0	0	
28	30.04	29.68	27.9	43.2	48	25	23.8	58	35.2	42	NW	5	SW	12	.....	.....	2 a. cu., nw	0	
29	29.68	29.81	42.7	45.3	55	40	39.0	72	39.0	55	W	7	W	5	.....	.....	0	0	
30	30.01	30.03	34.0	45.0	51	33	30.1	62	36.7	42	NW	4	NW	4	.....	.....	Lt. smoke, nw	Lt. smoke, 0	
Mn.	30.07	30.01	50.1	55.7	64.9	48.0	47.1	77.2	50.7	69.0	N	7.3	N	7.4	.84	1.00	3.8 a. cu., w	3.6 s. cu., sw	

DECEMBER, 1903.

1	30.11	30.06	33.0	46.2	50	32	29.1	60	39.2	52	N	6	N	8	.....	T.	Lt. smoke, n	10 s., 0 (?)	
2	29.94	29.92	39.0	37.0	41	35	37.0	83	35.0	83	N	8	N	8	0.01	0.26	10 n., 0 (?)	0	△
3	30.02	30.04	32.0	44.5	49	31	29.0	69	36.8	45	N	11	NW	5	.....	.....	0	Lt. smoke, 0	
4	30.12	30.15	37.2	48.0	61	37	33.3	65	42.2	61	NW	2	S	3	.....	.....	Few ci., 0 (?)	Lt. smoke, 0	Lt. smoke, a.
5	30.19	30.12	44.0	58.0	67	42	39.0	63	49.8	55	SW	2	N	3	.....	.....	D. fog, sw	8 a. cu., w	Lt. smoke, p.
6	30.12	30.17	43.4	45.0	54	40	41.5	85	40.5	67	NW	5	N	5	.02	.....	8 a. cu., sw	0	
7	30.20	30.10	33.0	44.8	54	33	32.0	90	39.9	65	N	6	SE	4	.....	.....	0	Lt. smoke, 0	
8	30.06	29.89	38.0	46.1	54	37	35.0	76	40.1	58	NW	2	SW	7	.....	.....	3 ci., w	0	≡°a.
9	29.59	29.73	43.0	46.0	48	42	43.0	100	41.1	66	E	5	W	6	.21	.29	10 n., s	10 s. cu., w	
10	29.86	29.98	38.7	46.1	54	37	36.2	79	38.2	46	W	12	W	8	.....	.....	1 a. cu., 0 (?)	0	Lt. smoke, a.
11	30.20	30.24	35.4	45.7	57	35	31.2	62	41.3	69	W	8	S	8	.....	.....	Lt. smoke, w	0	
12	30.29	30.11	41.7	56.1	62	39	40.1	88	53.0	81	E	5	S	5	.....	.....	1 a. cu., w	0	Lt. smoke, a.
13	30.05	30.20	57.5	54.0	68	48	51.5	66	48.0	64	SW	10	N	9	.08	T.	10 n., w	0	
14	30.32	30.23	38.9	46.8	56	39	33.0	51	41.1	61	NE	10	NE	7	.....	.....	Few ci., w	0	
15	30.20	30.18	39.9	47.5	58	40	34.9	60	42.0	62	N	6	E	2	.....	.....	7 a. cu., w	Lt. smoke, 0	
16	30.18	30.08	34.0	47.0	57	34	31.1	71	44.6	83	NE	7	SE	2	.....	.....	0	0	
17	30.07	30.12	38.0	46.0	54	38	33.5	62	38.9	51	W	6	N	5	.....	.....	Lt. smoke, w	0	
18	30.26	30.32	34.7	41.4	51	34	31.0	65	37.0	66	NE	5	E	5	.....	.....	Lt. smoke, ne	Lt. smoke, 0	
19	30.33	30.12	35.8	49.1	56	34	33.2	77	47.9	92	N	8	E	9	.....	.....	2 ci. s., 0 (?)	10 a. s., w	
20	29.81	29.98	59.0	45.1	61	39	55.2	79	38.2	51	SW	24	NW	22	.....	.16	9 a. cu., sw	0	
21	30.11	30.07	34.0	43.0	55	34	31.0	71	39.0	70	N	6	SW	7	.....	.....	0	0	
22	30.13	30.18	38.2	54.0	62	38	34.1	66	44.0	42	W	8	W	6	.....	.....	0	Few ci. s., w	
23	30.34	30.30	41.8	44.5	56	42	35.3	51	37.0	46	NE	7	E	8	.....	.....	7 a. cu., w	0	
24	30.18	30.03	48.9	62.0	71	44	46.8	86	57.9	78	E	6	SW	8	.....	.....	9 a. cu., s	8 s. cu., w	
25	29.84	29.68	62.8	62.4	68	60	61.8	95	60.1	88	SW	10	SW	12	T.	.29	10 s. cu., sw	10 n., sw	
26	29.77	30.10	48.1	36.5	60	31	41.7	58	30.0	43	NW	6	NW	8	.07	.....	7 s. cu., sw	0	
27	30.21	30.05	25.9	43.4	50	26	22.9	63	34.3	35	NW	6	W	8	.....	.....	0	0	
28	30.16	30.18	37.0	45.0	55	37	32.0	57	41.2	72	NW	4	SE	5	.....	.....	Lt. smoke, nw	0	
29	30.18	30.11	37.3	53.7	64	37	36.1	89	44.0	44	SW	7	SW	5	.....	.....	Lt. fog, sw	0	
30	30.25	30.21	39.6	49.6	57	40	33.1	48	38.0	28	W	7	W	5	.....	.....	0	Lt. smoke, 0	
31	30.20	30.13	42.0	57.0	65	40	35.0	47	44.0	31	W	7	W	6	.....	.....	Lt. smoke, w	Lt. smoke, 0	
Mn.	30.11	30.09	40.4	48.1	57.3	37.9	36.8	70.4	42.1	59.8	N	7.2	{N / W}	6.7	.34	1.00	3.0 a. cu., w	1.8 s. cu., w	

KEY WEST, FLA.

[φ=24° 34′ N; λ=81° 49′ W; barometer above sea, 22 feet; gravity correction applied −.05.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	29.94	29.92	66.5	69.2	71	66	66.0	97	67.7	93	NE	12	NE	4	.....	.....	3 ci., n.....	3 ci. s., n.....	
2	29.94	29.95	73.8	69.0	80	68	71.0	87	68.0	95	NE	4	NW	9	.....	.....	7 ci. s., sw	10 s. cu., nw	
3	29.95	29.81	69.0	73.4	79	67	68.0	95	71.4	91	NW	8	E	6	0.12	.....	9 s. cu., sw....	5 ci. s., w	
4	29.77	29.90	75.0	65.4	77	64	74.0	96	62.9	87	SW	30	N	10	.25	0.26	10 n., sw.....	9 s. cu., n.....	☂
5	29.98	29.97	64.5	68.0	73	64	60.0	77	62.5	74	N	5	N	3	...	.....	7 ci. s., w	8 a. s., sw	
6	30.07	30.16	65.0	61.1	72	60	58.0	66	52.6	56	NW	36	N	24	.03	T.	8 a. s., sw	4 s. cu., n.....	
7	30.18	30.06	62.5	66.4	67	61	53.5	54	60.9	73	NW	8	W	10	.....	.....	5 s. cu., w	0.....	
8	30.04	30.11	67.2	60.5	69	57	63.7	83	53.0	60	W	15	NW	25	.....	.....	Few s. cu., w .	Few s. cu., nw ...	∞°a.
9	30.19	30.10	54.0	58.4	60	54	48.5	67	54.9	80	NE	14	NE	7	.....	.....	0.....	2 a. cu., nw.....	
10	30.09	29.97	61.5	70.0	75	58	59.5	89	68.0	90	NE	10	E	10	.....	.01	7 s. cu., ne....	10 s. cu., e	
11	29.99	29.98	74.0	75.5	78	72	71.5	89	73.0	89	SE	8	S	4	.....	.....	6 a. s., sw.....	10 a. s., w.....	☂
12	30.06	30.21	73.0	63.0	76	60	72.0	95	60.0	84	SE	2	N	24	T.	.39	10 s., se	10 s. cu., n.....	
13	30.21	30.15	56.0	63.9	64	56	53.0	82	60.4	82	NE	18	NE	20	.....	.....	9 s. cu., ne....	10 a. s., se	
14	30.18	30.16	63.0	67.4	68	63	60.0	84	63.9	83	NE	18	NE	10	.....	.....	10 s. cu., ne...	10 s. cu., ne.....	
15	30.14	30.09	65.3	68.5	74	65	64.3	95	62.5	72	E	10	NE	7	.....	T.	6 ci. s., w	5 a. s., 0.....	
16	30.09	29.99	66.5	72.9	74	64	66.0	97	70.9	91	NE	10	E	5	.02	T.	10 n., ne	8 a. s., 0.....	
17	29.95	29.88	73.0	71.3	77	67	71.0	91	67.8	84	S	7	SW	5	.....	.16	5 a. cu., s	9 s. cu., sw.....	☂
18	29.92	29.93	68.0	68.6	76	63	67.0	95	62.6	72	E	6	NW	7	.20	.35	10 s., sw.....	6 s. cu., nw	
19	30.00	30.00	64.5	64.0	70	63	63.0	92	62.5	92	NE	8	N	5	.....	.12	10 s. cu., ne ...	10 s. cu., n	
20	29.88	29.82	65.0	75.5	77	64	65.0	100	72.5	86	NE	12	S	6	.85	.20	10 n., sw.....	10 a. s., w.....	
21	29.94	30.06	72.0	66.4	75	64	71.0	95	64.4	90	SW	12	N	4	.....	.....	10 s. cu., sw...	4 a. s., s.....	
22	30.10	30.18	68.3	66.7	70	65	62.2	71	62.2	78	NW	3	N	12	.....	.....	10 s. cu., sw...	9 ci. s., se.....	
23	30.19	30.09	65.0	67.7	69	64	63.0	90	64.7	85	NE	10	NE	9	.....	.....	3 s. cu., ne	6 a. s., sw.....	
24	30.10	30.03	68.0	73.2	75	68	67.0	95	70.7	88	NE	12	E	8	.....	.....	10 s. cu., ne...	10 a. s., sw.....	
25	30.02	30.02	71.5	74.0	80	71	70.0	93	71.0	86	NE	5	E	6	.....	.....	9 a. s., sw	6 a. s., sw.....	
26	30.05	30.07	74.0	75.0	80	71	71.0	86	72.0	86	E	5	SE	7	.....	.....	4 a. s., sw	5 a. s., w.....	
27	30.07	30.06	74.0	75.0	80	73	70.0	82	71.0	82	SE	5	E	8	.....	.....	1 s. cu., se	0.....	
28	30.05	30.02	73.5	71.8	75	71	72.0	93	67.3	79	E	6	E	10	.....	.47	8 a. s., sw	10 s. cu., e	
29	30.02	30.01	70.2	73.0	74	69	68.2	90	70.5	88	NE	10	NE	6	.....	.....	0.....	0.....	
30	30.06	30.12	71.0	71.0	75	67	70.0	95	67.0	81	NE	8	N	12	.....	.....	0.....	0.....	
31	30.15	30.14	69.0	73.2	78	66	66.0	85	67.8	75	NE	20	E	12	.....	.....	3 a. s., 0.....	0.....	
Mn	30.04	30.03	67.9	69.0	73.8	64.7	65.3	87.3	65.4	82.3	NE	10.9	{N E}	9.4	1.47	1.96	6.5 s. cu., sw..	6.1 a. s., s. cu., n., sw.	

FEBRUARY, 1903.

1	30.13	30.08	71.6	74.5	78	71	68.6	86	71.5	86	E	6	SE	6	.....	0.01	2 s. cu., e	0.....	∞°
2	30.09	30.00	74.8	75.1	80	73	71.3	84	71.1	82	SE	6	SE	6	.....	.....	Few ci., 0.....	0.....	
3	30.00	29.95	75.2	75.0	80	74	70.0	77	71.5	84	SE	6	SE	4	.....	.....	0.....	0.....	
4	29.95	29.99	75.6	76.0	80	75	72.4	86	73.0	87	SE	6	0	0	.....	.....	3 a. s., n	7 a. cu., w	
5	30.06	30.08	76.0	71.3	80	71	73.5	89	67.8	84	S	1	N	9	.....	.....	4 a. s., 0.....	3 a. s., 0.....	⊕
6	30.13	30.10	73.0	74.5	79	72	70.5	88	72.0	89	NE	12	E	15	.....	.....	7 a. s., ne	9 a. cu., s	
7	30.09	30.01	75.0	75.9	81	74	71.0	82	72.9	87	SE	8	SE	6	.....	.....	1 s. cu., se	1 s. cu., se	
8	30.02	30.02	76.0	77.1	80	74	74.0	91	74.1	87	SE	4	S	3	.....	.....	1 a. cu., 0	10 a. cu., w	
9	30.11	30.07	73.0	76.5	80	69	68.0	78	73.0	84	NE	16	E	9	.....	.....	5 s. cu., ne....	Few a. cu., 0	
10	30.08	29.99	76.0	76.8	79	73	71.5	80	70.8	74	E	12	E	15	T.	.....	4 s. cu., e.	0.....	
11	29.96	29.98	76.8	76.6	82	76	72.8	83	73.1	85	SE	8	S	2	.....	.....	3 ci. s., n.....	3 ci. s., 0.....	∞°a.☴
12	30.03	30.02	75.0	77.0	84	74	73.0	91	74.0	87	NE	8	SE	6	0.01	.....	4 a. s., n	8 a. s., 0.....	
13	30.10	30.08	76.0	77.0	81	75	71.0	78	70.5	72	SE	8	E	10	.....	.....	3 a. s., 0.....	6 a. s., sw.....	
14	30.12	30.06	77.0	77.0	82	76	72.0	79	71.5	77	SE	6	SE	7	.....	.....	Few s. cu., se.	0.....	
15	30.06	29.98	76.0	76.0	81	74	73.0	87	70.0	74	SE	8	SE	7	.....	.....	1 s. cu., se	0.....	
16	29.87	29.82	76.2	79.0	81	75	72.0	81	74.0	79	SE	11	SW	14	.....	.....	2 s. cu., se	6 a. s., sw.....	
17	30.00	30.17	71.0	61.3	78	57	66.0	77	54.8	65	NW	30	NW	20	.06	.....	10 s., nw.....	5 s. cu., nw	
18	30.32	30.26	54.0	65.1	65	54	48.0	64	60.1	75	NE	15	NE	17	.....	.....	4 a. cu., sw	10 s. cu., ne.....	
19	30.28	30.23	63.5	67.2	70	62	60.0	82	62.7	78	NE	20	NE	14	.....	.....	10 s. cu., ne...	10 s. cu., ne.....	
20	30.21	30.04	67.0	71.5	76	67	65.0	90	69.5	90	NE	10	E	11	.....	.01	4 a. s., se	10 n., e.....	
21	30.02	30.08	67.0	65.8	75	65	67.0	100	62.3	82	NW	20	N	15	.28	.26	10 n., nw	10 s. cu., n.....	☂
22	30.20	30.22	62.0	70.0	70	62	60.0	89	65.5	79	NE	15	NE	14	.....	.....	10 s. cu., ne...	10 s. cu., ne.....	
23	30.13	30.03	68.0	65.5	68	63	67.0	95	62.5	85	NE	12	NE	27	.18	1.06	10 n., ne	9 s. cu., ne.....	
24	30.08	30.05	65.5	68.0	69	66	62.5	85	63.5	78	N	14	NE	12	.....	.....	10 s. cu., n	4 ci. s., w	
25	30.08	30.05	67.0	72.0	76	66	65.0	90	67.0	77	NE	15	E	20	.....	.....	3 s. cu., ne....	10 a. s., w.....	
26	30.06	30.00	72.5	74.0	78	71	70.0	88	72.0	91	E	16	SE	12	T.	.10	10 s., e	0.....	
27	30.03	29.98	74.8	75.6	81	74	72.3	89	73.1	89	E	10	E	9	.....	T.	4 s. cu., e	0.....	
28	30.06	30.07	76.0	76.0	82	75	72.0	82	73.5	89	SE	7	E	7	.....	.....	Few a. s., sw .	0.....	∞°a.
Mn	30.08	30.05	71.8	73.1	77.7	69.9	68.6	84.7	69.2	82.0	SE	11.1	{E (SE)}	10.6	.53	1.44	4.5 s. cu., ne..	4.7 s. cu., ne., w ..	

KEY WEST, FLA.

[φ=24° 34′ N; λ=81° 49′ W; barometer above sea, 22 feet; gravity correction applied −.05.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1...	30.13	30.12	76.0	76.4	82	72	73.0	87	72.9	84	E	4	NE	6	.....	.....	Lt. haze	0.....	
2...	30.16	30.14	74.0	76.5	81	72	71.0	86	71.0	76	E	12	E	12	.....	.....	1 s. cu., e.....	4 s. cu., e.....	
3...	30.18	30.15	73.8	75.0	80	70	71.3	89	70.5	80	E	10	E	12	0.13	.....	7 s., e	0.....	
4...	30.16	30.14	74.0	75.4	80	73	70.0	82	69.9	76	E	8	E	15	.....	.....	3 s. cu., e.....	Few s. cu., e	
5...	30.14	30.10	74.0	74.8	80	72	69.0	78	68.8	74	E	8	E	14	.....	.....	3 cu., e.....	0.....	
6...	30.12	30.10	73.8	75.0	80	70	70.0	83	69.0	74	E	10	E	10	.08	.....	6 s. cu., se.....	Few s. cu., e.....	
7...	30.10	30.10	75.0	75.0	79	73	68.5	72	71.0	82	E	10	E	12	.....	.....	4 a. s., n	4 a. s., n	
8...	30.12	30.08	73.5	74.5	79	70	70.5	86	68.5	74	E	12	E	12	.25	0.01	10 n., e.....	Few a. s., 0.....	
9...	30.12	30.10	73.0	74.7	80	72	68.0	78	69.2	76	E	8	E	9	.....	.....	3 ci. s., n	5 a. s., w	
10...	30.16	30.13	73.0	74.0	78	71	68.0	78	65.0	61	E	12	E	14	.01	.....	3 s. cu., e.....	1 s. cu., e	
11...	30.17	30.11	72.0	73.1	78	71	66.0	73	65.6	67	E	6	E	15	T.	.....	8 s. cu., e.....	Few s. cu., e.....	
12...	30.11	30.06	71.0	72.2	76	70	66.5	79	65.7	71	NE	12	E	11	.....	.....	7 s. cu., ne	5 s. cu., e	
13...	30.01	29.98	71.0	72.8	77	70	65.5	75	64.8	65	NE	8	E	6	.....	.....	6 a. s., se.....	6 a. s., s	
14...	29.96	29.93	74.8	74.0	80	72	66.3	65	68.0	74	SE	8	E	7	.....	.....	6 a. s., sw	2 s. cu., e	
15...	29.95	29.91	75.5	75.1	80	72	69.5	74	70.1	78	SE	5	S	2	.....	.....	4 cu., se.....	0.....	
16...	29.96	29.94	71.0	75.8	79	68	68.0	86	71.3	80	E	8	SW	7	.52	.....	9 s., e	Few s. cu., sw	
17...	29.98	29.97	73.0	74.5	79	72	70.0	86	68.5	74	NE	5	N	10	.....	.....	6 s. cu., se.....	0.....	
18...	30.01	29.98	74.0	74.5	78	71	69.0	78	68.5	74	N	2	N	6	.....	.....	0	0.....	
19...	30.04	30.01	76.0	76.1	81	72	71.0	78	70.1	74	SE	5	E	9	.....	.....	2 cu., 0.....	0.....	
20...	30.06	29.97	77.0	76.1	81	74	71.0	74	71.1	78	SE	8	E	9	.....	.....	4 cu., se.....	10 a. s., sw	
21...	29.97	29.90	77.0	76.7	82	73	71.0	74	72.2	81	SE	8	E	10	.....	.....	4 cu., se.....	5 a. s., sw.....	
22...	29.90	29.85	78.0	75.8	82	75	72.5	77	70.8	78	SE	10	SE	8	T.	.....	7 s., se	2 a. s., 0	
23...	29.91	29.96	77.5	74.0	83	74	74.0	85	71.0	86	S	12	SE	9	.01	T.	8 s., s	10 s., se	⊓◁
24...	30.01	29.95	75.0	78.0	82	70	72.0	86	73.5	81	NE	4	S	2	.46	.....	8 a. s., s.....	2 a. s., 0.....	
25...	29.96	29.94	78.0	75.0	80	71	74.0	83	71.0	82	SE	5	N	6	.05	.07	9 s., se	10 s. cu., n	⊓◁
26...	30.02	29.98	70.0	75.2	77	69	67.0	86	69.7	76	NE	15	E	12	.25	.....	10 s. cu., ne...	8 s. cu., e	
27...	30.01	29.97	75.5	74.8	79	70	70.0	76	70.3	80	E	14	E	15	....	1.12	9 a. s., sw	4 s. cu., e	
28...	29.92	29.81	76.5	76.0	81	68	72.0	80	71.0	78	SE	8	SE	8	T.	.10	10 s., se	10 s. cu., se	⊓◁
29...	29.85	29.86	75.0	74.5	77	67	71.0	82	68.5	74	W	15	W	20	.11	.06	10 a. s., sw	1 s. cu., W	
30...	29.94	29.93	73.8	73.4	75	72	65.7	65	68.9	80	W	15	NW	13	.....	.....	3 s. cu., w.....	0.....	∞°a.
31...	30.00	30.00	72.0	72.3	78	71	66.0	73	63.8	68	NW	10	N	10	.....	.....	1 s. cu., nw ...	0.....	∞°a.
Mn.	30.04	30.01	74.3	74.9	79.5	71.2	69.6	79.2	69.4	75.8	E	8.9	E	10.0	1.87	1.36	5.5 s. cu., se...	2.9 s. cu., e.....	

APRIL, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1...	30.10	30.05	70.0	71.5	74	70	61.0	59	61.0	54	NE	12	N	5	.....	.....	4 ci. s., 0	0.....	∞°a.
2...	30.10	30.04	72.5	73.3	79	71	66.0	71	64.8	63	NE	15	E	9	.....	.....	Lt. haze	0.....	
3...	30.00	29.97	75.5	75.0	80	71	65.5	58	67.0	66	SE	7	E	6	.....	.....	2 cu., se	0.....	
4...	29.94	29.92	76.0	74.0	80	71	70.0	74	70.0	82	SE	3	NW	8	....	0.05	5 a. cu., nw...	10 s. cu., nw.....	
5...	30.01	30.07	71.0	72.5	77	70	66.0	77	64.0	63	NE	16	E	20	.....	.....	0.....	Few a. cu., w.....	
6...	30.10	30.08	74.0	73.1	79	70	65.0	61	63.6	59	E	8	E	12	.....	.....	2 a. s., 0.....	Few s. cu., e.....	
7...	30.08	30.02	74.0	74.0	79	70	68.0	74	65.5	63	E	11	E	10	.....	.....	1 s. cu., e	Few s. cu., e	
8...	30.06	30.02	74.0	75.5	82	71	68.5	76	70.0	76	NE	4	NE	6	.....	.....	9 s. cu., ne....	5 cu., e.....	
9...	30.04	29.98	74.8	75.5	78	72	71.3	84	69.5	74	NE	10	N	6	0.01	.....	2 s. cu., ne....	4 a. s., se.....	
10...	30.04	30.00	75.0	76.0	81	73	69.0	74	70.0	74	NE	10	E	8	.....	.....	2 cu., ne	1 ci. s., 0	☋
11...	30.02	29.98	76.0	75.3	81	74	71.0	78	69.3	74	E	4	E	6	T.	.....	3 cu., e.....	Few a. s., 0.....	⊕
12...	29.99	29.89	77.5	76.0	81	74	69.0	65	71.0	78	SE	10	SE	8	.....	.....	2 cu., se.	0.....	
13...	29.85	29.79	76.5	78.0	81	75	71.0	76	72.0	75	SE	8	S	2	.....	.....	9 a. s., sw	Few a. s., sw.....	
14...	29.76	29.76	78.0	75.7	80	72	74.0	83	72.2	84	SW	10	NW	10	T.	.05	Few ci. s., 0....	10 s. cu., nw.....	
15...	29.81	29.82	74.0	74.0	77	74	69.0	78	67.0	69	NW	20	NW	16	.....	.....	8 a. s., nw.....	10 s. cu., nw.....	
16...	29.88	29.83	74.0	73.4	76	73	65.0	61	66.9	71	NW	14	NW	20	.....	.....	7 s. cu., nw	3 s. cu., nw	
17...	29.85	29.85	71.2	68.5	73	68	60.7	54	61.0	65	NW	27	NW	25	.....	.....	1 s. cu., nw	8 s. cu., nw	
18...	29.94	29.92	66.4	70.2	72	65	58.9	64	60.7	57	NE	12	NE	5	.....	.....	3 cu., ne	0.....	
19...	29.95	29.91	75.5	74.8	79	70	65.5	58	67.3	68	E	8	SE	7	.....	.....	Few a. s., 0....	0.....	
20...	29.93	29.87	76.0	76.0	81	74	71.5	80	71.5	80	S	4	W	10	.....	.....	Lt. haze	0.....	
21...	29.87	29.83	75.5	74.6	78	73	67.0	64	68.1	72	NW	15	NW	14	.....	.....	0.....	2 s. cu., nw.....	
22...	29.88	29.86	71.0	73.4	76	71	68.0	86	65.9	67	NW	15	W	12	.....	.....	6 s. cu., nw	4 s. cu., w	
23...	29.98	30.03	72.0	70.2	76	67	59.0	45	62.7	66	NW	12	NW	20	.....	.....	Lt. haze	5 ci. s., w.....	
24...	30.15	30.10	65.0	70.5	71	64	57.5	63	63.0	66	NE	10	NE	10	.....	.....	2 s. cu., ne	0.....	
25...	30.08	30.00	72.0	73.0	78	69	64.0	65	65.0	65	E	10	E	8	.....	.....	1 a. s., 0.....	0.....	
26...	29.96	29.92	73.0	73.7	76	68	66.0	69	69.7	82	E	8	NE	9	.....	.44	9 a. s., w	Few s. cu., e.....	
27...	30.02	30.05	72.0	73.4	74	70	66.0	79	62.4	53	NE	16	NE	20	.....	.....	2 s. cu., ne....	0.....	
28...	30.15	30.19	71.0	71.2	77	68	65.0	72	63.2	64	NE	16	E	16	.....	.....	8 a. s., sw.....	3 ci. s., sw	⊕
29...	30.21	30.16	70.0	72.0	77	69	64.0	72	65.0	69	NE	12	E	12	.....	.....	9 s. cu., ne....	5 s. cu., e.....	
30...	30.15	30.08	72.0	73.0	78	69	65.0	69	66.0	69	E	8	E	7	.....	.....	6 s. cu., e	8 s. cu., e	
Mn.	30.00	29.97	73.2	73.6	77.7	70.5	66.2	69.4	66.5	68.9	NE	11.2	E	10.9	.01	.54	3.4 s. cu., ne...	2.6 s. cu., e., nw...	

KEY WEST, FLA.

[φ=24° 34′ N; λ=81° 49′ W; barometer above sea, 22 feet; gravity correction applied −.05.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.08	30.06	72.0	73.8	80	71	67.0	77	66.3	67	NE	8	NE	8	....	....	8 a. s., sw	8 ci. cu., w	
2	30.04	30.02	74.0	75.0	81	73	66.0	65	69.0	74	SE	6	E	11	T.	....	9 a. s., sw	10 s. cu., e	
3	30.06	30.01	75.0	76.0	81	73	70.0	78	67.0	62	E	8	NE	5	T.	....	3 cu., e	Few a. s., 0	
4	30.04	30.00	75.5	75.7	81	73	69.0	72	68.7	70	NE	6	E	4	....	....	Lt. haze	7 ci. s., 0	☂
5	30.01	29.98	75.5	76.0	81	74	69.0	72	70.0	74	NE	8	E	12	....	....	3 ci. s., 0	5 ci. s., 0	☾a.
6	29.97	29.91	76.5	76.3	82	75	69.0	68	69.8	72	SE	12	E	12	....	....	9 a. s., 0	10 a. s., w	
7	29.87	29.78	73.0	76.5	76	71	69.5	84	71.0	76	E	10	S	12	0.05	0.18	10 s., se	10 s. cu., s	◪
8	29.79	29.77	75.5	76.0	79	68	72.5	86	70.0	74	SW	20	NW	12	.01	....	0	4 cu., w	
9	29.78	29.73	75.0	76.6	79	74	69.0	74	70.1	72	SW	20	W	24	....	....	2 cu., sw	5 cu., w	
10	29.77	29.78	74.5	73.7	76	73	66.5	66	67.2	71	NW	16	NW	12	T.	....	2 cu., nw	9 s. cu., nw	
11	29.85	29.80	74.5	74.4	78	72	67.0	68	67.9	71	NW	6	NW	4	....	....	3 ci., sw	6 ci. s., 0	
12	29.82	29.83	75.0	77.4	83	74	71.5	84	72.9	81	SE	15	SE	7	T.	T.	10 s., se	10 n., se	
13	29.80	29.79	77.0	77.0	83	74	73.0	83	74.0	87	SE	5	N	5	.34	....	9 a. s., sw	9 s. cu., n	
14	29.80	29.76	76.0	76.0	80	75	72.0	82	70.0	74	NW	8	NW	10	....	....	5 cu., nw	0	
15	29.80	29.80	76.2	76.0	80	75	70.0	74	69.0	70	SW	15	NW	12	....	....	3 cu., sw	4 cu., nw	
16	29.92	29.92	76.0	74.3	78	74	68.0	66	67.8	71	NW	8	NW	7	....	....	3 cu., nw	2 ci. s., w	
17	29.99	29.98	75.5	76.5	80	72	67.0	64	70.0	72	NW	4	NW	4	....	....	3 cu., nw	8 s. cu., ne	
18	29.99	29.97	79.0	76.1	83	74	71.0	68	70.1	74	E	5	E	12	....	T.	4 s. cu., e	10 s. cu., ne	
19	30.01	30.01	78.0	76.5	80	75	68.0	60	68.0	64	E	15	E	13	....	....	1 s. cu., e	Few cu., e	
20	30.06	30.05	77.0	76.1	81	74	67.5	61	66.6	61	E	12	E	15	....	....	4 cu., e	Few cu., e	
21	30.06	30.04	76.0	76.3	81	74	68.0	66	67.8	57	NE	10	E	12	....	....	Few cu., ne	Few s. cu., e	
22	30.07	30.04	76.0	76.8	82	75	70.5	76	69.8	71	E	6	E	15	....	T.	6 s., e	Few s. cu., e	
23	30.06	29.98	77.0	74.0	81	74	69.0	67	70.0	82	NE	6	E	14	....	.11	0	10 n., ne	
24	30.04	30.02	79.0	77.5	84	74	73.0	75	72.0	77	SE	8	E	7	.06	....	4 a. s., e	Few s. cu., e	
25	30.06	30.06	78.8	77.0	84	74	70.3	66	70.9	71	SE	12	E	12	....	....	3 cu., se	Few cu., e	
26	30.09	30.06	79.0	78.0	86	75	72.0	71	72.5	77	NE	10	E	12	....	....	Few cu., ne	Few s. cu., e	
27	30.06	30.03	80.0	78.6	86	76	72.5	70	71.1	69	E	10	E	12	....	....	3 cu., e	Few a. s., e	
28	30.02	29.97	79.5	78.0	86	76	71.0	66	71.0	71	NE	12	E	15	....	T.	3 cu., ne	Few a. s., 0	
29	29.99	29.95	80.1	79.0	86	76	73.0	72	73.5	77	E	12	E	15	.01	....	2 cu., e	4 cu., e	
30	29.97	29.92	79.5	78.5	86	73	73.0	74	71.5	71	NE	10	SE	4	....	....	3 cu., ne	Few ci., w	
31	29.96	29.97	79.0	79.5	87	74	73.0	75	73.0	74	N	3	N	4	....	....	3 cu., n	Few ci., w	
Mn	29.96	29.94	76.6	76.4	81.6	73.7	69.9	71.9	69.9	72.1	ne / c	9.9	E	10.4	.47	.29	3.8 cu., e	4.2 s. cu., e	

JUNE, 1903.

1	30.04	30.03	82.0	80.0	88	75	73.0	65	74.0	75	E	5	N	7	....	....	Few ci. s., 0	1 a. s., sw	
2	30.04	30.02	81.5	80.0	86	76	73.5	69	74.5	77	E	3	E	10	....	....	5 ci. s., 0	2 cu., e	
3	30.02	30.02	82.0	79.0	87	78	74.0	69	71.5	69	SE	10	E	12	....	....	4 cu., se	1 a. s., ne	
4	30.03	30.04	81.0	79.5	85	78	73.0	68	72.5	72	SE	12	E	14	....	T.	9 a. s., 0	9 a. s., w	
5	30.07	30.05	81.0	80.0	86	77	74.0	72	73.5	74	SE	11	E	9	....	....	8 a. s., sw	10 s. cu., e	
6	30.08	30.03	82.0	79.0	86	76	74.5	70	74.0	79	E	10	SE	10	....	T.	4 a. s., w	2 s., 0	
7	30.01	29.95	77.5	78.0	82	73	75.0	89	74.0	83	SE	4	S	8	0.47	0.01	9 n., se	3 s. cu., s	◪
8	29.95	29.87	77.0	79.0	84	74	72.0	79	74.0	79	S	5	SW	2	T.	.14	10 n., s	2 s. cu., 0	
9	29.91	29.90	81.0	79.5	85	74	73.0	68	73.0	74	E	2	N	1	....	....	4 cu., e	0	
10	29.97	29.95	81.5	81.0	90	74	73.0	67	74.0	72	N	2	SW	2	....	....	1 cu., se	0	
11	29.97	29.92	82.5	81.0	90	77	73.5	65	74.0	72	SW	12	SW	6	....	....	5 ci. s., w	3 s. cu., 0	
12	29.89	29.85	82.0	81.0	89	77	75.0	72	76.0	80	W	6	NW	5	T.	.19	3 cu., w	2 s. cu., 0	
13	29.85	29.85	84.5	82.0	91	78	76.0	68	75.5	74	SW	4	NE	2	....	....	2 cu., sw	3 s. cu., 0	
14	29.89	29.88	81.0	83.0	89	79	76.0	80	75.0	69	SW	4	NE	4	....	....	6 cu., sw	1 s., 0	
15	29.90	29.86	85.0	77.0	91	75	73.0	56	75.0	91	S	3	E	6	....	1.74	1 cu., s	10 n., e	◪
16	29.85	29.78	82.0	81.0	87	77	77.0	80	76.5	82	S	6	N	3	.06	.15	5 a. cu., s	3 s. cu., 0	
17	29.82	29.81	84.0	79.5	87	73	75.0	66	75.0	81	N	1	E	4	.23	.01	3 ci. s., 0	5 s. cu., e	
18	29.82	29.83	80.0	79.0	86	78	75.5	81	75.0	83	E	5	SW	4	....	....	8 a. s., w	9 s. cu., sw	
19	29.86	29.86	82.0	79.5	89	76	75.5	74	76.0	85	S	5	SE	6	....	T.	3 cu., s	10 s. cu., 0	
20	29.90	29.84	81.0	82.0	88	76	76.0	80	78.0	84	S	20	S	6	....	....	8 s. cu., s	10 s., s	
21	29.87	29.84	81.5	81.5	87	78	78.0	86	78.0	86	S	10	SW	10	.12	....	8 s., s	Few s. cu., sw	
22	29.88	29.89	83.0	80.0	90	77	78.0	80	78.0	91	SW	12	SW	12	.16	.26	3 cu., sw	10 n., sw	
23	29.91	29.87	82.3	81.5	88	78	78.2	84	78.0	86	SW	11	W	1	.02	....	10 s., sw	4 ci. cu., 0	
24	29.90	29.89	84.0	82.0	91	78	77.0	73	74.5	70	SW	8	SW	1	....	....	2 a. s., 0	3 a. cu., sw	
25	29.95	29.96	85.0	84.0	89	80	79.0	76	76.0	69	S	6	SE	5	....	....	1 cu., s	5 s. cu., 0	
26	30.05	29.96	76.0	82.5	88	69	70.5	76	76.0	74	NE	5	SE	6	.72	....	9 s., 0	2 s., se	◪
27	30.03	29.92	84.5	83.0	89	80	77.0	71	76.0	72	SE	6	SE	6	....	....	2 cu., se	Few s., 0	
28	29.96	29.90	84.0	81.5	89	79	78.0	76	77.0	81	SE	3	E	2	....	....	7 a. s., sw	4 a. cu., 0	
29	29.98	30.02	84.0	78.5	89	78	77.0	73	73.5	79	S	10	SE	4	T.	.46	5 ci. s., nw	10 s., 0	
30	30.05	30.02	84.0	83.5	89	79	78.0	76	77.0	74	E	8	E	12	....	T.	6 a. s., 0	10 n., e	
Mn	29.95	29.92	82.0	80.7	87.8	76.6	75.3	73.6	75.2	77.9	S	7.0	E	6.0	1.78	2.96	5.0 cu., s	4.4 s. cu., e., sw	

KEY WEST, FLA.

[φ=24° 34′ N; λ=81° 49′ W; barometer above sea, 22 feet; gravity correction applied −.05.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.01	29.98	83.0	80.0	86	77	77.0	76	74.0	75	E	8	NE	10	0.08	T.	6 s. cu., e	4 s. cu., ne	
2	29.99	30.00	81.0	78.0	88	78	76.0	80	74.0	83	E	6	E	18			10 s. cu., e	10 s., e	
3	30.02	30.01	82.5	83.0	89	80	76.5	76	76.0	72	E	8	SE	8			9 a. s., w	5 s., 0	
4	30.03	30.01	83.0	80.0	89	79	77.0	76	78.0	91	NE	8	SE	6		0.02	5 ci. s., nw	10 n., 0	
5	30.03	30.02	83.0	82.5	87	78	76.0	72	75.0	70	E	8	E	10	.10		3 cu., e	Few cu., e	
6	30.03	30.01	85.0	82.5	89	80	76.0	66	75.5	72	E	8	SE	12			3 cu., e	3 cu., se	
7	30.01	29.99	85.0	82.5	88	80	76.0	66	80.0	90	E	10	E	12			3 cu., e	3 s. cu., e	
8	30.00	29.99	85.0	83.1	90	80	76.0	66	76.1	73	E	6	E	11			Few ci. s., 0	2 ci. s., se	
9	30.03	30.01	82.0	83.5	88	80	79.5	90	76.0	71	E	6	E	8	.12		5 s. cu., e	3 cu., e	
10	30.04	30.03	84.0	82.5	87	81	77.5	74	77.5	80	SE	10	SE	12	.02	T.	7 s. cu., se	2 ci. s., 0	
11	30.02	30.02	82.0	82.0	88	79	75.5	68	74.5	70	S	6	E	10			5 a. cu., 0	2 ci. s., nw	
12	30.02	30.01	81.0	82.0	86	77	76.0	80	75.5	74	S	12	SE	8	.19		8 s. cu., s	1 a. s., nw	
13	29.98	30.00	81.5	82.5	90	78	74.5	72	75.5	71	W	5	SW	5			7 a. s., 0	5 s. cu., sw	
14	29.98	29.99	83.5	78.8	90	76	76.0	71	78.3	98	SW	11	NW	20			7 a. cu., sw	10 a. s., 0	
15	29.95	29.96	82.0	81.0	88	76	76.0	76	78.0	88	SW	6	W	15	.09	1.02	2 ci. cu., 0	10 s., w	
16	29.95	29.96	82.0	83.0	88	79	74.5	70	77.0	76	SW	6	W	8			5 s. cu., 0	1 s. cu., 0	
17	29.99	29.97	86.0	83.5	89	79	76.0	63	77.0	74	sW	4	W	5			2 s. cu., 0	Few a. s., 0	
18	30.00	29.98	84.0	83.2	89	79	76.0	69	75.0	68	W	5	NW	5			2 cu., w	4 a. s., 0	
19	29.98	29.94	82.5	84.2	90	77	75.5	72	78.0	75	N	4	N	6		T.	4 a. s., n	4 s. cu., n	
20	29.95	29.96	85.0	85.5	91	82	77.0	70	76.5	73	S	6	E	4		.12	1 ci. s., 0	1 a. s., 0	
21	29.95	29.96	85.0	83.0	90	81	77.0	70	76.5	74	SE	5	NE	2			Few a. s., 0	2 s. cu., 0	
22	29.98	29.97	84.5	83.5	90	81	78.5	76	75.5	69	S	4	E	4			2 a. s., 0	2 ci. s., 0	
23	29.97	29.95	84.0	84.0	90	80	77.0	73	76.0	69	S	6	E	6	T.		2 s. cu., s	2 s. cu., e	
24	29.94	29.89	86.0	80.0	89	79	76.5	64	74.0	75	E	6	E	10		.12	4 s. cu., sc	10 s., 0	
25	30.00	29.98	79.5	84.0	88	74	76.0	83	76.5	71	E	4	E	8	.15		5 s., 0	5 ci. s., 0	☐
26	30.04	29.97	84.0	84.0	88	81	77.5	74	77.0	78	SE	8	E	6	T.		4 s. cu., se	Few a. s., 0	
27	30.07	30.03	83.5	79.5	90	79	77.5	76	75.0	81	E	5	E	3		.62	4 ci., 0	4 a. s., 0	☐
28	30.00	30.01	82.5	81.0	88	77	77.5	80	76.0	80	E	3	NE	4		.01	4 s. cu., se	10 s., 0	☐
29	30.01	30.00	85.0	83.0	90	78	77.0	70	77.0	76	S	6	NE	5			7 s. cu., 0	3 ci. s., 0	
30	30.04	30.01	82.0	83.0	88	81	78.5	86	76.5	74	S	3	SE	10	.14	.04	5 s. cu., s	Few a. s., 0	☐
31	30.06	30.03	83.0	80.3	89	76	77.0	76	75.3	79	E	8	SE	20		.03	4 s. cu., e	10 n., se	
Mn.	30.00	29.99	83.4	82.1	88.7	78.8	76.6	73.6	76.2	76.3	E	6.5	E	8.7	.89	1.98	4.4 s. cu., e	4.1 ci. s., a. s., s. cu., e	

AUGUST, 1903.

1	30.04	30.03	81.0	82.3	88	75	76.5	82	75.8	74	NE	10	SE	8	0.05	0.01	9 s., ne	3 cu., se	☐
2	30.15	30.09	80.0	83.0	88	73	76.0	83	77.0	76	E	4	E	13	.58		8 s., e	2 s. cu., se	☐
3	30.15	30.07	83.5	82.5	89	79	77.5	76	76.5	76	NE	10	NE	8		.06	Few cu., 0	5 s. cu., ne	
4	30.03	29.97	82.5	82.0	88	77	76.0	74	74.5	70	E	4	SE	6	.14		5 a. s., 0	2 a. s., 0	
5	29.98	30.00	83.5	82.5	88	78	76.5	73	76.0	74	E	4	SE	4			2 cu., 0	1 a. s., 0	
6	30.04	29.98	83.5	83.5	90	77	77.0	74	76.0	71	SE	2	SE	2			2 cu., 0	1 s. cu., e	
7	30.04	30.02	85.0	84.0	89	77	78.0	73	75.5	68	SE	1	N	4	T.	T.	2 cu., 0	6 ci., 0	☐
8	29.99	29.98	81.0	84.0	91	78	75.5	78	75.5	68	SE	3	W	4			6 cu., 0	Few a. s., 0	
9	29.98	29.98	84.5	84.3	90	79	76.5	69	75.8	68	S	4	E	5			3 cu., s	8 ci., 0	
10	30.03	30.00	86.0	84.0	91	82	78.0	70	76.0	69	SE	6	E	9			3 cu., se	1 ci. s., sw	∞°p.
11	30.00	29.94	85.4	85.2	93	81	77.0	68	76.2	66	E	10	NE	15			1 cu., e	1 cu., ne	∞°
12	29.90	29.90	77.0	79.5	81	72	73.0	83	75.5	83	E	10	NE	9	.20	1.15	10 n., 0	10 s., 0	☐
13	29.92	29.90	77.0	82.5	86	73	76.0	96	78.5	84	SE	5	SE	12	1.14	.54	10 n., 0	10 n., se	☐
14	29.95	29.95	83.0	82.3	88	78	77.0	76	76.3	76	SE	12	E	12	T.	.06	7 a. s., se	8 ci. s., 0	
15	29.95	29.96	83.5	82.5	88	79	77.0	74	75.0	71	SE	6	SE	6	.09		5 s. cu., se	5 s., 0	
16	29.97	29.95	84.0	82.4	88	81	76.2	70	75.9	74	SE	10	E	5			3 cu., se	2 cu., e	
17	29.96	29.93	83.5	82.5	88	80	76.0	71	76.0	74	S	10	SE	4			1 cu., s	Few s. cu., se	
18	29.90	29.87	81.0	81.8	91	76	77.0	84	75.8	76	S	6	SW	1	.12		5 s. cu., s	Few s. cu., sw	
19	29.87	29.87	85.0	83.0	92	78	77.0	70	76.0	72	SW	2	SE	1			1 cu., 0	1 s. cu., se	
20	29.87	29.89	84.0	83.3	92	79	77.0	73	73.8	64	SE	5	SW	1		T.	4 cu., se	4 ci. s., nw	
21	29.94	29.96	78.0	83.3	89	78	76.0	91	76.3	73	SE	1	SE	7	.10		9 s., se	3 cu., se	☐
22	29.96	29.96	85.5	84.9	91	82	78.0	71	77.9	78	SE	8	E	8			4 cu., 0	4 ci. s., nw	
23	29.95	29.96	85.0	84.6	90	82	78.0	78	78.1	75	SE	10	E	12		T.	4 ci. s., ne	2 ci. s., w	
24	29.98	30.01	86.5	83.7	90	83	78.0	71	77.2	74	SE	10	E	9			3 cu., se	Few ci. s., nw	
25	30.04	30.04	85.0	83.2	91	81	78.0	73	76.7	74	NE	5	SE	8			1 cu., e	1 cu., se	
26	30.04	30.00	84.0	83.5	90	80	78.0	76	77.5	76	SE	4	E	6			3 s. cu., se	2 cu., se	☐
27	30.00	29.99	85.5	82.0	90	79	77.5	70	76.0	76	E	3	E	1		T.	2 ci. s., e	0	
28	29.99	29.97	82.5	84.0	91	80	77.5	80	77.0	73	SE	3	SE	2			5 s. cu., se	8 s. cu., ne	
29	29.97	29.91	85.0	84.5	91	78	77.5	71	77.0	71	E	2	N	1			4 ci. s., nw	Few cu., e	
30	29.93	29.91	85.0	83.2	92	78	77.0	70	77.2	76	SE	2	E	3		T.	1 ci. s., n	2 ci. s., 0	
31	29.90	29.88	85.0	83.2	92	80	77.0	70	76.5	74	S	3	SE	1			1 cu., s	1 cu., se	
Mn.	29.98	29.96	83.2	83.1	89.5	78.5	76.9	75.3	76.3	73.2	SE	5.6	SE	6.0	2.42	1.82	4.0 cu., se	3.0 cu., se	

KEY WEST, FLA.

[φ=24° 34′ N; λ=81° 49′ W; barometer above sea, 22 feet; gravity correction applied −.05.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.89	29.92	85.0	84.0	92	81	78.0	73	77.0	73	SE	4	E	4	.....	.....	2 cu., se	Few a. s., 0	
2	29.96	29.96	84.2	85.2	93	80	77.2	73	78.0	72	S	6	E	5	.....	.....	2 ci. s., sw	5 cu., ne	
3	29.97	29.96	85.8	85.2	91	72	79.0	74	78.0	72	S	6	N	9	.....	.....	5 ci. s., w	7 cu., n	
4	29.93	29.94	82.8	81.7	89	78	78.0	81	76.2	78	SW	3	NE	3	1.22	T.	10 a. s., w	7 a. s., 0	☐
5	29.92	29.90	84.7	82.2	88	79	78.0	74	77.0	79	SW	5	E	1	.....	.....	4 ci. s., nw	8 a. s., w	
6	29.91	29.91	82.0	81.0	87	77	78.0	84	75.5	78	SW	6	NE	7	.....	.....	5 ci. s., w	10 a. s., w	☉
7	29.91	29.92	80.0	82.5	89	78	76.0	83	77.5	80	SE	6	SW	10	.01	T.	10 s. cu., se	9 s. cu., nw	
8	29.95	29.96	83.0	83.8	89	79	77.5	78	77.3	74	S	5	W	10	.....	.....	7 a. s., n	10 s. cu., nw	
9	29.98	29.98	80.3	81.0	82	74	77.3	87	76.5	82	E	10	NE	6	.13	0.38	10 s. cu., ne	10 n., e	☐
10	29.94	29.91	82.2	81.0	88	77	77.5	81	76.0	80	NE	12	E	6	.01	.02	5 ci. s., sw	2 s. cu., ne	
11	29.88	29.84	81.5	83.5	87	76	76.5	80	76.0	71	NE	12	NW	26	.....	.28	3 ci. s., 0	10 n., nw	
12	29.88	29.95	82.6	82.0	87	80	76.5	76	77.5	82	SW	30	SW	14	.04	.....	9 ci. s., e	10 s. cu., sw	
13	29.99	30.02	83.0	83.5	88	79	77.0	76	78.0	78	S	9	SE	7	.....	.....	Few cu., s	8 s. cu., se	
14	30.04	30.03	83.6	83.0	89	76	76.5	73	77.2	77	SE	2	E	5	.....	.01	0	3 ci. s., 0	
15	30.04	30.02	84.0	82.2	88	79	78.0	76	76.2	76	E	8	E	4	.....	.....	Few ci. s., ne	2 a. s., 0	
16	30.03	30.01	82.7	82.3	88	78	77.0	77	77.3	80	NE	8	E	4	.....	T.	2 ci. s., ne	4 s. cu., e	☐
17	30.03	29.96	80.6	82.4	87	79	77.0	85	76.4	76	N	5	NE	6	T.	.....	10 s., n	4 s. cu., ne	☐
18	29.95	29.97	83.5	82.0	88	77	76.5	73	76.4	78	NE	1	E	6	.....	.05	Few ci., w	Few cu., ne	
19	29.95	29.96	82.0	78.5	87	75	78.0	84	75.5	87	NE	4	E	4	.30	.30	1 cu., ne	3 s. cu., ne	☐
20	29.97	29.96	82.0	79.2	86	76	77.0	80	75.7	85	NE	9	NE	18	.....	T.	3 cu., ne	5 n., ne	
21	29.97	29.94	82.0	83.1	87	78	75.4	74	74.6	67	NE	10	NE	8	T.	.....	Few cu., ne	Few s. cu., n	
22	29.94	29.88	80.0	81.5	87	78	74.5	77	74.0	70	NE	10	N	12	.....	.....	Few cu., ne	0	
23	29.85	29.82	81.0	80.2	85	76	73.2	69	71.2	64	N	6	N	10	.....	T.	2 cu., n	0	
24	29.89	29.91	80.7	78.8	84	73	73.7	72	74.0	80	N	6	N	4	.....	.....	Few ci., w	Few a. s., 0	
25	29.97	29.97	80.0	79.7	86	70	70.0	61	72.0	69	N	3	E	4	.....	.....	1 ci. s., w	0	
26	30.03	30.01	81.7	81.2	89	76	75.0	73	75.4	76	E	7	E	7	.....	T.	4 s., se	7 ci. s., sw	☐
27	30.05	30.02	80.0	77.5	88	75	76.0	83	72.5	79	E	3	NE	3	T.	.....	10 a. s., n	10 s., 0	☐
28	30.05	30.05	82.0	78.0	86	74	77.0	80	74.0	83	NE	10	NE	14	.....	T.	4 a. s., n	10 n., ne	☉
29	30.03	30.02	77.2	80.7	84	74	74.0	86	76.2	81	NE	14	E	12	.07	T.	9 a. s., se	10 s., e	
30	30.05	30.06	80.0	77.0	87	73	75.3	80	74.0	87	NE	12	E	8	.08	.10	10 a. s., 0	10 s., 0	☐
Mn.	29.96	29.96	82.0	81.5	87.5	76.6	76.4	77.4	75.8	77.1	NE	7.7	E	7.9	1.86	1.14	4.3 ci. s., ne	5.3 s. cu., ne	

OCTOBER, 1903.

1	30.08	30.07	77.2	78.5	86	73	76.0	95	74.0	81	NE	10	E	16	0.68	T.	8 ci. s., se	9 s. cu., e	
2	30.06	30.01	79.0	79.0	85	77	75.4	85	73.6	78	NE	12	NE	8	.....	.....	10 a. cu., w	Few cu., se	
3	29.98	29.96	78.0	78.8	85	76	73.0	79	72.8	75	NE	12	E	12	.....	.....	0	Few a. s., ne	
4	29.97	29.94	78.0	78.0	85	76	73.0	79	70.0	67	NE	14	E	10	.....	.....	Few cu., ne	0	
5	29.94	29.93	78.5	78.5	85	74	74.5	83	73.0	77	NE	8	NE	10	.02	T.	0	Few cu., e	
6	29.92	29.91	79.0	79.0	85	75	74.0	79	77.5	93	NE	7	NE	8	.....	.....	0	Few ci. s., se	
7	29.95	29.96	80.0	79.0	85	75	74.0	75	74.5	81	NE	8	E	5	.....	.....	0	1 cu., e	
8	30.00	29.90	81.0	80.5	84	74	74.0	72	74.0	74	NE	4	NW	16	.....	.....	0	0	
9	29.85	29.79	76.0	75.5	80	74	66.0	59	67.0	64	NE	18	NW	18	.24	.....	4 a. s., nw	2 cu., nw	
10	29.76	29.74	74.0	74.0	78	72	64.5	60	66.0	65	NE	8	NW	14	.....	.....	2 a. cu., nw	Few s. cu., sw	
11	29.83	29.91	74.0	72.5	82	70	64.0	58	66.0	71	E	4	NW	1	.....	.....	0	Few s. cu., nw	
12	30.00	30.02	76.0	77.5	84	70	68.5	68	71.5	74	NE	4	NE	8	.....	.....	4 ci. s., w	Few s. cu., 0	
13	30.04	30.01	78.0	78.0	86	76	72.0	75	73.0	79	NE	8	E	8	.02	.....	4 ci. cu., sw	Few s. cu., 0	
14	29.98	29.94	79.5	77.5	84	75	72.0	70	71.5	74	NE	9	E	8	.....	.....	2 a. s., 0	4 a. s., w	
15	29.93	29.88	79.0	78.0	83	74	71.0	68	71.5	73	NE	6	NE	10	.....	.....	5 a. s., se	Few s. cu., nw	
16	29.91	29.87	75.5	79.5	85	74	73.0	89	74.5	79	SE	8	SE	15	T.	T.	10 s., 0	Few s. cu., 0	
17	29.91	29.90	80.5	80.0	86	77	77.0	85	78.0	91	S	8	SE	3	.08	.....	6 a. s., 0	Few ci. s., s	
18	29.95	29.93	76.5	78.5	85	76	75.0	93	74.0	81	NE	5	NE	6	.19	.....	10 s., 0	Few a. s., 0	☐
19	29.92	29.90	77.5	77.5	81	76	74.0	85	74.0	85	NE	9	NE	12	.....	0.03	6 cu., 0	7 cu., e	
20	29.89	29.87	76.0	78.0	81	74	71.0	78	72.0	75	NE	10	NE	15	.03	.....	3 a. cu., ne	8 ci. s., w	
21	29.87	29.89	78.0	77.5	84	75	73.0	79	73.0	81	NE	15	NE	10	.....	.01	3 cu., ne	1 a. s., sc	
22	29.90	29.87	77.5	77.0	84	73	73.0	81	74.0	87	NE	12	NE	10	.....	.46	2 cu., ne	0	
23	29.90	29.82	77.0	77.0	82	75	73.5	85	73.5	85	NE	8	NE	6	.....	.....	1 a. s., 0	2 ci. s., sw	
24	29.82	29.89	75.0	78.0	80	70	72.0	86	65.5	67	N	4	NW	20	.12	.....	3 s. cu., 0	1 cu., nw	
25	30.05	30.11	64.0	65.5	70	61	55.0	56	56.5	56	NE	15	N	14	.....	.....	0	Few s. cu., n	
26	30.16	30.17	66.0	69.0	73	61	58.0	61	64.0	76	N	8	NE	7	.....	.....	7 s. cu., 0	0	
27	30.19	30.14	70.5	71.5	76	68	62.0	62	66.0	75	NE	8	NE	12	.....	.....	0	Few cu., ne	
28	30.09	30.05	71.0	73.0	79	70	66.0	77	67.0	72	NE	10	NE	8	.....	.....	5 a. s., 0	0	
29	30.03	29.99	72.5	75.0	80	70	69.5	86	71.0	82	NE	8	E	14	.....	T.	2 a. s., 0	10 ci. s., 0	
30	29.99	29.96	73.0	75.0	75	70	72.5	98	73.0	91	E	12	E	10	.76	1.38	10 n., 0	10 n., 0	
31	29.98	29.99	71.5	75.0	80	71	70.5	96	74.0	96	E	14	E	7	.13	.....	10 s., e	Few ci. s., 0	
Mn.	29.96	29.94	75.8	76.3	81.9	72.6	70.5	77.5	71.2	77.6	NE	9.2	NE	10.4	2.27	1.83	3.8 a. s., ne	1.8 cu., nw	

KEY WEST, FLA.

[φ=24° 34′ N; λ=81° 49′ W; barometer above sea, 22 feet; gravity correction applied, −.05.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.04	30.02	76.0	76.5	83	74	73.5	89	73.5	87	NE	6	NE	10			2 ci. s., sw	1 ci. s., 0	
2	30.02	29.99	76.5	76.5	80	74	73.5	87	73.0	84	NE	8	NE	11			4 ci. s., sw	4 ci. s., s	
3	30.00	29.97	76.0	76.5	83	74	74.0	91	74.5	91	NE	6	NE	8		T.	5 s. cu., ne	9 a. s., 0	
4	29.94	29.87	77.5	77.0	83	73	75.0	89	75.5	93	SE	4	E	3	0.06		7 s. cu., 0	1 cu., ne	
5	29.87	29.84	77.0	76.0	79	75	75.0	91	73.5	89	NW	6	N	8			3 cu., nw	4 cu., n	
6	29.88	29.92	75.0	73.0	78	71	71.0	82	69.0	82	N	4	NW	10		0.05	1 a. cu., nw	3 s. cu., nw	
7	30.01	30.02	71.0	70.5	77	70	64.0	68	64.0	70	NE	12	NE	5			2 ci. s., w	6 cu., ne	
8	30.02	30.03	73.0	71.5	77	68	68.0	78	66.5	77	NE	6	NE	12			Few cu., 0	0	
9	30.05	30.03	72.5	72.5	78	71	68.5	82	67.0	75	NE	12	N	10			Few ci., sw	0	
10	30.05	30.02	71.0	69.0	76	65	65.0	72	63.5	74	NE	6	NE	6			Few cu., ne	0	
11	30.01	29.99	70.5	72.0	79	65	66.0	79	68.0	82	NE	4	NE	6			0	Few s. cu., ne	
12	30.03	30.03	73.0	72.0	78	69	66.5	71	66.5	75	NE	8	NE	8			Few cu., 0	0	
13	30.08	30.05	72.5	73.0	80	70	67.5	78	69.0	82	NE	8	NE	7			4 ci. cu., e	0	
14	30.10	30.08	74.0	73.5	79	70	68.5	76	69.0	80	NE	6	NE	7			0	0	
15	30.08	30.07	74.0	74.0	82	72	69.0	78	69.5	80	NE	8	NE	8			3 a. cu., e	0	
16	30.03	29.99	75.5	74.5	81	72	71.0	80	70.5	82	NE	4	NE	8			2 cu., 0	0	
17	29.99	29.98	75.0	74.5	83	71	71.0	82	71.0	84	NE	5	E	4		T.	2 s. cu., e	0	
18	30.01	30.03	74.5	74.0	80	73	72.0	89	69.5	80	NE	8	N	14			8 a. cu., ne	0	
19	30.09	30.08	68.0	72.0	73	67	68.0	76	67.5	79	NE	16	NE	15			0	9 cu., ne	
20	30.07	30.05	72.0	73.0	78	70	68.0	82	67.0	73	NE	16	NE	20			3 a. cu., e	10 cu., ne	
21	30.07	30.02	68.0	71.5	72	67	66.0	90	68.0	84	NE	18	NE	12	.65		10 s., 0	10 s. cu., ne	
22	30.01	29.99	69.0	69.0	75	67	65.0	81	64.5	79	NE	12	NE	15			5 a. s., sw	3 cu., ne	
23	29.98	29.98	68.5	71.0	73	68	66.0	88	68.5	88	NE	10	N	15			9 s. cu., ne	0	
24	30.00	30.01	71.0	71.0	75	70	68.0	86	66.0	77	NE	10	N	6			0	0	
25	29.98	29.94	69.5	67.5	76	66	64.5	76	63.0	78	NE	8	N	3			0	Few cu., n	
26	29.89	29.90	72.0	67.5	74	64	65.0	69	64.0	83	W	4	N	20			0	10 a. s., 0	
27	30.06	30.06	57.5	57.5	64	55	52.0	69	51.5	66	N	18	N	20			10 s., n	6 cu., n	
28	30.12	30.03	52.0	55.0	61	51	46.0	63	51.5	79	N	9	N	1			0	Few cu., n	
29	29.94	29.91	67.0	69.5	74	56	61.0	71	66.0	83	W	12	W	7			1 s., 0	0	
30	30.00	30.05	67.5	61.5	69	59	63.5	80	57.0	76	NE	5	N	12			Lt. fog, 0	3 cu., n	
Mn	30.01	30.00	71.2	71.1	76.7	67.9	66.9	79.8	66.9	80.4	NE	8.6	NE	9.7	.71	.05	2.8 cu., ne, e, sw	2.7 cu., ne	

DECEMBER, 1903.

1	30.09	29.98	59.5	59.5	65	57	51.5	58	55.5	78	NE	12	NE	4			0	0	
2	29.88	29.86	72.0	70.0	72	61	65.0	69	62.5	66	SW	10	NW	24		0.42	9 s. cu., sw	10 s. nw	
3	30.00	30.05	59.0	58.0	62	56	54.0	72	50.0	56	NE	12	NE	12			9 s. cu., nw	0	
4	30.10	30.12	59.0	61.0	65	56	55.0	75	58.5	86	NE	10	NE	6			0	0	
5	30.17	30.17	63.0	65.0	70	62	60.0	84	62.0	85	NE	6	NE	8			1 a. cu., e	Few s. cu., 0	
6	30.17	30.11	66.0	66.5	72	64	63.5	87	64.0	87	NE	4	N	3			0	8 cu., 0	
7	30.12	30.08	59.0	60.0	64	58	52.0	62	53.0	63	NE	10	NW	8			0	0	
8	30.06	29.98	61.0	63.2	66	60	57.0	78	56.7	67	N	6	NW	10			1 cu., n	0	
9	29.90	29.92	69.0	68.8	75	57	62.0	67	63.3	74	SW	16	NW	16		.14	0	10 s. cu., nw	
10	30.05	30.12	66.5	60.0	68	60	61.0	73	54.5	70	NW	8	W	2			5 s. cu., nw	0	
11	30.25	30.21	63.5	61.5	66	61	57.0	67	53.0	56	NE	8	NE	14			2 a. cu., n	0	
12	30.15	30.11	62.5	70.5	75	61	59.5	84	64.0	70	NE	8	E	12			4 a. cu., se	0	
13	30.14	30.10	66.0	68.0	75	65	64.5	92	64.0	80	NE	5	NE	4			5 a. cu., 0	0	
14	30.11	30.06	66.5	68.5	74	65	64.5	90	66.0	88	NE	6	NE	9			0	0	
15	30.07	30.05	65.0	66.0	69	64	64.5	97	64.0	90	NE	12	N	15			D. fog, 0	0	
16	30.05	30.01	62.0	67.0	70	62	59.5	86	63.5	83	NE	8	N	9			5 a. cu., ne	2 s. cu., n	
17	30.06	30.06	65.0	64.5	69	64	61.0	80	55.0	54	NE	10	N	15			Few s. s., 0	0	
18	30.11	30.13	61.0	65.0	68	60	55.0	68	61.0	80	NE	14	NE	6			0	0	
19	30.15	30.09	63.5	66.6	71	62	60.5	84	68.1	83	NE	9	NE	7			0	0	
20	30.05	30.05	65.0	66.0	74	64	64.0	95	64.5	92	NE	3	N	1			4 a. cu., 0	0	
21	30.11	30.10	62.5	63.5	67	62	57.0	71	60.5	84	NE	10	N	5			0	0	
22	30.13	30.12	65.0	67.5	68	63	63.0	90	63.0	78	NE	8	NE	12			2 cu., ne	10 s. cu., ne	
23	30.14	30.12	68.0	69.5	76	66	65.0	85	66.0	83	E	12	E	13			5 a. cu., e	0	
24	30.12	30.08	68.0	73.3	78	68	66.0	90	70.8	88	NE	8	E	8		T.	10 s., 0	0	
25	29.98	29.94	74.0	73.0	81	73	71.0	86	72.0	95	SE	6	S	1		T.	2 cu., se	9 s. cu., sw	
26	29.91	30.04	73.0	64.0	78	61	72.0	95	59.5	77	SW	8	N	22		.03	3 a. cu., w	9 s. cu., n	
27	30.11	30.10	58.0	64.3	64	57	53.0	72	60.0	78	NE	12	NE	8			0	10 a. cu., sw	
28	30.13	30.13	60.5	64.5	66	60	56.0	76	59.5	74	NE	14	NE	10			8 a. cu., sw	9 a. cu., sw	
29	30.14	30.13	63.5	65.5	67	63	61.0	87	60.0	72	NE	12	NE	12			10 s., 0	10 s., se	
30	30.18	30.18	64.0	64.5	66	63	62.0	90	57.5	66	NE	12	NE	14	0.08		10 s., 0	10 s. cu., sw	
31	30.20	30.15	60.0	64.3	68	60	57.0	83	59.8	77	NE	12	NE	6	.04		4 s., ne	2 a. cu., s	
Mn	30.09	30.08	64.2	65.5	70.0	61.8	60.5	80.4	60.9	76.8	NE	9.4	NE	9.5	.12	.59	3.2 a. cu., ne	3.2 s. cu., sw	

WYTHEVILLE, VA.

[φ=36° 56′ N; λ=81° 5′ W; barometer above sea, 2,293 feet; gravity correction applied, −.02].

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.82	27.82	22.1	38.9	52	21	21.0	86	35.0	70	NW	1	NE	1			2 ci. cu., w	2 a. s., sw	
2	27.70	27.43	36.0	37.1	39	34	36.6	100	37.1	100	NE	2	E	3	0.40	1.10	10 n., ne	10 n., e. (?)	≡²a.
3	27.31	27.39	45.4	40.0	47	37	44.0	91	38.5	88	SW	15	W	8	.04	T.	10 s. cu., w	10 s. cu., w	
4	27.30	27.34	33.0	34.0	39	33	33.0	100	33.0	91	E	3	W	6	.01	.28	10 n., e. (?)	10 s. cu., w	≡²a.✳
5	27.39	27.34	28.0	36.9	38	27	27.5	95	33.1	93	W	1	NW	1		.01	3 ci. cu., nw	10 n., nw. (?)	✳
6	27.30	27.37	29.0	24.0	33	23	27.5	84	22.0	75	W	10	W	15	.01	T.	10 n., w	8 . cu., w	✳
7	27.10	27.09	30.9	26.0	37	23	28.9	80	24.4	81	SW	7	W	17		.02	10 s., w	10 n., w	✳
8	27.16	27.37	20.0	12.0	24	8	18.8	83	11.0	81	W	14	W	20	T.	T.	10 s. cu., w	8 n , w	✳
9	27.46	27.42	10.1	26.2	26	8	9.2	82	23.8	72	W	13	W	16	T.		0	0	✳
10	27.61	27.65	20.0	28.3	35	20	18.0	72	25.9	74	SW	8	W	1			6 a. s., sw	5 s., w	
11	27.32	27.28	34.0	35.8	45	27	33.0	91	33.2	78	SE	4	W	16	.11	.26	10 s. cu., s	5 s. cu., w	✳
12	27.59	27.72	10.0	14.5	27	10	8.0	59	12.7	70	W	12	W	16			0	0	
13	27.83	27.88	8.6	20.2	25	9	7.8	83	17.8	67	SW	9	W	6			0	0	
14	27.88	27.80	23.0	31.9	40	18	20.0	62	27.9	61	SW	4	SW	5			5 s., sw	0	
15	27.75	27.67	24.6	34.9	40	24	23.0	80	31.6	70	SW	8	W	12			3 s. cu., sw	0	
16	27.70	27.61	31.2	36.6	43	30	29.0	78	33.8	77	SW	4	SW	5			Few ci. s., nw.	8 s. cu., sw. (?)	
17	27.50	27.43	34.5	40.2	46	33	32.0	78	38.3	93	W	6	W	8		T.	8 s. cu., w	10 n., w	
18	27.59	27.75	26.0	27.0	36	22	23.5	71	24.0	66	W	6	NW	12	T.		0	0	
19	27.86	27.87	14.0	23.3	31	13	13.0	83	20.9	70	NE	1	E	6			0	0	
20	27.83	27.57	17.7	31.1	33	18	17.1	91	31.1	100	E	6	E	2	T.	.47	10 n., e	10 n., e	≡⁰✳
21	27.41	27.45	34.0	35.2	39	33	34.0	100	34.7	96	SW	5	SW	3	.15	T.	7 s. cu., w	10 s. cu., sw	
22	27.58	27.65	32.6	31.0	37	29	31.0	85	29.2	82	W	5	W	5	T.		10 s. cu., w	0	
23	27.75	27.72	31.4	34.9	40	28	29.8	84	33.8	90	W	6	SW	1			10 s. cu., w	8 s., sw	
24	27.63	27.58	31.2	26.0	38	23	30.0	88	26.0	100	E	12	E	5	T.	.23	10 n., se	10 n., e. (?)	✳
25	27.64	27.73	28.8	31.3	42	23	28.8	100	30.7	94	W	2	W	2	.03		10 s. cu., w	0	✳
26	27.88	27.87	26.0	37.9	50	23	26.0	100	35.7	82	W	1	NE	4			D. fog, 0	Few s., w	
27	27.85	27.69	36.8	44.4	44	34	36.5	98	44.4	100	NE	2	N	4		.08	10 s., 0	10 s. cu., n. (?)	≡⁰
28	27.70	27.62	44.4	41.0	54	38	44.4	100	41.0	100	SW	6	W	2	T.		D. fog, 0	0	≡⁰p.
29	27.52	27.34	36.0	48.9	62	33	35.0	100	46.2	83	NW	2	NW	3			D. fog, 0	0	
30	27.47	27.69	35.0	32.2	36	29	31.8	72	28.7	66	W	20	W	15	.01		3 s. cu., w	0	
31	27.84	27.76	26.3	34.9	45	26	23.9	72	30.9	65	SW	8	SW	2			2 ci. s., nw	1 s., sw	
Mn	27.59	27.58	27.7	32.1	40.0	24.4	26.5	85.4	30.2	81.8	W	6.5	W	7.2	.76	2.45	5.5 s. cu., w	4.7 s. cu., n., w	

FEBRUARY, 1903.

1	27.63	27.64	37.1	42.9	48	30	32.2	60	42.0	93	W	3	W	2		T.	10 s., w	10 s. cu., w	≡⁰p.
2	27.63	27.65	49.0	50.4	55	45	48.0	93	49.1	92	W	7	W	5	T.	T.	10 s., w	10 s., w	
3	27.62	27.43	42.0	52.0	56	41	42.0	100	49.7	86	N	1	NE	3		0.30	D. fog, 0	10 n., ne. (?)	
4	27.15	27.18	55.0	42.2	59	27	52.7	86	34.7	47	W	16	W	19	0.44		10 s. cu., w	Few s. cu., w	⊓⧖
5	27.57	27.77	21.3	28.0	33	20	20.0	82	24.0	57	W	18	W	7	T.	T.	8 n., w	0	✳
6	27.89	27.84	23.5	38.9	45	22	21.4	74	33.5	59	SW	4	E	2			10 s., sw. (?)	10 s. cu., sw	
7	27.78	27.66	32.0	37.2	39	32	31.0	90	36.7	96	NE	2	E	5	.06	.01	10 s. cu., e	10 n., e. (?)	✳
8	27.37	27.55	35.0	34.0	47	31	34.4	94	31.0	73	N	4	W	12	.28	.04	10 s. cu., ne	4 s. cu., nw	
9	27.74	27.84	27.3	33.0	42	27	25.8	83	30.2	74	NW	11	W	4			1 s. cu., nw	0	
10	27.86	27.74	25.1	42.0	48	24	24.7	97	36.9	63	W	1	E	3			8 a. s., s	10 s., 0	
11	27.37	27.37	38.7	43.6	52	35	38.1	95	40.5	78	E	4	NW	17	.68	.18	10 n., e. (?)	3 s. cu., w	
12	27.66	27.63	34.0	50.0	62	34	33.0	91	42.0	52	W	5	SW	2			0	0	
13	27.75	27.75	43.8	46.3	61	32	40.5	77	42.7	76	W	11	W	3			0	0	
14	27.81	27.77	38.3	48.0	58	36	36.8	88	46.7	91	NW	8	E	9		.12	5 ci. cu., nw	10 s. cu., e. (?)	
15	27.60	27.35	43.0	59.0	62	41	42.5	96	54.8	77	N	3	W	5	T.		8 s. cu., sw	10 s. cu., s	
16	27.20	26.82	48.8	38.0	60	23	47.7	92	38.0	100	W	5	E	5	.22	1.40	10 s. cu., w	10 n., e. (?)	⊓⧖
17	27.24	27.54	7.7	7.3	23	5	7.0	84	6.2	76	W	16	W	10	.26	T.	3 s. cu., w	Few s. cu., w	✳△▲
18	27.55	27.78	10.2	14.8	25	4	9.0	76	11.2	40	W	17	W	22		T.	0	0	✳
19	28.04	27.96	2.0	24.6	28	2	.8	67	20.8	54	W	7	SE	3			1 s., 0	0	
20	27.95	27.93	24.3	30.9	36	17	22.0	72	27.8	69	SW	4	SW	4			8 s. cu., w	0	
21	27.84	27.76	28.9	35.1	44	24	27.4	84	30.1	56	W	4	NW	8			10 s., w	0	
22	27.95	28.05	19.3	29.0	40	19	17.9	79	26.5	73	W	6	W	1			Few s. cu., w.	0	
23	28.06	27.91	20.0	37.3	51	18	19.5	93	31.5	53	NW	2	NW	2			0	0	
24	27.84	27.80	26.9	34.8	51	24	25.0	79	31.9	75	NW	2	NW	3			0	0	
25	27.94	28.00	24.0	41.0	50	24	23.0	87	32.7	40	W	3	S	2			0	Few s., w	
26	28.06	27.99	25.8	45.8	59	25	25.0	90	37.8	48	E	1	N	2			0	2 a. s., w	
27	27.84	27.50	46.2	50.0	63	43	44.6	89	49.6	98	SE	7	NE	4	T.	.55	10 n., se	10 n., ne. (?)	
28	27.21	27.51	54.0	48.0	66	46	52.9	93	42.4	64	W	3	W	11	.78	.01	10 n., sw	4 s. cu., w	
Mn	27.68	27.67	31.5	38.7	48.7	26.8	30.2	85.4	35.0	70.0	W	6.1	W	6.2	2.72	2.61	5.4 s. cu., w	4.0 s. cu., w	

WYTHEVILLE, VA.

[φ= 36° 56′ N; λ=81° 5′ W; barometer above sea, 2,293 feet; gravity correction applied, −.02.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.69	27.89	36.9	29.1	46	24	33.0	68	25.0	57	W	7	NW	7	.....	.....	10 s. cu., w	0	
2	27.96	27.95	24.5	38.0	43	23	23.0	82	31.8	51	W	3	SW	3	.....	.....	4 s. cu., nw	8 s., sw	—e
3	28.02	27.96	30.0	49.5	57	28	28.5	84	42.0	54	NW	1	S	4	.....	.....	0	10 s. cu., w	—e
4	27.98	27.88	36.1	51.0	58	33	34.8	88	45.6	67	W	1	S	3	.....	0.01	10 s., w	0	
5	27.79	27.76	42.0	51.2	54	37	39.7	83	50.0	93	SW	7	SW	6	.....	T.	7 s. cu., w	10 s., sw	
6	27.84	27.88	50.0	53.0	60	48	50.0	100	51.5	91	SW	1	NE	4	T.	T.	10 s., sw	10 s. cu., ne. (?)	≡a.
7	27.88	27.82	45.0	51.8	52	45	45.0	100	50.7	93	NE	4	NE	4	0.18	T.	D. fog, 0	10 s. cu., sw	
8	27.80	27.77	53.0	54.2	59	48	52.7	98	53.6	96	NE	2	N	1	.13	.24	10 n., s	10 s. cu., w	
9	27.85	27.83	48.8	60.6	72	48	48.8	100	57.7	85	NW	1	NE	4	.....	.....	D. fog, 0	4 cu., w	⌈◪
10	27.94	27.89	52.0	57.1	58	51	52.0	100	55.0	88	E	4	NE	2	.04	.01	10 n., 0	10 s. cu., w	≡a.
11	27.88	27.87	53.0	54.4	58	48	52.7	98	52.9	91	W	2	SW	4	.11	.22	10 s. cu., w	8 s. cu., sw	
12	27.87	27.84	47.1	49.0	50	45	47.1	100	48.6	98	E	1	N	1	.....	.08	D. fog, 0	10 s. cu., se	
13	27.82	27.79	45.1	53.7	62	43	45.0	99	49.7	77	NE	2	SE	2	.....	.....	2 ci. cu., w	7 ci. s., nw	≡a.
14	27.83	27.77	39.2	58.0	65	39	39.2	100	54.5	81	SE	1	SE	1	.....	.....	D. fog, 0	Few s., 0	
15	27.81	27.76	44.6	62.2	71	42	43.7	94	54.6	68	N	2	NE	4	.....	.....	3 ci. s., sw	Few s., 0	
16	27.83	27.80	48.0	55.5	59	47	44.9	79	49.5	89	NE	3	SE	5	.....	.....	6 ci. s., sw	4 s., w	
17	27.82	27.81	46.0	59.0	69	45	45.0	93	56.7	87	E	1	N	1	.....	.....	9 s. cu., w	4 s., 0	
18	27.91	27.90	44.5	60.6	69	43	44.5	100	56.8	80	N	1	SE	2	.....	.....	D. fog, 0	Few s., 0	
19	27.97	27.87	52.7	61.8	67	47	50.8	89	56.3	72	E	2	SE	4	.....	.....	10 s. cu., sw	4 s. cu., 0	
20	27.82	27.67	56.0	63.1	70	53	54.7	92	58.6	77	NE	3	S	4	.....	.....	6 s. cu., s	6 s. cu., s	
21	27.64	27.61	53.6	46.0	60	46	53.1	97	44.7	91	E	2	W	2	.16	.09	10 s. cu., sw	10 n., w. (?)	
22	27.62	27.57	45.0	45.8	49	45	44.7	98	45.7	99	E	3	E	5	.47	.31	10 n., e. (?)	10 n., e. (?)	≡rp.
23	27.43	27.55	46.0	58.1	67	45	46.0	100	53.6	76	SE	1	W	3	1.21	.02	10 n., se. (?)	2 s. cu., w	≡ra.
24	27.65	27.65	45.0	45.0	53	39	42.7	84	38.8	58	W	13	W	5	.....	.....	10 s. cu., w	0	
25	27.74	27.77	32.3	41.6	49	31	28.7	65	34.8	51	NW	11	NW	7	.....	.....	Few s. cu., nw	0	
26	27.89	27.80	34.0	51.1	62	31	31.5	77	41.7	46	W	3	W	5	.....	.....	0	0	—e
27	27.80	27.69	34.0	56.2	65	29	31.7	79	46.3	48	NW	1	SW	3	.....	.....	0	8 ci. s., w	—e
28	27.68	27.68	46.1	58.0	65	39	40.6	63	45.7	58	SW	5	N	4	.....	.....	7 ci. cu., w	6 ci., nw	
29	27.86	27.78	38.4	30.0	50	30	36.0	81	30.0	100	E	10	E	8	.....	.15	10 s., e	10 n., e. (?)	✶△
30	27.40	27.29	34.0	38.8	42	30	34.0	100	36.0	94	E	4	SW	3	1.28	.32	10 n., e. (?)	10 s., 0	
31	27.45	27.56	42.3	49.0	55	39	39.6	80	42.7	61	NW	16	W	4	.....	.....	8 s. cu., nw	0	
Mn	27.79	27.76	43.4	51.4	58.6	40.0	42.1	89.4	47.2	75.2	E	3.8	ne, se, sw, w	3.7	3.58	1.45	5.9 s. cu., w	5.5 s. cu., w	

APRIL, 1903.

1	27.69	27.64	44.0	55.2	66	37	41.6	83	46.7	53	W	2	SW	3	.....	.....	0	3 ci. s., nw	—
2	27.65	27.47	42.3	67.0	75	39	40.6	87	52.7	39	SW	2	S	8	T.	.....	8 s. cu., sw	0	
3	27.44	27.17	50.2	65.6	77	47	47.1	81	56.6	59	NW	3	S	17	.....	.....	8 ci. s., w	8 ci. cu., w	◪
4	27.42	27.09	31.0	31.8	52	27	28.8	78	28.8	71	NW	16	NW	15	0.58	T.	8 n., nw	Few s. cu., nw	✶
5	27.87	27.87	25.6	43.0	51	22	23.0	69	35.0	45	W	2	SE	9	.....	.....	5 ci. cu., nw	Few s., 0	—e
6	27.90	27.73	39.0	58.0	60	36	33.8	60	46.4	62	NE	2	S	9	.....	.....	7 ci. cu., nw	0	
7	27.68	27.60	54.0	53.0	57	48	50.7	81	52.0	94	S	7	SW	2	.01	0.28	10 s. cu., sw	10 n., sw. (?)	
8	27.44	27.60	54.0	49.0	60	48	52.0	88	44.5	71	SW	8	W	5	.38	.02	10 n., sw	0	
9	27.75	27.63	43.5	60.0	68	36	40.7	80	49.7	49	SW	5	W	5	.....	.....	0	0	—
10	27.79	27.73	52.2	57.5	70	47	42.7	46	50.9	64	W	4	SW	1	.....	.....	7 ci. s., nw	6 s., 0	
11	27.70	27.61	56.4	64.0	72	52	47.2	51	55.2	58	E	4	S	4	T.	T.	10 s., w	Few s., 0	
12	27.58	27.41	54.9	66.2	76	45	50.8	76	57.7	61	W	1	W	2	.....	T.	4 ci. cu., nw	10 s., w	
13	27.26	27.12	54.7	53.0	64	50	54.3	98	51.8	93	NE	3	E	7	.37	.19	6 ci. s., nw	10 s., e. (?)	≡a.
14	27.04	27.13	48.1	44.3	54	41	48.1	100	41.8	82	E	6	W	9	.14	.30	10 n., e. (?)	10 s. cu., w	≡a.
15	27.14	27.19	38.8	38.9	42	38	36.1	78	37.4	88	W	8	W	10	T.	.01	10 s., w	10 n., w	
16	27.26	27.38	40.0	42.9	45	38	38.0	84	40.3	79	NW	9	NW	9	.03	.....	8 s. cu., nw	10 s. cu., nw	
17	27.50	27.54	42.3	50.1	57	41	38.0	69	41.7	50	N	10	NW	6	.....	.....	8 s. cu., n	0	
18	27.59	27.48	41.3	55.2	65	33	37.0	68	44.7	44	SW	3	W	3	.....	.....	0	Few s., w	—e
19	27.49	27.39	45.1	51.7	64	40	42.4	81	49.0	84	SW	1	0	0	.....	.01	8 ci. s., nw	7 s. cu., w	
20	27.30	27.31	47.6	51.0	60	46	46.6	93	48.0	82	SW	2	NW	9	.02	.19	10 n., sw	10 s. cu., nw	
21	27.43	27.41	44.8	50.4	58	40	37.2	49	41.7	48	NW	5	NW	4	.....	.....	2 ci., nw	0	
22	27.40	27.47	39.0	39.2	41	33	38.5	96	35.7	73	S	4	NW	4	.22	.32	10 n., s	10 s. cu., nw	✶
23	27.56	27.66	36.9	40.8	42	35	34.0	77	37.0	71	NW	6	NW	8	.....	T.	10 s. cu., nw	10 s. cu., nw	
24	27.75	27.62	37.7	48.8	57	32	34.7	76	42.7	62	SW	4	W	4	.....	T.	7 ci. s., nw	10 n., w	—
25	27.59	27.52	45.0	49.3	51	43	44.5	97	48.8	97	W	6	W	3	.13	.12	10 n., w	8 s. cu., w	
26	27.50	27.58	45.0	47.6	49	42	43.8	92	46.0	89	NW	2	N	3	.19	.16	9 s. cu., nw	10 s. cu., n	⌈◪
27	27.80	27.84	47.1	56.5	66	44	43.6	77	47.0	50	N	4	NW	4	.....	.....	5 s. cu., n	0	
28	27.97	27.91	46.0	60.0	74	35	42.5	76	50.6	53	W	1	W	8	.....	.....	0	0	—
29	27.95	27.81	57.3	60.0	79	47	48.7	54	53.5	66	SW	3	SW	2	.....	.....	0	0	
30	27.75	27.56	53.1	69.3	79	42	47.6	68	52.7	32	W	4	W	13	.....	.....	0	9 s. cu., w	
Mn	27.57	27.54	45.2	52.5	61.0	40.1	41.8	77.1	46.2	65.6	w, sw	4.6	W	6.0	2.07	1.60	6.3 s. cu., nw	5.0 s. cu., w	

WYTHEVILLE, VA.

[φ=36° 56′ N; λ=81° 5′ W; barometer above sea, 2,293 feet; gravity correction applied —.02.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.83	27.84	38.6	49.3	58	38	35.1	73	41.7	58	NW	7	E	3	.....	.....	6 s. cu., nw.....	Few ci. s., 0.....	—
2	27.93	27.80	42.0	56.1	63	37	37.0	64	48.0	56	E	6	SE	0	.....	.....	0.....	3 ci., nw.....	—
3	27.75	27.70	49.6	53.2	61	45	45.7	75	52.7	97	NE	5	S	1	....	0.32	7 ci. cu., n.....	9 s. cu., w	⌐¬
4	27.77	27.72	45.2	53.8	65	38	42.7	83	47.7	65	NW	5	NW	1	.....	.....	Few a. cu., w..	0.....	—
5	27.80	27.74	44.8	60.6	70	35	40.8	72	50.8	51	NW	2	NE	3	.....	.....	0.....	Few s., 0.....	—
6	27.77	27.70	51.2	61.1	74	42	47.2	76	56.7	77	E	3	E	1	....	T.	0.....	6 a. s., nw.....	
7	27.71	27.65	56.0	61.8	71	48	50.7	71	57.3	77	SW	4	S	1	....	.01	8 ci. s., nw	10 n., 0.....	
8	27.72	27.65	53.7	60.0	69	46	46.5	59	51.8	58	E	9	E	5	0.01	.....	3 ci., nw	0.....	
9	27.74	27.70	50.0	59.3	65	44	45.9	74	49.7	52	E	7	E	6	.....	.....	1 ci. cu., nw...	4 s. cu., e.....	
10	27.78	27.74	52.8	62.3	68	45	48.2	72	53.8	58	E	8	E	5	.....	.....	2 s. cu., e.....	10 s. cu., se.....	
11	27.84	27.80	53.0	62.0	69	50	49.0	76	53.7	59	E	9	E	4	.....	.....	10 s. cu., se....	0.....	
12	27.87	27.84	56.0	60.6	68	51	52.5	80	53.0	61	E	7	SE	5	.....	.....	4 s. cu., e.....	3 s. cu., se.....	
13	27.85	27.75	57.4	63.1	71	54	54.6	84	55.6	63	E	8	SE	2	.....	.....	8 s. cu., e.....	9 s., se.....	
14	27.70	27.59	61.0	64.1	72	53	57.7	88	59.7	78	E	4	SE	4	.01	.....	6 s. cu., se....	Few s. cu., se....	
15	27.61	27.57	58.0	68.0	77	45	54.2	79	59.7	63	SE	1	E	3	.....	.....	0.....	0.....	
16	27.74	27.76	57.0	68.2	77	47	53.6	81	61.2	68	E	1	SE	3	.....	.....	0.....	4 s. cu., se.....	
17	27.88	27.82	55.2	69.0	79	46	52.1	82	59.6	68	E	3	SE	2	.....	.....	0.....	0.....	
18	27.85	27.74	54.0	68.8	83	44	50.7	81	58.6	55	NW	1	SE	2	.....	.....	0.....	3 ci. s., nw	
19	27.75	27.69	59.6	71.2	83	46	52.8	65	57.7	45	SW	5	W	3	.....	.....	0.....	3 ci. s., nw	
20	27.79	27.72	66.2	72.0	84	54	60.6	74	62.0	58	SW	3	NW	2	.....	.....	0.....	1 s. cu., 0.....	
21	27.79	27.70	60.8	68.4	82	54	57.9	85	64.7	83	SW	3	N	1	....	.04	8 s. cu., sw	Few s. cu., 0.....	
22	27.75	27.69	66.1	77.0	85	57	63.0	85	66.9	60	W	5	W	4	.....	.....	6 s. cu., w.....	0.....	
23	27.76	27.68	70.3	74.8	87	59	64.3	73	64.7	59	W	4	NW	1	.....	.....	Few a. cu., nw.	Few s. cu., w....	
24	27.75	27.69	71.2	75.1	87	60	65.1	73	67.6	69	W	5	W	2	....	T.	0.....	2 s. cu., w	⌐¬
25	27.78	27.78	64.2	66.8	85	57	61.3	86	64.1	87	SW	2	E	5	.....	.....	Few a. cu., nw.	1 s. cu., 0.....	
26	27.85	27.80	63.0	64.0	75	60	61.1	90	61.8	86	E	4	SE	5	T.	.....	10 s. cu., s.....	7 ci. s., nw	
27	27.83	27.71	66.2	72.1	79	62	63.6	87	66.7	76	E	2	S	7	.....	.....	10 s. cu., s.....	8 s. cu., s	
28	27.79	27.77	68.0	68.3	81	60	61.9	72	64.4	82	W	10	NE	1	T.	.04	4 a. cu., nw....	10 n., nw	⌐¬
29	27.79	27.74	62.0	63.0	75	58	60.5	92	62.7	97	SW	4	N	1	.12	1.14	10 s. cu., w	4 s. cu., 0.....	⌐¬
30	27.74	27.65	64.0	66.8	76	57	61.2	86	65.1	92	SW	1	E	1	....	.34	Few s. cu., 0...	8 s. cu., s	
31	27.68	27.71	63.8	64.0	77	56	62.6	94	62.7	93	NE	4	E	7	.01	.81	8 s. cu., sw	10 s. cu., e.....	⌐¬
Mn	27.78	27.72	57.4	64.7	74.7	49.9	53.5	78.3	58.1	68.9	E	4.6	E	3.1	.15	2.70	3.6 s. cu. nw ...	3.7 s. cu., nw	

JUNE, 1903.

1	27.81	27.78	52.3	53.7	58	52	52.3	100	53.2	97	E	7	E	5	T.	T.	10 n., e.....	10 n., e.....	
2	27.80	27.83	51.9	56.0	58	51	50.7	93	51.8	76	E	7	NE	3	0.03	0.02	10 s. cu., e....	10 s., ne.....	
3	27.89	27.81	56.8	64.2	74	51	51.5	71	60.1	80	E	3	SE	1	.04	.....	Few s. cu., 0...	2 s. cu., n.....	
4	27.85	27.80	57.9	67.8	74	50	56.1	90	62.2	74	E	3	SE	4	.....	.....	7 ci. s., w.....	10 s. cu., se.....	
5	27.85	27.82	60.0	63.9	69	57	58.7	93	61.8	89	NE	5	SE	8	.28	.01	6 s. cu., w	10 s. cu., s.....	
6	27.79	27.72	63.6	64.8	70	58	61.6	90	62.8	90	E	4	E	1	.01	.01	8 s. cu., s.....	8 s. cu., s. w	
7	27.67	27.59	62.6	64.2	73	56	59.5	84	59.6	77	SW	7	SW	5	....	.04	3 a. cu., w.....	2 s. cu., nw.....	⌐¬
8	27.61	27.57	62.0	69.3	78	56	60.5	92	62.8	71	W	6	NW	1	.....	.....	5 s., nw.....	2 ci. s., nw	
9	27.64	27.64	61.1	69.6	80	55	59.5	92	63.7	73	NW	1	E	2	.....	.14	2 ci. cu., nw ..	10 s. cu., 0.....	⌐¬
10	27.68	27.67	65.0	66.0	82	60	62.1	86	63.8	89	SW	5	NW	3	....	T.	Few s. cu., 0...	10 n., nw.....	⌐¬
11	27.63	27.57	61.0	60.0	67	55	60.6	98	56.1	79	SW	1	N	7	.13	.04	10 s. cu., ne ...	10 s. cu., n.....	
12	27.55	27.52	52.0	47.6	58	47	48.0	76	44.6	80	NW	8	NW	7	T.	T.	4 s. cu., nw....	8 s. cu., nw.....	
13	27.54	27.51	48.0	54.4	60	45	44.7	78	48.7	68	W	6	W	4	.....	.....	7 s. cu., w	2 ci. s., n	
14	27.49	27.49	52.7	59.1	70	51	48.2	73	55.8	82	W	15	W	4	....	.12	9 s. cu., w	10 cu. n., nw	
15	27.54	27.56	61.9	65.0	72	51	56.7	74	54.6	52	NW	10	NW	6	.....	.....	4 cu., nw.....	Few cu., nw.....	
16	27.58	27.54	60.3	64.2	74	46	55.7	76	56.2	62	NW	7	NW	2	.....	.....	0.....	0.....	
17	27.58	27.57	57.0	62.1	75	48	53.6	81	59.8	88	NW	2	SW	3	.....	.15	7 s. cu., nw...	4 s. cu., sw	⌐¬
18	27.61	27.58	52.9	67.7	77	45	52.0	95	59.2	62	NW	1	NW	1	.01	.....	0.....	Few ci. s., nw....	
19	27.59	27.47	57.9	68.8	81	49	54.7	82	58.8	56	W	1	W	1	.....	.....	4 ci., n	6 ci. cu., nw.....	
20	27.45	27.39	58.0	67.0	76	58	57.2	95	62.7	80	W	2	SW	7	.12	T.	10 n., w	6 s. cu., sw	
21	27.48	27.49	65.0	68.9	77	59	59.2	72	63.4	75	W	12	N	1	.....	.....	3 ci. cu., nw...	Few cu., 0.....	
22	27.50	27.38	61.1	64.2	71	57	57.7	82	63.0	94	E	5	W	8	....	.31	8 s. cu., w	10 n., w	⌐¬
23	27.41	27.49	64.0	64.6	74	55	60.0	90	57.6	67	W	4	NW	4	.05	.....	8 s. cu., nw....	Few s. cu., nw	
24	27.56	27.53	56.1	67.8	78	46	52.6	80	63.8	81	W	2	E	1	.....	.....	1 a. cu., w	3 s. cu., w	
25	27.60	27.60	64.4	72.0	82	58	62.0	88	65.9	74	E	1	S	1	.....	.....	4 s. cu., sw	4 s. cu., sw	
26	27.63	27.58	65.2	65.1	77	63	63.8	93	63.2	91	E	4	NE	3	.03	.03	10 n., se	10 s. cu., sw	
27	27.64	27.55	62.3	63.0	79	61	62.1	99	62.5	97	E	1	SE	4	.14	1.40	D. fog, 0.....	10 n., w.....	⌐¬
28	27.50	27.48	62.0	60.9	76	57	60.7	93	59.8	94	E	1	SW	2	.20	.40	10 s. cu., sw...	6 s. cu., sw	⌐¬
29	27.56	27.63	62.7	69.0	78	56	59.5	84	63.7	76	W	12	NW	2	.01	.....	2 s. cu., nw....	Few ci. s., 0.....	
30	27.73	27.69	66.0	76.2	85	56	62.7	84	68.6	68	SW	3	S	2	.....	.....	0.....	3 a. cu., nw.....	
Mn	27.62	27.59	59.5	64.2	73.4	53.6	56.8	85.8	59.7	78.1	E	4.9	NW	3.4	1.00	2.67	5.1 s. cu., nw ..	5.5 s. cu., nw	

WYTHEVILLE, VA.

[$\varphi = 36° 56'$ N; $\lambda = 81° 5'$ W; barometer above sea, 2,293 feet; gravity correction applied, −.02.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.72	27.62	68.8	78.2	87	60	64.7	81	70.5	69	SW	5	NW	1	....	.....	0	0	
2	27.70	27.69	71.9	79.2	88	63	67.6	81	69.7	63	W	5	N	4	....	.....	1 ci. cu., nw	3 s. cu., nw	
3	27.76	27.73	73.3	74.0	89	65	68.0	77	70.1	83	SW	3	W	1	....	T.	Few ci. s., 0	8 s., 0	
4	27.78	27.74	70.9	72.0	89	63	67.8	86	69.6	89	W	2	SW	2	....	0.01	3 ci. s., nw	6 s. cu., w	
5	27.79	27.78	69.6	69.0	84	66	67.8	92	67.6	93	SW	2	NW	3	....	.37	8 s. cu., nw	10 s. cu., w	
6	27.81	27.78	68.2	77.0	84	63	66.9	94	66.7	59	SW	2	N	3	0.01	.01	3 s. cu., 0	6 cu., sw	
7	27.83	27.79	65.1	75.2	84	60	64.6	98	69.7	77	N	1	E	2	.....	.....	0	3 cu., 0	
8	27.85	27.74	64.6	78.8	88	60	63.7	96	69.5	64	E	1	S	2	.....	.....	6 ci. s., w	8 s., 0	
9	27.80	27.70	71.0	76.9	89	65	68.0	86	69.4	69	SW	4	NE	1	.....	.....	1 ci. s., nw	0	
10	27.76	27.68	70.8	80.0	90	60	67.1	83	67.4	53	SW	5	SW	4	....	.....	0	8 s. cu., nw	
11	27.68	27.61	73.2	74.9	86	65	68.5	79	70.3	80	W	10	SE	3	....	.05	0	9 s. cu., 0	
12	27.59	27.50	71.1	72.6	81	64	67.6	84	70.5	91	W	7	SW	1	T.	.43	3 s. cu., w	10 s. cu., sw	
13	27.51	27.57	63.9	67.1	74	56	62.8	94	59.0	63	N	3	NW	6	.79	.43	10 n., n	2 s. cu., nw	
14	27.64	27.62	59.0	64.7	73	50	55.9	89	58.2	69	W	3	NW	1	.....	.....	0	0	
15	27.65	27.68	62.0	63.3	73	53	56.7	73	56.5	67	W	6	NW	4	....	.....	0	0	
16	27.75	27.69	54.0	63.5	72	46	51.5	85	57.9	72	W	2	NW	5	....	T.	Few s., 0	10 s. cu., w	
17	27.74	27.66	57.7	71.0	81	54	57.7	100	65.6	75	SW	2	S	2	.....	.....	D. fog, 0	8 s. cu., w	
18	27.58	27.53	70.8	76.1	86	65	66.8	82	67.7	66	SW	3	W	9	.....	.....	4 s. cu., w	8 s. cu., w	
19	27.56	27.55	66.3	72.2	80	63	65.1	94	64.6	68	SW	8	NW	2	T.	T.	10 n., w	2 s. cu., nw	
20	27.60	27.61	65.3	70.0	78	59	61.8	83	60.7	60	SW	8	NW	4	.....	.....	Few s. cu., 0	1 cu., 0	
21	27.70	27.66	63.3	71.6	80	56	58.5	76	62.6	62	SW	4	SW	2	.....	.....	0	2 s., sw	
22	27.66	27.65	68.3	74.0	82	56	62.8	74	67.6	72	NW	8	NW	6	....	.07	5 s. cu., nw	7 s. cu., nw	
23	27.71	27.71	62.6	71.2	80	57	61.3	93	62.5	62	SW	3	NW	3	.....	.....	0	Few s. cu., 0	
24	27.79	27.76	62.0	71.5	82	55	59.0	84	64.6	70	NW	2	SE	1	.....	.....	0	0	
25	27.89	27.83	65.9	76.0	87	55	60.8	75	66.0	60	N	1	E	1	.....	.....	0	Few a. cu., nw	
26	27.86	27.75	68.1	76.5	87	58	62.7	75	67.5	64	SW	7	NW	2	....	.....	0	Few a. s., 0	
27	27.77	27.71	71.3	75.0	86	63	67.1	81	66.7	66	SW	7	NW	2	.....	.....	3 ci., nw	10 s. cu., nw	
28	27.73	27.67	67.9	70.7	83	66	64.6	85	69.0	92	E	5	NW	2	.....	.10	10 s. cu., s	5 s. cu., 0	
29	27.70	27.64	65.0	72.6	85	63	65.0	100	68.5	82	SW	2	W	3	....	.01	Lt. fog, 0	5 s. cu., sw	
30	27.68	27.69	72.0	71.0	86	65	68.3	88	67.7	85	W	5	W	2	....	.07	3 s. cu., w	5 s. cu., w	
31	27.74	27.72	68.9	66.7	82	62	65.5	84	66.0	97	W	6	S	2	.01	.25	9 s. cu., w	10 n., sw	
Mn	27.72	27.68	66.9	72.7	83.1	59.9	63.7	85.2	66.1	72.3	SW	4.3	NW	2.7	.81	1.80	2.5 s.cu., w,nw.	4.7 s. cu., nw	

AUGUST, 1903.

1	27.86	27.90	59.1	61.2	66	59	59.1	100	61.2	100	E	6	E	5	0.50	T.	10 n., 0	D. fog, 0	Fog.
2	27.99	27.97	60.1	67.2	81	59	60.1	100	66.5	97	E	2	NE	1	.01	0.44	D. fog, 0	8 s. cu., n	
3	27.96	27.83	66.0	72.0	83	65	64.6	93	67.9	82	SW	3	NE	2	....	.06	6 s. cu., w	2 s. cu., 0	
4	27.78	27.64	65.3	68.8	80	61	64.3	95	65.0	83	SW	2	SW	8	....	.01	3 s. cu., sw	Few cu., 0	
5	27.64	27.62	69.9	73.7	82	63	66.0	82	68.7	78	W	7	SW	5	....	.31	1 ci. cu., nw	3 cu., e	
6	27.62	27.57	68.3	74.0	80	63	66.2	90	66.6	68	SW	6	W	2	....	.....	5 ci. s., nw	5 ci. s., nw	
7	27.65	27.66	69.0	67.3	78	57	63.7	76	59.7	65	NW	5	NW	3	.....	.....	Few cu., 0	0	
8	27.68	27.56	60.0	73.0	83	53	56.2	80	67.1	74	NW	2	SW	1	.....	.....	2 a. cu., w	6 s. cu., w	
9	27.56	27.57	66.7	71.1	81	61	62.4	79	65.8	76	SW	6	W	2	....	T.	0	3 s. cu., w	
10	27.69	27.65	65.9	72.2	82	58	62.7	84	67.0	77	W	2	SW	2	....	.09	Few a. cu., 0	8 s. cu., w	
11	27.65	27.64	68.1	67.0	73	63	65.7	88	64.6	88	SW	6	W	6	.01	.25	9 s. cu., w	Few s. cu., 0	
12	27.69	27.68	66.0	67.6	79	59	63.5	88	63.0	78	W	3	NW	1	.....	.....	2 ci. s., nw	Few s. cu., 0	
13	27.74	29.69	63.8	67.1	80	56	59.3	78	64.6	88	NW	2	NE	3	.....	.....	4 s., w	6 s. cu., ne	
14	27.75	27.73	64.7	69.2	82	60	63.8	96	65.5	83	NW	3	E	2	....	T.	8 ci. cu., nw	10 s. cu., se	
15	27.73	27.70	65.3	66.4	72	64	64.8	98	64.1	89	E	4	SE	4	.12	T.	10 s. cu., e	10 s. cu., se	
16	27.66	27.62	65.8	70.4	83	62	64.6	94	66.7	83	SE	1	E	5	.24	T.	10 s., w	8 s. cu., nw	
17	27.69	27.69	65.8	66.9	74	62	64.5	94	64.7	89	E	4	E	4	.....	T.	8 s. cu., se	10 s. cu., s	
18	27.70	27.66	65.0	70.8	79	60	62.9	90	65.3	77	E	4	NE	4	.....	.....	Few s. cu., 0	4 s. cu., s	
19	27.68	27.49	64.6	71.0	76	61	63.0	92	66.6	80	E	4	NE	2	.....	T.	8 s. cu., e	7 s. cu., w	
20	27.50	27.58	62.1	64.0	77	60	62.1	100	63.0	95	W	4	NW	1	13	.11	10 s., 0	8 s. cu., nw	
21	27.75	27.71	59.3	72.6	83	53	57.6	91	66.5	74	NW	1	NW	2	.....	.....	0	0	
22	27.76	27.67	65.1	73.8	85	57	62.7	88	66.8	70	SW	6	W	2	.....	.....	0	Few s. cu., 0	
23	27.70	27.66	69.1	73.0	86	63	65.7	84	66.7	73	SW	5	W	1	.....	.....	0	0	
24	27.74	27.68	66.9	78.0	89	59	63.4	83	68.5	63	SW	2	W	4	.....	.....	0	0	
25	27.75	27.69	71.8	80.8	90	65	67.7	82	71.0	64	SW	5	W	5	.....	.....	0	1 s. cu., w	
26	27.71	27.67	73.3	74.9	87	68	69.7	84	69.7	78	SW	7	NW	5	....	.03	1 s. cu., w	8 s. cu., nw	
27	27.70	27.62	66.5	77.6	86	64	66.5	90	70.2	70	SW	5	SW	2	.....	.....	Few s. cu., sw	Few ci. s., 0	
28	27.64	27.59	73.0	78.6	87	67	68.3	79	67.7	59	SW	5	W	4	.....	.....	Few cu., 0	Few s. cu., w	
29	27.62	27.55	68.1	67.6	85	63	64.6	83	65.0	87	SW	4	W	2	....	.75	10 s. cu, w	10 cu. n., w	
30	27.60	27.55	62.1	70.0	80	60	61.6	97	63.8	72	SE	1	NW	2	.63	.....	10 s. cu., w	3 s. cu., w	
31	27.58	27.60	60.0	63.1	76	57	60.0	100	58.1	75	W	1	NW	4	.....	.....	D. fog, 0	9 s. cu., nw	
Mn	27.70	27.66	65.8	70.7	80.8	60.7	63.5	89.0	65.7	78.5	SW	3.8	W	3.1	1.64	2.05	3.8 s. cu., w	4.2 s. cu., w	

WYTHEVILLE, VA.

[φ = 36° 56′ N; λ = 81° 5′ W; barometer above sea, 2,293 feet; gravity correction applied, −.02.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.66	27.67	60.2	66.9	74	56	56.3	80	62.8	80	W	1	NE	3	.....	.....	6 s. cu., w	8 s. cu., nw	
2	27.76	27.78	64.2	69.0	78	61	62.2	90	63.6	75	NE	1	N	2	.....	.....	7 s. cu., 0	2 s. cu., 0	
3	27.86	27.81	67.0	69.6	82	55	57.0	100	62.8	69	W	2	E	1	.....	.....	D. fog, 0	0	
4	27.86	27.77	58.3	66.0	83	53	56.7	91	60.8	75	NW	1	E	1	.....	.....	0	0	
5	27.73	27.66	62.3	70.0	83	54	59.0	83	64.2	74	W	5	SW	3	.....	.....	0	1 s. cu., 0	⌐¼
6	27.70	27.72	65.0	69.8	78	60	60.8	79	62.6	68	W	4	N	2	.....	.....	0	1 s. cu., 0	
7	27.82	27.78	60.1	66.6	78	60	58.7	93	63.0	83	E	5	NE	3	.....	.....	10 s., 0	Few s. cu., 0	
8	27.85	27.85	62.0	68.8	85	59	62.0	100	65.7	85	SW	1	E	3	.....	0.01	D. fog, 0	5 cu. n., w	⌐¼
9	27.94	27.87	62.0	66.3	81	60	62.0	100	65.3	95	E	2	E	1	0.01	.23	D. fog, 0	4 s. cu., w	⌐¼
10	27.84	27.80	67.2	70.0	83	64	66.1	95	66.5	84	E	1	W	3	.....	T.	8 s. cu., w	4 s. cu., w	⌐¼
11	27.87	27.87	61.0	68.8	84	58	61.0	100	65.6	85	W	1	E	1	.....	.....	Lt. fog, 0	0	⌐¼
12	27.92	27.89	62.0	68.0	80	60	62.0	100	61.8	71	SE	1	SE	2	.....	.....	D. fog, 0	0	
13	27.92	27.84	64.8	69.0	82	57	61.7	85	62.6	71	E	2	S	1	.....	.....	0	0	
14	27.87	27.80	57.0	69.4	80	52	56.2	95	64.2	76	S	1	SE	2	.....	.....	3 s. cu., s	Few s. cu., 0	≡⁰a.
15	27.82	27.74	65.0	65.2	76	60	62.8	89	62.7	88	NE	2	SE	1	.....	.....	8 s. cu., s	0	
16	27.73	27.58	60.0	66.0	69	57	59.4	97	65.5	98	E	4	NE	2	.....	.64	8 s. cu., sc	10 n., ne. (?)	≡a.
17	27.55	27.69	68.7	53.0	71	50	65.8	86	47.7	69	SW	6	W	5	.05	.03	8 s. cu., w	0	
18	27.82	27.87	47.0	49.3	60	39	42.0	67	44.8	71	NW	6	N	3	.....	.....	2 cu., nw	0	
19	27.98	29.93	40.0	48.8	62	34	38.9	91	45.6	80	NW	1	E	1	.....	.....	0	0	⌐²
20	27.96	27.87	41.2	52.2	68	35	40.7	96	48.8	80	N	2	E	1	.....	.....	0	0	
21	27.90	27.85	43.5	55.3	74	38	43.0	96	50.8	75	W	3	E	1	.....	.....	0	0	
22	27.90	27.82	46.1	58.2	75	41	44.7	91	54.0	77	NW	2	E	2	.....	.....	0	0	
23	27.77	27.58	49.9	60.0	75	45	48.7	92	56.3	80	W	4	E	2	.....	.....	3 ci. s., e	0	
24	27.53	27.64	57.7	50.0	64	42	53.0	74	46.4	77	SW	5	NW	2	.....	.....	7 ci. s., 0	0	
25	27.74	27.72	39.0	56.8	70	34	37.7	90	52.8	78	SW	1	E	2	.....	.....	0	0	
26	27.81	27.72	45.3	67.5	77	40	44.7	96	62.2	75	E	2	SE	3	.....	.....	0	1 a. cu., 0	
27	27.71	27.72	53.9	60.0	75	50	53.3	96	56.7	82	NW	1	NW	7	.....	.08	5 s. cu., w	10 s. cu., w	
28	27.89	27.90	47.7	50.0	64	42	41.7	62	43.9	62	NW	6	N	2	.....	.....	0	0	
29	28.00	27.96	39.1	54.6	68	34	37.5	87	48.5	65	NW	1	SW	3	.....	.....	0	0	
30	28.02	27.98	44.0	56.0	72	38	42.5	89	51.5	75	W	1	SW	2	.....	.....	2 ci. s., 0	Few ci. s., 0	
Mn	27.82	27.79	55.0	62.0	75.0	49.6	53.3	89.7	57.7	74.1	W	2.5	E	2.2	.06	.99	2.6 s. cu., w	1.5 s. cu., w	

OCTOBER, 1903.

1	27.98	27.89	47.3	63.9	79	41	45.9	91	57.6	70	W	1	W	2	.....	.....	Few ci., 0	Few ci. s., 0	
2	27.89	27.85	62.6	64.8	77	55	59.7	85	60.0	76	SW	6	NW	3	T.	T.	7 s. cu., w	0	
3	27.87	27.84	50.5	66.1	77	49	50.5	100	61.0	76	NW	1	E	3	.....	.....	Lt. fog, 0	7 a. cu., w	
4	27.88	27.83	61.0	65.4	76	57	58.5	87	61.6	81	E	2	E	3	.....	.....	5 ci., nw	8 s. cu., se	
5	27.84	27.79	53.0	67.9	77	50	53.0	100	62.7	76	NW	1	E	4	.....	.....	D. fog, 0	10 s. cu., s	
6	27.79	27.72	56.0	67.3	76	53	56.0	100	63.0	80	NE	1	SE	5	T.	.....	D. fog, 0	7 s. cu., s	
7	27.71	27.55	64.6	68.0	71	64	61.2	83	62.5	74	SE	6	S	9	.....	T.	10 s. cu., s	9 s. cu., s	
8	27.47	27.52	51.9	55.0	69	51	45.8	64	46.3	52	NW	12	NW	16	0.82	.....	Few s. cu., nw	2 s. cu., nw	
9	27.55	27.56	48.2	50.0	52	46	43.0	67	42.7	55	NW	7	NW	17	.....	.....	10 s. cu., nw	4 s. cu., nw	
10	27.57	27.60	42.1	50.0	56	41	36.6	60	43.6	61	NW	8	N	4	.....	.....	5 ci., nw	4 s. cu., n	
11	27.56	27.64	47.5	50.7	58	40	43.7	75	47.6	81	NW	7	NW	6	.....	.....	10 s., nw	10 s., nw	
12	27.69	27.74	50.9	55.8	67	44	47.0	77	48.6	61	W	4	NW	2	.....	.....	2 cu., w	0	
13	27.79	27.72	37.8	50.7	73	34	36.7	95	45.2	67	NW	4	NW	1	.....	.....	0	0	
14	27.71	27.62	38.2	57.8	75	34	36.7	88	49.7	59	NW	1	W	2	.....	.....	0	0	
15	27.65	27.60	46.0	62.1	73	42	44.6	91	57.3	76	W	4	S	1	.....	.....	10 s., w	2 s., 0	
16	27.67	27.62	47.0	62.4	73	45	47.0	100	54.2	60	NW	1	SE	1	.02	0.01	D. fog, 0	5 s., 0	
17	27.49	27.43	57.0	52.0	59	45	56.7	98	47.0	70	S	1	NW	14	.40	.19	10 n., s	10 s. cu., w	
18	27.68	27.75	38.9	41.0	50	36	34.4	65	36.9	69	NW	20	NW	4	.....	.....	6 s. cu., nw	0	
19	27.79	27.71	34.0	53.0	65	32	32.8	89	43.0	44	W	1	W	4	.....	.....	1 ci. s., 0	0	
20	27.72	27.68	47.2	56.3	68	44	42.8	73	47.0	60	SW	5	W	5	.....	.....	0	0	
21	27.75	27.78	47.2	64.0	75	44	43.2	74	54.4	55	SW	3	NE	3	.....	.....	0	0	
22	27.86	27.70	51.0	59.1	72	46	49.7	92	53.5	70	E	1	SW	2	.....	.....	8 s. cu., se	0	
23	27.62	27.66	52.0	43.3	55	39	46.8	69	36.5	52	NW	9	NW	8	.....	.....	8 s. cu., nw	4 s. cu., nw	
24	27.66	27.68	33.0	36.0	40	33	29.2	65	32.6	72	NW	12	NW	10	.....	.....	8 s. cu., n	10 s. cu., nw	
25	27.68	27.63	33.1	44.2	54	30	28.7	59	36.6	49	W	8	W	7	.....	.....	0	0	
26	27.73	27.90	38.8	40.3	54	35	33.8	62	32.1	40	SW	6	NW	8	.....	.....	Few s. cu., sw.	0	
27	27.99	27.95	31.2	38.0	51	26	29.1	79	31.2	47	W	2	SW	3	.....	.....	2 ci., nw	0	
28	27.94	27.89	28.2	48.0	60	24	26.0	76	33.5	35	SW	3	W	1	.....	.....	0	0	
29	27.91	27.85	29.0	45.9	64	24	27.0	79	37.1	43	NW	1	NE	3	.....	.....	0	Lt. smoke, 0	
30	27.88	27.88	37.5	50.9	65	34	34.2	73	44.4	61	NW	2	SW	6	.....	.01	6 ci. s., nw	10 n., sw. (?)	
31	27.89	27.89	45.8	51.7	60	44	45.2	96	50.7	94	NW	1	0	0	.14	.01	8 s. cu., w	Few s., 0	
Mn	27.75	27.72	45.4	54.1	65.1	41.4	42.8	81.0	47.7	63.1	NW	4.5	NW	5.1	1.38	.22	3.7 s. cu., nw	3.3 s. cu., nw	

WYTHEVILLE, VA.

[φ=36° 56′ N; λ=81° 5′ W; barometer above sea, 2,293 feet; gravity correction applied −0.02.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.91	27.86	43.1	59.1	70	42	43.1	100	55.0	78	NW	1	N	1	0.01	.....	D. fog, 0	5 ci. s., nw	
2	27.84	27.81	49.0	56.0	69	47	48.0	93	54.5	91	NW	3	E	1	....	T.	10 s., nw	6 a. s., w	
3	27.86	27.82	46.2	56.0	72	46	46.2	100	50.7	71	NW	2	W	2	.....	.....	D. fog, 0	7 s., w	
4	27.76	27.56	44.0	56.8	61	41	42.9	92	56.2	96	W	1	E	1	....	0.45	6 s., w	10 n., e. (?)	
5	27.47	27.39	51.8	51.5	62	47	50.1	90	49.7	89	SW	7	W	8	.03	.15	4 s. cu., w	10 s. cu., sw	
6	27.57	27.76	34.6	31.8	47	28	32.0	77	27.2	56	NW	7	N	3	.01	.....	8 s. cu., nw	Few cu., n	*
7	27.88	27.86	22.2	30.5	46	22	20.2	73	28.0	74	SW	2	N	2	.....	.....	0	0	
8	27.91	27.87	20.9	35.0	57	19	19.8	85	31.1	66	NW	2	NE	3	.....	.....	0	0	
9	27.87	27.73	22.8	45.0	61	21	22.3	94	37.7	63	NW	3	NW	2	.....	.....	0	0	
10	27.66	27.61	38.8	49.0	60	29	34.8	69	43.9	68	W	5	SW	6	.....	.....	2 ci. s., nw	0	
11	27.61	27.39	34.0	57.3	62	31	33.4	94	50.5	63	W	1	S	7	.....	.....	5 ci. cu., w	10 s., sw	
12	27.63	27.57	31.3	40.1	55	30	30.2	89	36.6	73	W	1	S	2	.10	.....	8 a. s., 0	0	
13	27.65	27.66	44.0	44.1	60	30	37.7	57	40.5	74	SW	12	W	1	.....	.....	8 s., w	0	
14	27.70	27.85	48.0	42.0	54	37	44.6	78	35.0	50	NW	7	NW	2	.....	.....	10 s. cu., nw	0	
15	27.85	27.78	31.0	45.2	63	29	30.0	90	38.2	58	W	1	SE	2	.....	.....	2 ci., nw	0	
16	27.68	27.54	47.7	60.0	69	44	45.2	84	55.3	75	N	1	SW	6	.....	.....	7 s. cu., sw	3 s. cu., sw	
17	27.47	27.61	54.0	40.3	62	36	53.0	94	37.8	81	W	5	NW	7	.45	.35	10 n., w	10 s. cu., nw	
18	27.71	27.88	26.7	18.0	36	15	24.4	73	16.0	70	NW	9	NW	8	....	T.	10 s. cu., nw	0	*
19	27.99	28.02	14.0	25.5	32	13	13.0	83	20.6	64	SW	5	W	5	.....	.....	0	0	
20	28.12	28.09	13.2	28.9	37	12	12.6	89	25.4	63	W	1	E	2	.....	.....	0	0	
21	28.10	27.94	23.2	30.3	38	22	22.0	84	26.2	58	E	2	E	2	.....	.....	7 ci. s., nw	0	
22	27.84	27.75	26.4	36.3	46	19	24.0	72	32.2	66	SW	5	SW	5	.....	.....	7 a. s., w	0	
23	27.61	27.48	37.7	46.5	52	28	35.0	78	41.2	65	W	6	W	9	.....	.....	7 ci. cu., w	0	
24	27.58	27.66	33.0	22.2	42	30	30.8	79	29.0	69	W	3	NW	2	.....	.....	2 s., 0	0	
25	27.65	27.60	28.0	23.0	34	21	26.5	83	21.0	74	N	1	NW	1	.17	T.	10 n., n	0	*
26	27.61	27.68	22.0	16.0	25	13	20.0	73	14.3	72	NW	5	NW	7	....	T.	7 s. cu., nw	5 s. cu., nw	*
27	27.77	27.67	13.0	15.0	21	8	11.6	75	13.8	80	NW	9	W	5	.....	.....	9 s. cu., nw	0	
28	27.48	27.24	16.1	18.4	25	7	15.0	82	18.0	94	W	2	E	2	....	.14	10 s., w	10 n., e. (?)	*
29	27.26	27.36	21.0	24.0	27	16	20.2	89	23.4	92	W	12	W	7	.18	.01	10 n., w	10 n., w	*
30	27.47	27.65	19.2	10.2	26	2	18.4	88	9.6	88	SW	3	NW	2	T.	.01	8 s., sw	3 ci., nw	*
Mn.	27.72	27.69	31.9	37.3	49.0	26.2	30.2	83.6	84.0	72.5	W	4.1	NW	3.8	.95	1.11	5.6 s. cu., nw.	3.0 s. cu., nw	

DECEMBER, 1903.

1	27.73	27.68	−2.0	24.0	29	−2	−2.2	93	22.5	81	NW	2	NE	2	.....	.....	0	8 s., 0	
2	27.62	27.60	20.1	27.2	30	15	19.0	85	25.8	84	NE	1	E	1	0.05	T.	10 n., ne	10 s. cu., n	*
3	27.60	27.64	14.1	25.2	35	8	12.7	76	23.5	80	SW	3	SW	1	.....	.....	0	0	
4	27.70	27.73	26.0	35.4	40	24	24.0	77	32.0	71	SW	5	SW	3	.....	.....	4 s., 0	9 s., sw	
5	27.74	27.71	32.5	34.1	37	30	32.5	100	32.8	89	W	5	W	4	.....	.....	10 s., w	10 s., w	
6	27.75	27.78	22.0	23.3	30	22	20.0	73	22.0	83	NW	8	W	9	.....	.....	5 s. cu., nw	0	
7	27.70	27.62	21.0	31.0	40	21	20.0	86	28.5	75	SW	7	SW	6	.....	.....	0	0	
8	27.62	27.48	28.5	38.0	44	28	26.0	73	30.0	72	SW	4	W	1	.....	.....	5 ci. s., nw	0	
9	27.24	27.19	31.2	30.0	35	28	30.0	88	29.5	95	W	2	W	8	....	0.02	10 s., w	10 n., w	*
10	27.19	27.44	28.4	18.2	30	18	27.2	87	17.0	82	SW	4	W	16	.02	.03	10 n., sw	0	*
11	27.69	27.78	17.8	26.0	31	16	17.0	88	24.0	77	SE	3	W	4	T.	.....	7 s. cu., w	0	*
12	27.80	27.68	15.6	40.0	46	14	14.4	81	35.0	62	NW	1	S	5	.....	.....	0	10 s., s. (?)	
13	27.66	27.88	35.2	29.0	47	25	34.0	89	26.0	68	NW	20	W	5	.18	.....	4 s. cu., nw	0	
14	27.93	27.90	20.4	30.4	37	20	19.0	80	26.4	59	W	1	W	4	.....	.....	8 s., w	0	
15	27.85	27.83	20.9	21.3	29	18	18.0	60	17.9	55	W	7	W	5	.....	.....	0	0	
16	27.73	27.60	18.0	29.0	34	16	15.0	55	25.1	59	W	8	W	3	.....	.....	4 ci. s., nw	0	
17	27.71	27.77	22.3	23.2	33	15	21.0	83	19.8	58	N	4	W	3	.....	.....	6 s. cu., n	0	
18	27.88	27.90	11.2	32.2	43	10	10.0	76	25.8	39	NW	6	E	3	.....	.....	0	0	
19	27.94	27.72	23.1	26.0	33	22	21.0	73	25.2	90	E	7	NE	7	....	.01	10 s., e. (?)	10 n., ne. (?)	*
20	27.23	27.42	41.6	28.0	43	27	40.0	88	27.2	91	SW	12	W	17	.79	.04	10 n., sw	10 n., w	*
21	27.57	27.52	24.2	34.1	39	24	22.0	73	30.0	63	SW	14	W	8	.01	.....	0	0	
22	27.56	27.75	35.0	34.4	41	30	31.3	68	28.0	44	W	17	W	8	.....	.....	0	0	
23	27.91	27.90	24.1	34.0	43	24	22.5	80	31.0	73	SW	5	W	2	.....	.....	0	4 ci. cu., nw	
24	27.74	27.56	39.2	41.8	52	28	38.0	53	41.0	94	S	2	SW	5	.....	T.	10 s., sw	8 s. cu., w	
25	27.35	27.24	44.0	37.0	47	34	44.0	100	35.0	84	W	4	W	16	.11	.08	10 s. cu., sw	5 s. cu., w	
26	27.39	27.64	13.0	9.1	34	9	11.8	78	8.0	77	NW	13	W	7	T.	.....	6 s. cu., nw	0	*
27	27.49	27.48	12.8	28.4	34	9	11.0	67	25.0	63	W	10	W	12	.....	.....	5 s. cu., w	0	
28	27.64	27.69	31.0	27.0	38	22	27.7	67	25.5	83	W	8	W	1	.....	.....	10 s. cu., w	0	
29	27.59	27.62	30.3	32.1	38	21	28.0	76	29.0	70	W	7	SW	8	.....	.....	0	8 s. cu., sw	
30	27.70	27.71	24.2	27.7	30	23	21.2	63	24.0	59	W	16	SW	8	T.	.....	4 s. cu., w	8 s. cu., w	*
31	27.69	27.67	24.1	36.2	44	24	22.0	74	32.0	65	W	8	W	8	.....	.....	0	0	
Mn.	27.64	27.65	24.2	29.3	37.6	20.1	22.4	77.7	26.6	72.4	W	6.9	W	6.1	1.16	.18	4.8 s. cu., w	3.5 s. cu., w	

ATLANTA, GA.

[φ=33° 45′ N; λ=84° 23′ W; barometer above sea, 1,174 feet; gravity correction applied −.03.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.97	28.85	39.0	51.3	55	39	35.2	70	43.9	55	E	8	E	10	.....	.....	4 a. cu., w	10 s. cu., w	
2	28.67	28.54	46.7	52.1	55	47	46.3	97	52.1	100	SE	17	SE	10	0.21	0.07	10 s., se	10 n. (?)	≡a.≡p.
3	28.65	28.60	44.2	43 0	55	41	42.2	86	41.1	86	NW	20	NW	8	.01	.....	10 s. cu., nw	10 s. cu., nw	
4	28.51	28.59	37.5	39.6	41	38	37.5	100	36.1	72	NW	12	NW	14	.08	T.	10 n., w	10 s. cu., nw	
5	28.62	28.55	35.2	36.0	44	34	32.8	78	36.0	100	W	9	SW	16	....	.03	3 s. cu., w	10 n., w	
6	28.71	28.74	28.1	32.7	34	27	26.5	81	29.2	66	NW	28	W	11	.04	T.	10 s. cu., nw	0	*
7	28.48	28.45	35.9	42.5	52	32	34.6	84	35.3	47	SW	24	NW	26	.....	.....	9 s. cu., sw	10 s. cu., w	
8	28.66	28.77	27.5	30.3	35	27	26.0	82	27.0	65	NW	38	NW	17	T.	T.	10 n., nw	0	*
9	28.85	28.80	22.8	39.0	44	23	21.3	80	31.2	39	NW	12	W	12	.....	.....	Few ci. s., w	0	
10	28.87	28.78	33.1	41.0	47	33	29.0	60	36.5	65	NW	8	SE	20	....	T.	10 a. cu., w	10 n., sw	
11	28.41	28.71	43.5	35.7	55	29	43.5	100	33.2	78	SE	21	NW	20	.37	.21	10 n., se	10 s. cu., nw	≡a.
12	28.97	29.09	21.3	25.2	29	21	19.4	72	21.7	56	NW	19	NW	18	.....	.....	1 s. cu., nw	0	
13	29.15	29.14	18.8	29.4	33	18	17.0	72	24.8	50	NW	12	NW	15	.....	.....	8 s., nw	10 a. cu., nw	▽
14	29.16	29.08	29.2	37.5	39	28	26.4	69	33.2	64	NW	7	W	5	....	.01	10 s., 0 (?)	0	*△
15	29.02	28.95	32.6	43.1	49	32	28.1	56	36.9	54	N	16	NW	8	.....	.....	10 ci. s., w	0	
16	28.91	28.80	34.5	46.2	49	34	30.8	66	39.5	55	NW	17	NW	4	.....	.....	5 a. s., sw	10 s. cu., nw	
17	28.66	28.64	43.1	47.8	54	42	38.6	67	44.1	75	NW	13	NW	12	....	T.	9 a. s., w	8 s. cu., nw	
18	28.74	28.85	36.7	40.7	51	37	34.8	84	33.9	41	NW	15	NW	15	.....	.....	2 s. cu., nw	0	
19	28.99	28.97	32.2	37.1	44	31	26.5	44	31.5	53	SE	18	SE	20	.....	.....	Few a. s., 0	0	
20	28.86	28.73	31.9	32.8	34	30	29.0	70	32.6	98	NE	8	E	7	....	.02	10 s. cu., e	10 s. cu., e	≡p.
21	28.66	28.71	35.5	42.7	47	34	35.5	100	41.8	93	NW	8	NW	9	T.	T.	D. fog, nw	10 s. cu., nw	*
22	28.88	28.90	33.7	42.8	46	34	31.0	75	35.9	49	NW	22	W	9	T.	.....	10 s. cu., nw	0	
23	28.99	28.86	39.2	49.6	56	37	35.6	71	41.1	47	W	6	S	8	.....	.....	0	0	
24	28.72	28.72	42.7	43.8	52	42	42.1	95	43.8	100	S	12	SE	10	.17	.01	10 n., s	D. fog, se	≡a.
25	28.83	28.89	41.3	46.3	54	41	41.3	100	48.8	89	N	3	SE	12	T.	.....	D. fog, n	0	
26	28.98	29.00	43.2	43.5	46	42	41.8	89	43.0	96	E	12	SE	20	....	T.	10 s., se	10 n., se	
27	28.95	28.88	42.8	47.1	47	41	42.8	100	47.1	100	E	15	SE	12	.09	.60	D. fog, e	10 s. cu., e	≡p.
28	28.88	28.77	47.8	56.6	59	47	47.8	100	56.6	100	SE	3	SE	4	.02	.01	10 n., 0 (?)	D. fog, se	≡a.
29	28.72	28.62	58.8	66.0	69	56	58.6	99	61.0	76	S	10	SW	22	.01	.....	10 s. cu., s	0	
30	28.86	29.04	42.2	40.8	62	35	36.4	57	34.0	48	NW	36	NW	15	.....	.....	7 a. s., w	0	
31	29.06	28.97	30.6	52.1	59	31	26.4	56	39.4	27	NW	14	S	15	.....	.....	3 s. cu., nw	3 a. s., w	
Mn	28.82	28.81	36.5	42.4	48.3	34.9	34.3	79.3	38.3	69.2	NW	14.9	NW	13.0	1.00	.96	6.5 s. cu., nw	4.9 s. cu., nw	

FEBRUARY, 1903.

1	28.91	28.84	45.2	59.0	61	45	38.2	52	54.9	77	S	17	SW	13	.....	.....	9 a. s., sw	10 a. cu., sw	
2	28.84	28.88	58.0	60.2	62	58	58.0	100	59.0	93	SW	13	E	4	0.15	0.13	10 n., sw	10 s., se	
3	28.73	28.56	57.0	61.4	66	57	57.0	100	61.4	100	S	8	S	11	.16	.42	10 s. cu., s	10 n., s	≡a.
4	28.47	28.67	55.2	47.2	67	38	49.6	68	36.1	29	NW	16	NW	36	.55	.....	9 s. cu., sw	0	
5	28.91	29.00	28.8	37.0	42	29	25.3	61	30.7	47	NW	20	NW	23	.....	.....	2 a. s., w	6 a. cu., w	
6	29.05	29.02	35.3	42.3	47	33	30.7	59	40.3	85	E	7	E	6	....	.03	10 a. s., sw	10 n., e	
7	28.90	28.70	36.4	41.2	43	36	36.4	100	41.2	100	NE	12	SE	26	.49	1.96	10 n., ne	10 n., se	
8	28.68	28.85	42.6	41.6	44	37	42.0	95	37.6	70	NW	19	NW	18	.27	.....	8 s. cu., nw	10 s., sw	
9	28.96	29.00	31.2	46.2	50	31	29.8	85	40.6	62	NW	15	NW	6	.....	.....	1 a. s., w	8 a. s., w	▽
10	29.00	28.74	41.0	41.8	43	41	38.0	77	40.7	91	SE	12	SE	30	.....	.17	10 s. cu., se	10 s. cu., se	
11	28.62	28.69	42.8	50.2	58	42	42.8	100	45.8	71	SE	8	NW	12	1.36	.01	10 n., s	Few s. cu., nw	
12	28.82	28.82	44.2	57.9	62	43	42.0	84	51.0	62	N	11	S	7	.....	.....	D. fog, n	0	
13	28.93	28.93	52.0	59.3	66	48	49.5	81	51.7	60	NW	7	S	8	.....	.....	3 s. cu., sw	3 ci. s., w	
14	28.93	28.91	57.2	60.6	66	54	52.8	75	59.7	95	NW	4	E	6	.....	.04	10 s. cu., sw	10 s., 0 (?)	
15	28.77	28.60	58.9	65.8	67	58	58.9	100	63.8	90	S	8	S	19	T.	.....	D. fog, s	6 s. cu., s	
16	28.37	28.16	54.8	37.2	66	23	54.8	100	33.3	67	S	7	NW	56	.46	1.74	10 n., s	10 s. cu., nw	≡a.*◪
17	28.75	28.97	12.2	16.5	23	12	10.9	74	14.9	74	NW	36	NW	14	T.	.....	9 s. cu., nw	0	*
18	29.01	29.15	19.8	33.4	40	15	18.3	78	29.9	66	SW	19	NW	16	.....	.....	0	0	
19	29.26	29.20	17.5	39.8	42	17	15.3	64	33.0	47	NW	11	S	6	.....	.....	7 a. s., w	0	
20	29.23	29.12	35.3	45.5	49	34	29.4	47	38.1	49	N	6	N	7	.....	.....	1 s. cu., 0	5 a. s., 0 (?)	⊕
21	29.04	29.00	37.9	46.3	54	36	34.9	75	38.6	48	N	10	NW	18	.....	.....	9 s. cu., sw	0	
22	29.14	29.23	27.6	47.1	52	27	25.8	79	39.6	50	NW	15	SE	11	.....	.....	0	0	
23	29.26	29.11	34.0	48.8	52	34	31.4	76	41.0	50	E	10	SE	11	.....	.....	3 ci. s., e	0	
24	29.02	28.95	39.0	53.7	59	39	35.2	70	42.6	37	N	12	NW	10	.....	.....	0	1 ci. s., w	⊕
25	29.04	29.10	37.8	48.8	54	38	35.8	83	43.3	64	N	13	E	7	.....	.....	10 a. s., n	0	
26	29.15	28.96	41.4	52.3	56	41	38.6	78	47.9	73	E	13	SE	23	.....	.....	8 s. cu., se	10 a. s., se	
27	28.79	28.53	52.3	64.9	69	49	52.3	100	64.1	96	SE	20	S	23	.11	.84	10 n., se	10 s. cu., s	
28	28.58	28.81	58.0	54.4	68	51	54.3	79	47.7	61	W	35	SW	14	.77	.....	9 s. cu., sw	3 a. s., sw	◪
Mn	28.90	28.87	41.2	48.6	54.6	38.1	38.9	80.1	43.9	68.4	NW	13.7	NW	15.8	4.32	5.34	6.4 s. cu., sw	5.1 s. cu., w	

ATLANTA, GA.

[$\varphi = 33° 45'$ N; $\lambda = 84° 23'$ W; barometer above sea, 1.174 feet; gravity correction applied −.03.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.98	29.09	40.2	43.2	51	36	38.4	86	41.0	83	NW	16	NW	9	.....	.....	Few a. s., 0	0	
2	29.16	29.13	31.8	48.8	51	32	29.8	79	44.0	69	N	8	SE	8	.....	.....	4 a. cu., w	10 a. cu., sw	
3	29.19	29.12	41.2	52.8	56	41	37.1	68	49.8	82	SE	15	SE	12	.....	.....	7 a. cu., w	9 a. cu., w	
4	29.10	29.07	44.7	48.2	51	45	44.5	98	48.2	100	E	9	SE	14	0.19	0.02	10 s. cu., e	10 s. cu., se	
5	29.00	28.96	47.8	58.2	59	48	47.6	98	58.0	99	SE	8	S	6	.01	.27	10 s. cu., se	9 s. cu., sw	≡ 9 a. ☔
6	28.98	28.97	56.3	66.4	70	56	56.3	100	64.2	89	S	3	S	8	.01	.....	D. fog, s	9 a. cu., sw	☔
7	28.96	28.94	59.9	65.8	70	60	59.4	97	64.6	94	S	15	SE	11	T.	.07	10 s. cu., se	6 s. cu., sw	≡ 9 a. ⌐
8	28.96	28.92	59.0	64.8	68	58	58.4	96	63.7	94	S	9	S	6	T.	T.	10 s. cu., s	8 a. cu., sw	⌐
9	28.97	28.95	61.0	63.1	73	60	60.4	96	62.3	96	S	8	E	7	.....	.29	10 s. cu., s	10 n., s	
10	28.99	28.98	61.4	68.3	75	61	61.4	100	65.3	85	SE	9	SE	12	.05	.27	D. fog, se	9 s. cu., s	⌐
11	29.00	28.99	60.6	64.9	70	59	59.1	92	61.2	81	SE	4	NW	3	.59	T.	9 a. cu., sw	10 s. cu., w	
12	28.98	28.92	59.4	64.1	67	59	59.4	100	61.3	86	N	5	SE	8	.....	.....	D. fog, n	10 s. cu., sw	
13	28.92	28.90	54.3	56.0	59	54	53.8	97	55.0	94	E	10	SE	15	.01	.01	10 s. cu., e	10 s., se	
14	28.90	28.87	55.9	61.1	64	55	53.8	87	58.0	83	E	8	SE	11	T.	T.	9 a. cu., s	10 n., se	
15	28.89	28.85	55.7	60.9	65	56	55.0	96	59.0	90	SE	12	NE	12	.04	.20	10 n., e	3 s. cu., ne	
16	28.89	28.86	56.8	65.0	70	56	55.1	90	61.4	82	SE	11	SE	20	.....	.....	5 a. cu., se	10 s. cu., e	
17	28.91	28.91	55.1	64.0	66	55	53.8	92	62.4	92	E	10	E	6	T.	.....	10 s., ne	9 s. cu., e	
18	28.96	28.95	57.4	68.0	73	56	56.5	95	66.9	95	SE	11	SE	11	.....	.....	1 ci. cu., sw	2 s. cu., se	
19	29.02	28.96	58.6	64.2	66	58	57.6	94	63.0	94	E	12	E	6	.....	T.	8 a. s., sw	Few a. s., e	
20	28.91	28.78	60.6	67.3	72	58	60.3	98	66.3	95	SE	16	SE	8	T.	T.	10 s., se	10 s. cu., se	≡ 9 a. ▲ ⌐
21	28.77	28.72	58.2	51.9	59	51	58.2	100	51.0	95	N	9	NW	12	1.66	.04	10 n., n	10 n., n	
22	28.68	28.57	52.2	60.2	65	52	52.0	99	59.9	98	N	6	SW	7	.97	.86	10 n., n	10 n., sw	
23	28.63	28.75	55.6	65.2	70	56	55.0	96	57.8	64	W	16	NW	12	1.16	.....	9 s. cu., w	0	
24	28.88	28.90	46.6	49.6	61	44	43.1	76	40.2	42	NW	19	NW	20	.....	.....	3 a. s., w	5 a. s., w	
25	28.96	28.93	39.0	50.0	54	38	33.2	54	43.1	57	NW	18	NW	15	.....	.....	3 a. s., w	0	
26	29.03	28.95	44.9	57.9	62	42	42.1	80	48.2	51	E	12	SE	12	.....	.....	0	6 ci. s., sw	⌐
27	28.95	28.85	50.2	60.8	65	48	48.2	56	55.8	74	SE	10	SE	10	.....	.....	4 ci. cu., w	10 s. cu., sw	
28	28.84	28.77	54.6	60.9	64	54	52.2	86	60.0	95	S	11	NE	9	T.	.07	10 s. cu., s	10 n., sw	
29	28.76	28.60	53.7	58.2	55	38	53.7	100	38.2	100	NE	15	NE	14	.34	1.11	10 n., ne	10 n., ne	⌐
30	28.51	28.58	39.6	45.9	47	38	39.2	97	45.9	100	N	7	NW	16	.81	.02	10 n., n	10 s. cu., n	
31	28.72	28.75	44.8	61.5	65	44	43.8	93	60.5	94	NW	20	NW	13	.....	.....	0	1 a. s., w	
Mn	28.92	28.88	52.2	58.6	63.3	50.6	50.8	90.2	56.0	85.6	SE	11.0	SE	10.7	5.84	3.23	6.5 s. cu., w	7.3 s. cu., sw	

APRIL, 1903.

1	28.87	28.80	57.0	67.4	74	54	55.5	91	63.1	79	N	5	S	9	.....	.....	0	Few a. s., 0 (?)	
2	28.82	28.70	55.9	70.6	75	56	55.4	97	68.0	88	SW	12	S	12	.....	.....	9 ci. s., nw	10 a. s., sw	☔ ☔
3	28.67	28.40	61.9	73.9	77	45	61.4	97	72.4	93	S	16	S	24	.....	.....	10 s. cu., s	10 s. cu., sw	☔
4	28.79	28.87	36.2	46.5	50	36	35.8	96	41.3	64	NW	28	N	18	0.47	.....	1 s. cu., nw	Few ci. s., sw	
5	29.03	28.99	38.9	52.3	53	36	37.4	88	45.7	60	E	15	SE	12	.....	.....	2 ci., w	9 a. cu., w	⌐
6	29.04	28.88	46.4	63.5	66	44	45.0	90	61.8	91	SE	13	SE	12	.....	.....	10 s. cu., se	7 a. s., sw	
7	28.88	28.78	59.1	61.1	68	58	58.7	98	60.6	97	S	20	S	17	.....	0.03	10 s. cu., w	10 a. s., w	☔
8	28.71	28.76	56.5	66.4	72	56	56.5	100	64.2	89	SW	13	NW	12	1.57	T.	10 n., sw	0	⌐
9	28.91	28.85	57.0	66.9	74	53	55.5	92	62.2	77	E	7	S	11	.....	.....	0	Few ci. s., w	
10	28.92	28.83	61.0	73.7	78	58	60.1	95	59.2	42	N	18	S	10	.....	.....	2 ci. cu., n	9 ci. s., sw	☔
11	28.84	28.74	64.4	71.9	78	62	61.1	83	60.7	52	W	12	SW	11	.....	.....	10 s. cu., w	2 a. s., w	
12	28.72	28.55	64.8	69.8	77	63	63.6	93	67.7	90	SW	10	S	20	.02	T.	10 s. cu., w	8 s. cu., sw	⌐ ⌐
13	28.38	28.29	66.1	65.4	75	58	65.5	97	63.6	91	SW	16	SW	12	.06	.28	10 s. cu., sw	8 s. cu., w	⌐
14	28.29	28.40	49.4	44.9	58	44	48.9	96	44.0	94	NW	26	NW	20	.13	T.	9 s. cu., w	10 s. cu., nw	
15	28.42	28.53	42.0	43.5	45	42	40.5	88	41.5	85	NW	12	NW	24	.....	T.	10 s. cu., w	10 s. cu., nw	
16	28.54	28.59	44.6	47.1	50	43	43.3	91	46.4	95	NW	20	NW	18	.....	T.	10 s. cu., nw	10 s. cu., nw	
17	28.66	28.67	47.2	58.7	65	44	45.2	86	52.8	68	NW	15	NW	12	.....	.....	0	5 ci. s., sw	
18	28.76	28.66	52.8	64.2	70	50	48.3	73	56.9	64	S	11	SW	9	.....	.....	2 ci., nw	Few a. s., w	
19	28.68	28.50	52.5	64.9	70	52	51.5	94	61.6	83	S	9	S	18	.02	T.	10 n., sw	8 a. s., sw	
20	28.47	28.53	55.6	59.1	66	52	54.9	96	57.2	90	SW	18	NW	20	.57	T.	1 s. cu., sw	4 s. cu., nw	
21	28.60	28.60	53.8	62.2	67	51	51.9	89	55.8	67	NW	17	NW	12	.....	.....	0	Few ci. s., 0 (?)	
22	28.60	28.67	48.8	51.3	56	44	46.1	82	45.8	66	NW	20	NW	12	.....	.....	0	9 s. cu., nw	
23	28.77	28.85	41.4	51.7	57	38	39.8	87	46.6	68	NW	12	N	13	.....	.....	0	Few a. s., 0 (?)	⌐
24	28.96	28.83	47.0	61.6	66	42	43.8	78	54.8	65	SE	2	SW	8	.....	.....	3 ci., nw	0	⌐
25	28.77	28.68	54.2	59.2	69	52	52.9	92	58.5	90	NW	8	NW	8	.....	.03	10 a. cu., w	10 n., nw	⌐
26	28.73	28.78	45.0	49.9	55	44	43.8	91	48.8	89	NW	20	NW	22	.01	.....	0	1 a. s., 0	
27	28.95	28.98	48.8	66.5	73	44	47.1	89	61.0	73	NW	12	SE	12	.....	.....	0	Few a. s., nw	
28	29.13	29.08	58.3	70.6	75	55	53.6	74	59.1	51	SE	10	S	6	.....	.....	3 ci. s., ne	Few a. s., sw	
29	29.10	28.94	62.3	74.8	80	58	55.8	66	63.7	56	SW	9	S	10	.....	.....	0	Few a. s., sw	
30	28.95	28.84	61.0	61.5	76	59	55.7	72	60.9	96	W	16	NW	12	.....	.14	1 a. s., 0 (?)	10 n., nw	
Mn	28.77	28.72	53.0	61.4	67.2	49.8	51.2	88.7	56.8	77.3	NW	14.1	NW	13.9	2.85	0.48	4.8 s. cu., w	5.0 a. s., sw	

ATLANTA, GA.

[φ=33° 45′ N; λ=84° 23′ W; barometer above sea, 1,174 feet; gravity correction applied −.03.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.92	28.91	43.9	61.0	64	44	41.7	84	55.0	68	NW	24	S	3	0.10	.....	10 a. s., w	1 a. s., sw	
2	28.98	28.89	50.8	62.0	64	48	49.4	91	59.2	85	E	12	SE	12	.....	.....	10 s., se	10 s. cu., ne	
3	28.89	28.81	56.7	64.1	75	56	56.7	100	61.6	87	S	7	SE	8	....	T.	D. fog, s	6 s. cu., w	⊓◁
4	28.86	28.84	51.8	65.4	71	50	49.7	87	59.4	68	NW	10	NW	12	.....	.....	0	1 a. s., 0 (?)	
5	28.87	28.85	56.5	67.0	75	53	53.1	80	62.2	77	NE	10	SE	13	.....	.....	7 s. cu., e	2 a. s., w	
6	28.88	28.84	59.2	58.0	74	57	58.2	94	58.0	100	SE	19	S	8	T.	0.43	10 s. cu., se	10 n., se	⊓◁
7	28.78	28.72	59.1	61.5	67	57	58.6	97	60.6	95	E	7	SE	20	.28	.01	10 s. cu., s	10 s. cu., se	
8	28.70	28.66	53.7	59.3	63	54	53.4	98	58.1	93	E	12	E	7	.12	.07	10 n., e	10 s. cu., e	
9	28.70	28.71	59.1	63.2	66	56	56.6	86	61.7	92	E	12	NE	9	T.	T.	10 s. cu., ne	10 s. cu., ne	
10	28.76	28.76	60.0	65.2	68	58	58.8	91	62.9	88	NE	20	SE	15	T.	T.	10 s. cu., ne	10 s. cu., e	
11	28.82	28.78	60.8	69.0	73	58	59.1	91	61.3	65	E	16	SE	16	...	T.	8 ci. s., w	10 a. s., sw	
12	28.84	28.80	61.2	63.5	68	60	59.1	88	61.5	90	SE	23	SE	26	T.	.29	10 s. cu., e	10 s. cu., e	
13	28.82	28.75	60.3	63.7	68	60	59.7	96	62.0	91	SE	17	SE	16	.02	.08	10 n., se	10 s. cu., e	
14	28.68	28.60	60.1	60.9	65	60	59.9	99	60.0	95	SE	20	E	18	.18	.21	10 n., e	10 n., e	
15	28.60	28.66	59.8	69.0	72	58	58.7	94	63.5	74	E	17	E	7	.07	T.	9 s. cu., ne	1 s. cu., e	
16	28.82	28.83	65.5	71.1	76	60	60.8	77	60.8	55	E	5	SE	12	.....	.....	1 a. s., sw	Few a. s., e	
17	28.97	28.92	62.2	72.2	77	60	57.7	77	61.0	52	E	7	SE	12	.....	.....	0	Few a. s., w	
18	28.97	28.86	64.1	73.8	79	60	59.8	78	61.7	50	SW	6	SE	5	.....	.....	Few a. s., sw	Few a. s., sw	
19	28.91	28.85	66.9	75.8	81	63	59.7	66	65.1	56	SW	11	SW	6	.....	.....	0	1 a. s., sw	
20	28.93	28.87	69.2	74.0	85	68	62.7	70	67.5	72	W	6	NW	7	.....	T.	8 a. cu., w	9 n., w	⊓◁
21	28.91	28.84	69.6	79.9	86	66	65.0	79	67.6	53	N	2	W	12	T.	.....	Few a. s., w	Few a. s., 0	
22	28.92	28.85	68.8	81.7	87	67	62.2	69	66.4	45	NW	10	W	13	.....	.....	0	1 s. cu., w	
23	28.90	28.82	70.3	81.2	89	69	62.0	63	67.6	49	NW	12	NW	8	.....	.....	2 a. s., sw	Few a. s., w	
24	28.89	28.84	74.5	83.3	90	69	66.5	66	66.0	40	NW	7	NW	6	.....	.....	0	3 s. cu., nw	
25	28.93	28.88	75.1	82.8	87	71	64.6	57	69.1	50	NW	10	NW	8	.....	.....	4 a. s., w	2 ci. s., sw	
26	28.95	28.88	77.3	80.4	89	71	66.6	57	68.9	56	E	6	SE	24	.....	.....	4 ci. s., w	9 s. cu., sw	⊓◁
27	28.93	28.86	71.2	77.4	84	67	67.6	84	66.0	55	SE	12	W	9	T.	.....	10 s. cu., se	6 s. cu., w	⊓◁
28	28.92	28.87	70.6	71.1	84	67	67.1	84	65.4	74	S	5	S	26	.....	T.	5 a. cu., sw	10 s. cu., sw	⊓◁
29	28.93	28.83	66.8	75.6	83	64	64.7	90	68.6	70	SE	9	SE	11	.02	.....	8 a. cu., s	10 a. cu., sw	
30	28.85	28.73	67.2	72.5	81	66	65.6	92	66.0	71	S	12	SE	8	.10	.01	10 n., s	10 n., s	⊓◁
31	28.74	28.74	68.2	64.4	80	59	66.6	92	64.0	98	SE	10	SE	12	T.	1.60	4 s. cu., se	10 n., se	⊓◁
Mn	28.86	28.81	63.2	70.0	76.5	60.5	59.7	83.1	63.2	71.4	E	11.5	SE	11.9	0.89	2.70	5.8 s. cu., w	5.9 s. cu., sw	

JUNE, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.78	28.72	65.1	73.6	79	62	64.9	99	63.6	58	SE	15	SW	10	0.38	0.07	10 s., se	3 s. cu., se	▲⊓◁
2	28.83	28.87	61.0	63.3	74	60	60.8	99	61.9	93	SE	12	E	11	.45	T.	10 s. cu., se	10 s. cu., e	⊓◁
3	28.96	28.89	60.2	65.8	66	59	59.4	95	63.2	87	E	10	E	7	T.	.....	10 s. cu., e	10 a. s., sw	
4	28.91	28.87	63.2	64.8	68	63	63.0	99	64.4	98	E	13	SE	16	.09	2.32	10 n., e	10 s. cu., se	
5	28.90	28.87	65.2	69.5	72	65	65.1	99	68.8	96	SE	10	S	10	.54	.82	10 s. cu., se	9 s. cu., s	⊓◁
6	28.89	28.83	67.1	75.0	81	67	66.4	96	66.3	64	SW	3	NW	8	T.	.16	10 s., s	5 s. cu., nw	≡°a
7	28.82	28.73	69.2	75.9	82	66	65.2	81	69.9	74	NW	7	W	5	....	.02	3 a. cu., sw	2 a. s., w	
8	28.75	28.69	70.8	79.3	84	67	65.9	77	66.8	52	N	8	N	4	.....	.....	1 ci., sw	1 a. s., sw	
9	28.74	28.74	72.8	74.5	80	67	66.1	70	68.0	72	E	8	NW	2	.....	T.	9 s. cu., sw	10 s. cu., w	⊓◁
10	28.81	28.76	68.4	68.8	79	64	66.4	90	63.7	76	E	6	N	6	T.	.23	10 a. cu., sw	10 s. cu., nw	⊓◁ ⊃
11	28.74	28.68	64.1	71.2	78	62	64.1	100	62.4	61	NW	7	NW	19	T.	.....	D. fog, nw	1 s. cu., nw	
12	28.72	28.68	56.0	60.2	67	51	52.6	80	50.8	52	N	20	N	18	.....	.....	Few ci. s., 0	Few a. s., w	
13	28.74	28.71	50.7	65.3	69	46	46.5	74	54.2	48	N	12	NW	12	.....	.....	8 ci., nw	4 a. s., w	
14	28.78	28.73	58.9	71.8	76	56	51.9	63	57.7	41	NW	7	NW	11	.....	.....	5 a. s., w	Few a. s., w	
15	28.76	28.69	63.8	77.2	82	60	56.7	65	61.4	40	NW	12	NW	10	.....	.....	1 a. s., s	3 ci. s., sw	
16	28.70	28.63	68.9	81.2	85	62	60.4	61	64.9	41	N	7	N	8	.....	.....	0	Few a. s., sw	
17	28.68	28.65	71.3	81.2	88	69	62.6	62	66.0	46	NE	8	N	8	....	T.	0	4 a. s., w	⊓◁
18	28.68	28.65	68.8	81.1	86	64	61.9	68	63.9	38	NE	10	NW	10	.....	.....	0	Few s. cu., 0	
19	28.69	28.60	68.2	81.6	88	65	64.0	81	63.3	36	S	10	W	10	.....	.....	Few ci. s., 0	1 a. s., sw	⊓◁
20	28.62	28.57	69.9	73.4	85	63	66.5	84	68.4	78	W	13	SW	6	T.	.60	10 s. cu., sw	2 a. s., sw	▲⊓◁
21	28.64	28.56	71.1	78.7	89	66	67.9	85	71.7	71	NW	8	SW	8	....	T.	7 ci. s., w	10 s. cu., sw	⊓◁
22	28.57	28.51	70.4	75.2	81	68	67.9	88	69.7	76	SW	2	W	9	T.	.10	10 s. cu., sw	2 s. cu., w	⊓◁
23	28.58	28.61	69.0	77.8	81	67	64.5	79	64.5	49	NW	12	N	8	.....	.....	3 a. s., w	Few a. s., sw	
24	28.64	28.61	69.5	80.7	86	64	62.5	68	64.5	41	NW	2	W	10	.....	.....	1 a. cu., w	6 ci. s., w	
25	28.70	28.70	69.3	75.2	80	67	64.8	79	67.2	66	W	20	W	15	....	.24	10 s. cu., sw	5 a. s., sw	⊓◁
26	28.75	28.68	65.2	68.5	77	63	65.2	100	65.4	85	W	24	S	8	.23	.22	10 n., w	4 a. cu., sw	⊓◁
27	28.75	28.65	66.1	67.5	77	63	65.9	99	67.2	98	W	8	SE	8	....	.20	10 s., sw	10 s. cu., sw	⊓◁
28	28.65	28.62	64.2	69.9	78	64	64.2	100	68.4	93	NW	4	NE	1	.40	.08	10 n., nw	8 s. cu., sw	
29	28.73	28.75	68.5	78.8	81	65	66.2	89	69.8	64	NW	7	SW	4	.....	.....	Few a. cu., w	Few ci. s., nw	
30	28.87	28.80	73.9	82.2	87	70	69.0	78	70.0	54	W	3	W	4	.....	.....	Few a. s., w	Few a. s., 0	
Mn	28.75	28.70	66.4	73.6	79.5	63.2	63.0	83.6	64.9	64.9	NW	9.6	NW	8.9	2.09	4.56	5.6 s. cu., sw	4.3 a. s., s. cu., sw	

ATLANTA, GA.

[φ=33° 45′ N; λ=84° 23′ W; barometer above sea, 1,174 feet; gravity correction applied −.03.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.84	28.76	74.6	83.8	90	73	70.1	80	72.8	59	W	7	W	9	.....	.....	1 cu., nw	4 s. cu., sw.....	
2	28.83	28.81	77.1	77.4	87	74	71.2	75	73.1	82	NW	5	S	8	.....	T.	3 ci. s., nw....	10 s. cu., w.....	
3	28.88	28.85	74.5	73.8	90	69	70.9	84	70.0	83	SW	8	NW	11	T.	0.44	Few a. s., sw..	8 s. cu., s	
4	28.92	28.84	75.6	77.2	89	71	72.4	86	73.2	83	SW	3	W	8	T.	T.	5 ci. s., sw	7 s. cu., w.....	
5	28.91	28.86	74.9	83.3	89	72	72.2	88	78.3	80	NW	8	NW	5	.....	.....	9 s. cu., sw....	7 ci. s., w	
6	28.91	28.86	74.5	73.1	90	70	71.5	86	71.8	94	E	4	W	6	.....	.64	4 a. s., nw	10 n., se.....	
7	28.89	28.85	71.9	75.2	84	71	71.4	98	71.2	82	E	5	E	7	T.	T.	10 s. cu., sc....	10 s. cu., sc	
8	28.93	28.86	72.2	76.3	86	70	71.0	94	70.8	76	SE	8	S	10	T.	T.	10 s. cu., sc....	4 s. cu., s.....	
9	28.90	28.83	74.1	77.1	88	70	70.8	85	71.8	78	N	7	S	6	.....	T.	8 a. cu., nw....	5 ci. s., sw	
10	28.88	28.84	70.3	72.3	88	70	70.3	100	70.8	93	SW	6	SW	15	T.	.24	D. fog, sw.....	10 s. cu., e	
11	28.83	28.73	73.5	78.0	84	70	71.7	92	73.4	81	SW	6	S	11	0.13	.....	3 s. cu., sw....	7 s. cu., sw.....	
12	28.74	28.67	72.6	73.4	84	71	71.1	93	73.4	100	SW	6	SW	6	T.	.30	10 s. cu., sw....	10 n., sw	
13	28.67	28.68	71.5	75.4	90	68	71.3	99	70.0	76	SW	7	NW	13	.71	.29	10 s., sw.....	1 s. cu., sw.....	
14	28.78	28.75	67.2	75.8	90	64	61.3	72	63.5	51	N	10	NW	8	.....	.....	3 ci. s., w	8 a. cu., nw.....	
15	28.82	28.78	68.4	76.8	83	64	60.9	65	66.8	60	N	6	NW	11	.....	.....	Few a. s., w....	Few a. s., 0.....	
16	28.86	28.79	70.2	78.8	85	66	62.2	64	69.1	61	E	9	N	4	.....	.....	1 a. cu., w	8 a. cu., w	
17	28.84	28.78	70.8	84.0	88	67	67.6	85	75.9	70	E	4	S	8	.....	.....	6 ci. s., w	1 s. cu., sw.....	
18	28.80	28.72	76.1	84.9	89	74	71.6	80	75.4	65	W	13	W	15	.....	.....	0.....	Few a. s., sw.....	
19	28.74	28.72	76.0	79.0	86	73	71.5	80	73.1	71	W	13	NW	12	.....	.03	1 a. s., w.....	9 ci. cu., sw.....	
20	28.78	28.76	70.7	81.2	85	66	65.0	74	70.2	58	NW	8	NW	10	.....	.....	0.....	Few s. cu., w	
21	28.84	28.81	73.6	75.1	88	68	65.1	64	66.7	64	N	5	NW	6	.....	T.	7 ci. s., w	10 s. cu., w.....	
22	28.86	28.77	70.3	86.2	90	68	67.1	85	74.1	57	NW	8	NW	7	T.	.....	6 cu., nw	1 s. cu., w.....	
23	28.78	28.74	75.0	82.3	89	73	69.8	77	70.3	55	NW	5	N	13	.....	.....	0.....	2 a. s., w.....	
24	28.82	28.82	74.8	81.2	88	71	67.7	70	69.0	54	E	14	SE	14	.....	.....	3 cu., w.....	10 a. s.,se	
25	28.94	28.93	73.2	82.6	88	68	67.5	75	70.1	54	E	7	SE	8	.....	.....	7 ci., w.....	1 s. cu., s.....	
26	28.99	28.89	74.8	85.8	93	72	67.8	70	69.4	44	W	6	S	6	.....	.....	0.....	Few a. s., 0	
27	28.92	28.80	73.1	83.0	93	72	68.6	80	72.1	59	NW	12	N	7	.....	.....	0.....	9 s. cu., nw	
28	28.81	28.75	76.4	81.0	90	69	70.5	75	72.8	68	N	6	NW	8	.....	.76	10 a. s., nw....	7 s. cu., sw.....	
29	28.82	28.78	75.9	80.6	89	72	71.4	80	74.1	74	E	4	S	6	.....	.....	4 a. cu., w	9 a. s., sw.....	
30	28.86	28.85	71.4	76.1	85	66	70.2	94	72.1	83	W	8	W	10	.04	.76	9 n., w.....	9 s. cu., sw.....	
31	28.88	28.83	70.5	80.6	86	67	68.1	88	74.0	74	W	6	SW	10	.04	.....	4 a. cu., sw....	8 ci. s., w	
Mn	28.85	28.80	73.1	79.1	87.2	69.6	69.0	81.9	71.6	70.6	E	7.2	NW	9.0	.92	3.37	4.3 a. s., ci. s., s. cu., w.	6.0 s. cu., sw.....	

AUGUST, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.95	28.96	75.4	78.8	89	73	71.6	83	71.9	71	E	2	E	7	.....	.....	5 s. cu., w.....	8 a. s., w	
2	29.09	29.07	72.5	71.7	87	68	71.0	93	71.0	94	E	7	E	8	.....	0.04	10 s. cu., e	9 n., ne	
3	29.09	28.95	68.1	83.8	88	68	68.1	100	72.5	58	N	9	N	5	T.	.....	D. fog, n	2 a. s., sw.....	
4	28.91	28.79	74.0	77.8	88	70	71.6	89	72.8	79	N	2	NW	12	.....	.....	2 ci. s., w.....	7 s. cu., nw.....	
5	28.77	28.76	69.8	73.4	84	67	69.0	96	70.5	87	NW	9	W	11	0.77	T.	9 s. cu., nw ...	4 s. cu., w	
6	28.78	28.75	72.2	83.3	88	69	69.0	85	74.4	66	W	9	W	8	.....	.....	9 s. cu., w.....	3 s. cu., w.....	
7	28.78	28.75	73.0	80.5	86	71	69.6	84	70.0	59	NW	12	NW	10	.....	.....	4 s. cu., w.....	1 ci. s., sw	
8	28.76	28.67	71.7	81.9	85	68	66.8	78	71.4	60	N	5	E	4	.....	.....	1 ci. s., 0.....	2 a. s., sw	
9	28.71	28.70	73.9	75.2	87	70	70.6	85	70.2	78	W	9	W	10	.....	T.	4 a. cu., w	3 ci. s., w	
10	28.81	28.72	72.8	81.2	88	69	70.4	89	72.7	67	NW	4	SW	11	.....	.....	4 a. s., w.....	10 s. s., w.....	
11	28.81	28.78	72.8	77.4	85	70	70.9	91	69.8	69	NW	12	NW	5	.....	.....	5 a. s., w.....	5 a. s., w.....	
12	28.79	28.76	70.4	76.9	83	68	69.7	97	70.9	75	NW	8	SW	5	T.	.01	10 n., sw.....	1 s. cu., sw	
13	28.81	28.76	72.4	77.4	85	69	71.0	93	73.6	84	S	3	SE	5	.....	.01	9 s. cu., sw....	1 s. cu., 0	
14	28.85	28.82	74.0	74.4	85	67	72.0	91	74.0	98	S	5	E	18	.....	.07	8 s. cu., sw....	10 n., sw	
15	28.84	28.78	70.5	70.3	84	67	70.0	98	70.3	100	N	6	NE	5	.26	.41	8 s. cu., nw ...	9 n., nw	
16	28.76	28.69	70.8	77.2	86	70	70.4	98	72.0	79	W	5	SE	5	.19	.....	10 s. cu., w....	2 s. cu., nw	
17	28.75	28.71	72.2	79.1	83	68	71.2	95	71.8	70	E	11	SE	9	.....	.03	8 s. cu., se	3 s. cu., sc	
18	28.72	28.68	69.1	74.2	80	65	68.9	99	69.7	80	E	11	SE	14	.10	T.	10 s., ne.....	4 s. cu., se	
19	28.65	28.59	68.4	73.8	78	68	67.4	95	70.7	86	E	12	SE	8	T.	T.	10 s. cu., e	9 s. cu., se	
20	28.60	28.66	70.6	73.7	86	69	69.5	95	69.6	82	N	4	S	7	T.	T.	10 s. cu., w....	5 ci. s., w	
21	28.81	28.82	71.6	79.3	85	68	68.8	87	71.5	69	E	6	SE	8	.....	.....	8 a. cu., e.....	1 a. s., 0	
22	28.89	28.80	73.0	82.1	87	71	69.2	83	71.2	58	SE	6	S	8	.....	.....	0.....	Few s. cu., 0 (?) ..	
23	28.84	28.79	73.4	84.0	90	72	70.7	88	72.5	59	N	6	S	8	.....	T.	0.....	Few s. cu., sw	
24	28.86	28.82	74.6	86.2	90	73	72.0	89	73.7	56	W	3	S	6	.....	.02	0.....	Few s. cu., s.....	
25	28.89	28.82	76.5	86.9	92	75	72.7	84	74.5	56	W	8	W	10	.....	.....	0.....	1 s. cu., w.....	
26	28.87	28.78	78.3	86.6	92	76	72.8	77	72.2	50	NW	12	NW	8	.....	.....	0.....	Few s. cu., nw....	
27	28.82	28.75	78.0	88.5	93	76	70.2	68	75.0	54	NW	7	S	7	.....	.....	0.....	1 s. cu., s.....	
28	28.80	28.72	77.1	86.8	92	74	71.1	75	71.2	47	NW	15	W	13	.....	.....	Few ci. s., w..	Few s. cu., w	
29	28.76	28.69	75.9	77.5	90	73	71.1	79	70.9	71	NW	8	W	6	.....	T.	Few a. s., w ..	8 s. cu., w.....	
30	28.72	28.66	70.8	78.2	85	68	69.0	91	72.2	75	NW	7	SW	6	.....	.....	6 s. cu., w	9 s. cu., sw.....	
31	28.70	28.68	64.9	71.6	80	63	61.7	84	60.5	53	NW	12	N	15	.....	.....	6 s. cu., w	Few s. cu., n.....	
Mn	28.81	28.76	72.5	79.0	86.5	69.8	69.9	88.4	71.4	70.6	NW	7.6	{SE W}	8.5	1.32	.59	5.0 s. cu., w...	3.8 s. cu., w.....	

ATLANTA, GA.

[φ=33° 45′ N; λ=84° 23′ W; barometer above sea, 1,174 feet; gravity correction applied −.03.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.69	28.72	61.0	74.5	83	55	57.4	81	62.5	51	N	5	S	9			1 a. s., w	4 s. cu., ne	
2	28.82	28.84	69.5	76.2	83	66	67.0	88	66.8	61	E	9	E	8			10 s. cu., ne	Few a. s., 0 (?)	
3	28.90	28.86	69.9	78.8	86	64	67.2	87	69.8	64	E	12	SE	11		T.	2 s. cu., e	2 s. cu., se	
4	28.92	28.87	69.0	74.0	85	66	66.0	86	66.9	70	E	7	W	8		T.	9 s. cu., e	9 s. cu., e	
5	28.85	28.75	69.4	83.8	89	69	65.8	83	68.7	47	NW	4	NW	6			0	Few s. cu., nw	
6	28.81	28.76	71.6	85.4	91	70	64.5	69	67.9	40	N	7	N	7			0	1 s. cu., n	
7	28.87	28.84	71.1	82.3	90	70	66.1	77	69.6	53	E	10	SE	8			0	8 s. cu., se	
8	28.96	28.92	74.2	82.2	87	70	70.9	85	70.4	56	SE	6	SE	6			9 s. cu., se	Few a. s., 0 (?)	
9	29.03	28.93	72.4	80.4	87	69	69.6	87	69.4	57	E	6	SE	12			0	0	
10	28.95	28.88	71.8	79.9	86	68	69.9	91	69.6	60	SE	9	SE	10			0	Few s. cu., se	
11	28.97	28.92	70.1	78.2	85	68	66.9	85	65.4	50	SE	5	SE	13			8 a. s., sw	6 a. cu., w	
12	28.97	28.90	68.0	79.6	86	65	65.0	85	67.0	52	SE	15	E	14			5 s. cu., se	Few a. s., 0 (?)	
13	28.94	28.86	72.0	72.0	83	69	69.5	89	68.9	86	SE	17	SE	20		0.02	10 s. cu., e	5 s. cu., se	
14	28.81	28.70	70.7	69.1	73	68	69.9	96	68.6	97	SE	20	SE	30	0.14	.70	10 s. cu., se	10 n., se	
15	28.68	28.70	69.0	69.4	71	68	69.0	100	69.0	98	SE	20	E	6	1.22	.35	10 n., se	10 s. cu., e	
16	28.72	28.78	68.2	77.5	80	68	68.2	100	71.0	73	N	10	SW	14	.09	T.	10 s. cu., ne	5 s. cu., sw	
17	28.77	28.86	67.2	60.3	73	53	66.7	97	52.9	61	NW	16	NW	26			10 s. cu., w	0	
18	28.94	28.94	49.0	60.8	69	45	46.4	82	51.7	53	N	15	NW	12			0	0	
19	29.04	29.00	54.2	61.9	69	50	49.7	73	53.8	59	NE	16	E	8			3 s. cu, ne	0	
20	29.05	28.95	52.2	66.0	70	51	47.8	73	55.4	51	E	11	E	8			0	0	
21	29.01	28.94	56.0	69.3	74	54	51.8	76	57.3	47	NE	10	E	10			0	0	
22	28.98	28.90	58.0	71.8	77	57	53.5	75	59.4	48	NE	14	E	8			Few a. s., 0	0	
23	28.87	28.69	61.9	76.1	81	57	54.4	62	60.0	38	N	11	NW	12			0	0	
24	28.70	28.69	62.0	75.1	82	62	53.1	55	64.3	56	NW	15	NW	13			Few a. s., nw	0	
25	28.81	28.80	60.8	71.3	77	59	55.7	73	62.8	62	E	12	SE	12			0	0	
26	28.90	28.83	63.4	75.7	81	62	62.8	97	64.9	56	E	11	S	12			10 s., ne	0	
27	28.88	28.86	68.3	77.0	83	66	59.8	61	65.7	55	W	12	W	9			5 a. cu., w	10 s. cu., w	
28	28.97	28.97	67.7	70.2	78	57	54.0	79	58.9	51	NW	9	E	12	T.		0	3 a. s., n	
29	29.09	29.06	58.0	66.5	73	54	50.5	60	55.5	50	SE	16	E	10			8 ci. s., sw	8 s. cu., w	
30	29.14	29.09	58.1	67.9	75	57	52.9	71	60.0	63	E	11	E	12			10 a. cu., sw	Few a. s., 0 (?)	
Mn	28.90	28.86	64.8	73.8	80.2	61.9	61.1	80.8	63.8	58.8	E	11.4	E	11.4	1.45	1.07	4.3 s. cu., ne., se	2.7 s. cu., se	

OCTOBER, 1903.

1	29.13	29.04	59.4	74.8	80	58	57.2	88	63.8	55	E	10	S	8			7 a. cu., sw	0	
2	29.06	28.94	66.4	79.8	84	65	60.9	73	67.2	52	NW	6	NE	4			0	6 s. cu., ne	
3	28.96	28.90	67.8	77.6	84	67	63.6	80	67.0	58	NE	9	E	12			3 a. s., sw	0	
4	29.00	28.94	65.1	70.1	80	64	61.8	83	65.6	79	E	8	SE	12			3 ci., w	2 a. s., w	
5	28.95	28.88	64.7	74.1	80	62	63.0	91	66.1	66	SE	10	SE	12			6 ci., w	3 a. s., s	
6	28.88	28.78	65.5	71.5	80	65	63.0	87	67.0	80	E	9	SE	20		T.	7 a. s., sw	4 a. cu., sw	
7	28.80	28.69	68.3	74.2	80	65	67.0	94	65.2	62	S	12	S	13	T.		10 s. cu., s	3 ci. s., ne	
8	28.71	28.73	56.4	60.7	71	56	54.1	86	49.9	46	NW	22	NW	19	0.30		1 a. cu., sw	0	
9	28.74	28.71	51.8	59.2	64	51	47.7	74	48.9	46	NW	18	NW	22			0	0	
10	28.66	28.64	48.1	57.1	66	48	43.3	68	46.4	43	NW	24	N	18			0	0	
11	28.69	28.71	45.0	63.9	69	45	40.6	69	52.1	44	NW	12	N	12			0	0	
12	28.83	28.84	53.5	69.0	74	50	48.8	72	57.7	50	E	12	S	1			0	2 ci. s., sw	
13	28.90	28.83	62.4	72.9	78	62	54.9	62	60.4	48	SW	8	S	7			1 a. cu., w	0	
14	28.82	28.72	66.1	72.9	79	64	58.8	65	63.4	60	W	9	S	11			1 s. cu., w	0	
15	28.76	28.74	63.4	68.9	80	63	59.4	79	58.2	52	N	6	S	12			7 ci., sw	0	
16	28.79	28.72	61.5	65.2	70	61	61.0	97	64.7	97	E	4	SE	12		0.10	10 s., e	10 n., se	
17	28.58	28.67	62.4	60.0	64	51	62.4	100	54.9	73	N	6	NW	16	.28	.23	10 n., 0 (?)	0	
18	28.90	28.90	42.2	52.2	60	42	39.8	82	45.4	59	NW	18	NW	12			0	0	
19	28.95	28.88	47.4	61.1	67	43	43.0	70	50.8	48	E	12	S	6			0	0	
20	28.91	28.84	53.0	69.2	73	52	46.8	63	53.4	33	NW	8	NW	7			0	0	
21	28.85	28.87	54.7	71.2	80	54	48.6	64	58.0	44	NW	15	E	6			5 ci., w	Few a. s., 0	
22	28.95	28.86	57.8	68.4	74	56	53.3	75	58.4	55	E	12	S	7			7 a. s., w	2 a. s., 0 (?)	
23	28.78	28.76	56.1	51.2	65	46	54.0	87	41.8	44	NW	12	NW	21			8 a. cu., sw	0	
24	28.81	28.84	39.4	43.2	50	38	33.9	56	36.0	48	N	20	N	16			Few a. s., w	0	
25	28.90	28.91	31.7	52.8	60	31	29.1	73	41.0	32	NW	10	NW	15			0	Few ci. s., nw	
26	28.97	29.01	49.3	58.4	68	46	40.5	44	45.7	35	NW	14	NW	16			0	0	
27	29.16	29.10	43.5	54.7	60	43	37.0	53	43.2	36	E	9	SE	8			4 ci., w	0	
28	29.11	29.04	44.8	58.0	66	44	38.6	57	46.0	38	E	11	SE	12			0	0	
29	29.06	28.98	50.3	58.8	65	49	42.5	52	46.0	35	E	6	SE	12			5 ci. s., w	8 a. s., sw	
30	28.98	28.95	51.6	59.0	63	51	45.2	61	53.2	69	E	8	SE	12		.01	7 a. s., sw	8 s. cu., sw	
31	28.96	28.96	56.4	64.0	74	55	54.9	91	61.2	86	E	12	E	11	.02		9 s. cu., s	2 ci. s., sw	
Mn	28.89	28.85	55.0	64.3	71.2	53.1	50.8	74.1	54.8	54.0	E	11.4	SE S NW	12.1	.60	.34	3.5 a. s., ci., w.	1.6 a. s., sw	

ATLANTA, GA.

[φ=33° 45′ N; λ=84° 23′ W; barometer above sea, 1,174 feet; gravity correction applied, −.03.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.01	28.90	60.6	66.8	72	59	59.6	94	63.2	82	SE	10	SE	24	T.	0.01	10 s., se	10 n., se	
2	28.91	28.94	62.9	62.1	74	61	62.9	100	61.2	95	SE	12	SE	10	0.16	.20	10 n., se	10 a. s., sw	≡a.
3	28.95	28.92	62.1	61.8	63	61	62.1	100	60.3	92	E	6	NE	6	....	1.54	D, fog, ne	10 s. cu., 0 (?)	
4	28.84	28.73	60.2	61.6	65	60	60.1	99	58.9	86	SE	6	NW	6	.12	T.	10 s., e	Few s. cu., nw	
5	28.68	28.62	57.0	56.4	69	54	55.9	93	54.0	86	NW	11	N	3	....	.04	2 a. s., w	2 ci. s., w	
6	28.68	28.83	50.9	45.1	54	42	49.0	88	38.0	51	NW	16	NW	15	....	....	0	0	
7	29.07	29.04	36.2	44.8	50	35	31.7	61	39.2	60	NE	12	SE	7	....	....	3 ci., s	0	
8	29.06	29.04	36.8	48.0	54	33	33.3	70	39.5	45	E	13	E	11	....	....	Few a. s., 0	5 ci. s., sw	
9	29.04	28.91	41.7	53.7	61	38	40.0	87	48.2	67	E	6	SE	12	....	....	10 s., e	0	
10	28.85	28.78	47.0	62.1	66	44	45.0	86	52.5	52	NW	8	SW	6	....	....	0	0	
11	28.74	28.62	54.1	57.2	62	53	46.6	57	57.2	100	SW	13	S	19	....	.05	10 a. s., sw	10 s., s	≡p.
12	28.70	28.71	41.8	62.9	67	40	38.9	78	56.9	70	NW	10	SW	14	.23	....	5 ci., nw	0	
13	28.82	28.81	57.0	62.2	66	52	53.1	78	60.8	92	S	9	SE	2	....	....	6 ci., w	0	
14	28.88	28.93	63.0	61.3	73	56	63.0	100	54.2	63	W	14	NW	16	....	.01	10 s., w	0	
15	29.01	28.93	54.1	60.7	64	53	48.0	64	53.4	63	E	15	SE	14	....	....	10 s. cu., e	10 s., se	
16	28.88	28.75	60.2	66.4	71	58	60.2	100	61.2	75	S	7	S	12	T.	T.	10 n., s. (?)	9 a. s., w	≡a.
17	28.70	28.80	64.6	43.3	69	38	62.1	87	40.4	79	SW	18	NW	34	....	.37	10 s. cu., sw	10 s., nw	
18	29.00	29.11	29.0	28.4	38	25	26.5	72	23.3	43	NW	32	NW	24	....	....	0	0	
19	29.20	29.19	19.2	32.6	34	18	16.8	63	27.5	50	N	10	NW	8	....	....	0	0	⊕
20	29.28	29.28	26.7	37.1	41	26	24.2	70	30.8	47	E	12	E	9	....	....	5 ci., nw	5 a. s., nw	⊕
21	29.22	29.12	30.5	34.1	37	30	29.7	91	32.6	86	E	14	NE	11	.11	.05	10 s. cu., sw	10 n., ne	△
22	29.04	28.94	38.0	51.5	55	37	33.1	58	44.5	58	E	4	0	0	T.	....	9 ci., w	0	
23	28.89	28.79	43.0	54.3	60	41	40.2	79	45.7	51	W	11	NW	14	....	....	3 ci., w	0	
24	28.84	28.80	41.9	51.1	58	41	39.4	81	42.1	45	NW	14	NW	12	....	....	5 ci., nw	0	≡a.
25	28.77	28.75	42.2	39.2	45	36	37.0	61	38.2	92	N	6	NW	8	....	.19	10 s., nw	10 s., nw	
26	28.85	28.90	30.4	29.4	37	25	25.9	52	24.2	44	N	16	N	26	....	....	Few a. s., 0	0	
27	29.01	28.89	19.0	30.1	34	18	16.2	57	24.0	86	NW	13	NW	14	....	....	1 ci. s., nw	0	
28	28.77	28.41	26.3	43.2	44	26	22.1	50	36.0	48	SW	12	SW	15	....	....	8 a. cu., w	10 a. s., sw	
29	28.54	28.67	32.2	37.8	41	32	29.6	73	33.3	63	NW	24	NW	15	....	....	6 a. cu., w	5 a. cu., nw	
30	28.78	28.83	31.8	32.3	38	29	28.3	65	28.0	57	NW	12	N	10	....	....	1 s. cu., nw	0	
Mn	28.90	28.86	44.0	49.2	55.4	40.7	41.4	77.1	44.3	65.9	NW	12.2	NW	12.6	.62	2.46	5.5 ci., w	3.9 s., a. s., nw	

DECEMBER, 1903.

1	28.90	28.84	26.2	33.2	35	26	24.0	72	31.0	79	E	10	E	5	....	T.	10 s., e	10 n., s	*
2	28.81	28.77	31.2	34.8	42	30	30.3	90	32.3	77	NE	6	NW	12	T.	....	10 s. cu., ne	0	
3	28.83	28.85	28.1	43.0	46	25	26.6	82	34.8	41	N	2	NW	9	....	....	1 a. s., w	0	
4	28.91	28.92	36.2	51.9	54	35	31.4	58	43.4	49	NW	14	N	4	....	....	1 ci., sw	10 s. cu., nw	
5	28.96	28.96	43.3	48.0	47	35	39.9	75	36.6	88	NW	7	NW	14	....	0.22	10 a. s., w	10 s. cu., nw	
6	28.99	29.00	27.2	33.2	39	27	24.2	65	28.8	57	NW	18	NW	20	....	....	1 a. s., nw	0	
7	28.99	28.86	25.1	46.1	49	25	23.5	80	36.1	34	NW	12	W	10	....	....	0	0	
8	28.81	28.65	35.3	44.3	47	35	29.8	51	38.8	61	NW	13	NW	4	....	....	9 ci., w	10 s. cu., w	
9	28.49	28.53	32.0	35.0	37	32	32.0	100	33.7	88	NW	12	W	12	0.20	.02	10 n., nw	0	*
10	28.69	28.77	33.4	34.9	40	32	32.2	88	29.0	47	W	13	NW	13	T.	T.	10 n., w	0	*
11	28.90	28.98	29.9	46.7	50	30	24.5	43	38.0	42	W	18	S	12	....	....	2 a. cu., w	0	
12	28.98	28.75	36.8	49.2	50	37	33.0	67	43.8	65	SE	17	SE	24	....	....	6 a. s., w	10 s. cu., s	
13	28.95	29.07	39.2	39.4	53	35	35.6	71	33.9	56	NW	24	NW	12	.30	....	8 s. cu., nw	0	
14	29.12	29.06	36.1	48.2	52	30	31.1	56	40.2	48	E	14	SE	2	....	....	3 ci., w	7 a. s., sw	
15	29.06	29.03	30.8	35.9	45	30	27.1	61	28.6	36	NW	16	NW	19	....	....	4 ci., w	0	
16	28.97	28.84	29.3	45.0	51	28	24.4	47	35.7	37	NE	10	NW	12	....	....	0	0	
17	28.89	28.95	33.3	40.7	50	33	28.9	58	35.0	56	NW	18	NW	16	....	....	0	0	
18	29.03	29.04	30.5	44.0	50	30	27.5	68	39.4	67	E	11	SE	16	....	....	0	0	
19	29.10	28.87	34.9	34.4	38	34	31.0	65	33.0	87	SE	15	SE	18	....	.02	10 a. s., w	10 s. cu., se	
20	28.55	28.85	47.0	35.0	49	32	47.0	100	33.0	82	SW	26	NW	16	.44	T.	10 s. cu., sw	0	
21	28.92	28.82	29.8	42.9	48	30	27.3	73	35.3	45	W	18	SW	16	....	....	8 ci., w	0	
22	28.92	29.03	37.0	46.7	53	36	33.0	66	38.0	42	NW	14	NW	12	....	....	Few a. s., w	0	
23	29.11	29.05	40.2	46.2	50	37	32.4	40	38.3	47	NE	10	SE	14	....	....	8 a. s., w	2 ci. s., w	
24	28.96	28.80	40.8	57.8	62	41	34.8	54	54.8	83	SE	17	S	8	....	....	9 s. cu., s	10 s. cu., sw.	
25	28.57	28.54	51.0	45.2	58	43	57.0	100	42.0	77	SW	14	NW	20	.31	.15	D, fog, sw	4 a. s., sw	
26	28.69	28.94	20.6	22.0	43	19	18.5	69	18.7	55	NW	26	NW	18	....	....	Few s. cu., nw.	0	
27	28.92	28.84	16.4	38.6	44	16	14.2	63	32.5	51	NW	12	W	16	....	....	0	0	
28	28.95	28.93	32.6	46.0	50	33	29.2	67	38.1	47	NW	15	SW	12	....	....	Few ci. cu., w.	0	
29	28.91	28.94	37.8	41.3	50	33	33.3	63	33.9	44	W	18	NW	17	....	....	Few a. s., w	0	
30	29.03	29.01	34.0	41.9	45	33	28.9	52	32.9	34	NW	20	W	16	....	....	Few a. s., w	0	
31	28.98	28.91	38.2	53.5	59	36	32.7	55	42.6	38	W	16	W	16	....	....	0	0	
Mn	28.90	28.88	33.9	41.8	47.9	31.7	30.5	67.7	35.9	56.7	NW	14.7	NW	13.4	1.25	.41	4.0 a. s., w	2.7 s. cu., sw	

BUFFALO, N. Y.

[φ=42° 53′ N; λ=78° 53′ W; barometer above sea, 767 feet; gravity correction applied, —.01.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.37	29.40	30.8	36.0	37	30	27.3	63	31.5	61	SW	20	SW	18	.....	.....	0	0	
2	29.38	28.96	32.0	37.0	40	31	29.4	73	36.0	91	S	8	E	12	.....	0.22	10 a. s., w	10 n., e	⊕
3	28.60	28.79	41.2	35.0	42	34	40.5	94	34.0	91	SW	19	W	24	0.20	.12	10 n., sw	8 s., w	≡a
4	28.90	28.88	33.0	32.0	34	30	32.0	90	30.4	84	W	6	W	8	.01	.10	10 n., w	8 a. s., w	*
5	28.93	28.92	30.2	30.5	32	25	29.2	89	30.0	95	W	2	W	12	.02	.18	10 n., w	10 n., w	*
6	28.89	28.79	22.2	21.5	28	22	20.9	82	20.0	78	W	7	W	14	.06	T.	9 s., w	8 s. cu., w	*
7	28.48	28.35	24.0	33.4	34	23	22.3	78	31.2	79	E	11	W	30	.06	.14	10 s., e	10 n., w	*
8	28.62	28.79	19.0	10.0	30	9	18.4	91	8.8	74	N	14	NW	18	.30	.02	10 s., n	5 a. s., nw	*
9	28.78	28.85	11.2	16.6	18	8	9.8	71	14.6	67	W	34	W	36	T.	.01	4 s. cu., w	10 a. s., w	*
10	29.09	29.25	11.5	12.0	18	11	9.5	60	11.0	80	W	28	W	8	....	.10	10 s., w	10 n., w	*
11	28.94	28.54	18.2	23.5	31	11	17.0	81	22.2	83	S	6	W	30	.02	.46	10 s., s	10 n., w	*
12	28.93	29.18	17.2	12.6	22	10	16.0	80	11.2	73	W	44	W	34	.38	.08	10 n., w	10 n., w	*
13	29.33	29.44	11.0	14.0	14	10	10.2	83	13.0	82	W	15	SW	9	.12	.24	10 n., w	10 n., sw	*
14	29.40	29.17	15.4	27.0	27	13	14.0	75	25.5	82	SW	10	W	30	.05	.02	10 s., sw	10 n., w	*
15	29.01	29.06	28.2	31.0	32	23	26.7	82	30.0	89	SW	41	W	12	.02	.02	10 n., sw	10 s., w	*
16	29.13	28.90	31.5	38.0	38	31	30.0	84	35.5	78	W	12	SW	24	.02	.....	10 s., w	10 s., sw	*
17	28.80	28.90	33.0	25.8	38	19	32.0	90	22.8	64	W	36	W	22	.01	.01	10 s., w	10 s. cu., w	*
18	29.11	29.46	14.0	9.0	19	8	12.5	72	7.8	73	W	26	W	15	.01	.02	10 s. cu., w	3 s. cu., w	*
19	29.61	29.53	12.6	11.5	16	8	11.0	65	10.5	80	SW	3	E	12	.02	T.	10 n., sw	0	*
20	29.41	29.24	19.8	33.7	35	15	18.0	78	30.2	67	S	7	S	10	.....	.....	0	8 s. cu., s	*
21	29.00	28.99	33.0	32.8	35	30	31.5	85	32.0	92	NW	6	W	15	.40	.15	10 n., nw	10 n., w	*
22	29.10	29.08	26.5	27.8	30	26	25.0	82	24.8	66	W	20	SW	20	.01	T.	10 s., w	0	*⊕
23	29.30	29.54	23.5	14.6	30	9	21.5	74	12.8	68	NW	20	N	10	.02	.01	10 n., nw	0	*
24	29.50	29.27	8.0	17.0	18	2	7.0	77	16.0	84	E	12	E	18	....	.03	10 ci. s., w	10 n., e	*
25	29.24	29.33	18.0	26.6	27	18	16.2	72	24.6	76	E	7	SW	5	.08	.02	10 a. s., w	10 n., sw	*
26	29.44	29.27	29.2	41.8	42	25	27.4	80	36.8	62	S	6	S	16	T.	.....	10 s., s	0	
27	29.27	29.20	41.2	47.0	50	39	37.2	69	42.0	66	SW	18	SE	5	.....	.....	4 s. cu., sw	10 s., se	≡a.
28	29.13	29.13	37.8	44.0	46	36	36.8	91	42.5	89	SW	14	S	7	.06	.01	10 n., sw	D, fog, s	⊓⊿
29	28.86	28.50	46.5	52.5	52	40	44.0	82	49.0	78	SE	16	SW	24	.01	.09	6 a. s., sw	10 n., sw	*
30	28.65	28.98	29.0	20.0	40	19	28.0	89	18.0	70	W	52	W	48	.23	.04	10 n., w	10 s., w	*
31	29.25	29.22	18.0	30.0	34	17	16.4	75	27.0	68	W	30	SW	8	.02	.01	10 n., w	0	
Mn	29.08	29.06	24.7	27.2	31.9	20.4	23.2	79.1	25.2	77.1	W	17.7	W	17.9	2.13	2.10	8.8 n., w	7.0 n., w	

FEBRUARY, 1903.

1	29.06	29.02	38.5	39.0	40	34	33.5	60	37.5	88	S	11	SW	15	....	0.01	10 s., s	10 s., sw	≡a
2	29.02	29.01	40.5	38.7	50	35	40.0	96	36.7	84	SE	8	W	46	0.01	T.	10 n., se	10 s. cu., w	
3	29.22	29.00	32.2	34.5	38	32	30.2	79	33.0	86	SW	5	NE	18	T.	.01	10 s., sw	10 n., ne	△
4	28.38	28.45	36.2	28.0	50	27	35.7	95	27.5	94	E	9	SW	48	.40	.10	10 s., e	10 n., sw	≡a.*
5	28.83	29.22	20.2	26.8	28	19	18.8	79	24.3	70	W	26	W	24	.04	.02	10 n., w	0	*
6	29.37	29.40	25.1	27.2	28	24	23.1	75	26.0	86	W	24	W	22	....	T.	3 s. cu., w	10 s., w	*
7	29.51	29.36	21.4	25.5	29	21	19.8	76	23.0	69	NE	10	E	13	.....	.....	2 s., ne	0	
8	28.72	28.88	32.8	26.5	37	25	31.0	82	25.0	82	SE	12	W	36	.26	.04	10 n., se	10 s., w	*△
8	29.22	29.38	23.8	29.5	31	24	22.3	81	28.0	84	W	26	W	18	T.	.01	10 n., w	10 n., w	*
10	29.35	29.21	31.3	42.5	43	28	28.3	69	36.0	52	SW	28	S	16	T.	.....	0	0	*
11	28.88	28.53	45.6	35.0	46	34	37.8	47	34.5	95	S	14	SW	36	....	.24	10 s., s	10 n., sw	
12	29.03	29.10	34.0	36.5	38	34	33.0	90	36.0	95	SW	24	SW	17	.06	.01	10 s., sw	10 n., sw	*
13	29.24	29.42	32.0	28.7	34	25	31.0	90	26.7	78	SW	8	W	12	.17	.01	10 s., sw	0	*
14	29.60	29.54	20.0	22.0	25	18	18.5	78	20.0	72	NE	13	NE	14	T.	.01	10 n., ne	0	*
15	29.29	29.03	21.3	21.8	25	20	19.8	78	20.8	86	E	11	NE	22	.01	.16	10 n., e	10 n., ne	*
16	28.98	28.77	19.5	11.5	22	11	18.5	85	11.0	90	N	7	N	12	.20	.12	10 n., n	10 n., n	*
17	28.74	28.96	3.0	6.5	13	— 1	2.2	77	6.0	88	NW	20	SW	24	.14	.02	10 n., nw	10 n., sw	*
18	28.94	29.28	— 0.2	2.0	10	— 2	— 0.8	80	0.4	53	SW	26	W	36	.02	.06	10 s., sw	0	*
19	29.61	29.57	2.8	9.8	12	— 3	1.6	66	9.2	87	W	20	SW	16	.01	.01	0	0	*
20	29.35	29.52	8.6	18.0	20	7	8.0	86	16.5	76	SW	12	SW	12	T.	.01	10 n., sw	0	*
21	29.21	29.34	23.5	24.0	30	17	21.0	67	22.0	74	SW	15	SW	24	.06	.02	10 n., sw	10 s., sw	*
22	29.53	29.52	18.0	21.2	23	18	16.4	75	19.2	71	W	18	SW	22	....	T.	10 s., w	0	*
23	29.37	29.43	26.5	32.0	35	22	24.0	70	30.5	85	SW	20	W	24	.....	.02	10 s., sw	10 n., w	*
24	29.51	29.43	24.5	25.0	31	20	22.3	72	23.0	75	N	9	W	14	.02	.....	10 s., n	0	
25	29.58	29.57	21.0	26.0	31	20	18.8	68	24.6	83	W	12	SW	26	.....	.....	0	0	
26	29.61	29.53	26.0	34.0	36	22	24.4	81	31.0	72	SW	24	SW	16	.....	.....	0	0	
27	29.31	28.97	36.6	48.3	53	35	31.6	57	45.3	80	SE	16	S	16	.....	T.	10 ci. s., w	10 s., s	
28	28.42	28.72	54.8	36.0	55	32	53.3	91	34.5	87	SW	24	W	47	.45	.18	10 n., sw	10 s., w	
Mn	29.18	29.18	25.7	27.0	32.6	21.4	23.7	76.8	25.3	80.1	SW	16.1	SW	23.1	1.84	1.06	8.0 s.; n., sw.	5.7 n., sw., w	

BUFFALO, N. Y.

[$\varphi = 42° 53'$ N; $\lambda = 78° 53'$ W; barometer above sea, 767 feet; gravity correction applied $-.01$.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.24	29.38	19.4	22.8	32	19	17.0	64	20.8	73	W	26	W	24	0.03	0.02	10 s.,cu., w	6 s. cu., w	✱
2	29.45	29.58	25.5	32.8	33	23	23.5	75	31.3	85	SW	30	SW	6	T.	.....	10 s., sw	4 s. cu., sw	✱
3	29.64	29.53	32.0	40.6	43	30	29.0	69	36.0	64	SW	14	SW	8	.....	.....	0	0	
4	29.56	29.48	33.4	39.5	40	33	32.4	90	37.0	80	SW	13	SW	4	.....	.....	10 s., sw	10 a. cu., w	
5	29.23	29.34	36.5	35.2	41	33	37.7	93	34.5	93	SE	9	W	6	.21	.05	10 n., se.	10 s., w	☰☾a.☰☽p.
6	29.56	29.49	33.3	38.0	44	32	31.3	80	35.5	79	NE	6	E	22	T.	.....	0	0	
7	29.33	29.09	48.0	50.2	55	38	43.5	70	48.2	87	S	12	S	36	.....	.04	10 s., s	10 s. cu., s	
8	29.28	29.45	47.8	38.3	48	38	47.0	94	37.0	89	NW	6	NE	15	.01	.49	10 n., nw	10 s., ne	☰☾a.
9	29.59	29.56	35.2	42.7	44	35	34.0	89	41.2	88	E	16	E	15	.....	.....	10 s., e	10 s., e	
10	29.51	29.27	46.3	49.0	54	41	44.8	89	48.0	93	SE	6	E	10	T.	.25	10 s., se	10 n., e	
11	29.49	29.58	36.2	36.8	50	36	35.5	93	35.8	91	W	3	SW	8	.25	.....	D. fog, 0	10 s., sw	
12	29.56	29.46	35.8	37.0	40	35	35.0	93	36.0	91	SW	8	SW	8	.....	T.	10 s., sw	10 s., sw	☰☾✱
13	29.45	29.38	35.0	40.8	42	34	34.0	91	38.8	84	SW	6	S	4	T.	T.	10 n., sw	0	☰☾a.┘
14	29.41	29.42	44.5	43.5	54	39	42.5	86	42.0	88	SW	8	NE	15	.....	.....	10 a. s., w	8 s., ne	┘☾
15	29.50	29.45	35.0	36.5	52	35	34.0	91	34.7	84	NE	18	E	20	.....	.....	10 s., ne	0	☰☾a.
16	29.37	29.28	47.0	51.0	56	37	45.2	87	48.0	81	S	6	S	12	T.	.10	10 n., s	10 n., s	
17	29.25	29.36	46.5	50.0	50	39	46.0	96	49.0	93	SW	8	SW	8	.32	.01	D. fog, 0	D. fog, sw	
18	29.43	29.36	49.5	66.0	68	46	49.0	96	61.5	78	E	4	SW	6	.01	.....	10 s. cu., w	0	☰☾a.⊕
19	29.38	29.28	59.0	66.5	69	58	55.0	78	61.0	73	SW	24	SW	8	.....	.....	10 a. s., w	0	
20	29.21	29.03	61.3	53.0	74	48	57.8	81	52.0	94	SW	20	W	30	.....	.08	10 s. cu., sw	10 n., w	☰☽p.
21	29.17	29.24	38.0	34.0	48	32	37.5	96	33.0	90	W	18	SW	15	.34	.01	10 s., w	10 s., sw	☰☾a.✱
22	29.37	29.30	35.0	44.0	48	32	32.0	73	41.0	78	SW	4	E	12	.....	.....	8 ci. s., sw	10 s., e	┘☾
23	29.04	29.03	41.6	44.0	49	40	41.0	95	43.0	93	E	18	SW	10	.61	.10	10 n., e	10 s., sw	
24	29.19	29.13	34.0	35.0	49	33	33.0	90	32.5	77	SW	18	SW	26	.....	.....	10 s., sw	10 s., sw	✱
25	29.13	29.28	33.0	36.0	36	32	31.5	85	33.7	80	W	28	W	23	.01	.01	10 n., w	10 s., w	✱
26	29.36	29.24	32.5	38.2	44	31	30.5	80	35.2	75	SW	12	SW	20	.....	.....	0	Few s. cu., sw	
27	29.17	29.26	39.0	38.0	44	35	38.0	92	37.0	91	W	24	N	4	T.	.29	10 n., w	10 n., n	☰☽p.
28	29.30	29.50	31.6	35.0	38	31	30.1	85	33.0	82	N	7	N	18	.05	.....	10 s., n	0	
29	29.72	29.55	30.0	36.3	42	29	28.4	83	34.8	87	E	12	NE	15	.....	.....	0	2 ci. s., w	
30	29.31	29.01	38.2	42.0	48	34	35.0	74	40.0	85	SE	6	SE	10	.....	.02	10 a. s., nw	10 n., se	┘
31	28.92	29.01	35.4	44.8	45	34	34.9	95	40.3	68	SW	12	W	12	.01	.....	8 s. cu., sw	0	
Mn	29.36	29.33	38.6	41.9	47.7	35.2	37.0	85.6	39.7	83.7	SW	13.0	SW	13.7	1.85	1.47	7.9 s., sw	6.1 s., sw	

APRIL, 1903.

1	29.20	29.11	34.0	48.0	50	33	32.7	88	44.0	73	SW	4	E	8	.....	.....	5 ci. s., nw	10 a. s., s. w	┘
2	28.97	28.63	58.0	59.0	64	49	53.0	72	52.0	63	S	24	S	30	.....	0.10	10 a. s., sw	10 s., s	
3	28.64	28.62	45.0	35.0	61	30	44.5	96	34.5	95	N	18	NE	24	0.34	1.43	10 n., n	10 n., ne	☰☽┌♃
4	29.05	29.36	22.5	24.0	30	22	21.0	80	21.0	61	N	21	NW	18	.26	.02	10 n., n	0	✱
5	29.57	29.50	25.0	34.2	36	21	22.0	63	31.0	70	N	4	NE	6	.....	.....	0	0	┘'
6	29.36	29.08	40.0	55.0	56	30	36.8	74	46.0	49	SE	6	S	10	.....	.....	10 ci. s., w	10 s., s	
7	28.97	29.01	48.2	40.5	52	40	47.2	93	37.5	76	SW	20	SW	15	.27	.05	10 n., sw	3 ci. s., sw	☰☾a.☥
8	28.97	29.06	52.0	44.5	54	41	43.2	47	42.5	86	S	12	SW	7	.....	.05	10 s., s	6 a. s., sw	
9	29.03	29.10	45.5	43.0	56	38	42.7	80	41.5	88	S	13	N	8	.01	T.	10 s., s	0	
10	29.34	29.37	37.8	40.5	44	34	36.8	91	39.0	88	W	8	SW	6	.....	.....	10 s., w	0	∞☽p.
11	29.35	29.16	39.2	43.5	48	36	36.9	82	42.0	88	E	14	E	15	.....	.01	10 a. s., sc	10 n., e	
12	29.04	29.00	44.5	48.0	56	40	43.0	89	41.5	57	E	14	E	18	.10	T.	10 n., e	4 a. s., sw	
13	28.92	28.83	45.0	51.0	54	43	41.3	73	46.0	69	E	12	E	15	.....	.02	10 s., e	10 n., e	
14	28.78	28.81	41.5	44.8	46	42	40.3	90	42.8	86	E	18	E	20	.96	.34	10 n., e	10 n., e	
15	28.84	28.87	42.5	42.5	46	40	41.0	88	41.0	88	NE	18	NE	18	.25	.16	10 s., ne	10 n., ne	
16	28.95	29.00	41.0	48.0	50	40	40.0	92	45.0	80	NE	12	N	8	.03	.01	10 n., ne	0	☰☾a.
17	29.18	29.09	36.0	37.0	48	36	34.0	82	36.0	83	N	20	W	9	.....	.....	0	0	┘┘
18	29.01	28.99	41.0	41.0	47	36	39.0	84	39.2	86	NW	7	SW	1	.....	.....	6 ci. s., w	0	┘┘☾
19	29.05	28.98	38.0	45.7	53	36	36.4	86	43.7	86	SW	4	W	6	.....	.....	0	2 ci. s., w	┘
20	29.02	29.01	40.0	42.0	49	38	37.0	76	37.0	62	N	6	NW	9	.....	.....	0	0	
21	29.08	29.07	36.2	33.5	42	33	33.2	73	33.0	95	NW	12	N	8	.....	T.	0	10 n., n	✱
22	29.06	29.12	37.0	40.0	42	33	34.0	74	37.5	80	NE	4	N	8	.01	T.	10 n., ne	10 s., n	✱
23	29.16	29.19	37.8	40.5	45	37	35.8	83	38.0	80	SW	8	SW	10	.....	.....	10 s., sw	0	
24	29.23	29.16	42.0	48.0	52	38	39.4	80	44.0	73	SW	11	NE	10	.....	.....	4 a. s., w	6 a. s., sw	
25	29.24	29.26	40.0	46.5	52	40	37.0	76	39.5	54	NE	20	E	7	.01	.....	0	0	
26	29.26	29.22	43.8	52.5	58	36	37.0	52	42.8	41	E	7	SE	4	.....	.....	0	0	┘
27	29.43	29.43	44.0	45.8	54	40	40.0	71	42.8	79	SW	7	SW	11	.....	.....	0	0	
28	29.48	29.34	53.3	61.0	62	48	46.2	58	51.5	52	SW	16	SW	20	.....	.....	0	2 a. s., nw	
29	29.36	29.19	54.0	63.0	68	50	48.8	69	56.5	67	SW	8	SW	24	.....	.....	8 s. cu., w	1 a. s., w	
30	29.04	28.98	68.5	49.0	72	34	56.0	45	48.0	93	SW	32	SW	34	.....	.05	0	10 n., sw	
Mn	29.12	29.08	42.4	44.9	51.6	37.1	39.2	76.9	41.2	74.9	SW	12.7	SW	12.8	2.24	2.24	6.1 n., w	4.5 n., sw	

BUFFALO, N. Y.

[φ=42° 53′ N; λ=78° 53′ W; barometer above sea, 767 feet; gravity correction applied −.01.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.50	29.60	31.8	38.0	40	31	30.3	85	35.0	75	NW	22	W	8	0.01	.....	7 s. cu., nw	0	
2	29.54	29.22	37.0	59.5	64	30	33.0	66	49.0	46	SE	10	S	16	.....	.....	0	0	
3	29.12	29.17	54.5	44.0	64	42	47.5	60	42.5	89	S	16	SW	36	.....	0.38	10 s. cu., s	10 s., sw	
4	29.43	29.40	41.5	49.5	50	41	40.0	86	45.5	74	W	6	NE	10	.....	.....	4 s. cu., w	0	
5	29.44	29.34	47.0	55.5	62	40	43.0	73	51.0	74	E	8	NE	10	.....	.....	0	Few a. s., 0	
6	29.34	29.21	52.2	62.0	68	46	48.2	75	55.0	64	W	4	E	9	.....	.....	10 ci. s., w	8 ci. s., w	
7	29.30	29.36	46.3	48.5	55	46	43.8	82	46.0	83	NW	20	W	10	.02	.....	8 s. cu., nw	10 s., ne	
8	29.42	29.30	51.0	62.0	69	43	47.0	75	55.0	64	SE	5	NE	12	.....	.....	0	0	
9	29.36	29.24	63.0	69.2	80	54	60.0	84	61.2	64	S	4	NE	5	.....	.....	0	0	
10	29.37	29.29	62.0	71.6	76	59	56.0	69	57.1	40	SW	7	S	6	.....	.....	10 ci. s., w	0	Lt. smoke, p.
11	29.41	29.34	64.0	68.0	78	60	53.0	48	56.0	47	S	12	NE	14	.....	.....	0	0	
12	29.44	29.38	62.5	70.5	78	59	54.5	60	61.0	58	S	6	NE	9	.....	.....	0	0	
13	29.40	29.25	61.0	67.5	73	59	56.0	74	60.0	65	SW	7	SW	4	.....	.....	Lt. smoke	0	
14	29.20	29.14	61.5	59.0	68	54	56.0	72	54.5	75	SW	4	E	8	.....	.02	10 ci. s., w	2 ci., w	
15	29.21	29.21	56.4	67.5	71	50	53.9	85	57.5	54	NE	4	E	6	.....	.....	0	0	
16	29.33	29.27	63.0	69.2	81	54	54.0	56	59.2	55	E	12	E	13	.....	.....	0	0	
17	29.36	29.26	65.0	72.2	79	59	59.0	70	61.7	55	SW	6	SW	7	.....	.....	0	0	
18	29.28	29.19	70.5	72.0	74	66	62.0	62	65.5	71	SW	7	SW	10	.....	.....	10 s. cu., w	10 a. s., w	
19	29.18	29.09	69.3	73.0	75	65	60.3	59	65.0	65	SW	6	SW	10	.....	.....	7 a. s., n	2 a. s., sw	
20	29.18	29.20	63.8	63.0	74	62	61.0	86	60.0	84	W	14	SW	12	T.	.....	0	2 ci., w	⊕
21	29.22	29.11	67.0	64.5	75	62	60.0	67	63.0	92	SW	8	SW	10	.....	.....	3 a. s., nw	8 a. s., w	
22	29.14	29.17	66.8	68.0	73	62	60.8	71	58.5	57	NE	7	NE	6	.....	.....	8 a. cu., nw	10 s. cu., nw	
23	29.31	29.21	56.0	57.5	65	55	49.5	63	49.5	56	NE	16	E	18	.....	.....	6 a. s., nw	10 a. s., w	
24	29.25	29.31	56.0	54.5	65	52	47.0	50	48.5	65	E	15	E	14	T.	.....	6 a. cu., w	4 ci. s., w	
25	29.39	29.28	57.2	65.0	74	51	50.2	61	56.0	57	E	7	E	15	.....	.....	0	1 ci., w	
26	29.28	29.17	61.0	68.5	79	60	57.0	79	64.5	81	S	16	S	16	.02	.04	10 n., sw	10 s., sw	⊠
27	29.12	28.97	68.0	77.0	81	60	63.0	76	70.5	73	S	27	S	20	1.05	.....	5 a. s., w	2 cu. n., sw	⊠
28	29.09	29.29	62.5	59.5	65	55	59.0	82	55.0	76	SW	28	NW	6	.15	T.	8 s. cu., sw	0	
29	29.42	29.32	46.5	55.0	60	45	44.0	82	49.5	68	NE	13	NE	14	T.	.....	10 s. cu., w	Few s., ne	
30	29.40	29.36	48.0	53.0	54	45	42.5	63	44.5	50	E	14	E	7	.....	.....	3 a. s., w	3 a. s., w	
31	29.46	29.46	48.0	57.0	59	48	44.0	73	52.2	73	E	21	E	15	.....	.....	8 ci. s., w	2 ci. s., w	
Mn	29.32	29.26	56.8	62.0	68.7	52.1	51.5	70.8	55.1	66.1	SW	11.4	E	11.5	1.25	.44	4.6 s. cu., w	3.0 a. s., w	

JUNE, 1903.

1	29.48	29.43	59.0	64.0	72	49	52.0	63	55.5	58	E	6	E	16	.....	.....	0	10 ci. s., nw	☋
2	29.49	29.43	63.2	68.5	75	53	52.2	47	56.0	45	E	8	E	7	.....	.....	0	0	
3	29.45	29.32	59.1	64.0	69	53	52.6	65	57.0	66	SW	7	W	10	.....	.....	0	0	
4	29.42	29.43	62.0	67.0	76	54	54.5	62	55.5	48	E	16	E	12	.....	.....	0	Few ci. s., 0	
5	29.45	29.40	63.0	73.5	82	56	52.0	47	63.0	56	E	12	NW	5	.....	.....	0	10 s. cu., s	Lt. smoke, p.
6	29.42	29.25	66.5	74.3	82	66	59.0	64	64.3	58	SE	2	SE	7	.....	.....	6 a. s., w	3 a. s., w	Lt. smoke.
7	29.17	29.02	70.0	66.2	72	62	64.0	72	65.0	94	SW	2	0	0	.....	1.04	7 a. s., w	10 s., ne	
8	29.00	29.02	60.9	62.0	66	60	59.5	97	61.0	94	SW	6	SW	8	0.07	.04	10 n., sw	Few ci., w	≡a. Lt.sm'ke p.
9	29.05	29.06	70.0	69.0	78	64	62.0	64	63.5	74	S	6	S	14	.....	T.	0	2 cu., s	⊠
10	29.18	29.21	63.0	65.5	72	60	61.5	92	61.0	78	SW	5	W	4	.04	.03	10 s., sw	Few cu., w	≡a.
11	29.26	29.20	54.6	57.0	61	54	52.1	85	54.0	83	E	6	NE	10	.06	.12	10 n., e	10 s., ne	
12	29.10	28.89	52.5	51.0	54	50	50.0	84	49.5	90	NE	16	NW	14	.....	.05	10 s., ne	10 n., nw	
13	28.81	28.81	53.0	55.1	56	50	51.5	91	52.0	82	S	10	S	8	.01	.10	10 s., s	10 n., s	
14	28.80	28.98	51.0	54.0	58	49	49.0	87	51.0	82	NE	12	N	10	.10	T.	10 s., e	7 s. cu., n	
15	29.08	29.10	55.5	57.3	64	50	54.0	91	55.8	91	NW	6	W	11	.....	.....	4 s. cu., nw	9 s., ne	
16	29.08	29.00	59.0	61.0	62	56	56.0	83	57.7	82	SW	8	SW	12	.....	.....	0	9 s. cu., w	
17	29.02	29.10	58.1	57.8	61	53	61.6	91	56.8	77	NW	15	NW	6	.22	.....	10 s. cu., nw	9 s., nw	
18	29.07	29.06	58.0	58.0	62	52	56.0	89	57.0	94	SW	18	SW	14	T.	.....	6 a. s., nw	10 s. cu., w	
19	29.07	28.99	58.3	64.7	70	55	56.0	87	59.2	78	W	3	SW	2	T.	.....	10 s., w	10 a. s., w	
20	28.92	28.86	62.2	61.0	70	58	59.7	87	60.0	94	E	11	NE	4	.02	1.02	10 s. cu., n	10 n., ne	
21	28.96	29.02	56.0	60.0	62	54	55.0	94	58.0	89	N	8	SW	8	.19	T.	10 s., n	9 s. cu., w	
22	29.07	28.88	60.2	70.0	75	57	58.2	89	62.0	64	S	4	E	12	.....	T.	7 ci. s., nw	10 n., s	
23	28.78	28.93	61.0	61.2	63	57	58.5	86	57.2	79	SW	24	SW	6	.79	.01	10 n., sw	4 a. s., sw	
24	28.96	29.00	60.4	61.5	66	57	56.2	78	57.0	76	SW	16	S	12	T.	.04	10 s. cu., sw	4 s. cu., s	
25	29.07	29.17	57.1	60.0	62	57	55.1	88	56.0	89	W	21	W	11	.....	T.	10 s. cu., w	6 s. cu., w	
26	29.24	29.15	58.2	64.5	68	58	57.2	94	59.5	75	SW	9	W	6	.....	.....	10 s., sw	Few s. cu., w	
27	29.18	29.10	62.0	66.0	73	57	59.5	87	62.0	80	NE	6	NE	8	.....	.....	3 ci. s., nw	5 ci. s., nw	
28	29.05	28.94	60.7	71.0	78	54	57.0	79	67.0	82	E	12	NE	6	.....	.....	10 a. s., nw	9 s., w	
29	28.98	29.03	67.4	67.0	72	67	65.4	90	64.0	85	W	4	SW	9	T.	.....	9 s. cu., w	Few s., 0	
30	29.06	29.03	71.2	68.0	72	66	67.0	81	65.5	88	SW	16	W	14	.....	T.	7 a. cu., nw	10 s. cu., w	⊠
Mn	29.12	29.09	60.2	63.3	68.4	56.3	56.5	80.5	58.7	77.5	SW	9.8	SW	8.9	1.50	2.45	6.6 s. cu., s., nw.	6.2 s. cu., w	

BUFFALO, N. Y.

[φ=42° 53′ N; λ=78° 53′ W; barometer above sea, 767 feet; gravity correction applied −.01.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.05	28.88	67.5	71.2	78	67	65.0	88	67.2	82	W	20	SW	18	0.02	.....	10 s. cu., w	10 s. cu., sw	◩
2	29.01	29.11	66.0	73.5	74	66	64.0	90	68.5	78	W	20	W	12	.01	.....	6 ci. s., w	Few ci. s., 0	
3	29.20	29.20	70.0	67.0	81	64	66.0	81	65.0	90	E	8	NE	11	....	0.39	10 s. cu., w	10 u., ne	◩
4	29.28	29.20	70.0	77.0	82	64	62.5	66	66.5	58	E	12	E	12	.08	.....	4 ci., w	6 ci, s., nw	
5	29.19	29.23	74.3	72.5	78	69	70.8	84	70.0	89	S	3	N	12	.01	.05	10 a. s., sw	10 a. s., w	
6	29.38	29.35	67.0	69.5	77	64	62.0	76	64.0	74	N	6	W	10	....	.....	0	Few s. cu., w	
7	29.42	29.31	68.2	72.5	80	66	64.2	81	65.0	67	SW	4	SW	12	....	.....	0	0	
8	29.30	29.18	71.5	73.7	79	68	66.0	75	68.7	78	SW	6	SW	13	....	.....	2 ci. s., w	1 a. s., nw	
9	29.21	29.10	75.0	79.0	84	73	71.0	82	71.0	68	SW	12	S	10	....	.....	2 a. cu., w	10 ci. s., nw	
10	29.10	29.10	75.0	76.3	79	73	71.5	84	70.3	74	SW	19	W	5	T.	.11	10 n., sw	6 a. s., w	◩
11	29.09	28.99	69.4	72.0	78	66	66.4	86	66.0	73	W	6	SW	10	.08	.14	10 n., w	2 s. cu., sw	◩
12	28.97	28.98	72.0	70.3	73	64	68.0	82	66.3	81	W	10	W	18	....	.01	10 s.; w	7 s. cu., w	
13	29.05	29.02	63.8	68.0	72	61	53.8	52	57.0	51	N	8	NW	8	....	.....	0	3 s. cu., w	
14	29.03	29.03	60.5	60.8	64	55	55.8	75	54.3	66	W	7	NW	10	.44	.09	9 s. cu., w	9 s. cu., w	◩
15	29.10	29.14	53.0	61.8	63	49	49.0	75	57.0	75	NW	20	W	11	.41	.02	10 s. cu., nw	3 s. cu., nw	
16	29.21	29.16	62.0	66.7	69	55	58.0	79	61.2	73	SW	10	W	18	T.	.04	0	2 s. cu., w	
17	29.24	29.13	65.8	75.0	76	60	60.8	76	61.0	44	SW	7	0	0	....	.....	7 ci. s., nw	10 s. (?) 0(?)	
18	28.89	28.89	61.5	62.3	68	61	59.0	86	61.0	93	E	15	NE	8	.40	.13	10 n., e	10 s., ne	
19	28.97	28.95	62.3	70.2	71	61	59.3	84	65.0	76	N	3	SW	9	T.	.....	9 s. cu., n	3 s. cu., sw	
20	28.94	29.00	66.7	66.0	70	63	63.2	83	63.0	85	SW	20	W	22	.01	.01	10 u., sw	10 n., w	◩
21	29.12	29.06	64.8	70.0	76	61	60.0	76	64.0	72	W	9	NW	6	.01	T.	8 s. cu., w	10 s. cu., sw	◩
22	29.01	29.10	67.2	66.0	70	63	63.4	81	62.5	83	S	14	NW	12	.52	.02	6 a. s., sw	10 s., nw	◩
23	29.20	29.23	64.4	70.4	73	61	61.4	85	63.4	68	W	6	W	8	....	.....	3 s. cu., w	0	
24	29.30	29.29	70.2	74.3	82	67	64.0	71	68.3	74	E	8	W	6	....	.....	0	1 ci., nw	
25	29.32	29.20	72.0	74.6	77	70	65.5	71	68.8	75	SW	16	W	20	....	.....	3 ci. cu., nw	8 s. cu., w	
26	29.16	29.23	74.0	69.6	77	64	67.5	72	58.0	51	NW	12	N	10	....	.....	10 s., w	10 ci., w	
27	29.33	29.27	61.0	66.9	69	60	51.0	50	54.4	44	NE	15	N	6	....	.....	0	2 ci., nw	
28	29.24	29.05	63.2	71.4	76	54	54.0	55	62.4	60	S	4	E	10	....	.....	1 a. s., nw	10 s. cu., w	
29	28.96	28.90	70.0	74.0	76	70	68.6	93	70.7	85	SW	15	SW	20	.17	.01	10 n., sw	7 a. cu., sw	◩
30	28.94	29.08	67.3	68.8	74	60	66.0	93	61.8	68	W	10	NW	16	.89	.....	10 s. cu., w	10 s. cu., nw	◩
31	29.32	29.36	57.1	65.5	68	57	51.6	69	55.0	50	NW	13	NE	6	....	.....	10 s. cu., nw	0	
Mn	29.14	29.12	66.9	70.2	74.6	63.1	62.2	77.5	63.8	71.1	SW	10.9	W	11.3	3.05	1.02	6.1 s. cu., w	5.8 s. cu., w	

AUGUST 1903.

1	29.51	29.49	62.0	68.0	74	56	56.0	69	57.0	51	E	4	NE	8	....	.....	4 ci. s., w	2 ci. s., w	
2	29.58	29.49	62.5	68.0	76	55	56.0	66	58.5	57	E	8	E	15	....	.....	9 a. s., w	10 s. cu., w	
3	29.48	29.30	66.2	70.0	78	61	60.2	71	63.0	68	E	9	E	14	....	.....	8 a. s., nw	10 a. cu., w	
4	29.13	29.01	65.5	65.5	72	62	64.5	95	64.0	92	E	12	N	12	1.10	1.24	10 n., e	10 s., n	≡[2]a.
5	29.09	29.00	62.0	69.5	74	61	60.0	89	64.0	74	NE	6	E	12	.01	.....	10 s., ne	7 s. cu., w	
6	28.96	28.96	71.5	71.0	74	58	68.5	86	62.5	62	SW	15	NW	18	....	T.	10 s. cu., sw	2 cu., nw	
7	29.16	29.22	55.0	61.5	68	53	51.2	77	52.0	52	NW	14	N	3	....	.....	8 s. cu., w	Few s. cu. (?)	
8	29.18	29.02	59.0	67.8	70	57	53.0	68	58.8	59	SW	16	S	6	....	.....	10 a. s., sw	10 a. s., sw	
9	28.95	29.03	65.4	68.5	71	61	63.0	88	61.0	66	SW	14	N	12	.14	T.	10 n., sw	2 s. cu., w	◩
10	29.20	29.09	60.6	69.0	76	57	55.1	71	63.0	72	NW	8	E	8	....	.....	8 ci. s., w	6 ci. s., w	
11	29.02	29.06	70.0	65.3	72	64	66.0	81	57.8	64	W	12	W	20	....	.....	8 s. cu., w	10 s. cu., w	
12	29.18	29.23	57.0	64.4	66	56	53.6	81	55.4	56	NW	20	NW	8	....	.....	5 s. cu., nw	9 s. cu., nw	
13	29.33	29.30	58.8	65.4	68	54	52.3	65	64.9	50	N	5	NE	3	....	.....	10 ci. s., sw	0	
14	29.35	29.29	63.1	70.0	74	53	54.5	58	56.0	40	E	5	NE	4	....	.....	4 ci. s., w	Few ci. s., nw	
15	29.34	29.26	64.0	70.2	76	58	57.5	68	58.5	49	S	1	E	12	....	.....	8 ci. s., nw	10 s., e	
16	29.25	29.22	66.7	71.0	77	61	59.2	65	60.0	53	E	4	NE	8	....	.....	0	0	
17	29.27	29.21	65.3	71.0	79	62	61.8	82	63.5	67	SW	5	SW	5	....	.....	2 s. cu., sw	9 s. cu., nw	
18	29.21	29.08	68.0	74.8	78	66	62.0	72	62.8	51	SW	10	SW	10	....	.....	4 a. cu., nw	3 a. s., sw	
19	29.05	28.98	71.8	72.0	80	68	67.0	79	63.5	63	SW	9	N	2	....	.....	0	9 s. cu., sw	
20	29.01	29.09	64.0	67.7	74	61	59.2	76	58.0	56	NW	7	N	12	....	.....	2 a. s., w	0	
21	29.24	29.05	61.5	71.8	74	57	57.5	79	66.3	75	S	9	SW	24	....	.....	0	6 s. cu., nw	◡
22	29.00	29.01	71.8	70.0	74	71	66.3	75	65.5	79	W	36	SW	24	....	T.	9 a. s., w	10 s. cu., w	
23	29.10	29.08	65.0	68.0	75	64	62.0	85	63.0	76	W	6	SW	6	....	T.	10 s., w	10 s. cu., w	
24	29.16	29.13	63.1	68.0	75	61	58.5	76	60.0	63	NE	6	E	12	0.09	.....	10 s., ne	10 s., w	
25	29.00	29.04	71.3	71.5	75	64	69.3	90	70.0	93	SW	12	W	6	.56	.17	4 a. s., w	8 s. cu., w	◩
26	29.21	29.26	60.2	63.0	67	59	59.0	93	59.0	79	NE	6	N	6	T.	.....	10 s., ne	10 a. s., sw	
27	29.28	29.17	59.5	63.5	66	57	55.0	76	58.5	74	SE	8	E	12	....	T.	10 s., nw	10 s., e	
28	29.11	29.03	59.2	60.3	63	59	57.7	92	58.8	92	E	22	E	18	.04	.30	10 n., e	10 n., e	
29	29.06	29.03	60.7	67.3	71	59	59.2	92	63.8	83	E	5	E	10	.03	.08	10 n., e	10 s., e	≡[2]a.
30	29.05	29.10	60.8	63.8	66	60	59.8	94	61.8	90	S	6	S	8	1.02	.46	10 n., s	10 n., s	≡[2]p.
31	29.11	29.11	65.0	67.5	73	62	62.0	85	64.5	85	SW	10	SW	4	.03	.02	8 a. cu., sw	10 s. cu., sw	◩
Mn	29.18	29.14	63.8	67.9	72.4	59.9	59.6	78.8	60.8	67.5	{e SW}	9.8	E	10.4	3.02	2.27	7.1 a. s., w	6.9 s. cu., w	

BUFFALO, N. Y.

[φ=42° 53′ N; λ=78° 53′ W; barometer above sea, 767 feet; gravity correction applied — .01.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.18	29.24	61.0	66.8	71	61	60.0	94	63.8	85	NE	6	W	10	0.12	0.03	10 n., ne	6 s. cu., w	≡°a
2	29.32	29.33	65.0	68.5	72	64	62.0	84	64.5	81	SW	8	W	10			4 s. cu., sw	8 a. cu., w	
3	29.34	29.24	67.0	73.0	76	64	63.0	80	67.0	73	S	8	SW	12			4 s. cu., s	7 s. cu., w	
4	29.23	29.20	72.4	71.2	77	62	65.4	69	68.0	85	SW	12	W	13			4 ci. s., w	2 s., w	⊕
5	29.27	29.27	58.8	59.0	65	55	55.3	81	52.0	63	NW	8	N	9	.10		5 s. cu., w	0	
6	29.34	29.30	56.3	63.8	65	51	52.6	79	56.0	62	N	1	W	18			0	8 s. cu., w	
7	29.38	29.39	56.0	55.0	60	54	52.1	77	53.0	88	E	4	E	6		.16	10 a. s., w	10 n., e	
8	29.31	29.28	57.0	66.0	72	54	54.0	83	62.0	80	E	12	E	12	.01	T.	10 n., w	6 s. cu., e	
9	29.34	29.24	67.0	77.2	80	64	62.5	78	71.2	75	S	12	W	10			10 ci. s., w	2 s., w	
10	29.15	29.15	73.4	71.0	79	63	67.9	76	69.0	90	S	22	SW	16	.06	.01	8 s. cu., s	10 n., sw	⊓◹
11	29.38	29.41	61.5	62.0	72	58	58.5	84	58.0	79	NE	4	NE	10	.05		0	2 s. cu., e	
12	29.41	29.28	67.0	82.0	89	62	63.0	80	73.0	65	SE	6	S	7			3 ci. s., w	0	
13	29.28	29.29	73.2	72.0	79	72	68.2	78	68.2	83	SW	16	W	12		.01	6 ci. s., w	10 s. cu., w	
14	29.30	29.21	73.5	81.5	84	71	65.5	66	70.0	56	S	8	W	9			2 ci. cu., w	0	
15	29.26	29.22	74.8	81.5	86	73	66.2	64	69.5	55	S	13	SW	8			2 a. cu., w	5 ci. cu., sw	
16	29.19	29.07	73.0	79.0	84	72	67.0	73	70.5	66	S	8	SW	8			2 s. cu., s	5 s. cu., sw	
17	28.81	29.12	63.2	58.0	75	48	62.0	94	50.5	85	NE	10	W	20	.05	.07	10 n., ne	10 s. cu., w	
18	29.31	29.45	52.0	53.0	58	48	47.0	69	47.0	64	W	8	NW	15			4 s. cu., w	2 a. s., w	
19	29.58	29.52	53.2	58.0	63	49	48.2	70	52.0	67	S	8	SE	8			2 s. cu., s	0	
20	29.55	29.45	54.0	65.1	69	51	49.0	70	54.1	48	S	5	W	5			0	0	
21	29.44	29.36	60.0	67.5	71	56	55.3	75	65.0	88	SW	8	W	20			0	0	
22	29.45	29.37	60.5	67.6	72	60	56.5	78	60.6	67	NW	3	SW	4			0	0	
23	29.20	29.01	66.5	57.0	74	50	59.5	66	53.5	80	SW	16	N	26		T.	0	10 n., n	
24	29.16	29.20	46.0	51.0	56	45	43.2	80	45.0	63	NW	13	NW	12	.12		3 s. cu., nw	2 s. cu., nw	
25	29.25	29.17	50.2	61.5	63	48	45.2	68	56.5	74	W	4	S	8			4 s. cu., w	0	
26	29.18	29.05	63.2	72.0	77	61	54.2	56	62.5	59	S	18	S	14			0	4 a. s., s	
27	28.94	29.15	61.5	55.0	70	51	58.0	81	49.0	65	W	56	NW	12	.01	.01	10 n., w	10 s. cu., nw	
28	29.32	29.47	45.3	47.5	51	44	42.0	77	42.0	63	NW	28	NW	14			4 s. cu., nw	10 s. cu., nw	
29	29.56	29.49	47.2	56.7	58	43	42.2	66	49.2	59	S	8	SW	10			7 a. s., nw	0	⊓
30	29.50	29.38	54.5	69.0	72	48	48.8	66	58.0	51	S	8	S	10			3 ci., n	10 a. cu., w	⊓
Mn.	29.30	29.28	61.1	65.4	71.3	56.7	56.5	75.4	59.4	70.6	S	11.4	W	11.3	0.52	0.29	4.2 s. cu., w	4.6 s. cu., w	

OCTOBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.31	29.26	63.0	65.0	68	62	62.0	95	62.5	87	SW	24	SW	14	0.18	0.27	10 n., sw	10 s., sw	≡°p⊓◹
2	29.41	29.49	56.0	56.3	65	51	55.0	94	52.8	79	NE	18	SE	8	.26	T.	10 n., ne	Few a. s., w	
3	29.44	29.28	57.6	64.5	72	50	54.1	80	60.0	78	S	8	S	14			4 s. cu., s	0	
4	29.19	29.20	67.2	66.0	69	63	62.2	76	63.5	87	SW	28	SW	12	.01	.01	10 n., sw	10 n., sw	⊖
5	29.30	29.33	60.2	62.3	66	56	56.7	81	57.8	77	W	11	W	6	.01		8 a. s., nw	10 ci. s., w	⊖
6	29.38	29.20	51.8	67.8	69	50	49.3	87	63.3	78	E	14	S	12		T.	10 s. cu., e	10 s., s	
7	29.10	28.83	71.2	73.5	79	61	64.7	71	64.5	62	S	20	S	26	T.	T.	10 s. cu., sw	10 a. s., sw	
8	28.94	29.04	56.0	56.2	62	52	53.5	85	51.7	74	S	12	W	13	1.14	.03	10 n., w	2 a. s., w	
9	29.19	29.29	50.0	50.0	54	49	47.0	81	44.5	65	N	15	N	20			8 a. s., w	10 s., n	
10	29.37	29.36	46.0	49.2	50	46	43.5	82	48.0	92	NE	12	NE	16		.01	10 s. cu., ne	10 n., ne	
11	29.34	29.30	48.8	50.2	51	48	46.8	87	47.2	81	NE	14	NE	9	.01		10 s. cu., ne	0	⌓
12	29.31	29.33	47.4	53.0	56	46	44.9	83	48.0	70	N	8	NW	4			9 s. cu., n	0	⌓
13	29.36	29.27	48.7	59.0	60	47	46.2	83	55.0	78	NW	4	W	13			0	0	Lt. smoke, a.
14	29.26	29.17	49.6	56.0	62	49	45.1	71	53.0	82	NW	5	NE	5			4 ci. s., w	0	Lt. smoke, a.
15	29.12	28.97	50.5	64.5	68	44	47.0	78	58.0	68	E	5	S	14		T.	10 ci. s., w	4 s. cu., s	⊓◹
16	29.04	29.04	58.8	61.0	63	58	55.3	81	57.0	79	SW	26	SW	16	.17		10 s. cu., sw	10 s. cu., sw	
17	28.91	28.79	59.0	53.5	60	47	54.5	75	47.0	62	SW	9	W	26	T.	T.	10 s., sw	8 s. cu., w	
18	29.07	29.20	41.0	45.8	50	41	39.0	84	40.3	62	W	18	W	16	.01	T.	10 n., w	10 s., w	
19	29.09	29.01	51.0	58.3	58	50	46.0	69	53.3	72	SW	28	SW	15	T.		10 s., sw	0	
20	28.96	29.18	57.0	52.3	61	50	52.0	72	46.8	66	SW	34	N	14			10 s. cu., sw	0	
21	29.33	29.38	46.0	46.5	54	43	43.0	79	42.0	69	NW	10	E	8			3 s. cu., nw	0	
22	29.19	29.06	55.0	55.0	69	43	46.5	52	49.0	65	S	24	NW	14		.01	6 ci. s., w	10 s., nw	⊓
23	29.19	29.31	43.6	40.0	50	37	41.1	82	37.0	76	NW	14	N	14	.01	T.	10 n., nw	Few s. cu., a	
24	29.36	29.25	36.0	41.5	43	36	32.5	69	36.0	58	NW	10	W	18			8 s. cu., nw	0	☾
25	29.08	29.01	43.4	49.1	52	41	39.4	70	43.1	61	W	20	W	20			2 s. cu., w	0	
26	29.23	29.40	34.2	36.0	41	31	31.7	77	32.0	65	NW	12	NW	19	T.	.02	8 s. cu., nw	9 s. cu., nw	✱△—⁴
27	29.51	29.32	31.0	44.8	47	31	28.0	69	39.8	65	W	18	W	38	T.	T.	9 a. s., w	10 n., w	✱
28	29.33	29.28	39.8	52.0	53	39	36.8	76	47.5	72	E	5	W	22	T.		10 s., n	0	
29	29.31	29.29	52.2	55.8	56	50	49.2	87	50.8	71	SW	26	W	24			0	0	
30	29.38	29.35	52.8	55.4	58	53	47.0	65	50.0	69	SW	12	SW	10			9 a. s., 0	6 ci. cu., w	
31	29.37	29.32	53.2	55.2	59	53	44.2	47	53.0	87	SW	10	SW	20			0	0	Lt. smoke, a.
Mn.	29.24	29.21	50.9	54.7	58.9	47.6	47.2	76.8	50.1	72.8	SW	15.3	W	15.5	1.80	.35	7.7 s. cu., sw	4.5 s. cu., s	

BUFFALO, N. Y.

[φ=42° 53′ N; λ=78° 53′ W; barometer above sea, 767 feet; gravity correction applied, —.01.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.43	29.40	51.3	55.3	61	51	48.0	79	50.1	70	NW	7	SW	6	....	.....	10 s., nw	0	
2	29.41	29.33	51.0	52.0	54	50	50.0	94	51.0	94	SW	10	SW	6	....	.....	10 s., sw	D. fog, sw	≡a
3	29.34	29.31	52.2	56.0	59	52	50.7	91	54.5	91	W	7	SW	15	T.	.....	8 ci. s., w	0	
4	29.24	28.99	54.6	60.0	60	54	52.6	88	55.0	73	SW	12	SW	15	....	.....	0	10 a. s., sw	
5	28.83	29.06	41.5	35.8	59	34	40.0	88	32.0	66	N	24	N	15	0.21	0.04	10 n., n	10 n., n	*
6	29.24	29.38	31.4	31.5	34	30	29.4	79	28.5	69	NW	14	N	8	.02	T.	8 s. cu., nw	10 s., n	*
7	29.50	29.46	31.0	37.5	40	31	28.0	69	33.5	66	NW	10	W	14	T.	T.	10 n., nw	1 a. s., 0	*
8	29.46	29.39	40.0	48.7	49	36	35.0	61	42.2	58	W	20	SW	18	....	.....	10 ci. s., w	0	
9	29.35	29.11	46.0	53.7	56	46	40.0	59	42.2	35	SW	18	S	20	....	.....	0	0	
10	29.00	29.13	52.5	44.0	54	44	46.5	64	40.5	74	SW	44	W	10	....	.....	4 s. cu., sw	10 s., w	
11	29.05	28.60	38.0	59.0	63	34	34.5	71	49.0	48	SE	9	S	32	....	T.	0	10 s., s	
12	29.05	28.99	44.0	44.0	48	38	40.5	74	39.5	68	W	34	SE	12	.12	.....	8 s. cu., w	0	
13	29.09	29.24	41.0	44.0	49	38	37.0	69	37.0	51	W	32	W	26	....	.....	3 s. cu., w	10 s., w	
14	29.24	29.30	40.6	38.0	44	37	37.1	73	33.5	63	W	20	W	21	....	T.	10 s., w	0	
15	29.38	29.32	33.0	38.0	39	33	29.0	61	34.0	67	W	20	SE	6	T.	.....	10 a. s., w	6 s. cu., se	
16	28.96	28.75	38.0	45.2	55	36	37.0	91	44.2	93	E	15	SE	5	.24	.46	10 s., e	10 n., se	≡⚐
17	28.96	29.11	41.2	37.0	56	32	38.2	77	34.5	79	W	24	W	16	.05	.....	10 s., w	5 s., w	
18	29.27	29.34	20.0	27.0	32	20	17.5	63	24.0	65	NW	32	W	36	....	.....	4 s. cu., nw	2 s. cu., w	
19	29.45	29.56	24.2	23.8	28	24	22.0	72	21.8	74	W	20	W	20	....	T.	10 s., w	0	*
20	29.78	29.84	24.0	26.0	30	21	21.8	72	24.0	75	E	1	S	8	....	T.	10 s. cu., n	0	*
21	29.77	29.49	23.0	33.5	34	23	21.0	73	28.0	48	SE	12	S	8	....	.....	4 s. cu., nw	10 s., s	
22	29.30	29.22	32.5	38.5	39	32	32.0	95	35.0	72	SW	14	SW	15	T.	T.	10 n., sw	10 s., sw	*
23	28.85	28.75	38.8	37.0	42	36	37.3	88	35.0	83	SW	15	W	40	.01	.11	10 n., sw	10 n., w	
24	29.04	29.25	30.0	22.0	37	21	27.0	68	19.5	65	NW	32	W	24	.01	T.	10 s., nw	0	*
25	29.32	29.22	18.5	28.2	25	18	16.9	75	20.2	60	N	5	NE	4	.01	.01	2 s. cu., n	10 s., ne	*
26	29.28	29.32	15.2	20.0	22	14	12.8	58	18.0	70	NE	8	NW	10	.03	.02	8 s. cu., ne	10 n., nw	*
27	29.32	29.22	19.5	23.2	26	19	17.3	67	20.7	66	W	14	W	12	T.	T.	3 s. cu., w	0	*
28	29.04	28.89	24.0	24.7	27	23	22.5	81	22.0	66	SE	7	SE	6	T.	.02	10 n., se	10 s., se	*
29	28.84	28.92	25.3	27.0	30	24	22.3	63	24.0	65	SE	5	N	4	....	.....	10 s., se	5 s., n	⊏
30	29.05	29.19	22.5	30.0	31	21	20.5	72	27.5	73	E	5	SW	10	....	T.	10 a. s., ne	8 s. cu., w	*
Mn	29.23	29.20	34.8	37.9	42.8	32.4	32.1	74.5	34.0	68.2	W	16.3	W	14.7	.70	.66	7.4 s. cu., w	5.2 s., w	

DECEMBER, 1903.

1	29.34	29.38	29.0	31.8	32	28	27.0	78	31.3	95	SW	7	S	6	0.02	0.02	10 n., sw	10 s., s	*
2	29.40	29.33	25.0	28.0	34	24	24.0	87	26.0	77	SE	5	E	8	T.	.....	10 s. cu., se	0	*
3	29.31	29.28	20.5	30.0	33	18	18.5	70	27.0	68	SE	2	E	8	....	.....	0	10 s. cu., sw	
4	29.23	29.13	31.6	38.5	39	28	28.1	64	34.5	68	S	10	SW	30	T.	.01	10 n., s	10 n., sw	*△
5	29.20	29.26	26.5	28.0	30	25	24.0	70	27.0	88	W	18	W	24	.10	.02	10 n., w	0	*
6	29.23	29.19	33.5	28.5	34	28	31.0	76	26.5	78	W	30	W	18	.02	T.	10 s. cu., w	10 s., w	*
7	29.01	29.05	27.5	33.5	34	27	25.5	76	31.0	76	SW	24	W	17	....	.03	10 s., sw	10 s., w	*
8	29.21	29.15	28.0	28.0	32	27	26.0	77	25.5	71	NE	7	E	15	.01	.03	10 n., ne	10 n., e	*
9	28.92	28.67	24.5	33.5	34	24	23.0	81	32.5	90	E	14	E	4	.20	.14	10 n., e	10 n., e	*
10	28.65	28.87	21.5	26.0	31	21	20.0	78	24.5	82	W	15	W	14	.02	.....	10 s., w	0	*
11	28.99	29.20	29.0	22.5	31	22	27.2	80	21.0	80	SW	42	W	24	.02	.25	10 n., sw	10 n., w	*
12	29.31	28.88	24.0	50.0	52	21	22.2	77	44.0	62	S	16	SW	48	.05	.03	10 s., s	10 n., sw	*
13	29.07	29.32	24.8	14.5	42	10	21.8	63	13.0	73	NW	36	W	39	.62	.01	10 s., nw	7 s. cu., w	*
14	29.41	29.48	11.0	11.8	15	8	10.0	79	10.4	72	W	42	NW	22	.04	T.	10 n., w	10 s., nw	*
15	29.35	29.31	13.0	17.0	19	11	11.8	77	13.5	44	NW	24	W	34	T.	T.	10 s., nw	10 s. cu., w	*
16	29.15	29.16	20.0	20.3	24	16	18.0	70	19.3	85	W	36	W	28	....	.02	10 s. cu., w	10 n., w	*
17	29.25	29.32	26.0	27.5	28	20	24.5	82	25.0	70	W	32	W	24	.02	T.	10 s., w	9 s. cu., w	*
18	29.51	29.58	20.0	16.2	25	15	18.0	70	15.2	83	NE	8	E	8	T.	.01	10 n., n	0	*
19	29.42	29.11	26.0	35.0	37	17	24.0	75	32.0	73	S	4	S	12	....	.02	9 s., sw	10 n., s	
20	28.64	28.62	39.5	33.8	40	31	37.0	80	32.3	90	S	22	W	32	.12	.25	10 n., s	10 n., w	*
21	28.94	28.70	30.8	37.5	38	31	28.3	74	34.5	74	W	38	SW	30	.02	T.	10 s., w	10 s., sw	*
22	29.02	29.27	25.0	23.0	35	18	23.0	75	19.5	53	W	40	W	30	.01	.01	10 s. cu., w	10 s., w	*
23	29.24	29.23	26.2	39.0	39	25	23.2	64	35.0	68	SW	36	SW	26	.01	.....	10 s., sw	0	*
24	29.11	28.80	39.0	36.0	39	35	37.0	84	34.5	87	SW	24	SW	36	T.	.19	10 n., sw	10 n., sw	
25	28.82	28.75	26.5	19.5	35	17	24.0	70	18.0	77	SW	24	NW	8	.03	.01	10 n., sw	10 s., nw	*
26	29.02	29.11	6.2	9.0	17	3	4.8	65	7.2	60	NW	23	W	16	.05	.02	10 s., nw	10 n., w	*
27	28.67	28.85	15.0	18.0	26	9	13.4	72	17.0	84	SW	36	W	25	.30	.32	10 n., sw	4 s. cu., w	*
28	29.28	29.32	8.0	16.5	16	7	6.8	72	15.5	84	NW	12	S	6	....	.07	10 s., nw	10 n., s	*
29	28.99	29.13	16.0	21.5	27	12	15.0	83	21.0	98	SE	9	SW	15	.08	.08	10 s., se	2 s., sw	*
30	29.23	29.19	16.0	18.0	23	16	14.8	79	16.2	72	SW	14	SW	30	....	.04	10 s., sw	10 n., sw	*
31	29.14	29.05	21.0	21.8	23	16	19.5	78	20.3	86	SW	32	W	15	.30	.08	10 s., sw	10 n., w	*
Mn	29.13	29.12	23.6	26.2	31.1	19.7	21.7	75.0	24.2	76.2	SW	22.0	W	21.0	2.04	1.66	9.6 s., sw	7.8 n., w	

MARQUETTE, MICH.

[φ=46° 34′ N; λ=87° 24′ W; barometer above sea, 734 feet; gravity correction applied, 0.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.10	29.34	32.3	31.0	42	24	28.0	57	28.9	78	W	26	N	2	.....	.....	0	0	
2	29.29	29.05	23.0	29.1	32	21	21.5	80	28.2	90	W	5	S	2	.....	.....	9 cu., s	2 s., s	
3	28.92	28.99	34.0	25.8	34	26	32.4	85	22.9	64	N	9	N	12	0.01	0.01	10 n., n	10 s. cu., n	*
4	29.01	29.04	24.0	21.5	26	15	22.0	74	18.5	58	N	7	N	10	.....	T.	10 s., n	6 s. cu., nw	*
5	29.02	29.08	11.4	21.2	25	11	11.0	92	20.4	89	W	11	NW	11	.....	.04	0	10 n., nw	*
6	28.99	28.57	15.7	19.0	21	15	14.0	72	17.8	82	W	9	SE	17	.13	.05	10 s., se	10 n., se	*
7	28.52	28.83	25.0	17.0	29	10	23.5	81	15.6	77	NE	12	NW	36	.19	.08	10 s., ne	10 n., nw	*
8	28.95	28.88	5.0	6.5	10	4	3.8	69	5.8	83	W	15	W	15	.30	.01	10 n., w	3 s., w	*
9	28.81	28.93	8.8	8.3	10	8	7.3	66	7.0	70	NW	18	W	11	.01	.....	7 s., nw	8 s., w	*
10	29.07	29.03	9.1	11.5	16	8	7.3	60	10.5	80	W	17	SW	9	.....	T.	6 cu., w	10 n., sw	*
11	28.84	28.87	9.7	4.5	13	2	8.4	72	3.0	60	W	14	W	12	T.	T.	10 s., w	7 s., w	
12	29.07	29.24	5.7	6.0	10	2	4.7	75	4.6	65	NW	11	W	13	T.	T.	10 n., nw	10 s., sw	*
13	29.32	29.40	4.0	8.9	16	4	3.0	73	7.2	62	W	15	W	12	T.	.....	10 s., w	7 cu., nw	*
14	29.39	28.91	5.0	20.4	21	5	4.3	82	17.3	56	W	12	NW	6	.....	.....	Few cu., w	10 s., nw	
15	28.96	29.05	29.3	33.7	34	21	27.5	80	30.0	65	W	10	W	7	.....	T.	10 s., w	10 s., w	*
16	29.00	28.86	24.3	28.5	34	24	22.0	70	26.0	72	W	9	W	6	.....	.....	Few s., w	0	
17	29.01	29.16	19.5	12.2	31	10	18.4	84	10.0	56	NW	21	W	9	.04	.01	10 n., nw	0	**
18	29.36	29.55	5.0	2.0	10	2	4.0	74	0.5	56	NW	21	W	8	.02	.01	10 n., nw	Few s., w	**
19	29.42	29.15	5.7	20.5	22	1	4.7	75	16.8	46	S	12	S	24	.....	.....	Few s., sw	10 s., s	
20	28.93	29.19	26.5	20.3	33	16	23.0	58	18.9	79	S	9	NW	12	.....	T.	10 s., s	10 n., nw	*
21	29.27	29.07	14.7	14.1	18	13	12.8	66	12.5	71	N	11	S	8	.02	T.	10 n., n	0	*
22	28.94	29.24	18.9	13.0	19	12	16.5	63	11.0	62	W	12	W	12	.01	T.	10 s., w	7 cu., w	***
23	29.48	29.50	13.3	13.5	16	11	11.7	69	12.0	72	W	10	S	7	.....	T.	10 s., nw	Few s., s	***
24	29.37	29.27	18.0	20.7	24	12	16.5	76	19.0	75	S	9	S	8	.....	T.	10 s., s	0	**
25	29.25	29.14	20.6	26.0	27	17	18.6	71	24.5	82	SE	9	S	16	.....	.....	5 a. s., w	10 s., s	
26	28.98	28.92	33.5	36.8	38	27	31.8	84	35.0	84	S	24	S	7	.....	T.	10 s., s	10 n., s	
27	29.25	29.21	23.2	26.8	38	23	20.8	67	25.1	79	W	12	N	4	T.	.....	5 cu., w	8 s., n	
28	29.15	28.98	29.4	32.0	32	26	28.0	84	30.6	86	NE	5	E	17	.....	T.	10 s., ne	10 n., e	**△
29	28.61	28.62	33.2	18.0	33	16	32.4	92	16.8	81	NW	6	NW	11	.26	.07	10 n., nw	10 n., nw	**
30	28.86	29.14	12.0	6.9	16	7	10.6	68	5.0	54	NW	13	W	12	.08	T.	8 s., nw	0	**
31	29.22	29.01	10.8	23.7	24	8	9.0	63	22.0	78	W	9	SE	8	.....	.....	9 s., w	8 s. cu., se	
Mn.	29.08	29.07	17.8	18.7	24.3	12.9	16.1	73.6	16.9	71.4	W	12.4	W	11.1	1.07	.28	7.7 s., w	6.3 s., nw	

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1	28.84	28.99	29.5	29.9	30	24	27.5	78	29.0	90	SE	1	NW	5	.....	.....	10 s., se	10 s., nw	
2	28.96	29.11	30.0	25.0	30	22	27.7	75	23.7	84	E	10	NW	12	.....	0.10	10 s., e	10 n., nw	***
3	29.32	29.17	10.3	17.6	22	10	9.6	85	16.5	82	NW	18	NE	18	0.02	.01	10 n., nw	10 n., nw	***
4	28.85	29.00	19.7	20.8	21	19	17.9	73	18.6	68	NE	22	NW	23	.02	T.	10 n., ne	7 cu., nw	**
5	29.14	29.28	21.2	20.9	29	13	18.0	54	18.7	68	W	19	W	11	.....	.....	Few s., w	0	
6	29.42	29.51	10.6	17.1	23	11	9.8	83	15.0	66	W	12	NW	5	.....	.....	Few s., w	0	
7	29.51	29.33	16.3	26.0	28	14	14.7	73	21.4	45	W	9	S	5	.....	.....	Few s., w	6 s., s	
8	29.06	29.09	15.7	25.9	29	16	14.7	83	24.8	87	W	9	NW	2	.....	T.	2 s., w	3 s. cu., nw	*
9	29.21	29.07	10.5	31.0	33	10	10.0	89	27.0	58	W	17	SW	29	.....	.....	0	Few s., sw	
10	28.93	28.77	25.0	43.0	45	25	23.7	84	37.0	56	SE	10	SW	16	.....	.....	2 s., se	7 s., sw	
11	28.74	28.82	29.2	32.5	41	29	27.0	76	29.9	74	W	6	N	12	.....	.....	2 s., s	10 s., nw	
12	28.99	29.25	21.0	15.0	32	8	20.6	94	13.6	75	NW	23	NW	13	.36	.07	10 n., nw	10 n., nw	*
13	29.41	29.57	13.0	10.9	16	9	12.0	81	9.6	72	NW	12	NW	8	.01	T.	10 n., nw	0	**
14	29.64	29.55	9.0	18.0	20	9	8.0	79	17.0	84	SW	15	NW	5	.....	.....	4 a. s., w	7 cu., nw	
15	29.52	29.42	6.0	0.0	12	− 4	5.0	75	− 2.0	35	NW	18	W	5	.01	T.	10 n., nw	10 s., nw	*
16	29.31	29.18	− 6.3	− 7.1	− 2	− 9	− 7.1	65	− 8.0	59	NW	13	NW	7	T.	.....	8 ci., nw	Few s., nw	*
17	28.98	28.85	−14.3	−10.0	− 8	−14	−15.0	55	−11.4	27	W	18	NW	12	.....	.....	5 a. s., w	5 s., nw	
18	29.06	29.39	−13.8	− 4.4	6	−14	−14.9	30	− 6.0	37	NW	16	NW	14	T.	.....	10 s., nw	0	**
19	29.54	29.41	5.0	12.0	18	0	2.8	43	10.5	70	W	7	W	10	.....	.....	7 a. s., w	7 s., sw	***
20	29.46	29.22	2.6	12.4	14	3	2.0	83	11.5	82	W	10	S	5	T.	T.	Few s., w	8 s., s	**
21	29.26	29.50	10.8	14.2	16	10	9.8	79	12.0	60	NW	20	W	8	.01	.....	4 cu., nw	0	
22	29.37	29.10	11.3	34.2	35	9	9.5	63	30.5	64	S	8	S	1	.....	.....	7 a. s., w	9 s. s., 0	**
23	29.46	29.63	22.2	18.9	31	18	20.2	72	16.1	57	NW	18	NW	8	.09	T.	10 n., nw	Few s., nw	**
24	29.50	29.51	22.0	24.7	28	17	18.0	45	23.3	82	SW	2	NW	4	.....	.....	7 a. s., w	0	*
25	29.48	29.36	22.5	35.0	37	18	20.0	66	28.0	37	SW	7	SW	11	.....	.....	0	0	
26	29.43	29.31	31.1	40.9	44	30	26.6	53	37.4	73	W	19	S	8	.....	.....	1 a. s., w	7 s., sw	
27	29.08	28.74	33.3	38.0	41	31	30.5	78	37.5	96	SE	10	S	3	T.	.10	10 n., se	10 a. s., 0	*
28	28.64	29.10	16.5	10.2	38	10	16.0	92	9.3	80	NW	29	NW	20	.22	.22	10 n., nw	10 n., nw	*
Mn.	29.22	29.22	14.6	19.7	25.1	11.6	13.0	71.5	17.5	66.7	W	13.5	NW	10.0	.74	.50	5.7 s., w	5.2 s., nw	

MARQUETTE, MICH.

[φ=46° 34′ N; λ=87° 24′ W; barometer above sea, 734 feet; gravity correction applied 0.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.21	29.06	8.3	24.0	28	8	7.0	70	21.6	69	SW	6	S	5	.01	T.	8 a. s., w	10 n., s	*
2	29.46	29.52	20.0	25.7	27	20	18.5	78	24.3	83	NW	12	E	10	.02	T.	10 n., nw	8 cu., c	*
3	29.37	29.42	29.8	30.9	36	27	28.2	83	30.2	92	S	10	NW	12	.01	T.	10 n., s	10 n., nw	*
4	29.60	29.47	22.3	26.2	29	22	21.0	82	24.0	72	NW	7	E	7	T.		6 a. s., w	8 cu., sw	
5	29.34	29.42	24.3	28.9	30	23	22.0	70	26.2	70	NW	5	NE	2			1 s., nw	Few s., 0	≡p.
6	29.43	29.25	28.0	34.5	36	27	24.2	57	32.8	84	S	3	S	22		T.	1 cu., s	10 n., s	*
7	29.01	29.07	37.0	37.0	45	34	86.0	91	33.0	66	S	6	N	2	.14		10 s., s	2 s., 0	≡°
8	29.44	29.57	26.0	31.0	34	26	24.0	75	29.7	86	NW	6	E	3			Few cu., nw	0	
9	29.56	29.46	29.0	37.2	44	28	27.8	87	33.1	66	S	10	S	18			10 s., s	8 s., s	
10	29.46	29.57	37.2	34.0	37	34	35.5	85	33.0	90	W	4	NW	11		T.	10 s., sw	D. fog, nw	
11	29.63	29.41	38.0	44.3	50	33	32.8	98	38.5	58	W	1	SW	25	T.		D. fog, 0	3 s., sw	
12	29.33	29.22	35.1	41.9	52	35	32.8	79	38.4	73	SE	7	SE	12			7 cu., sw	6 s., se	
13	29.21	29.41	36.2	26.0	41	21	35.0	89	25.3	91	NE	3	NW	18		T.	2 a. s., w	10 n., nw	≡p. *
14	29.65	29.67	17.7	20.5	22	18	16.3	78	19.0	78	NW	15	N	9	T.	T.	10 n., nw	8 cu., ne	*
15	29.60	29.44	27.3	34.0	35	22	25.0	73	30.7	69	NW	4	S	10			10 s., nw	10 s., s	
16	29.28	29.26	36.5	33.8	45	31	34.0	78	32.4	86	S	6	NW	11		T.	10 s., s	10 n., nw	*
17	29.38	29.40	32.2	34.0	35	31	31.7	95	32.9	90	NE	6	NE	2	.18		9 cu., ne	10 s., 0	
18	29.20	29.14	41.0	44.4	48	35	39.6	89	43.9	96	S	12	NW	7	.30	0.31	10 s., s	10 s., nw	≡p. ⌐
19	29.19	29.20	34.3	30.5	37	29	34.0	97	30.5	100	NW	7	N	11	.21	.14	D. fog, nw	10 n., nw	* ⌐
20	29.13	29.01	26.2	26.0	29	26	25.5	92	25.1	89	NE	8	NW	5	.58	.10	10 n., ne	10 n., nw	*
21	29.00	29.03	25.5	29.0	31	24	22.0	57	26.9	77	SW	17	NW	4	.01	T.	3 cu., sw	3 s. cu., nw	*
22	29.13	29.24	30.8	31.5	33	26	30.4	96	30.0	84	NE	4	NE	4			10 s., ne	10 a. s., 0	
23	29.18	28.96	32.2	35.3	37	31	32.0	98	33.8	86	N	4	N	5		T.	D. fog., n	10 n., n	*
24	28.69	29.06	29.2	26.9	33	27	29.2	100	25.0	77	SE	9	NW	19	.22	.06	10 n., se	10 n., nw	*
25	29.30	29.28	29.5	32.2	39	28	27.0	72	29.9	76	NW	16	SE	5	.01		7 cu., nw	2 s., se	*
26	29.17	29.23	39.0	30.1	41	30	34.6	65	28.5	83	W	13	N	8		.10	10 s., sw	10 n., n	*
27	29.42	29.42	25.0	25.8	30	24	21.3	53	23.5	72	N	10	N	3	.04		3 cu., n	3 s., 0	
28	29.57	29.73	28.0	26.0	28	23	23.0	44	23.0	64	NW	12	N	4			2 cu., nw	0	
29	29.69	29.39	26.7	36.2	42	24	23.0	55	30.0	46	SW	2	S	14			0	2 s. cu., s	
30	29.12	28.97	35.0	44.1	56	34	29.2	48	38.0	56	S	12	NW	2			9 s., w	7 s., nw	
31	29.08	29.20	34.7	30.6	39	27	30.8	65	29.1	84	NW	13	NE	3			9 cu., nw	5 s., 0	
Mn	29.32	29.31	29.6	32.0	37.1	26.7	27.5	77.4	29.8	77.8	NW	8.1	NW	8.8	1.73	.71	6.4 cu., s., nw.	6.6 s., nw	

APRIL, 1903.

1	29.08	28.85	28.5	36.7	37	27	26.6	78	35.9	92	S	10	S	12		0.04	10 s., w	8 a. s., se	*△
2	28.66	28.79	34.0	29.2	39	28	33.0	90	28.0	86	NW	5	NW	30	0.03	.60	10 n., 0	10 n., nw	≡a. *⌐
3	29.12	29.18	27.0	24.5	28	24	25.0	76	20.7	51	N	12	N	10	.01	T.	7 cu., n	0	*
4	29.39	29.43	24.0	24.5	25	23	20.0	49	21.0	56	N	15	SE	12	.01		7 cu., n	5 s., se	*
5	29.35	29.19	28.8	35.1	36	24	28.5	96	33.6	86	SE	20	SE	10	.25	.06	10 n., se	10 s., se	*
6	29.04	28.63	36.7	37.0	39	36	34.0	77	35.9	90	SE	13	SE	15		T.	10 s., se	10 n., se	
7	28.64	28.87	38.0	39.8	40	35	34.7	73	34.8	61	SW	15	W	9	.01		7 cu., sw	5 s., w	
8	28.96	28.94	38.7	54.5	59	34	34.8	69	41.6	28	W	4	S	10			0	8 cu., s	
9	28.96	29.31	47.0	42.0	51	42	39.6	51	36.4	58	W	18	N	4			0	0	
10	29.40	29.32	44.5	40.9	51	37	37.0	48	35.2	57	SW	6	E	9			Few s., 0	7 s., se	
11	29.19	29.19	40.5	38.0	42	35	33.5	46	36.3	98	SE	5	SE	14	T.	.07	10 n., se	10 n., se	
12	29.17	29.16	36.0	39.0	40	35	34.0	82	34.8	66	NE	11	NW	5	.10	.01	10 s., ne	10 s., nw	
13	29.15	29.13	38.0	37.0	40	37	34.0	67	33.7	72	NW	8	NW	13			10 s., 0	8 s. cu., nw	
14	29.11	29.18	34.5	34.1	37	34	31.0	68	32.8	88	N	16	NW	8		.30	10 s., nw	10 n., nw	*
15	29.28	29.34	35.5	38.1	39	35	31.0	60	32.9	57	N	18	NW	17	.02		9 cu., n	0	*
16	29.47	29.44	35.5	35.2	37	35	32.0	68	30.4	57	N	13	NW	10			0	Few s., nw	
17	29.39	29.17	42.0	46.0	53	34	34.0	41	36.8	39	W	3	NE	3			1 ci., w	2 s., 0	
18	29.12	29.08	43.7	42.0	47	37	35.7	44	35.0	48	NW	5	NE	1			0	5 s. cu., 0	
19	29.10	29.13	39.0	43.5	44	37	33.4	55	35.5	44	NE	2	E	1			6 a. s., w	7 s., 0	Lt. smoke, a.
20	29.28	29.38	38.0	34.0	40	34	32.0	51	27.7	42	N	8	NW	7			6 cu., nw	0	
21	29.37	29.36	31.2	36.8	39	31	29.8	85	30.1	82	N	15	NW	16	T.	T.	10 n., n	5 s., nw	*
22	29.40	29.31	34.7	34.8	40	34	29.5	53	31.9	74	N	11	E	2			0	2 a. s., 0	
23	29.23	29.23	45.6	40.5	52	37	36.0	36	36.8	70	W	5	N	5		T.	10 s., w	8 s., n	
24	29.24	29.38	34.0	35.4	41	33	33.0	90	32.8	77	NE	6	NW	10	.03	.09	10 n., ne	2 ci., nw	*
25	29.54	29.38	38.0	39.0	42	35	32.0	51	33.0	52	N	4	E	3			0	4 s., 0	1°
26	29.23	29.22	49.6	48.7	56	42	39.0	35	39.9	44	W	20	NE	2			2 a. s., w	3 s., 0	
27	29.25	29.06	54.3	67.2	71	47	43.7	40	50.5	28	SW	17	S	24			Few a. s., w	8 s., s	
28	29.07	29.33	58.0	37.3	70	34	49.0	52	35.0	80	SW	18	N	8		T.	8 s., sw	10 s., nw	
29	29.38	29.17	31.3	31.2	34	31	31.8	100	31.2	100	N	8	NE	26	.43	.51	10 n., n	10 n., ne	△
30	29.08	29.32	23.8	28.3	31	24	23.0	90	25.9	72	NW	18	N w	4	.64	.39	10 n., nw	7 cu., nw	△*⌐²
Mn	29.19	29.18	37.7	38.4	43.3	33.7	33.0	64.0	33.5	63.5	N	11.0	NW	10.0	1.53	2.07	6.1 s., w	5.6 s., nw	

MARQUETTE, MICH.

[φ=46° 34′ N; λ=87° 24′ W; barometer above sea, 734 feet; gravity correction applied 0.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	9 p. m.	
1	29.52	29.37	30.5	42.5	43	24	26.0	52	38.1	67	W	9	S	12	.....	.....	5 a. s., w	8 s. cu., s	
2	29.24	29.24	40.0	35.0	44	34	30.0	92	34.0	91	S	25	NW	10	0.26	0.35	10 n., s	10 s., nw	*
3	29.29	29.27	32.0	43.5	44	32	30.0	79	35.9	45	NW	4	E	2	.02	.....	6 cu., nw	3 s., 0	
4	29.15	29.20	41.7	41.0	53	39	39.5	83	38.8	82	S	16	E	1	.08	T.	10 s., s	10 s. cu., e	
5	29.16	29.27	42.8	41.0	58	39	40.8	85	39.0	84	SE	4	NW	12	T.	.08	10 n., s	5 cu., nw	
6	29.37	29.46	43.5	41.5	45	40	40.0	74	39.4	84	NW	9	N	3	.....	.....	1 a. s., w	Few s., 0	
7	29.52	29.38	44.0	57.5	60	39	37.0	51	45.0	34	W	2	S	13	.....	.....	Lt. smoke, w	Few s., s	
8	29.41	29.23	57.0	61.0	68	45	43.0	27	44.5	22	SW	4	S	16	.....	.....	0	5 a. s., s	
9	29.21	29.11	54.3	64.8	69	51	44.3	43	56.3	59	SW	12	SW	10	.....	T.	10 s., sw	10 cu., sw	
10	29.23	29.28	49.0	48.0	58	42	47.0	87	46.9	92	NW	4	S	3	.23	.24	10 s., nw	10 s. cu., s	
11	29.36	29.40	42.0	40.0	43	39	39.0	77	38.3	86	N	11	N	10	.08	.14	10 s., n	10 n., n	
12	29.32	29.49	42.0	40.3	70	39	41.0	92	39.5	94	SE	4	NW	10	.05	.30	10 s., sw	10 cu., nw	
13	29.55	29.49	35.0	42.5	46	34	34.3	93	38.5	70	N	16	N	6	.47	.....	D. fog, n	0	
14	29.42	29.27	43.0	50.0	52	41	37.7	61	43.0	56	NW	1	NE	1	.....	.....	0	3 s., 0	
15	29.29	29.17	47.2	67.5	68	45	42.5	68	51.0	30	NW	3	S	16	.....	.....	Lt. smoke, 0	Few s., s	
16	29.24	29.17	65.5	71.0	81	61	56.0	55	57.0	41	SW	17	S	15	.....	.....	0	Lt. smoke, se	
17	29.23	29.11	69.5	73.6	88	66	57.0	46	63.0	56	SW	21	SW	6	.....	.08	4 a. s., sw	7 cu., sw	
18	29.14	28.99	67.0	69.0	88	65	63.0	80	62.2	69	SW	15	SW	24	.34	.02	7 cu., w	8 cu., sw	
19	28.96	28.87	67.3	65.0	75	62	64.4	86	58.2	67	S	10	W	3	.10	.29	10 s., s	5 cu., w	
20	29.11	29.07	66.0	59.2	66	52	52.0	37	55.1	78	W	15	SE	3	.....	.24	Few s., w	4 cu., se	
21	29.22	29.24	58.7	62.2	64	56	48.3	46	49.0	37	NW	9	NE	1	.....	.....	4 a. s., w	Few s., 0	
22	29.32	29.34	45.0	47.0	57	45	41.0	71	42.5	69	NE	4	NE	4	.....	T.	10 s., w	10 s. cu., sw	
23	29.24	29.19	50.0	48.8	54	43	45.0	68	43.9	67	SE	19	SE	13	.....	.06	10 s., sw	10 s., se	
24	29.28	29.31	46.2	55.5	56	42	45.4	94	50.0	68	S	3	E	2	.01	.....	10 s., s	2 s., 0	
25	29.28	29.14	54.7	60.2	65	46	49.2	68	57.9	87	SE	12	S	9	.....	.03	9 a. s., w	10 s. cu., s	
26	29.09	28.90	57.4	64.7	70	51	55.9	91	60.9	81	S	1	S	10	.....	.06	9 s., s	8 cu., s	≡3a.
27	28.77	28.69	48.8	45.1	66	45	48.0	94	45.1	100	NW	5	NW	15	.81	.07	D. fog, n	10 n., nw	
28	29.14	29.35	49.5	46.5	50	44	46.0	77	40.0	56	NW	15	S	6	.83	T.	10 s., nw	5 s. cu., s	
29	29.51	29.56	42.4	44.5	44	41	39.8	80	37.2	49	NW	17	NW	6	.....	.....	0	Few s., 0	
30	29.66	29.60	42.0	48.1	48	38	37.0	62	39.2	42	N	8	N	4	.....	.....	Few a. s., w	7 s., n	
31	29.69	29.62	45.1	50.0	50	41	40.0	64	41.0	44	N	5	N	7	.....	.....	8 a. s., n	2 s., n	
Mn.	29.29	29.25	49.0	52.5	59.3	44.5	44.2	70.4	46.1	64.7	NW	9.7	S	8.2	3.28	1.96	5.6 s., w	5.5 s., s	

JUNE, 1903.

1	29.64	29.58	48.0	52.6	58	42	42.3	62	44.1	50	N	6	N	9	.....	.....	3 ci., w	4 ci., w	
2	29.63	29.55	52.0	61.3	65	47	46.0	63	50.7	47	NW	1	NE	4	.....	.....	0	0	
3	29.54	29.45	64.0	59.5	64	48	51.0	39	50.9	56	NW	1	E	1	.....	.....	0	0	
4	29.49	29.44	53.5	65.5	72	54	49.0	73	53.0	42	SE	1	NE	6	.....	.....	0	0	
5	29.50	29.44	59.0	65.4	69	56	52.5	65	54.8	50	NW	4	NE	1	.....	.....	Lt. haze	Few s., 0	
6	29.44	29.30	65.7	63.0	73	57	56.0	54	50.5	40	W	1	N	9	.....	.....	Lt. haze	Lt. smoke, 0	
7	29.19	29.03	67.0	73.0	86	59	56.0	50	62.0	54	S	2	W	4	.....	0.13	Lt. smoke, 0	6 cu., w	
8	29.09	29.08	63.3	58.6	70	50	53.8	53	50.9	84	W	2	NW	7	.....	T.	4 a. s., w	10 n., nw	
9	29.03	29.25	55.3	44.0	57	40	51.2	76	40.5	74	W	6	NW	17	0.16	.01	10 s., w	8 s., nw	
10	29.45	29.54	40.7	39.5	41	38	38.3	81	37.2	82	N	18	NW	14	.....	.....	10 s., n	10 cu., nw	
11	29.57	29.50	44.5	49.0	49	39	39.5	64	40.1	43	N	13	N	7	.02	.....	7 cu., n	0	
12	29.47	29.26	46.5	57.0	58	41	40.0	56	47.0	46	NW	3	NE	2	.....	.....	0	2 s., 0	
13	29.11	29.03	58.0	74.1	74	49	49.0	52	68.9	77	NW	5	NW	9	.....	.....	6 a. s., nw	4 s., nw	
14	29.03	29.10	55.5	59.8	63	58	50.5	71	52.5	62	NE	4	NE	1	.....	.....	Few cu., ne	3 s., 0	
15	29.16	29.13	61.7	53.0	78	50	54.0	61	52.0	94	SW	3	NW	6	.....	.07	7 a. s., w	10 n., se	
16	29.24	29.26	50.0	56.5	56	49	48.0	87	49.5	61	NW	18	NW	7	.26	.....	10 s., nw	Few s., nw	
17	29.18	29.11	51.8	52.2	56	50	47.0	70	48.0	74	W	1	E	2	.....	T.	10 s., n	10 cu., nw	
18	29.12	29.17	52.4	50.0	54	48	48.2	45	45.6	72	NW	3	NW	6	.....	.....	2 cu., nw	5 cu., nw	
19	29.19	29.13	49.5	50.5	51	44	44.0	64	45.2	66	N	6	N	3	.....	.....	2 a. s., w	3 s., 0	
20	29.14	29.11	48.8	54.5	55	43	48.2	64	53.0	91	N	8	NW	8	.....	T.	7 a. s., w	10 s., nw	
21	29.10	29.04	55.3	58.2	60	48	48.7	62	51.9	65	W	13	E	2	.....	.....	8 cu., w	5 a. s., 0	
22	28.99	29.13	59.7	48.5	60	48	54.0	70	48.0	96	SW	10	NW	5	T.	.65	9 s., sw	10 n., nw	≡p.
23	28.94	28.94	52.5	56.2	57	47	50.2	86	53.2	82	NW	18	NW	17	.13	.12	10 s., nw	10 n., nw	
24	29.06	29.14	50.0	57.6	61	48	49.0	93	54.1	80	NW	10	N	6	.39	.....	10 s., nw	3 s., n	
25	29.19	29.23	62.4	60.5	67	53	54.7	61	53.1	61	N	6	N	5	.....	.....	0	2 s. cu., n	
26	29.31	29.26	58.3	59.8	60	52	53.5	75	51.9	58	N	2	E	3	.....	.....	Few cu., n	5 ci. cu., w	
27	29.21	29.00	59.0	72.7	79	54	54.7	76	61.8	54	W	3	S	15	.....	.....	9 s., w	10 a. s., s	
28	28.88	28.89	65.0	66.0	72	61	59.5	73	57.8	61	SW	13	SE	8	.06	.01	9 s., sw	3 cu., se	
29	28.89	28.93	70.1	62.3	73	61	58.0	48	61.0	93	SW	14	SE	9	.....	.07	10 s., w	10 s. cu., s	
30	29.01	28.98	55.0	52.5	68	50	54.0	94	51.0	91	N	2	NE	3	.....	.08	D. fog, 0	7 cu., sw	
Mn.	29.23	29.20	55.8	57.6	63.5	49.3	49.7	66.3	51.3	66.9	NW	6.6	N	3.4	1.02	1.14	4.8 s., w	5.0 s., nw	

MARQUETTE, MICH.

[φ=46° 34′ N; λ=87° 24′ W; barometer above sea, 734 feet; gravity correction applied, 0.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.79	28.82	61.7	66.1	71	51	60.8	94	62.9	84	SE	4	NW	3	0.82	0.42	8 cu., se	10 n., s	≡◪
2	29.05	29.17	66.3	52.9	69	50	59.0	65	50.3	85	W	13	NE	3	.02		Few cu., w	8 s., 0	
3	29.16	29.17	52.0	58.5	59	49	51.2	95	57.6	96	N	5	NE	6	.19	.10	10 n., n	10 n., 0	≡
4	29.02	28.96	61.2	76.5	86	54	60.7	97	71.1	77	SE	5	S	10	.11	.94	10 n., se	5 ci. s., s	≡a.
5	29.21	29.26	64.0	64.8	78	58	57.5	68	55.9	57	SW	10	SE	3			0	2 cu., se	
6	29.36	29.22	72.6	78.8	85	62	63.0	60	65.8	50	W	15	S	28			Few a. s., w	3 ci. s., s	
7	29.25	29.09	68.4	86.2	94	64	63.0	74	70.0	44	E	7	S	11			0	0	
8	29.11	29.17	79.0	72.0	85	69	68.0	57	62.7	60	SW	12	NW	4			7 a. s., w	3 cu., nw	
9	29.20	29.08	71.5	55.2	72	53	58.2	45	53.9	92	W	3	NW	12		.30	Few a. s., w	10 s. cu., nw	◪
10	29.14	29.12	69.0	68.5	69	55	62.0	68	62.5	72	W	5	SW	5		.03	0	10 n., sw	
11	29.06	29.04	69.0	64.7	75	59	60.0	59	57.3	64	W	20	W	10	.03	.10	0	8 cu., w	
12	29.10	29.13	62.5	62.8	65	55	53.0	58	53.3	53	W	13	SE	2			0	10 s. cu., nw	
13	29.14	29.18	59.0	55.2	64	52	52.0	63	53.8	91	NW	11	NW	6		T.	9 cu., nw	7 cu., nw	
14	29.24	29.29	54.8	56.5	59	48	50.5	75	50.8	68	NW	20	N	12	T.		10 s., nw	5 cu., n	
15	29.35	29.30	60.7	61.0	64	49	52.3	56	54.5	66	NW	10	E	2			0	3 s., 0	
16	29.25	29.15	62.0	66.2	68	57	55.0	64	57.0	57	NW	2	E	1			7 cu., nw	2 s., 0	
17	29.08	28.97	66.0	68.2	70	63	60.7	74	63.0	75	SW	12	S	8	T.	.12	10 n., sw	8 s., s	
18	28.95	28.99	64.7	60.0	70	56	60.3	78	58.0	89	SE	6	NE	2	.01	.81	9 cu., w	8 s. cu., 0	◪
19	29.01	29.07	55.6	65.2	66	56	55.0	97	60.2	75	N	5	NW	7	.41	.02	10 s., n	3 s., nw	≡a.
20	29.15	29.08	65.7	68.8	72	61	57.0	59	60.0	60	NW	6	SE	2			0	5 s., se	
21	28.98	29.10	64.4	57.2	67	55	59.5	75	55.6	91	W	6	N	6	.03		10 s., w	10 s. cu., nw	
22	29.26	29.30	65.0	70.0	72	53	59.0	70	60.2	57	NW	4	E	2			0	2 s., 0	
23	29.37	29.36	72.0	72.0	78	62	59.7	48	62.8	60	W	4	SE	2			0	3 s., 0	
24	29.33	29.24	76.0	75.2	80	64	67.0	63	65.9	62	NW	4	E	1			2 ci. s., w	8 s., s	
25	29.11	29.31	69.0	54.0	74	53	65.5	83	53.0	94	SW	26	NW	9	.10	T.	10 n., sw	10 n., nw	≡p.
26	29.46	29.43	59.0	64.5	64	52	52.0	63	55.2	55	NW	8	E	2	T.		2 a. s., w	2 a. s., 0	
27	29.41	29.22	62.2	67.4	72	53	55.0	63	57.8	56	W	3	S	10			9 a. s., nw	10 s. cu., sw	
28	28.96	28.84	66.3	66.5	86	60	63.3	85	64.4	90	SW	13	SW	3	.96	1.20	10 s., sw	10 s., sw	◪
29	28.82	28.86	71.3	70.6	79	55	62.7	62	59.0	51	W	17	NW	13	.06		Few cu., w	7 cu., w	
30	29.10	29.30	51.0	56.1	58	50	48.8	86	50.3	67	NW	16	NW	10	.01	T.	10 n., nw	3 cu., nw	
31	29.46	29.46	58.3	58.0	58	50	51.8	64	53.0	72	W	3	NE	6			0	2 cu., ne	
Mn	29.16	29.15	64.5	65.1	71.9	55.7	58.2	69.8	58.6	70.0	W	9.3	NW	6.5	2.75	4.04	4.6 cu., w	6.0 s., nw	

AUGUST, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.53	29.50	62.4	62.1	64	54	55.0	62	58.5	81	NW	2	E	6			4 a. s., w	10 s., e	
2	29.55	29.47	57.2	60.0	62	57	53.8	80	58.6	92	SE	14	E	10	0.14	0.05	10 s., se	10 s., se	
3	29.44	29.27	61.0	60.0	62	57	59.3	91	59.0	94	SE	9	NW	7		.08	10 s., se	10 s., nw	
4	29.24	29.06	57.6	68.0	73	56	56.0	91	63.8	80	NW	7	S	8			10 s., nw	8 s., s	
5	28.87	28.85	67.6	69.5	73	63	60.7	67	63.8	74	SW	14	NW	10	.66	.01	10 s., sw	8 s. cu., w	◪
6	29.07	29.24	53.0	55.8	65	53	49.0	75	47.5	54	NW	22	NW	7	.06		10 s., nw	Few s., nw	
7	29.23	29.09	58.0	64.0	71	52	50.0	57	56.2	62	W	12	S	3			0	5 s., nw	
8	29.99	29.94	60.0	55.7	65	52	57.0	84	48.1	58	W	1	NW	3	.04		9 s., w	2 s., 0	
9	29.07	29.11	55.5	55.0	59	52	50.0	68	51.7	80	NW	1	E	3			8 s., nw	5 a. s., 0	
10	29.11	28.96	55.1	54.9	59	52	53.5	90	54.0	94	SE	7	N	12	.11	.64	10 n., se	10 cu., n	◪
11	29.14	29.30	53.3	54.8	56	51	51.8	91	51.0	77	NW	16	NW	16	.16	.08	10 s., nw	8 cu., nw	
12	29.38	29.35	54.0	58.0	58	51	50.0	76	51.8	66	NW	12	E	1			Few cu., nw	5 a. s., 0	
13	29.36	29.31	58.0	61.9	66	54	52.0	67	54.0	60	W	13	NE	4			6 a. s., w	8 s., 0	
14	29.39	29.32	60.0	62.5	66	55	54.0	68	55.7	65	W	3	N	3			0	7 s., 0	
15	29.34	29.30	61.3	64.0	67	60	53.3	84	57.9	70	SW	1	E	1			10 s., sw	3 s., e	
16	29.35	29.31	63.1	63.4	70	59	58.0	74	59.8	82	W	12	SE	2			9 s., nw	9 s. cu., sw	
17	29.28	29.14	62.4	73.7	74	62	60.6	90	67.0	71	NW	1	SW	11	T.	.02	10 n., nw	10 s., sw	
18	29.02	29.00	67.2	72.1	83	64	62.3	76	62.4	58	S	7	NW	9		T.	4 s., sw	3 cu., nw	◪
19	29.11	29.13	63.0	63.0	71	56	54.7	59	56.9	70	W	12	NE	1		.08	Few s., w	2 s., 0	◪
20	29.20	29.09	60.0	67.0	67	54	54.0	68	60.8	70	NW	5	S	14			Few cu., nw	5 ci., s	
21	28.82	28.80	70.7	78.1	87	62	62.0	61	67.0	57	SW	30	W	9	T.		1 cu., sw	3 cu., w	▽
22	29.07	29.12	58.2	54.3	69	50	51.5	63	49.1	69	N	10	E	1			9 a. s., w	2 a. s., 0	
23	29.19	29.20	55.4	57.0	60	49	49.4	65	52.5	74	W	5	N	3			9 cu., w	5 s. cu., n	≡a.
24	29.21	29.00	55.6	55.5	58	49	51.7	77	55.0	97	NW	3	SE	12		1.36	5 ci., w	10 n., se	◪
25	29.08	29.29	54.7	55.8	56	53	53.6	94	53.8	85	NW	12	NW	10	.22	.01	10 n., nw	10 s. cu., nw	
26	29.38	29.32	55.3	56.2	61	50	52.0	80	54.9	92	NW	8	E	6			9 s., nw	8 cu., e	
27	29.34	29.29	54.0	57.4	59	52	52.3	90	53.0	74	NE	4	N	4			10 s., ne	9 cu., ne	
28	29.25	29.26	57.0	56.0	58	55	52.0	72	54.0	88	E	5	E	18	.01	.13	10 s., e	10 n., e	
29	29.26	29.23	54.0	53.7	56	52	52.3	90	52.8	94	NE	11	NE	17	.45	.25	10 n., ne	10 n., ne	
30	29.22	29.25	54.7	56.7	57	52	52.5	87	52.7	77	NE	12	NW	6	.11		10 s., ne	Few s., nw	
31	29.29	29.27	57.7	59.0	65	52	52.7	72	55.0	78	NW	10	E	1	.01		0	2 s., 0	
Mn	29.22	29.19	58.6	60.8	65.1	54.5	54.3	76.4	56.1	75.6	NW	8.9	E	6.9	1.97	2.71	6.9 s., nw	6.2 s., nw	

MARQUETTE, MICH.

[φ=46° 34′ N; λ=87° 24′ W; barometer above sea, 734 feet; gravity correction applied, 0.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.25	29.14	61.4	69.7	76	56	53.3	59	62.0	65	SW	15	SW	4	.....	T.	9 s., nw	2 s., sw	
2	29.36	29.24	58.0	56.0	65	55	51.0	62	52.3	78	NW	10	S	7	T.	0.04	9 cu., w	9 s., nw	
3	29.00	29.10	67.7	66.6	74	59	62.8	76	58.3	61	SW	19	SW	18	.....	.....	2 cu., sw	10 s., sw	
4	29.34	29.39	53.0	50.5	59	49	46.5	61	45.5	68	NW	10	W	6	.....	.....	10 s., w	0	
5	29.36	29.38	52.4	49.0	63	44	44.1	60	45.4	77	W	19	NE	4	.....	.....	10 s., w	0	
6	29.43	29.32	50.0	55.8	59	42	42.7	54	49.6	65	W	6	SE	7	.....	.....	Few a. s., w	10 s., nw	⊸
7	29.28	29.17	52.3	56.2	56	51	51.3	94	54.0	87	SE	12	SE	20	.29	.11	10 n., se	10 s., se	
8	29.02	29.08	58.0	70.6	80	56	56.5	91	62.7	64	S	22	S	11	.05	T.	10 n., s	2 s., s	
9	29.14	29.16	66.0	65.0	71	60	58.0	62	55.6	55	W	9	SW	12	T.	.....	8 s., sw	10 s., sw	
10	29.04	29.16	58.7	56.5	68	54	53.0	69	52.5	77	SW	6	SE	8	.....	.....	1 cu., sw	9 s., nw	
11	29.22	29.32	59.7	58.7	76	55	53.6	68	55.5	83	SW	19	N	1	.....	.....	8 s., sw	10 s., n	
12	29.15	28.85	55.7	73.5	79	55	55.0	96	66.0	68	NE	5	S	25	.62	.01	10 n., ne	10 s., s	≡ a. ⌐4
13	29.11	29.30	52.0	52.8	69	50	43.5	49	46.0	59	W	12	NE	12	T.	.....	1 s., w	10 s., s	
14	29.31	29.35	49.0	50.0	51	47	46.5	83	47.0	81	N	4	NE	8	.50	.04	10 s., ne	10 s., ne	
15	29.31	29.12	51.0	53.0	53	48	50.0	94	52.3	96	E	12	N	1	.63	.11	10 n., e	10 s., n	≡
16	29.26	29.34	44.8	44.0	53	44	42.0	80	40.0	71	NW	15	NW	10	.03	T.	10 n., nw	10 s., nw	
17	29.27	29.25	41.4	40.5	45	39	39.0	80	37.0	72	NW	12	NW	8	.10	.13	7 s., nw	1 s., nw	
18	29.26	29.19	43.0	52.5	54	38	38.0	63	45.0	56	SW	14	S	20	.....	T.	10 s., w	10 n., s	⊸
19	29.22	29.14	50.0	63.0	71	47	46.0	74	57.6	72	SW	27	S	29	T.	.....	Few s., sw	2 s., s	
20	29.12	29.20	60.0	69.7	79	59	56.0	78	60.0	57	SW	33	NW	12	.....	.....	3 a. s., w	2 a. s., w	
21	29.44	29.45	58.0	55.5	65	51	48.0	47	47.0	52	NW	9	E	2	.....	.....	Few s., nw	Few s., 0	
22	29.38	29.04	58.2	75.0	82	50	51.0	61	63.0	51	S	6	SW	28	.....	.....	9 cu., sw	7 a. s., w	
23	29.14	29.35	48.0	43.5	72	42	41.5	57	37.5	56	NW	31	NW	14	.....	.....	6 cu., nw	1 cu., nw	
24	29.38	29.12	42.0	46.7	49	38	38.0	70	43.0	75	W	7	SE	7	.....	T.	Few cu., w	10 s., se	
25	28.92	28.68	50.0	69.7	71	49	44.5	65	59.5	55	SW	10	SW	22	.....	.....	10 s., sw	10 s., sw	
26	28.64	28.96	61.7	47.7	67	46	55.7	69	42.7	67	SW	27	NW	12	.....	.03	7 cu., sw	10 s., nw	
27	29.05	29.32	42.6	40.2	46	39	38.8	72	37.6	80	W	14	W	7	.....	.13	8 cu., w	8 cu., nw	⊸
28	29.46	29.45	41.1	43.7	51	39	38.0	77	39.0	66	W	11	E	1	.05	.....	1 cu., w	0	
29	29.42	29.29	50.8	57.0	68	38	44.1	61	51.2	67	S	4	S	12	.....	.....	Few a. s., w	Few a. s., w	⊸
30	29.18	29.10	61.0	61.0	63	57	54.0	64	58.5	86	SW	18	SW	4	.....	.06	10 s., sw	4 cu., sw	
Mn.	29.22	29.20	53.2	56.5	64.5	48.6	48.1	69.5	50.8	68.9	SW	13.9	{S (SW)}	10.6	2.27	.66	6.3 s., w	6.2 s., nw	

OCTOBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.29	29.50	49.7	46.0	62	46	47.5	86	42.5	75	NW	14	NW	9	.03	.....	10 s., nw	0	
2	29.60	29.38	47.0	52.4	61	43	43.0	73	47.5	69	S	5	SE	9	.....	.....	7 a. s., w	10 s., se	⌐
3	29.06	28.64	56.0	68.7	70	54	55.0	94	64.7	81	SE	17	S	28	.39	.29	10 n., sw	10 s., s	⌐4
4	29.11	29.19	49.7	47.6	66	43	43.2	59	43.0	70	W	11	NW	9	.....	.01	6 a. s., w	3 s., sw	
5	29.37	29.32	39.7	44.5	52	38	35.0	63	40.0	68	SW	12	E	5	.....	.....	0	Few s., 0	⊸
6	29.17	28.72	47.5	57.5	64	45	44.0	76	54.8	84	SE	9	SE	26	.....	T.	10 s., sw	10 s., se	
7	28.47	28.54	60.2	50.7	64	47	56.7	81	45.3	67	S	15	SW	14	.20	.18	10 s., s	10 s., w	
8	28.75	29.14	48.0	46.7	49	44	44.7	77	41.9	67	W	19	NW	5	.03	.03	10 s., w	7 cu., nw	
9	29.40	29.54	41.0	44.3	48	39	36.5	65	41.0	76	W	12	N	3	.....	.....	Few cu., w	0	⊸
10	29.64	29.51	42.5	47.4	55	37	39.0	74	41.8	63	S	6	SE	9	.....	.....	Few a. s., nw	0	⊸
11	29.46	29.38	47.5	52.3	63	45	42.5	66	46.0	61	S	11	S	9	.....	.....	1 ci. cu., w	0	
12	29.41	29.40	45.5	53.0	67	43	43.0	82	48.0	70	SW	8	N	3	.....	.....	0	0	◇
13	29.44	29.39	51.3	48.2	58	45	46.2	69	46.0	85	W	9	N	2	.....	.....	3 ci., w	0	
14	29.30	29.13	46.7	53.0	66	43	44.3	83	49.7	80	SW	2	SE	1	.....	.....	2 a. s., w	0	
15	29.02	28.93	47.2	54.0	55	46	46.0	91	50.5	79	SW	3	SW	9	.....	.....	10 s., sw	10 s., sw	
16	28.87	28.88	48.4	46.2	52	43	46.7	89	41.4	67	W	3	W	1	.03	.04	10 n., w	10 s., w	≡ a.
17	29.03	29.25	37.5	36.7	43	37	36.0	87	33.0	68	NW	16	NW	9	.24	.38	10 n., nw	2 cu., nw	✶△
18	29.21	29.04	38.0	40.7	42	35	35.0	75	36.4	67	W	10	S	7	.....	.....	10 s., w	0	
19	29.01	28.74	40.0	63.7	70	37	37.8	82	50.0	36	NW	5	W	16	.....	.....	7 cu., nw	5 cu., w	
20	29.10	29.27	45.0	45.5	54	44	38.7	56	37.5	46	NW	10	N	5	.....	.....	Few cu., nw	2 cu., n	
21	29.32	29.14	41.5	50.2	59	40	38.0	73	43.8	69	W	12	S	10	.....	.....	7 a. s., w	3 cu., s	
22	28.92	29.36	45.0	38.8	45	31	42.0	79	31.7	80	W	18	NW	21	.....	.28	10 s., nw	10 n., nw	✶
23	29.50	29.49	33.0	33.5	41	31	29.7	68	29.0	57	NW	9	NW	7	.01	T.	9 cu., nw	0	✶
24	29.25	29.10	38.3	52.0	63	33	32.0	49	42.5	44	SW	32	W	9	.....	.....	7 ci. s., w	0	
25	29.20	29.39	43.7	41.6	53	41	38.0	59	32.2	31	NW	12	NW	32	.....	.....	0	3 cu., nw	
26	29.63	29.66	33.5	33.0	41	33	31.5	80	30.8	78	NW	17	W	8	T.	.....	9 cu., nw	0	✶
27	29.49	29.32	41.2	55.0	62	38	31.3	26	40.0	20	W	15	W	19	.....	.....	10 s., w	0	
28	29.32	29.18	47.0	59.4	68	45	39.5	50	46.5	34	W	22	SW	10	.....	.....	3 a. s., w	0	
29	29.16	29.18	53.0	63.5	74	49	46.0	58	50.0	36	W	21	SW	8	.....	.....	0	0	
30	29.25	29.17	49.0	56.4	66	48	41.3	51	46.3	45	NW	6	S	12	.....	.....	Few s., nw	0	
31	29.29	29.35	46.0	50.0	55	45	43.0	79	43.3	58	W	9	S	3	.16	.....	0	0	◇
Mn.	29.23	29.20	45.1	49.3	57.7	41.4	41.1	71.0	43.1	62.0	W	11.9	NW	10.3	1.09	1.21	5.5 s., w	3.1 s., nw	

MARQUETTE, MICH.

[φ=46° 34′ N; λ=87° 24′ W; barometer above sea, 734 feet; gravity correction applied 0.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.43	29.38	46.3	55.0	68	46	39.0	51	42.0	29	W	16	SW	5			0	0	
2	29.37	29.31	50.0	62.6	66	49	43.2	57	53.8	57	W	12	W	8			Few s., w	0	
3	29.32	29.31	54.5	58.6	74	53	50.0	74	51.0	60	W	9	N	1			1 a. s., w	0	
4	29.15	29.26	53.7	41.2	69	38	49.0	72	35.2	54	W	15	N	20		T.	7 a. s., w	9 n., nw	
5	29.38	29.45	33.2	32.0	39	29	31.5	83	29.0	89	N	16	N	16	0.07	0.05	9 n., n	10 n., n	*
6	29.56	29.49	30.2	28.7	34	27	26.0	55	25.5	64	NE	5	S	8	T.	T.	10 s., ne	6 cu., nw	*
7	29.40	29.21	32.4	40.5	43	29	29.0	66	34.0	50	SW	13	S	11			8 cu., sw	8 cu., sw	
8	29.20	29.02	37.0	51.0	54	37	33.0	66	44.0	57	SE	5	SW	23			9 s., sw	0	
9	28.94	28.59	47.0	51.0	55	41	41.8	65	45.0	63	S	13	S	12			10 s., sw	6 cu., s	
10	28.93	28.95	37.2	38.0	46	37	34.5	77	35.0	75	W	15	SE	8	.01		10 s., w	0	
11	28.55	28.47	39.3	36.0	41	33	38.5	94	34.0	82	SE	2	NW	24	.24	.21	10 n., se	10 n., nw	*
12	28.83	28.75	28.5	33.0	35	28	26.5	78	32.0	90	S	10	W	11	.01	.35	9 s., w	8 cu., w	*
13	29.01	29.07	26.4	31.0	35	25	22.0	47	25.5	44	W	24	SW	19			0	0	
14	29.19	29.32	21.7	25.1	33	22	17.4	41	20.6	44	W	20	W	4			0	0	
15	29.39	29.21	24.6	32.0	34	22	22.0	68	29.5	74	W	9	SE	15			10 s., w	10 s., se	
16	29.06	29.00	33.0	33.5	35	32	32.0	90	33.0	95	SE	4	NE	5	.03	.43	10 n., se	10 n., ne	*
17	29.09	29.11	17.0	12.4	33	12	16.0	84	11.0	72	W	20	W	20	.22	.01	10 n., w	9 cu., nw	*
18	29.32	29.39	16.0	12.9	22	11	14.2	70	11.1	66	W	9	W	21	.23		2 s., w	3 cu., w	*
19	29.44	29.67	14.4	17.3	22	13	13.0	74	15.5	71	W	17	W	13		.01	Few cu., w	2 cu., w	*
20	29.77	29.63	15.4	23.7	25	14	13.6	69	19.8	50	W	13	SW	16			1 cu., w	10 s., s	
21	29.41	29.18	29.6	32.6	34	25	26.1	62	31.0	84	S	11	SW	15			10 s., s	10 s., sw	
22	29.24	29.11	35.7	31.6	36	30	32.3	70	31.4	98	N	15	NE	7		.03	10 s., n	10 n., ne	*
23	28.88	29.20	31.2	24.0	32	21	30.7	95	23.0	87	N	18	NW	14	.67	.12	10 n., nw	10 n., nw	*
24	29.39	29.48	16.0	17.1	21	16	15.4	90	15.5	74	NW	16	W	12	.23	.14	10 n., nw	10 n., nw	*
25	29.46	29.48	14.0	16.4	18	12	13.2	85	15.9	92	NW	18	NW	19	.04	.55	10 n., nw	10 n., nw	*
26	29.54	29.52	16.3	15.7	20	12	15.8	92	14.0	72	W	12	W	13	.14	.23	10 n., nw	10 s., nw	*
27	29.35	29.06	13.4	21.7	23	10	12.0	73	19.3	66	SW	7	SW	8			10 s., sw	10 s., sw	
28	28.89	28.81	28.3	31.0	33	23	26.6	80	31.0	100	W	6	NW	4		.03	10 s., w	10 n., nw	*
29	28.90	29.14	26.6	27.7	32	23	24.4	74	24.7	66	N	12	N	18	.25	.14	10 n., nw	10 n., nw	*
30	29.21	29.28	24.7	22.6	27	19	23.2	81	21.0	79	NW	9	W	12	.18	.01	10 n., nw	10 s., nw	*
Mn	29.22	29.20	29.8	31.9	38.0	26.3	27.1	72.8	28.4	69.5	W	12.4	W	12.7	2.32	2.31	7.2 s., w	6.7 n., nw	

DECEMBER, 1903.

1	29.34	29.36	20.0	20.8	30	18	18.0	70	19.8	86	W	14	W	12		0.01	9 cu., w	Few s., w	*
2	29.32	29.18	21.3	23.0	29	15	19.0	69	20.5	66	SW	12	S	17		T.	9 cu., s	5 s., w	*
3	29.03	29.00	27.9	30.0	31	24	26.4	82	28.0	78	SE	20	SE	23	0.03	.04	10 n., se	10 s., se	*
4	29.01	29.09	28.3	29.0	30	26	27.8	94	27.4	82	S	4	S	3	.15	.03	10 n., s	10 n., s	*
5	29.26	29.27	31.5	28.0	32	24	29.0	74	25.7	73	N	8	W	4	.02	.01	10 n., n	9 s., w	*
6	29.18	29.08	25.0	25.7	28	21	23.0	82	24.0	79	W	6	SW	4			10 s., w.	10 s., sw	
7	29.07	29.27	28.0	20.0	29	18	25.5	71	18.0	70	N	12	NW	12	.01	.10	10 n., n	10 n., nw	*
8	29.34	29.18	14.0	14.5	23	13	12.8	78	12.6	66	NW	13	SW	8	.07		2 cu., nw	0	*
9	28.94	28.85	16.5	25.0	26	13	16.0	92	24.5	94	S	1	NW	8	T.	.20	10 n., s	10 n., nw	*
10	28.84	28.84	22.2	22.5	26	18	20.5	76	20.3	70	NW	18	W	12	.51	.01	10 s., nw	10 s., w	*
11	28.95	29.13	11.0	10.0	18	8	9.6	71	8.0	57	NW	10	W	13	T.	T.	1 cu., nw	2 cu., w	*
12	29.11	29.08	13.0	4.4	18	− 2	12.0	81	3.0	63	W	6	NW	13			10 s., w	2 cu., w	
13	29.19	29.27	−11.0	− 9.0	− 2	−12	−11.5	72	− 9.9	56	SW	19	SW	28			Few s., sw	0	
14	29.45	29.41	− 6.0	4.1	8	− 9	− 6.8	65	2.4	54	SW	20	W	22			6 cu., sw	9 s., w	
15	29.36	29.33	10.5	12.0	19	3	9.5	79	10.9	78	W	12	W	9			4 cu., w	0	
16	29.32	29.38	11.0	17.0	20	11	9.4	67	15.0	67	NW	19	NW	15	T.	.01	10 n., nw	1 cu., nw	*
17	29.46	29.45	15.0	17.5	24	15	14.0	82	15.0	60	W	15	NW	8			Few cu., w	10 s., nw	
18	29.37	29.18	21.0	31.1	32	19	17.0	44	27.3	60	S	16	SE	27			9 s., s	10 s., se	
19	28.92	28.86	35.0	32.7	36	31	33.4	85	31.7	90	S	14	NW	14	.11	.02	10 n., s	10 n., nw	*△
20	28.88	28.85	30.1	26.4	31	25	27.7	74	24.4	75	NW	12	SW	3	.01	.02	10 s., nw	9 cu., sw	*
21	28.57	28.94	28.0	18.0	30	17	25.7	74	17.0	84	SW	15	NW	17	.01	.11	10 s., sw	10 n., nw	*
22	29.18	29.98	16.2	21.0	23	10	15.0	79	17.3	53	NW	10	SW	28	.02	.02	10 n., w	10 s., sw	*
23	29.04	29.17	31.4	26.0	32	23	28.7	72	24.0	75	SW	9	W	5		.03	10 s., w	10 n., w	*
24	28.89	28.90	15.7	12.6	23	8	14.3	76	11.0	69	S	9	W	19	T.	.01	Few s., s	6 s., w	*
25	28.92	29.16	0.0	− 2.4	8	− 2	− 1.4	55	− 2.8	85	W	13	NW	22	.07	.09	8 cu., w	10 n., nw	*
26	29.15	28.78	− 1.0	2.4	5	− 4	− 1.6	79	1.5	74	W	13	SW	13	.11	.02	5 cu., w	10 n., sw	*
27	28.82	29.23	7.6	5.7	14	3	7.0	86	5.0	83	NW	28	NW	18	.18	.16	10 n., nw	10 n., nw	*
28	29.24	29.03	8.4	12.0	14	1	7.2	72	11.0	80	SW	12	S	7	.01	.02	2 s., sw	10 n., s	*
29	28.94	29.30	15.0	16.0	25	12	13.4	72	15.2	86	NW	20	NW	17	.01	.21	10 n., nw	10 n., nw	*
30	29.20	29.13	9.0	15.5	17	9	8.0	85	14.4	80	S	9	NW	25	.02	.01	10 s., w	10 n., nw	*
31	29.13	29.01	14.3	18.5	23	8	13.3	82	17.0	76	SW	15	W	8	T.	.01	10 s., sw	Few cu., w	*
Mn	29.11	29.12	16.4	17.1	22.6	11.9	14.9	75.5	15.5	73.2	NW	13.0	NW	14.0	1.34	1.14	7.6 s., w	7.2 n., w., nw	

CHICAGO, ILL.

[φ=41° 53′ N; λ=87° 37′ W; barometer above sea, 823 feet; gravity correction applied, −.01.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.28	29.30	25.7	37.3	42	25	24.2	82	33.5	68	SW	22	S	9	.....	.....	Few ci. s.,0 (?).	0	
2	29.17	28.83	34.1	33.0	35	31	31.5	76	33.0	100	NE	14	NE	18	.....	0.28	10 a. s., ne	10 n., ne	✱
3	28.86	28.94	34.5	28.8	35	23	33.2	88	23.3	94	NW	12	SW	18	0.07	T.	10 s., nw	10 n., sw	✱
4	28.90	28.91	24.5	28.0	29	23	23.1	82	26.5	82	SW	12	W	8	T.	T.	10 n., w	10 n., w	✱
5	28.94	29.04	28.8	20.3	29	19	28.4	95	19.3	85	N	12	NW	14	.06	.01	10 n., n	0	✱
6	28.99	28.51	17.6	23.5	28	15	17.1	92	23.0	94	W	12	S	36	T.	T.	1 a. s., nw	10 n., s	✱
7	28.24	28.72	29.0	26.0	34	22	27.7	85	24.5	82	W	24	NW	18	T.	.02	10 n., w	10 s., nw	✱
8	28.93	29.01	12.2	11.0	22	8	10.8	72	10.2	83	NW	28	W	22	T.	T.	10 s., nw	10 s., w	✱
9	28.96	29.10	9.4	7.4	16	4	8.0	69	6.2	71	NW	20	W	20	.....	.....	0	0	
10	29.23	29.08	0.6	16.2	16	0	0.0	81	15.0	79	W	14	S	20	.....	.....	Few a. s., w	10 ci. s., w	▽
11	28.74	28.95	15.7	2.0	16	− 4	15.5	97	1.4	82	N	10	W	30	.14	.06	10 n., n	Few ci., w	✱
12	29.21	29.36	− 1.3	2.0	3	− 6	− 1.5	93	1.4	82	W	16	W	20	.....	.....	5 a. s., w	0	
13	29.37	29.30	5.9	20.0	21	0	5.4	87	18.5	78	SW	14	S	20	.....	.....	10 a. s., w	10 s., s	
14	29.33	29.27	18.0	24.0	28	16	17.2	87	22.5	81	N	8	W	24	.....	.....	6 s., nw	10 s., w	
15	29.07	29.13	27.7	33.5	36	27	27.4	96	32.5	90	W	28	W	18	.....	.....	Few s., w	0	
16	29.04	28.91	29.5	37.0	40	28	29.0	94	35.0	83	SW	20	W	22	.....	.....	2 s., sw	0	
17	29.02	29.22	27.8	22.5	33	15	25.8	77	19.5	60	NW	18	NW	18	.....	.....	0	0	
18	29.36	29.50	10.3	14.4	17	9	8.9	70	12.5	65	NW	15	N	5	.....	T.	Few s., 0 (?)	3 n., n	✱
19	29.48	29.26	20.6	28.0	28	16	19.8	88	24.8	64	S	12	S	18	T.	T.	10 n., sw	0	✱
20	29.13	29.10	23.0	33.0	35	22	22.6	94	29.6	67	SW	24	W	6	.....	.....	Few ci. s., sw	8 a. s., sw	
21	29.12	29.08	15.5	24.0	27	13	14.8	88	22.0	74	NW	8	W	9	.....	T.	10 s., nw	10 s., w	✱
22	28.95	29.09	19.0	27.5	32	16	17.6	78	26.0	82	S	30	N	18	.....	.06	4 ci. s., w	10 n., n	✱
23	29.38	29.32	23.2	24.0	29	21	22.8	95	23.5	94	N	16	E	24	T.	T.	4 s., n	10 s., e	✱
24	29.16	29.10	24.0	24.8	25	21	23.2	90	24.3	94	E	24	E	12	T.	.10	10 n., e	10 n., e	✱
25	29.19	29.15	24.8	28.9	32	23	24.3	94	27.9	89	SE	6	S	18	T.	T.	10 s., se	10 s., s	✱
26	29.04	29.03	35.0	43.5	45	31	33.4	85	41.0	82	S	22	SW	24	.....	.....	3 ci. s., w	10 s., sw	
27	29.14	29.04	35.0	40.6	43	35	35.0	100	40.6	100	NE	15	W	4	.05	.22	10 n., ne	10 n., w	≡²
28	29.04	28.77	40.0	47.7	50	38	40.0	100	47.7	100	S	12	S	20	.02	T.	D. fog, s	10 n., s	≡p.
29	28.54	28.72	46.0	30.8	51	23	46.0	100	30.3	95	SW	17	W	36	T.	T.	10 s., sw	10 s., w	≡a. ✱
30	29.08	29.26	13.6	21.0	23	11	11.6	63	18.5	64	W	24	W	23	T.	.....	Few s., w	0	
31	29.19	28.94	28.8	37.2	40	22	26.6	75	33.0	65	S	12	S	24	.....	.....	8 a. s., w	6 ci. s. w	
Mn.	29.07	29.06	22.5	25.6	30.3	17.6	21.6	86.2	24.1	81.6	sw w nw	16.8	W	18.6	.34	.75	5.6 s., w	6.4 n. s., w	

FEBRUARY, 1903.

1	28.83	28.89	37.9	41.4	42	38	37.1	93	40.8	95	SW	20	S	8	.....	.....	10 s., sw	10 s., s	
2	28.83	29.18	41.5	34.0	43	30	41.5	100	30.5	67	W	30	NW	12	T.	.....	10 s., w	0	≡a.
3	29.12	28.78	27.8	31.0	32	27	27.8	100	31.0	100	NE	24	NE	34	0.10	0.50	10 n., ne	10 n., ne	✱△
4	28.30	28.93	28.0	21.3	32	17	27.5	94	19.3	71	SW	36	NW	20	.60	.13	10 n., sw	0	✱
5	29.31	29.35	10.6	21.7	25	11	9.6	79	19.2	65	W	20	SW	20	.....	.....	Few s., w	0	
6	29.44	29.43	14.0	25.5	26	13	13.4	89	24.0	82	W	13	N	8	.....	.....	1 a. s., sw	4 a. s., w	
7	29.41	29.07	26.2	28.8	29	25	24.0	73	28.8	100	E	17	E	30	T.	.01	10 n., sw	10 n., e	✱
8	28.89	29.16	28.5	24.3	28	20	28.4	99	22.5	77	N	12	W	12	.52	.01	10 n., n	0	✱
9	29.27	29.21	24.8	33.5	35	19	24.2	93	32.0	86	SW	12	SW	25	.....	.....	10 s., w	0	
10	29.14	28.95	34.0	39.8	41	33	32.0	81	37.8	84	SW	30	S	24	.....	.....	2 a. s., w	10 s., sw	
11	28.66	28.80	36.0	37.9	40	35	35.5	95	36.0	91	SW	10	W	19	.30	.04	10 n., sw	10 s., w	≡a.
12	28.99	29.12	33.8	33.5	37	32	32.4	87	32.0	86	W	18	NW	8	.....	T.	10 a. s., w	10 s., nw	
13	29.33	29.44	26.0	26.0	32	25	24.2	78	24.0	75	NW	10	N	11	.....	.....	7 a. s., w	0	
14	29.48	29.36	24.4	28.2	28	24	22.6	77	27.0	88	E	15	NE	22	.....	T.	7 a. s., w	10 s., ne	✱
15	29.26	29.09	26.3	21.0	27	13	25.9	95	20.2	89	NE	24	N	23	.19	.33	10 n., ne	10 n., n	✱
16	29.12	28.98	4.0	4.8	13	1	3.2	78	4.4	89	N	24	NW	23	.05	T.	3 a. s., sw	0	✱
17	29.04	28.97	− 9.5	0.0	1	−11	−10.0	74	− 0.6	80	NW	17	SW	22	.....	.....	0	0	
18	29.19	29.51	− 6.5	4.7	6	− 9	− 7.0	78	4.1	84	W	24	W	24	T.	.....	Few s., w	0	✱
19	29.63	29.42	− 0.4	12.0	14	− 2	− 0.6	93	11.8	96	W	11	SW	32	.....	T.	6 a. s., w	10 n., sw	✱
20	29.51	29.27	12.4	23.5	26	10	12.2	96	22.5	87	W	8	SW	32	.04	.....	0	0	✱
21	29.30	29.53	19.2	20.0	27	17	18.0	82	18.5	78	W	15	NW	15	T.	T.	0	0	✱
22	29.57	29.32	12.3	28.0	30	11	9.3	42	25.7	73	SW	12	SW	38	.....	.....	3 a. s., sw	0	
23	29.30	29.56	30.8	29.0	36	27	28.5	76	26.5	72	W	24	N	15	.....	T.	10 a. s., w	10 n., n	✱
24	29.58	29.52	24.0	32.5	34	23	22.0	74	29.5	70	NW	9	W	9	T.	.....	1 s., nw (?)	0	✱
25	29.58	29.53	26.2	34.0	37	26	25.0	86	31.5	77	W	4	SW	12	.....	.....	0	0	
26	29.52	29.29	31.0	40.5	42	31	30.0	89	38.5	84	SE	3	SE	24	.....	.....	3 a. s., sw	0	≡a.
27	28.88	28.65	45.4	47.8	49	38	44.4	93	47.8	100	S	30	S	12	.20	.01	10 s., s	D. fog, s	≡a.
28	28.50	29.08	35.8	28.0	45	21	34.6	89	22.5	93	SW	20	NW	18	.....	T.	7 a. s., sw	10 n., nw	≡a. ✱
Mn.	29.18	29.18	23.0	26.7	30.6	19.5	22.0	85.1	25.3	83.5	W	17.6	SW	19.7	2.00	1.03	5.7 a. s., w	4.1 n., sw	

CHICAGO, ILL.

[φ=41° 53′ N; λ=87° 37′ W; barometer above sea, 823 feet; gravity correction applied −.01.]

MARCH, 1903.

Day	Pressure. 8 a. m.	Pressure. 8 p. m.	Air temperature. 8 a. m.	Air temperature. 8 p. m.	Air temperature. Max.	Air temperature. Min.	Moisture. 8 a. m. Wet.	Moisture. 8 a. m. R. H.	Moisture. 8 p. m. Wet.	Moisture. 8 p. m. R. H.	Wind. 8 a. m. Dir.	Wind. 8 a. m. Vel.	Wind. 8 p. m. Dir.	Wind. 8 p. m. Vel.	Precipitation. 8 a. m.	Precipitation. 8 p. m.	Clouds (amount, kind, direction). 8 a. m.	Clouds (amount, kind, direction). 8 p. m.	Miscellaneous.
1	29.37	29.28	14.4	28.3	29	13	13.0	74	26.5	79	W	20	SW	36	T.	.....	Few s., sw	Few a. s., sw	*
2	29.38	29.41	26.0	38.0	41	26	24.0	75	34.5	71	SW	20	SW	19	.....	.....	Few cl. s., w	0	
3	29.47	29.44	28.6	38.5	39	28	28.2	95	37.5	92	S	20	SW	14	.....	T.	7 a. s., sw	10 s., sw	*
4	29.45	29.27	36.8	36.4	39	35	35.2	86	36.4	100	SE	3	E	15	.....	0.08	10 a. s., sw. (?)	10 n., e	≡p. *
5	29.23	29.34	34.0	32.7	38	32	33.6	96	31.7	90	N	17	NE	12	0.03	.....	10 s., n	0	≡a.
6	29.33	29.16	33.5	42.1	46	32	33.0	95	42.1	100	E	15	SE	22	.01	.02	10 n., e	10 n., se	≡
7	28.94	29.12	51.0	46.7	56	44	51.0	100	43.7	79	W	8	W	5	.34	.42	10 n., sw	8 a. cu., sw	≡a. ⌐
8	29.30	29.44	34.0	33.4	44	33	32.0	81	32.4	90	N	17	NE	15	.....	.....	1 a. s., nw	0	
9	29.45	29.38	34.0	39.0	41	33	33.4	94	38.5	96	SE	10	SE	10	.....	T.	Few ci. s., w. (?)	10 s., se	⌐
10	29.33	29.42	36.8	39.5	40	36	36.6	98	39.0	96	NE	13	N	19	T.	.05	D. fog, ne	10 s., n	
11	29.58	29.54	37.3	39.2	40	35	36.6	94	37.7	88	N	12	SE	8	.....	.....	10 a. s., w. (?)	10 s., se	
12	29.47	29.33	38.2	43.0	44	38	37.2	91	41.0	85	SW	15	SW	22	.....	.....	10 s., sw	10 s., sw	
13	29.32	29.25	38.0	56.0	60	37	37.5	96	51.0	71	SW	15	S	15	.....	.....	0	0	
14	29.38	29.40	34.6	32.8	53	32	34.6	100	32.8	100	N	20	NE	20	T.	T.	10 n., n	10 n., e	≡a.—°
15	29.43	29.34	33.8	33.2	45	32	33.6	98	33.0	98	NE	18	NE	10	T.	.....	10 s., ne	10 s., ne	≡a. ≡p. ☔ ≡
16	29.24	29.10	37.8	56.0	57	35	37.8	100	53.0	82	SE	5	S	12	T.	.....	D. fog, se	10 s., s	
17	29.17	29.20	53.6	36.6	55	36	53.0	96	36.6	100	S	5	NE	15	.05	T.	10 n., s	D. fog, ne	≡a.
18	29.18	29.14	57.0	68.2	74	42	56.5	97	62.0	70	S	24	S	20	T.	.....	7 a. s., sw	2 a. s., sw	
19	29.14	29.02	61.8	70.0	73	59	60.5	93	64.0	72	S	30	S	27	.01	T.	7 s. cu., sw	10 s., s	⌐
20	28.96	29.08	50.3	34.0	59	28	49.3	93	32.5	86	NW	12	SW	24	.28	.24	10 n., nw	10 s., sw	*
21	29.18	29.06	26.7	44.0	44	26	24.2	70	40.0	71	SW	20	S	22	T.	.....	1 a. s., sw	0	
22	29.13	29.07	36.2	47.0	54	36	33.4	75	41.0	60	SW	20	SE	24	.....	.....	0	1 ci. s., sw	
23	28.92	28.80	36.5	31.2	44	30	35.0	87	29.7	84	E	10	SW	48	.....	.04	2 ci. s., s	4 s. cu. sw	*
24	28.87	29.13	27.1	34.0	34	26	26.4	92	32.5	86	SW	48	W	26	.02	T.	10 n., sw	10 s., w	*
25	29.35	29.33	29.6	44.0	47	29	27.8	80	40.0	71	W	12	SW	12	T.	.....	0	0	
26	29.31	29.14	37.0	57.6	61	36	34.0	74	49.1	54	SW	20	SW	17	.....	.....	0	6 a. s., sw. (?)	⌐
27	29.26	29.30	35.0	31.5	53	31	34.3	93	31.0	95	NE	20	NE	9	T.	.08	10 n., ne	10 n., ne	* △
28	29.41	29.54	34.6	32.0	36	32	32.0	76	29.5	74	NE	8	NE	21	T.	.....	Few a. s., w. (?)	0	⌐ ⌐
29	29.58	29.33	31.2	35.0	38	30	30.0	87	32.0	73	SE	24	NE	18	.....	.....	0	0	⌐
30	29.15	28.98	35.2	42.0	43	34	33.0	80	36.5	59	NE	8	E	10	.....	.....	Few a. s., sw	0	
31	29.00	29.04	45.4	41.5	54	39	41.0	69	38.0	73	W	15	SE	12	.....	.....	2 a. s., w	0	
Mn	29.27	29.24	37.0	41.4	47.5	33.4	35.7	88.2	38.9	82.1	SW	16.3	{sw ne}	18.0	.74	.93	4.7 a. s., sw	5.2 s., sw	

APRIL, 1903.

Day	Pressure. 8 a. m.	Pressure. 8 p. m.	Air temperature. 8 a. m.	Air temperature. 8 p. m.	Air temperature. Max.	Air temperature. Min.	Moisture. 8 a. m. Wet.	Moisture. 8 a. m. R. H.	Moisture. 8 p. m. Wet.	Moisture. 8 p. m. R. H.	Wind. 8 a. m. Dir.	Wind. 8 a. m. Vel.	Wind. 8 p. m. Dir.	Wind. 8 p. m. Vel.	Precipitation. 8 a. m.	Precipitation. 8 p. m.	Clouds (amount, kind, direction). 8 a. m.	Clouds (amount, kind, direction). 8 p. m.	Miscellaneous.
1	29.00	28.77	43.0	61.8	64	41	40.0	78	53.4	57	SE	24	S	26	.....	0.33	8 a. s., w	6 a. s., s	⌐
2	28.60	28.58	58.5	65.0	77	41	55.0	80	58.0	66	SW	24	NW	28	.....	T.	10 a. s., w	10 a. s., w	⌐
3	28.79	29.02	31.8	31.7	41	28	31.5	97	31.2	95	NE	48	NE	20	0.24	.10	10 n., ne	Few s. cu., ne	*
4	29.32	29.39	30.0	31.0	32	29	25.5	52	27.5	63	NE	15	SE	18	.....	.....	8 a. s., nw	0	
5	29.38	29.15	31.7	45.7	49	30	28.2	64	39.6	58	S	16	SE	26	.....	.....	2 ci. cu., w	10 a. s., sw. (?)	⊕
6	28.95	28.77	44.6	58.0	58	42	39.5	64	53.0	72	S	26	SW	29	.....	T.	Few a. s., w	10 s., sw	
7	28.94	28.87	40.6	60.0	63	40	37.0	72	48.0	40	W	24	SW	20	.....	.....	Few ci., w	Few s. cu., sw	—
8	29.00	29.00	46.8	59.0	64	46	40.0	55	49.0	48	NW	13	S	13	.....	.....	0	7 a. cu., w	
9	29.10	29.21	51.6	44.0	65	43	45.0	60	40.0	71	W	13	E	10	.....	.....	0	0	
10	29.27	29.03	42.2	44.3	49	42	39.6	80	44.3	100	E	24	SE	34	.....	.36	10 a. s., w	10 n., se	
11	28.85	28.84	51.0	69.0	72	45	50.0	94	64.5	79	SE	15	SW	10	.80	.13	8 a. s., w	2 ci., w	≡a. ⌐
12	28.81	28.76	41.2	41.2	51	40	41.0	98	41.0	98	NE	24	NE	26	.06	.42	10 a. s., nw	10 s., ne	≡p. ⌐ ▲
13	28.68	28.64	42.0	38.0	43	37	42.0	100	38.0	100	N	20	NE	42	.02	.34	10 n., n	10 n., ne	≡a.
14	28.60	28.74	36.6	38.1	38	36	36.1	95	38.1	100	NE	48	NE	36	.29	.04	10 n., ne	10 n., ne	
15	28.87	29.01	38.3	39.8	40	38	38.0	98	38.3	88	NE	24	NE	30	.11	.01	10 n., ne	10 s., ne	≡a
16	29.13	29.20	38.8	39.0	40	38	36.4	81	36.5	80	NE	27	NE	24	.....	.....	Few a. s., ne	0	
17	29.30	29.14	41.5	47.6	47	39	39.0	80	40.9	54	N	7	SE	10	.....	.....	0	0	⌐
18	29.07	28.93	47.0	46.0	58	44	41.6	64	42.0	72	SW	13	SE	10	.....	.....	Few ci., w	7 a. cu., w	—
19	28.87	28.88	48.0	45.1	55	44	45.0	80	43.6	89	SE	20	NE	25	.01	.08	10 n., se	4 ci. cu., nw	
20	29.04	29.10	44.0	43.0	49	42	41.4	81	39.5	74	N	12	NE	13	.....	.....	5 a. s., ne	0	
21	29.16	29.18	35.6	37.0	45	34	34.0	86	35.0	83	NE	24	NE	20	.06	T.	10 s., ne	5 a. s., w	* △
22	29.19	29.21	36.4	38.0	40	32	35.0	88	36.0	83	NE	20	NE	12	T.	T.	10 s. cu., ne	0	⌐ ⌐
23	29.24	29.14	38.6	46.7	51	36	34.3	65	39.7	54	W	6	SE	14	.....	.....	0	5 a. s., n	⌐° ⌐
24	28.96	28.94	46.6	46.5	63	40	44.0	82	45.0	89	S	30	NW	14	.05	.01	5 a. cu., w	8 s. cu., nw	
25	29.15	29.27	39.7	39.5	42	39	39.2	96	37.0	80	NE	30	NE	23	.09	.07	10 n., ne	0	
26	29.31	29.24	43.0	49.0	52	38	38.5	67	41.6	53	N	6	SE	12	.....	.....	Few ci., n	Few ci., nw	—
27	29.36	29.24	49.0	63.5	67	45	43.0	61	53.5	52	S	12	S	24	.....	.....	0	0	—
28	29.26	29.19	54.0	71.8	74	52	48.0	65	59.8	49	S	24	S	24	T.	.....	4 a. s., sw	0	
29	29.20	29.01	61.8	72.0	78	60	55.0	65	61.0	53	SW	26	S	30	T.	.....	4 a. cu., sw	3 ci., w	
30	28.90	29.34	40.6	38.0	67	35	40.0	95	33.5	63	N	20	NW	14	.10	.05	10 n., n	1 s. cu., nw	*
Mn	29.04	29.03	43.2	48.3	54.5	39.9	40.1	78.1	43.6	72.1	NE	21.2	NE	21.2	1.83	1.94	5.3 a. s., w	4.3 a. s., w	

CHICAGO, ILL.

[φ=41° 53′ N; λ=87° 37′ W; barometer above sea, 823 feet; gravity correction applied −.01.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.54	29.38	36.2	49.8	51	33	33.4	75	43.0	57	S	14	S	20	.....	.....	9 a. s., nw	2 ci., w	⊐
2	29.27	29.03	44.5	51.2	60	40	40.0	68	46.4	70	S	18	NE	12	.....	T.	4 ci. s., w	10 a. s., sw	⊐
3	29.15	29.29	39.5	46.8	49	39	38.5	92	44.0	81	NW	15	SE	10	0.01	.....	10 s., nw	Few ci. s., 0 (?)	⊐
4	29.31	29.19	44.1	60.8	63	42	39.7	69	48.2	37	SW	24	S	17	.....	T.	5 a. cu., w	5 a. s., w	
5	29.21	29.20	51.0	63.3	69	48	44.5	60	50.4	39	S	22	SW	20	.....	.....	5 ci. s., w	6 a. s., sw	
6	29.25	29.28	55.5	43.9	61	44	49.5	66	42.0	86	SE	12	N	24	T.	T.	10 s., se	2 a. s., sw	
7	29.39	29.29	43.7	43.8	47	42	42.8	93	40.2	73	NE	12	NE	23	.....	.....	Few ci. s., sw	0	
8	29.31	29.15	46.4	49.6	54	45	42.9	75	44.0	64	E	14	NE	15	.....	.....	0	1 ci., w	⊐
9	29.17	29.08	56.0	60.2	68	52	50.0	71	48.2	40	S	8	SE	17	.....	.....	5 ci. s., w	3 a. s., sw	
10	29.13	29.05	62.3	70.5	75	61	54.5	61	56.5	40	S	8	SE	20	.....	.....	3 ci. cu., w	3 ci. s., sw	
11	29.16	29.14	64.8	66.6	76	61	55.1	54	58.4	61	S	18	SE	23	.....	T.	3 a. cu., sw	6 a. cu., s	
12	29.21	29.22	60.0	71.4	73	57	54.0	68	58.5	46	SE	14	E	4	.....	T.	7 a. s., se	5 a. s., s	⊓◪
13	29.29	29.24	49.9	45.3	66	44	47.2	83	44.5	94	N	8	N	24	.....	.....	5 ci. s., s	9 ci. s., s	
14	29.19	29.12	45.5	48.4	53	45	45.5	100	46.2	85	N	14	N	20	.....	.....	D. fog, n	0	
15	29.18	29.12	50.3	54.0	59	47	48.0	86	46.2	55	N	8	NE	20	.....	.....	0	1 ci. s., w. (?)	
16	29.22	29.16	60.1	64.0	71	53	51.6	5[b]	54.0	52	SE	12	E	20	.....	.....	2 a. s., se	1 a. s., sw	
17	29.19	29.13	67.8	79.8	85	65	58.4	5[c]	62.9	38	S	15	S	17	.....	.....	Few a. s., sw	5 ci. s., w	
18	29.17	29.04	69.2	76.0	81	66	62.0	6[d]	65.8	58	S	24	S	20	.....	0.01	6 s. cu., sw	3 ci. s., sw	
19	28.98	28.98	67.5	76.8	81	64	64.2	8[e]	60.0	36	S	24	W	20	.....	.....	6 a. s., sw	0	
20	29.15	29.08	67.0	76.8	81	62	56.5	5[c]	63.2	47	SW	10	S	24	.....	.....	1 a. s., sw	5 ci. s., w	
21	29.11	29.02	67.4	67.3	75	59	65.2	89	63.6	82	S	14	S	3	.....	.01	Few ci., w	10 n., sw	◪
22	29.07	29.07	58.8	76.0	81	56	58.8	100	69.8	73	SE	10	S	5	.27	T.	D. fog, se	3 s. cu., sw	
23	29.09	29.04	69.0	77.0	80	59	66.4	88	69.4	69	S	14	W	20	.01	.03	9 s., s	5 ci., sw	◪
24	29.23	29.20	63.8	50.0	72	49	52.6	93	50.0	100	N	8	NE	4	.....	T.	10 s., nw	D. fog, ne	
25	29.17	29.07	50.9	63.0	78	49	50.9	100	61.3	91	NE	3	S	7	.....	.30	D. fog, ne	7 ci. s., sw	▲◪
26	29.04	28.95	67.8	77.2	81	59	65.3	88	69.8	69	SW	22	SW	22	T.	.....	10 a. s., sw	9 ci, w	
27	28.81	28.85	67.2	69.2	74	64	65.4	91	64.5	78	S	29	W	22	.03	.09	10 n., s	2 ci. s., w	◪
28	29.09	29.16	61.3	58.0	70	53	58.0	82	55.3	85	W	6	NE	8	.....	.15	8 a. s., w	7 ci. s., w	◪
29	29.19	29.20	55.0	52.6	57	52	54.4	96	50.2	85	NE	15	NE	24	T.	.....	9 s., ne	10 a. s., se	≡a.
30	29.27	29.26	50.7	50.0	57	48	46.1	71	46.0	74	E	33	NE	38	T.	.02	10 s., e	10 a. s., sw	
31	29.26	29.21	47.3	52.3	53	46	44.5	81	49.5	82	NE	36	NE	24	T.	T.	9 a. s., e	10 n., e	
Mn	29.19	29.14	55.8	61.0	67.8	51.7	51.8	77.9	53.9	66.0	S	15.6	NE	17.6	.32	.61	5.0 a. s., sw., w.	4.5 a. s., sw	

JUNE, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.23	29.21	48.5	53.0	53	48	47.5	93	52.0	94	NE	24	NE	24	T.	0.01	10 s., ne	10 n., e	
2	29.28	29.32	53.6	57.0	59	52	51.8	89	53.8	82	E	14	NE	15	0.01	.10	9 n., e	3 a. s., e	
3	29.36	29.27	55.5	55.1	60	53	52.0	79	48.6	62	E	12	NE	22	.....	.....	2 a. s., se	7 ci. s., s	
4	29.33	29.28	57.7	60.4	66	56	53.8	78	58.2	88	E	3	NE	13	T.	T.	8 a. s., e	9 a. s., se	
5	29.31	29.27	55.0	55.2	62	52	54.1	96	54.2	94	N	6	NE	20	.51	T.	10 n., n	5 ci. s., se	
6	29.27	29.20	55.8	60.6	63	52	54.0	89	53.6	64	NE	8	NE	20	T.	.....	0	2 ci. s., e (?)	
7	29.15	29.02	62.0	76.0	77	60	56.0	69	66.0	59	N	8	W	5	.....	.....	9 s. cu., n	6 ci. s., w	Lt. smoke, a.
8	29.04	28.99	69.5	60.8	72	58	62.5	68	58.2	61	N	8	E	5	.....	.....	0	3 a. s., sw	
9	29.06	29.09	59.5	59.4	67	57	56.0	81	55.0	76	NW	12	SE	10	.05	.....	Few s. cu., nw	6 a. s., w	
10	29.24	29.34	49.3	47.0	63	45	48.0	91	44.0	79	N	22	NE	24	.....	T.	10 s., n	6 a. s., w	
11	29.41	29.36	46.2	47.8	48	45	42.5	74	40.8	54	NE	17	NE	23	.....	.....	7 a. cu., nw	9 a. s., n	
12	29.34	29.19	47.5	54.8	56	44	45.9	83	45.0	45	N	14	N	8	.....	.....	1 a. s., nw	0	
13	29.06	28.95	57.5	72.0	73	49	49.5	56	58.8	45	NW	20	W	13	.....	.....	2 ci. s., n	3 a. s., n	
14	28.95	29.02	64.2	68.0	81	60	61.7	87	57.2	52	NW	16	SE	3	.....	.....	6 a. cu., nw	8 cu., nw	
15	29.09	29.06	68.7	67.2	73	59	57.5	50	57.1	54	SE	8	E	11	.....	.....	1 a. s., w	2 a. cu., w	
16	29.07	29.14	66.4	52.4	72	52	59.9	68	49.6	83	NE	12	NE	18	.....	.21	7 a. s., nw	1 ci. s., w (?)	◪
17	29.20	29.10	56.0	70.0	71	52	49.5	63	56.2	41	N	2	W	16	.....	.....	0	Few ci., w	
18	29.06	28.97	59.4	75.2	78	56	52.0	61	61.3	45	SW	18	SW	12	.....	.....	4 ci. s., w	7 ci. s., w	
19	28.94	28.84	67.0	55.3	76	55	56.8	53	54.6	96	SW	5	NE	13	.....	.03	Few ci., w	10 n., sw	
20	28.89	28.97	50.5	55.0	59	50	50.3	99	50.4	73	N	24	N	16	.02	T.	10 s., n	2 a. s., nw	
21	29.05	28.96	57.2	59.6	64	52	49.3	57	50.0	50	N	12	NE	14	.....	.....	Few ci., w. (?)	9 a. s., w	≡a.
22	28.87	28.88	55.0	56.3	57	54	55.0	100	53.8	85	NE	24	N	9	.35	.33	10 n., ne	5 ci. s., w	
23	28.91	28.93	54.6	65.4	68	51	51.3	80	55.3	52	NW	12	NW	14	.....	.....	2 ci. s., w	2 a. s., nw	
24	28.96	29.02	59.7	57.8	66	55	53.7	68	54.0	78	NW	10	NE	10	.....	.....	Few ci., w	3 a. s., nw	
25	29.14	29.15	60.0	62.0	64	55	54.6	71	54.6	62	W	5	E	8	.....	.....	Few ci., w	5 ci. s., w	
26	29.20	29.12	59.1	64.2	66	57	55.6	81	56.2	61	NE	14	N	20	.....	.....	3 ci. s., w	5 ci. s., sw	
27	29.15	29.02	62.3	69.0	72	59	57.4	75	58.4	53	NE	12	NE	13	.....	.....	8 a. s., 0 (?)	5 ci. s., w	
28	28.99	28.89	67.1	71.2	74	64	59.5	64	67.2	82	W	5	SE	7	.....	.....	Few ci., w	4 ci. s., w	
29	28.91	28.94	71.2	83.8	86	68	62.3	61	67.6	43	SW	14	W	15	.....	.....	4 a. cu., sw	7 a. s., w	
30	29.03	28.95	72.8	68.0	90	67	67.0	74	63.5	78	SW	24	E	20	.....	.....	8 a. s., w	6 ci. s., w	
Mn	29.12	29.08	59.0	62.0	67.9	54.6	54.2	75.2	55.0	66.4	N	12.8	NE	14.0	.94	.68	4.4 a. s., w	5.0 a. s., w	

CHICAGO, ILL.

[φ=41° 53′ N; λ=87° 37′ W; barometer above sea, 823 feet; gravity correction applied −.01.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.88	28.88	76.0	87.0	92	73	70.0	74	69.0	40	SW	24	W	12	.....	.....	5 a. s., w	4 ci. s., sw	
2	29.02	28.98	78.4	86.4	90	71	69.5	82	73.8	55	S	8	SW	13	0.08	0.03	9 s., w	5 ci. s., w	
3	29.10	29.04	76.8	88.6	91	75	71.8	79	72.0	44	SW	17	S	13	.....	T.	4 ci. s., w. (?)	7 ci. s., w	
4	29.06	29.05	78.0	75.2	91	70	72.0	75	72.3	87	S	26	SW	10	.....	.28	5 ci., sw	9 a. s., sw	
5	29.26	29.26	68.8	68.2	72	64	62.0	69	61.0	66	N	8	SE	12	.....	.....	Few ci., w	2 ci., w	
6	29.36	29.28	71.7	77.2	78	68	62.5	60	63.8	48	S	10	SE	16	.....	.....	0	0	
7	29.31	29.19	71.6	78.2	82	71	65.1	71	66.2	53	SE	7	SE	14	.....	.....	Few a. s., 0 (?)	6 ci. s., sw	
8	29.20	29.14	79.7	76.0	92	72	67.2	52	70.0	74	SW	11	W	24	.....	.11	4 ci. s., w. (?)	10 n., w	
9	29.19	29.05	73.3	87.0	90	70	69.9	84	76.2	61	W	10	S	15	.03	.....	8 a. s., w	10 ci. s., w	
10	29.09	29.07	73.2	72.2	76	68	66.7	71	69.2	86	SW	16	E	13	1.09	T.	10 a. s., sw	8 ci. s., w	
11	29.08	29.02	70.9	74.6	76	68	62.8	64	69.0	76	W	11	S	8	.73	.....	2 a. cu., sw	3 a. s., w	
12	29.06	29.06	68.0	69.7	75	66	61.7	70	61.0	61	NE	16	E	5	.....	.....	6 s. cu., w	3 s. cu., nw	
13	29.13	29.08	62.8	73.2	75	59	54.6	59	58.2	40	N	8	NW	9	.....	.....	0	1 s. cu., nw	
14	29.14	29.16	64.9	63.6	69	61	57.6	65	56.0	62	NW	6	E	12	.....	.....	4 a. cu., w	1 ci., nw	
15	29.26	29.24	62.4	62.9	65	61	55.1	63	55.6	63	NE	12	NE	11	.....	.....	4 s. cu., ne	6 ci. s., w	
16	29.21	29.13	65.0	69.0	70	61	58.7	69	62.0	68	S	5	E	8	.....	.....	6 a. cu., nw	2 ci. s., nw	
17	29.08	28.63	69.4	67.0	76	65	63.4	72	65.3	91	S	16	SE	48	.....	.72	1 a. s., w	10 n., se	
18	28.91	28.96	62.3	76.0	77	62	60.2	89	66.0	59	N	17	W	10	.51	.....	10 s., n	3 cu., w	
19	28.98	28.98	65.8	71.2	76	63	60.8	76	62.7	62	W	14	NW	12	.....	.....	2 cu., w	8 s. cu., w	
20	29.07	29.09	62.9	67.6	72	61	59.2	81	63.1	78	NW	8	SE	7	.....	.....	0	7 ci. s., nw	
21	29.04	28.98	65.9	71.0	81	64	60.9	78	61.3	57	S	16	NE	8	T.	.28	6 a. s., nw	2 s. cu., nw	▲
22	29.16	29.23	65.1	64.5	70	63	60.6	78	60.6	80	N	10	NE	11	.....	.....	Few a. s., nw	5 ci., nw	
23	29.32	29.31	66.2	70.2	71	63	63.7	87	61.6	62	NE	6	NE	7	.....	.....	2 ci. s., ne	0	
24	29.35	29.26	70.3	73.8	76	67	64.8	75	66.5	69	NE	4	SE	7	.....	.....	0	3 ci., nw	
25	29.29	29.20	73.4	86.8	90	71	64.6	62	68.8	40	SW	12	W	12	.....	.....	1 ci. s., w	4 ci., nw	⊕
26	29.45	29.26	75.2	64.8	79	65	67.7	68	62.4	88	N	4	NE	15	.....	.....	8 ci., nw	5 a. cu., nw	
27	29.29	29.16	68.2	71.0	73	65	66.7	93	65.6	75	SE	15	E	12	.....	.....	8 a. s., w	2 a. s., w	
28	29.06	28.93	72.8	77.0	89	70	67.2	75	69.0	67	SW	18	NW	30	.....	.01	7 a. s., w	10 n., w	
29	28.92	28.91	69.6	68.2	81	65	66.5	85	64.0	80	W	17	E	4	.86	.05	Few ci. s., w	7 a. s., w	
30	29.07	29.21	61.2	63.3	71	60	57.2	79	59.8	82	NW	12	NE	15	.....	.....	2 ci., s., w	5 ci. s., w	
31	29.35	29.33	64.5	63.0	66	61	56.5	62	57.2	71	SE	11	NE	14	.....	.....	6 s. cu., n	5 ci. s., w	
Mn.	29.14	29.10	69.3	73.0	78.5	65.9	63.5	73.1	64.8	66.0	{S / SW}	12.1	NE	13.1	3.30	1.48	3.9 a. s., w	4.9 ci. s., w	

AUGUST, 1903.

1	29.40	29.30	62.4	70.3	70	62	56.2	68	66.3	81	SE	30	SE	20	.....	.....	2 ci. s., w	3 ci., sw	
2	29.34	29.35	65.3	74.2	77	63	63.0	88	70.2	82	SE	16	SE	6	0.06	.....	1 ci. s., sw	3 ci. s., sw	
3	29.38	29.15	73.7	73.5	86	67	67.7	74	70.0	84	S	12	SE	4	.....	0.10	6 ci. s., w	10 a. s., w	
4	29.14	29.07	70.0	67.0	70	66	67.5	88	65.3	91	NW	6	NE	9	.99	.....	8 ci. s., w	4 ci., w	
5	29.10	28.94	69.5	72.5	80	67	65.0	79	66.5	73	N	28	W	14	.01	.07	10 n., n	1 a. s., sw	
6	29.04	29.12	66.5	71.5	74	65	62.1	78	60.0	51	NW	11	NE	12	.....	.....	Few a. s., 0 (?)	Few a. s., nw	
7	29.28	29.17	61.0	64.1	65	60	53.5	61	56.6	63	NE	10	SE	9	.....	.....	2 s. cu., nw	7 a. s., w. (?)	
8	29.05	28.95	62.8	69.3	72	61	56.0	66	61.3	64	SW	12	SW	12	.....	T.	8 a. s., w	9 s. cu., nw	
9	29.00	29.04	62.4	64.6	67	60	59.2	83	57.2	64	N	12	E	13	.....	.....	2 a. cu., w	3 ci. s., w	
10	29.05	29.01	62.8	71.0	79	62	54.8	60	60.0	53	S	10	NW	22	T.	T.	8 a. s., w	3 ci., w	
11	29.12	29.18	56.5	64.0	65	55	53.2	81	58.3	71	NW	16	E	8	.....	.....	0	7 ci. s., w	
12	29.27	29.24	61.0	61.8	64	60	57.7	82	56.0	70	SE	6	E	20	.01	T.	8 s., e	9 ci. s., w	
13	29.25	29.18	62.5	66.3	67	61	55.5	64	62.6	82	SE	12	E	15	.....	T.	9 a. s., se	3 a. s., s	
14	29.26	29.21	66.0	68.5	70	65	61.0	76	64.0	78	SE	14	E	20	.....	.....	2 ci. s., w	4 a. s., s	
15	29.17	29.14	65.4	64.6	69	59	56.5	58	63.6	95	S	12	E	8	T.	.68	8 a. s., sw	10 n., nw. (?)	
16	29.20	29.20	64.5	67.0	70	64	63.2	93	63.7	84	NE	13	NE	15	.01	.....	9 s. cu., w	Few a. s., nw	
17	29.25	29.18	67.8	70.3	73	65	65.0	86	64.8	75	E	8	E	8	.....	.....	Few a. s., 0 (?)	1 ci., sw. (?)	
18	29.13	29.02	66.9	78.8	88	65	60.0	67	66.2	51	SW	12	SW	12	.....	.....	0	1 a. s., w. (?)	
19	29.01	29.04	69.3	68.5	74	67	67.8	93	63.8	78	N	12	NE	12	T.	T.	7 a. s., w	Few s. cu., ne	
20	29.12	29.11	67.0	69.4	75	64	67.5	56	64.4	77	NW	7	SE	8	.....	.....	Few a. s., 0 (?)	2 ci., n	
21	29.14	28.99	65.4	78.6	84	64	58.0	64	65.6	50	SW	22	SW	26	.....	.....	2 ci. s., w	7 a. cu., nw	
22	29.06	29.03	68.8	80.6	84	67	62.6	71	69.3	56	SW	18	SW	9	.....	T.	6 a. s., w	9 s. cu., w	
23	29.01	28.94	73.6	85.5	90	73	65.2	64	72.5	54	SW	14	SW	24	T.	.....	8 a. s., nw	4 a. s., w	
24	29.01	28.97	74.2	81.4	92	70	69.7	80	73.0	67	S	4	SW	19	.....	T.	Few a. s., w	8 ci. s., w	
25	29.02	29.13	73.8	67.6	88	66	69.6	81	65.8	91	W	15	NE	16	T.	T.	10 n., sw	8 a. s., w	
26	29.22	29.10	62.8	63.6	68	62	58.3	77	61.2	88	NE	12	E	20	.....	.08	10 s. cu., ne	10 n., sw	
27	28.98	28.96	64.8	64.2	70	63	64.3	97	63.0	94	E	17	NE	24	.87	.18	10 n., e	10 s., ne	≡ra.
28	28.96	28.97	65.6	65.2	67	63	63.4	92	64.2	95	NE	2	NE	8	.12	.02	9 s., ne	2 ci. s., w	
29	28.93	29.02	64.2	62.5	69	58	62.0	89	58.8	80	W	16	NW	15	.24	.05	4 s., w	10 s., nw	
30	29.06	29.11	56.7	60.0	62	55	53.4	81	57.6	87	NW	10	NW	9	.....	T.	10 s. cu., nw	10 n., nw	
31	29.15	29.19	58.0	63.2	64	57	55.3	85	57.0	69	NW	13	NE	12	T.	.....	9 a. cu., n	1 a. s., n	
Mn.	29.13	29.10	65.5	69.3	73.6	63.1	60.8	76.8	63.5	74.1	NW	12.8	{E / NE}	13.8	2.31	1.18	5.4 a. s., w	5.1 a. s., w	

CHICAGO, ILL.

[φ=41° 53′ N; λ=87° 37′ W; barometer above sea, 823 feet; gravity correction applied −.01.]

SEPTEMBER, 1908.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.24	29.22	61.1	69.2	70	60	55.6	71	60.3	60	W	12	SW	7	.....	.....	0	Few a. s., nw	
2	29.28	29.24	63.1	75.3	79	61	57.9	72	65.1	58	W	19	SW	10	.....	.....	4 ci. cu., nw	4 ci. s., nw	
3	29.23	29.16	64.8	79.0	84	64	59.8	77	68.0	57	SW	24	S	10	.....	.....	2 ci. s., sw	4 ci., w	
4	29.18	29.24	66.7	63.0	73	62	62.0	77	58.8	78	W	12	NE	20	....	0.05	7 a. s., w	5 a. s., w	⌐◪
5	29.29	29.25	62.2	62.0	65	61	53.7	57	53.0	55	NE	22	NE	17	0.01	T.	7 s., nw	3 ci. s., nw	
6	29.32	29.18	62.0	65.0	65	60	56.0	69	56.8	61	SE	11	SE	24	.....	.....	4 ci. s., nw	10 s., nw	
7	29.08	28.98	63.1	80.0	86	61	56.9	69	68.1	54	S	26	S	12	.....	.....	4 ci. s., w	1 a. s., sw	
8	29.07	29.12	71.3	77.3	82	71	64.8	71	65.5	53	S	13	S	20	T.	.....	8 s., sw	5 a. s., w	
9	29.18	29.12	70.8	64.2	77	63	66.8	82	62.7	92	W	14	E	9	T.	.20	10 a. s., sw	10 a. s., sw	⌐◪
10	29.08	29.18	56.8	63.2	65	56	56.0	95	55.5	61	N	18	S	7	1.31	.03	10 n., n	0	⌐◪
11	29.26	29.19	61.0	68.0	73	58	58.5	86	66.3	92	SE	10	SE	10	.....	.....	5 s. cu., se	5 ci. s., w	
12	29.15	29.02	70.1	79.0	85	69	66.6	83	68.0	57	S	25	S	30	.....	.....	2 a. s., sw	4 ci., sw	
13	29.20	29.13	59.2	67.0	76	59	57.0	88	66.5	97	NE	7	E	8	.66	.14	10 n., w	9 a. s., w	≡p. ⌐◪
14	29.11	29.12	70.5	67.6	80	65	69.2	94	66.5	95	SW	18	NE	16	.17	.07	10 n., sw	10 n., sw	⌐◪
15	29.11	29.08	67.7	73.0	78	66	66.9	96	69.3	83	SE	12	S	6	.84	.04	7 s., se	9 a. s., sw	⌐◪
16	29.20	29.22	54.4	51.0	66	49	52.4	88	47.4	77	NW	12	NW	20	T.	.09	10 n., nw	10 s., nw	
17	29.17	29.27	45.9	49.6	53	45	42.6	77	43.8	63	N	19	W	12	.01	.....	1 a. s., nw. (?)	2 a. s., nw	
18	29.37	29.34	42.2	55.4	58	40	39.3	78	48.8	62	W	12	S	15	.....	.....	1 ci., w	0	⌐
19	29.37	29.29	51.0	66.0	72	50	45.7	67	56.0	53	S	24	S	24	.....	.....	3 a. s., sw	0	
20	29.37	29.31	56.8	71.8	77	56	49.3	59	58.3	44	SW	22	SW	12	.....	.....	0	0	
21	29.37	29.36	59.6	74.4	79	58	52.0	60	61.3	47	SW	15	SW	9	.....	.....	Few ci., sw. (?)	0	
22	29.40	29.28	64.0	74.7	80	62	56.5	63	60.2	43	W	11	SW	13	.....	.....	0	0	
23	29.13	29.24	63.3	58.0	71	53	55.8	62	47.3	44	SW	23	N	20	.....	.....	Few ci., n	1 s. cu., n	
24	29.30	29.18	46.2	55.3	56	45	42.4	73	49.8	68	N	12	S	10	.....	.....	2 s., n	0	
25	29.08	28.94	49.4	68.6	74	49	43.0	59	54.4	39	SW	24	S	24	.....	.....	Few ci., nw	Few ci., w. (?)	
26	28.88	28.88	60.4	58.0	78	49	53.4	63	55.2	84	S	38	N	24	....	T.	3 a. cu., sw	10 a. s., w	
27	29.20	29.28	44.0	54.6	57	44	41.0	78	45.8	50	W	14	W	11	.36	.....	0	Few cu., w. (?)	
28	29.44	29.37	51.8	57.0	59	49	44.8	58	51.6	70	NE	5	NE	20	T.	.....	9 a. s., ne	1 a. s., sw	
29	29.40	29.33	54.0	69.3	74	53	50.2	77	56.2	44	SW	12	S	14	.....	.....	Few ci. s., sw	6 a. s., w	≡a.
30	29.28	29.17	61.1	68.6	72	61	58.2	84	65.0	83	S	17	SW	24	T.	.02	10 a. s., sw	7 a. s., w	
Mn	29.22	29.19	59.1	66.2	72.1	56.6	54.5	74.5	58.4	64.1	(w., sw.)	16.8	S	15.3	3.36	.64	4.3 a. s., sw	3.9 a. s., w	

OCTOBER, 1908.

1	29.19	29.30	65.7	58.4	74	58	63.8	90	57.8	96	SW	18	NE	24	0.04	.....	4 a. s., sw	10 s., né	≡p.
2	29.39	29.28	59.1	62.0	64	58	57.1	89	61.0	94	NE	8	SE	15	.....	.....	10 s., ne	10 a. s., w	
3	29.16	28.92	66.9	78.8	83	63	64.0	86	68.5	59	S	22	S	36	.....	.....	7 ci. s., w	10 ci. s., w	⌐◪
4	29.18	29.17	55.0	60.0	66	54	51.0	76	55.0	73	NW	12	W	8	.40	.....	3 ci., sw	9 ci. s., sw	⊕
5	29.31	29.25	55.0	55.4	58	55	52.0	82	53.0	86	NE	17	NE	16	.....	.....	9 s., ne	Few ci. s., sw	
6	29.07	28.74	60.3	69.3	74	57	56.8	81	63.0	71	SE	17	S	35	....	T.	5 a. s., sw	3 ci. s., sw	
7	28.66	28.77	58.6	55.0	70	51	57.5	94	46.0	49	S	19	W	22	.38	0.11	10 n., sw	1 a. s., w	
8	28.91	29.17	50.4	53.0	55	48	47.4	81	48.0	70	W	18	W	12	.....	.....	9 a. cu., nw	3 a. s., nw	
9	29.34	29.40	43.2	53.0	53	43	41.0	83	46.3	60	N	14	NE	16	.....	.....	Few a. s., n. (?)	Few ci., w. (?)	
10	29.47	29.36	49.5	52.6	55	50	44.8	70	48.8	76	E	25	NE	18	.....	.....	Few a. cu., e	3 ci. s., w	
11	29.35	29.27	51.0	56.7	57	50	48.0	81	52.5	76	E	12	NE	24	.....	.....	1 s. cu., e	0	
12	29.32	29.32	53.6	53.8	56	52	51.1	85	50.7	81	SE	6	E	15	.....	.....	5 s. cu., e	Few a. s., s	
13	29.36	29.29	54.8	55.4	58	54	52.8	88	54.3	93	SE	7	NE	14	.....	.....	2 ci. s., e	3 s., ne	
14	29.21	29.01	55.2	58.1	59	55	52.8	86	54.8	81	E	8	E	12	....	.03	6 ci. s., se	7 a. s., s	
15	28.92	28.89	54.0	58.0	63	53	52.0	88	54.8	82	SW	12	W	10	T.	.08	9 a. s., sw	8 n., w	▲⌐◪
16	28.98	28.96	52.1	51.8	56	50	50.0	87	45.2	60	W	22	W	20	.04	.....	10 s., w	8 a. s., w	
17	28.94	29.21	45.2	45.8	51	41	42.7	82	39.5	57	W	17	N	17	.....	.....	10 s., nw	1 s., n	
18	29.30	29.11	35.3	50.6	53	35	33.6	85	43.0	53	W	10	SW	26	.....	.....	Few ci. s., w	10 a. s., w	⌐
19	29.04	28.96	43.7	59.8	66	43	40.5	76	51.8	58	W	22	W	24	.....	.....	6 ci. s., n	0	
20	29.08	29.21	55.1	56.2	58	53	50.6	74	46.0	44	N	18	S	3	.....	.....	3 a. s., w	Few ci., w	
21	29.27	29.15	51.2	62.4	67	50	46.6	71	52.0	49	S	20	SW	12	.....	.....	Few a. s., sw. (?)	0	
22	29.11	29.29	52.4	48.7	56	43	48.4	75	40.5	48	W	17	NW	15	.....	.....	3 ci. s., w	8 s., nw	
23	29.42	29.47	36.5	40.3	43	36	32.9	68	33.3	46	N	15	N	18	.....	.....	2 a. s., nw	5 s. cu., n	
24	29.46	29.25	34.0	45.0	49	33	29.5	58	37.3	47	W	12	SW	20	.....	.....	Few a. s., 0 (?)	0	⌐
25	29.15	29.27	38.1	52.2	55	37	34.6	71	46.5	65	W	18	N	12	.....	.....	Few ci. s., w	0	
26	29.53	29.62	40.9	42.6	48	39	34.7	52	36.0	55	N	24	N	8	.....	.....	3 s. cu., n	0	
27	29.63	29.47	34.6	46.8	52	33	29.8	56	38.2	43	W	14	W	20	.....	.....	0	0	
28	29.45	29.33	37.5	54.9	61	38	33.5	66	42.8	33	W	16	W	24	.....	.....	0	0	⌐
29	29.34	29.26	43.0	60.0	64	43	36.1	50	44.5	25	W	22	S	17	.....	.....	Few ci., w	3 ci., sw	⊕
30	29.20	29.23	51.4	61.0	62	50	46.4	69	53.3	60	SW	14	S	13	T.	.01	10 s., sw	8 a. cu., sw	⊕
31	29.26	29.31	52.0	60.8	66	52	48.7	79	55.4	72	SW	18	SE	2	.....	.....	8 a. cu., sw	3 a. s., sw	∞p.
Mn	29.23	29.20	49.5	55.4	59.7	47.6	46.2	76.7	49.0	63.3	W	15.9	W	17.0	.86	.23	4.4 a. s., sw	3.5 a. s., w	

CHICAGO, ILL.

[φ=41° 53′ N; λ=87° 37′ W; barometer above sea, 823 feet; gravity correction applied −.01.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R.H.	Wet.	R.H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	29.37	29.34	55.2	61.0	61	54	52.0	81	54.0	64	W	1	E	12	.....	.....	8 a.s., sw	3 a.s., w (?)	
2	29.31	29.30	53.8	56.6	59	53	52.4	92	54.2	86	NE	13	NE	14	.....	.....	5 ci., s. (?)	5 a.s., s	
3	29.34	29.30	53.8	58.2	61	53	53.1	96	56.8	92	W	5	SE	3	.....	.....	D. fog, w	Lt. fog, se	
4	29.19	29.02	55.8	56.3	63	53	53.8	88	54.3	88	NW	3	SW	9	.....	.....	D. fog, nw	10 s., w	
5	29.10	29.22	43.8	38.6	55	37	39.0	65	35.6	76	NE	30	NE	20	.....	0.02	10 s. cu., ne	7 s. cu., ne	✶△
6	29.37	29.44	35.8	37.0	38	31	30.6	54	31.8	56	E	26	E	10	0.03	T.	8 s. cu., ne	9 s., ne	✶△
7	29.46	29.35	31.2	40.3	43	30	28.9	76	34.3	53	S	19	S	18	.....	.....	1 ci., nw	0	
8	29.31	29.21	36.0	53.0	59	36	31.8	63	43.0	42	S	25	S	29	.....	.....	0	0	
9	29.08	28.95	43.7	47.8	62	38	39.5	70	43.2	69	SW	36	SW	34	.....	.....	0	Few s. cu., sw	
10	29.08	28.91	31.1	48.6	50	31	29.4	82	41.0	51	SW	24	S	17	.....	.....	Few ci., w	0	⊓◪
11	28.48	28.76	56.0	39.0	57	37	53.3	84	34.6	65	S	23	SW	24	.06	.02	10 n., sw	0	
12	28.84	28.83	35.2	47.0	53	34	31.2	64	39.0	47	S	25	W	28	.....	T.	8 ci, s., sw	0	✶
13	29.19	29.23	33.0	38.0	39	31	30.0	71	34.5	71	W	8	SW	9	.....	.....	6 a. cu., w	10 a.s., w	
14	29.36	29.39	34.7	38.5	42	33	32.7	82	32.0	48	NW	11	W	12	.....	.....	1 s., nw	10 a.s., w	
15	29.27	28.93	39.2	47.3	51	36	33.4	54	43.3	73	SE	15	SE	20	.....	.....	3 ci., w	10 a.s., sw	
16	28.78	28.94	47.3	37.0	52	31	45.0	84	35.5	87	N	15	NW	20	T.	.01	10 s., n	10 s., nw	
17	29.19	29.37	20.8	17.3	31	15	18.8	71	14.8	60	NW	19	W	20	.....	T.	7 ci. s., sw	4 s. cu., w	✶
18	29.44	29.50	14.2	19.0	22	14	13.0	78	16.0	55	W	20	W	20	.....	.....	1 s., w	0	
19	29.57	29.64	14.0	24.0	30	14	13.0	82	20.2	51	W	16	N	12	.....	.....	0	0	
20	29.76	29.69	23.5	33.2	33	20	20.7	63	27.0	41	W	4	S	10	.....	.....	0	10 a.s., nw	
21	29.52	29.26	28.5	37.2	40	27	25.0	60	31.6	53	S	26	SW	26	.....	.....	9 a. cu., w	10 a.s., w	
22	29.18	29.08	29.5	41.5	45	30	28.5	89	36.0	58	W	15	S	8	.....	.....	0	10 a.s., sw	
23	28.88	29.15	35.9	32.2	44	28	33.0	74	28.8	66	W	18	NW	14	T.	.....	Few a.s., w	0	
24	29.32	29.37	27.8	27.4	29	24	25.0	68	25.0	72	N	13	NW	9	.....	.....	9 a.s., w	7 a.s., nw	
25	29.38	29.37	19.5	20.2	26	16	18.5	85	18.0	67	NW	14	N	15	.....	.....	4 a.s., nw	2 s., n	✶
26	29.43	29.46	13.0	21.0	25	12	11.6	73	17.6	51	N	24	NW	12	T.	.06	2 s., n	1 s., nw(?)	✶
27	29.43	29.15	16.5	27.0	27	16	16.0	92	23.0	53	W	10	SW	20	.....	.....	6 a. cu., n	10 a.s., nw	
28	28.79	28.88	24.5	29.0	31	24	24.0	94	28.0	89	S	13	NW	12	.04	.10	10 n., s	10 s., nw	✶
29	28.82	28.96	28.0	23.8	31	23	27.5	94	22.4	82	NW	22	NW	18	T.	T.	10 n., nw	10 n., nw	✶
30	29.14	29.20	19.5	25.5	29	19	19.1	94	23.5	75	NW	22	NW	12	T.	.....	1 a.s., nw	0	
Mn.	29.21	29.21	33.4	37.4	42.9	30.0	31.0	77.4	33.3	64.7	W	17.2	NW	16.2	.13	.21	4.3 a.s., w	4.9 a.s., nw‡	

DECEMBER, 1903.

1	29.28	29.28	22.5	27.2	28	20	21.5	86	26.2	88	W	8	N	8	.....	T.	10 s. nw	10 a.s., se	✶
2	29.31	29.18	24.2	26.0	30	23	23.8	95	25.5	94	NW	8	S	15	.....	.....	7 a.s., se	8 a.s., w	
3	29.04	29.03	29.8	36.8	39	25	28.3	84	32.0	59	S	16	W	22	T.	T.	10 s., s	10 a.s., w	✶◠
4	29.10	29.17	23.0	21.0	32	19	21.6	81	19.0	71	W	24	W	20	.....	T.	Few a.s., sw	10 s., w	✶
5	29.27	29.36	19.8	26.4	27	17	18.6	82	24.8	81	W	18	W	15	T.	T.	10 a.s., w	10 a.s., w	✶
6	29.33	29.09	17.0	32.0	36	14	16.2	87	30.0	79	W	18	SW	26	.....	.....	9 a. cu., nw	0	
7	29.00	29.16	27.5	29.0	31	26	26.5	88	27.5	83	NW	17	NW	10	.....	T.	0	10 s., nw	✶
8	29.19	29.06	26.9	27.0	32	24	26.4	94	26.0	88	N	10	W	15	.....	T.	10 s., nw	10 n., w	✶
9	28.86	28.74	24.3	26.3	27	21	23.7	93	25.0	84	W	6	SW	10	T.	T.	10 s., w	10 n., sw	✶
10	28.79	28.98	15.0	16.0	24	12	14.8	96	15.0	83	NW	21	W	24	0.02	T.	10 s., nw	0	✶
11	29.07	29.18	13.8	20.0	25	11	13.4	92	17.6	64	W	16	SW	15	.....	T.	10 s., w	10 a.s., w	✶
12	28.86	28.96	27.8	18.0	33	3	27.8	100	17.5	92	E	15	N	32	.36	0.84	10 n., se	10 n., n	✶
13	29.45	29.56	−11.2	− 3.4	3	−13	−11.8	67	− 4.0	77	W	22	SW	24	.03	.....	0	0	
14	29.60	29.56	− 4.1	5.0	5	− 6	− 4.6	80	4.3	82	W	14	W	15	.....	.....	0	0	
15	29.53	29.42	− 0.7	11.2	13	− 2	− 1.1	86	10.2	79	W	18	SW	22	.....	.....	0	10 ci. s., w	✶
16	29.27	29.35	19.2	14.0	22	10	17.5	74	13.0	82	NE	8	NW	12	.06	T.	10 a.s., w	0	✶
17	29.44	29.41	15.1	20.4	23	10	14.7	93	19.8	91	NW	8	SW	6	.....	.....	2 a.s., nw	10 ci. s., nw	
18	29.40	29.18	20.0	35.0	35	18	19.5	92	31.6	69	S	12	SE	30	.....	.....	2 ci. s., 0 (?)	10 a.s., sw	
19	28.97	28.78	36.4	35.6	37	34	36.1	97	35.6	100	S	30	W	12	.06	.13	10 n., s	10 n., w	≡≈p. ✶
20	28.86	28.99	28.4	28.7	35	25	27.9	94	27.4	86	NW	24	W	17	.07	.....	10 s., nw	0	
21	28.75	28.93	34.5	31.3	38	24	32.0	77	28.5	71	SW	30	NW	20	.....	.....	5 a.s., w	10 s., nw	
22	29.27	29.28	13.9	20.8	24	12	13.2	87	19.0	74	NW	12	SW	24	.....	.....	0	0	
23	29.27	29.18	24.9	38.8	40	23	24.7	98	35.8	76	SW	23	SW	24	.....	.....	Few ci., w	8 ci. s., w	
24	28.97	28.94	34.9	33.0	38	30	34.7	98	30.3	74	SW	12	W	20	.10	.01	10 n., sw	5 s., w	✶
25	28.91	29.03	13.2	3.2	30	− 2	12.4	85	2.8	89	W	14	NW	34	.....	.26	8 a.s., nw (?)	3 s., n	✶
26	29.30	29.03	− 8.5	8.2	16	−10	− 8.8	86	7.2	77	NW	15	SW	30	.....	.....	0	10 a.s., nw	
27	28.72	29.20	26.2	14.2	34	11	25.0	86	12.2	63	W	20	NW	18	.....	T.	7 a.s., nw	1 s., n	✶
28	29.30	29.00	6.7	21.8	25	4	6.5	95	21.5	96	W	6	S	20	.....	.24	2 a.s., 0 (?)	10 n., s	✶
29	29.05	29.28	21.1	2.5	25	0	20.4	90	1.8	80	W	18	NW	20	T.	.07	8 a. cu., nw	0	✶
30	29.40	29.23	− 3.3	14.0	15	− 4	− 3.5	93	13.0	82	W	22	W	20	.....	.03	6 ci. s., w	10 n., nw	✶
31	29.24	28.96	14.8	31.7	32	12	14.2	89	29.0	72	SW	8	W	8	T.	.....	10 a.s., w	0	
Mn.	29.16	29.15	17.8	21.7	27.5	12.6	17.1	88.5	20.2	80.2	W	15.9	W	19.0	.70	1.58	6.0 a.s., nw	6.3 a.s., w	

CINCINNATI, OHIO.

[φ=39° 6′ N; λ=84° 30′ W; barometer above sea, 628 feet; gravity correction applied —.02.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.68	29.54	14.0	38.0	41	14	13.5	90	34.0	67	E	2	E	4	.....	.....	10 s., 0 (?)	0	⊕
2	29.33	28.97	36.5	43.5	49	34	35.0	87	42.5	92	E	10	SE	4	0.09	0.53	10 n., e	10 n., 0(?)	
3	29.06	29.20	38.0	37.0	48	36	37.0	91	36.0	91	W	12	SW	6	.24	T.	10 n., w	10 s., 0 (?)	
4	29.10	29.15	35.0	28.0	36	28	33.0	82	25.5	71	SW		W	10	T.	.....	10 s. cu., sw	10 s., 0 (?)	
5	29.13	29.17	30.0	28.0	34	26	29.0	89	27.5	94	SE		NW	6	.01	.10	10 n., 0 (?)	10 n., 0 (?)	*
6	29.26	29.07	22.0	25.5	30	18	21.0	86	23.5	75	W	12	SW	6	.03	T.	10 n., w	10 s., sw	*
7	28.64	28.89	36.0	27.0	38	25	32.9	72	26.5	94	SW	24	W	24	.06	.03	10 s., sw	10 n., w (?)	*
8	29.12	29.33	20.6	13.0		11	19.6	86	11.0	62	W	24	W	12	.04	.02	10 n., w	0	*
9	29.22	29.36	14.5	18.5	24	12	13.1	74	15.0	47	SW	10	W	14	.....	.....	1 ci. cu., 0 (?)	0	
10	29.52	29.39	7.8	20 0	22	7	6.6	72	17.5	63	W	6	E	8	.....	.....	0	0	☋
11	28.78	29.25	31.0	14.2	37	6	30.8	98	13.0	78	SE	5	W	27	.18	.16	10 n., 0 (?)	10 s. cu., w	*△
12	29.58	29.70	.5	9.0	12	0	— 0.1	80	8.0	78	W	18	W	12	.....	.....	1 s. cu., w	0	
13	29.76	29.68	7.2	22.0	22	5	6.6	85	20.0	72	SW	6	SE	5	.....	.....	0	0	☋
14	29.61	29.55	24.0	34.5	39	19	21.2	64	31.0	68	SE	3	SW	6	.....	.....	10 a. s., nw	0	
15	29.52	29.42	25.0	41.0	43	23	23.5	81	36.0	62	SW	7	SW	7	.....	.....	0	0	
16	29.40	29.28	32.8	41.0	44	31	31.0	82	37.0	69	SE	3	SW	7	.....	.....	1 a. cu., 0 (?)	8 a. s., 0 (?)	
17	29.21	29.34	40.6	34.5	44	29	38.0	79	31.0	68	W	9	NW	10	T.	.....	10 s., w	0	
18	29.56	29.69	20.0	24.5	29	18	18.0	70	21.0	56	NW	7	NW	6	.....	.....	0	0	
19	29.72	29.58	17.3	29.0	31	16	16.1	80	26.0	67	E	7	E	6	.....	.....	Few a. s., 0 (?)	0	
20	29.47	29.34	26.2	34.0	41	24	24.0	73	33.0	90	SE	4	NE	3	.....	.06	0	10 s., 0 (?)	*
21	29.27	29.30	33.0	34.0	36	31	32.0	90	33.5	95	W	6	SW	6	.01	T.	10 s. cu., w	10 n., 0 (?)	*
22	29.40	29.35	26.0	36.0	39	25	25.0	88	33.0	73	SW	9	SW	4	T.	.....	Few s. cu., sw	0	
23	29.51	29.52	37.5	32.0	39	31	34.5	74	30.0	79	N	6	NE	10	.....	.....	10 s. cu., nw	10 s., 0 (?)	*
24	29.26	29.27	28.5	31.0	34	28	28.0	94	29.5	84	NE	14	NW	6	.05	.09	10 n., ne	10 s., 0 (?)	*
25	29.42	29.48	33.5	33.2	35	31	31.5	80	31.2	80	W	6	SW	5	.....	.....	10 s., 0 (?)	10 s., 0 (?)	
26	29.49	29.42	33.0	49.5	56	31	32.8	98	45.0	71	SE	4	SE	6	.....	.....	10 s., 0 (?)	0	≡a.
27	29.43	29.31	41.0	49.0	51	40	39.0	84	48.0	93	SE	5	S	3	.....	.23	6 a. cu., sw	10 n., 0 (?)	
28	29.36	29.16	49.0	54.0	56	48	49.0	100	52.0	88	S	2	SE	6	T.	T.	D. fog, 0 (?)	0	
29	28.93	28.92	57.2	62.0	66	40	55.2	88	51.0	94	SW	5	W	18	.....	.11	10 s. cu., sw	10 n., w (?)	
30	29.36	29.55	28.5	34.0	40	26	25.5	66	28.0	44	SW	15	W	12	.01	.....	Few s. cu., sw	0	
31	29.61	29.35	32.3	45.0	46	29	28.3	60	42.0	79	SE	5	SE	4	.....	T.	2 s. cu., 0 (?)	10 s., se (?)	
Mn	29.34	29.34	28.3	32.6	38.3	23.9	26.8	82.0	30.3	75.6	se / sw / w	8.2	w / sw	8.5	.72	1.33	5.8 s. cu., sw., w	5.1 s., w.	

FEBRUARY, 1903.

1	29.26	29.19	40.2	52.8	54	38	39.8	97	51.0	89	SW	6	SE	4	0.89	0.01	10 n., sw	10 s., 0 (?)	
2	29.19	29.36	57.0	53.0	66	44	55.0	88	46.0	58	SW	8	NW	6	T.	.....	10 s., sw	0	
3	29.27	28.82	40.5	57.9	58	39	38.5	84	56.0	89	NE	9	SW	5	.....	.50	10 s., ne	10 n., sw	
4	28.69	29.17	47.5	26.8	57	25	43.0	70	23.3	59	SW	24	W	26	1.07	.03	0	10 n., w	*
5	29.53	29.68	20.0	30.5	33	19	18.5	78	26.0	52	W	9	W	9	T.	.....	2 s. cu., W	0	*
6	29.73	29.62	27.0	38.2	41	25	25.5	82	32.0	50	SW	3	SE	4	.....	.....	7 s. cu., sw	10 a. cu., sw	☋
7	29.56	29.23	34.5	40.0	46	34	32.0	77	35.5	64	E	8	NE	10	.....	.01	9 ci. s., w	10 n., ne. (?)	
8	29.06	29.41	37.0	33.0	45	31	35.5	87	30.0	71	SW	24	W	14	.16	T.	10 s. cu., sw	10 s. cu., w	*
9	29.60	29.60	31.0	39.8	43	28	29.0	79	35.3	64	NW	7	S	3	.....	.....	9 a. cu., nw	0	
10	29.58	29.35	33.0	47.5	51	32	31.5	85	40.5	54	SE	4	SE	6	.....	.....	Lt. fog, 0	10 a. s., 0 (?)	
11	28.86	29.13	43.5	43.2	50	41	43.0	96	41.0	83	SE	5	SW	3	.04	.14	10 n., se	Few s. cu., sw. (?)	
12	29.31	29.24	41.0	55.0	60	40	40.0	92	47.5	57	S	4	SW	8	.....	.....	Lt. fog, 0	0	
13	29.44	29.56	40.0	37.4	44	35	38.0	84	35.4	83	N	5	N	13	.....	T.	10 a. s., n	10 n., n	
14	29.60	29.52	35.0	36.5	39	34	34.0	91	34.5	82	NE	8	NE	9	.03	.04	10 n., ne	10 n., ne. (?)	
15	29.28	29.07	34.0	31.0	34	26	33.5	95	30.5	95	NE	7	N	9	.39	.70	10 n., ne	10 n., 0 (?)	△
16	29.15	28.95	23.0	12.0	26	9	22.0	87	11.6	92	N	10	N	15	.42	.28	10 s., n	10 n., n. (?)	△*
17	29.30	29.41	9.0	3.8	9	— 1	0.4	87	3.0	78	NW	16	SW	9	.05	.....	2 s. cu., nw	0	*
18	29.26	29.83	16.0	5.8	18	2	15.6	93	4.8	75	SW	14	W	14	.02	.02	10 n., sw	0	*
19	29.98	29.79	1.4	18.2	19	0	1.0	87	15.6	59	W	6	S	6	.....	.....	0	10 s., 0 (?)	⊕
20	29.81	29.68	18.6	28.0	32	15	17.0	75	25.0	66	W	10	SW	8	.....	.....	0	0	
21	29.54	29.74	29.0	26.0	34	23	27.0	78	23.5	69	SW	7	NW	15	.....	.....	0	10 s. cu., nw	*
22	29.89	29.82	20.0	30.0	33	19	19.0	85	27.0	68	SW	4	SW	4	T.	.....	0	0	*
23	29.74	29.67	28.5	45.0	49	25	27.0	82	40.0	65	SE	2	SW	10	.....	.....	Lt. fog, 0	10 s. cu., sw	
24	29.69	29.73	32.0	33.2	38	30	31.0	90	29.5	64	N	8	N	5	.10	.....	10 s., n	0	*
25	29.83	29.77	25.0	35.5	41	24	24.0	87	30.0	51	E	3	NE	8	.....	.....	Lt. fog, 0	0	
26	29.78	29.59	29.0	49.5	55	28	27.0	78	42.0	52	NE	3	NE	7	.....	.....	Lt. fog, 0	0	D. smoke, a.
27	29.31	28.92	47.0	52.7	59	44	46.0	93	51.8	95	SE	10	SE	9	.15	.23	10 n., se	10 n., se. (?)	
28	28.85	29.27	45.0	39.0	60	32	44.5	96	35.5	72	W	26	W	12	.39	.09	10 n., w	10 s. cu., w	▲
Mn	29.43	29.43	31.3	35.8	42.6	26.5	29.9	85.8	32.3	69.9	SW	8.9	SW	8.6	3.71	2.05	5.7 n., sw	5.7 n., sw	

CINCINNATI, OHIO.

[φ=39° 6′ N; λ=84° 30′ W; barometer above sea, 628 feet; gravity correction applied−.02.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.62	29.72	25.0	30.0	32	24	23.5	81	28.5	84	W	12	SW	9	T.	T.	10 n., w	0	*
2	29.78	29.77	26.0	36.0	38	25	24.0	75	33.0	73	S	3	SW	6			2 ci., sw	0	
3	29.81	29.72	31.2	48.5	51	29	30.7	98	43.0	64	E	4	SE	2			Lt. fog, 0	10 s., 0 (?)	
4	29.69	29.47	43.0	61.0	65	42	39.3	72	50.0	45	E	3	E	4	T.		10 s., 0 (?)	10 ci. s., w (?)	
5	29.41	29.50	52.0	53.0	57	49	51.0	94	51.0	88	SW	6	N	7	0.42	T.	10 s., 0 (?)	10 s., n	
6	29.56	29.47	47.2	57.0	60	46	46.0	91	56.0	94	NE	7	SE	8	.01	0.02	10 s., 0 (?)	10 n., 0 (?)	
7	29.35	29.34	58.0	59.5	68	56	57.0	94	57.5	89	SE	5	W	6	.34	1.02	10 n., s	3 s. cu., w	☈ ☿
8	29.36	29.56	55.0	47.7	57	45	54.4	96	45.0	82	E	6	N	9	.90	.20	10 s. cu., 0 (?)	10 s. cu., n	☈
9	29.62	29.56	44.0	58.5	56	42	43.0	93	51.0	85	NE	8	NE	6	T.	T.	10 n., ne	0	☿
10	29.48	29.47	53.0	61.5	66	49	52.0	94	60.0	92	SE	5	SW	8	.23	.63	10 s., 0 (?)	10 n., sw	
11	29.68	29.73	46.0	48.5	50	45	44.0	86	46.0	83	N	8	NE	5	T.		10 s., n. (?)	4 a. cu., ne	
12	29.68	29.60	45.0	51.0	53	44	43.6	90	48.0	81	NE	5	E	5			10 s., 0 (?)	2 a. cu., e	
13	29.57	29.49	44.5	58.5	60	42	43.0	89	55.0	80	NE	1	N	8			D. fog, 0 (?)	5 a. s., 0	
14	29.51	29.51	51.0	59.0	62	49	47.8	80	57.0	89	NE	3	N	3		T.	10 s. cu., 0	10 n., 0 (?)	≡ₐa.
15	29.53	29.49	52.0	58.0	59	51	50.0	88	55.0	83	N	4	N	5	.05	T.	10 s., n	10 s., n	
16	29.48	29.39	51.4	60.0	61	51	50.9	97	59.0	94	NE	5	SE	2	.21	.14	10 n., 0 (?)	10 s., se	
17	29.45	29.48	59.0	68.5	71	58	57.7	93	65.0	83	SE	1	E	5	.07		10 s. cu., w	0	
18	29.54	29.48	57.2	72.0	77	56	55.2	88	66.0	73	SE	1	W	2			7 ci., sw	1 ci. s., 0	≡ₐa.
19	29.56	29.40	59.5	71.2	77	57	56.0	81	63.0	63	SE	3	SE	2			3 ci., w	0	
20	29.32	29.30	63.0	54.0	72	46	58.0	74	52.0	88	SE	5	W	16		.35	10 s. cu., sw	10 s., w	☈
21	29.44	29.44	37.0	40.0	46	35	35.0	83	36.0	68	W	14	E	4	T.		10 s. cu., w	0	
22	29.43	29.23	34.0	50.0	52	32	33.0	90	44.5	65	NE	4	NE	7			8 a. s., w	10 s., 0 (?)	☾ ⊕
23	29.12	29.28	48.0	42.0	61	36	47.0	93	40.0	85	W	6	W	26	.10	.03	10 n., w	10 n., w	☾ ≡ₐa.
24	29.41	29.51	35.0	39.0	44	33	32.6	78	34.0	60	SW	10	W	14	.01		3 s. cu., sw	0	*
25	29.60	29.60	34.0	47.0	50	33	31.0	72	40.0	54	W	8	W	8			5 s. cu., nw	0	☾
26	29.67	29.51	36.5	56.5	60	34	35.0	87	45.0	38	0	0	S	3			Lt. fog, 0 (?)	0	☾
27	29.50	29.39	42.0	61.0	65	39	38.7	75	48.0	36	SE	3	NW	4			Lt. fog, 0 (?)	8 ci. s., nw	⊕
28	29.47	29.62	47.0	42.0	51	36	45.0	86	38.0	70	N	5	NE	10			10 s., 0 (?)	0	
29	29.68	29.48	32.0	49.2	50	30	29.0	69	42.2	55	NE	11	NE	9			8 ci. s., sw	10 ci. s., 0 (?)	
30	29.23	29.11	40.0	49.5	50	39	38.0	84	47.0	84	NE	12	NW	6	.10	.14	10 n., ne	10 s., nw	
31	29.25	29.28	43.0	61.0	65	42	41.0	85	50.0	45	W	5	SW	5			Few ci., 0 (?)	0	
Mn.	29.51	29.48	44.9	53.1	57.6	41.8	43.0	85.6	48.6	73.3	NE	5.6	W	6.7	2.44	2.53	7.3 s., w	5.3 s., w	

APRIL, 1903.

1	29.35	29.18	45.0	66.0	72	44	42.5	82	54.0	45	S	3	SE	5			Lt. fog, 0	5 ci., w	
2	29.08	28.90	62.0	74.0	74	59	54.0	60	63.5	56	SW	6	SW	9		T.	10 a. s., sw	10 a. s., w	⊕
3	28.82	28.94	68.0	42.5	71	33	60.0	63	41.0	88	SW	16	W	20		0.30	10 s. cu., sw	10 n., w	* ☈
4	29.47	29.64	29.5	35.0	39	28	25.0	52	31.7	70	NW	10	N	8	0.02		0	5 s. cu., nw	☾²
5	29.72	29.50	29.0	47.0	48	28	26.0	67	38.0	41	SE	12	SE	8			0	5 a. cu., w	☾² ⊕
6	29.43	29.22	47.5	63.0	67	42	41.0	57	52.0	47	SE	6	SW	9			8 ci. s., w	10 s. cu., sw	
7	29.25	29.21	57.0	61.0	66	56	55.0	88	50.0	45	SW	7	SE	1	.08		10 s. cu., sw	1 a. s., 0 (?)	
8	29.13	29.34	48.0	61.0	65	47	47.5	96	48.0	86	NW	14	W	5	.91	.11	10 n., nw	0	
9	29.37	29.36	55.0	68.0	75	50	47.0	55	51.5	30	SW	14	NW	10			0	Few ci., 0 (?)	
10	29.53	29.40	48.0	56.2	61	48	43.0	67	49.0	60	E	6	NE	9		T.	10 ci. s., 0	10 n., sw	
11	29.22	29.13	56.5	73.8	77	53	51.0	69	62.3	53	SE	6	S	4	.06	.03	3 s. cu., se	5 s. cu., sw	
12	29.12	28.96	60.0	60.0	70	58	54.0	68	57.5	86	SE	1	SE	7		.53	7 a. s., sw	10 s. cu., s	☈
13	28.84	28.74	57.5	55.0	61	50	56.0	91	51.7	80	E	6	W	12	.03	.19	10 s. cu , e	10 s. cu., w	
14	28.71	28.88	47.0	44.7	50	43	45.0	86	41.7	79	SW	8	SW	7			10 s., sw	10 s. cu., sw	
15	28.95	29.05	43.0	47.0	50	42	41.0	85	46.0	93	W	6	N	12		T.	10 s. cu., w	10 n., n	
16	29.14	29.26	45.0	50.0	51	44	43.5	89	45.2	69	N	6	N	8	.01	T.	10 s., n	10 s. cu., n	
17	29.41	29.34	41.0	57.5	60	40	39.0	84	45.0	34	N	4	N	4			0	3 ci., 0	☾
18	29.32	29.16	43.0	61.5	66	40	42.0	92	50.5	46	E	2	E	3			Lt. fog, 0	10 ci. s., nw	☾
19	29.10	28.99	53.5	57.0	59	50	47.0	62	54.0	83	E	6	NE	8		.14	9 a. s., sw	3 a. s., 0 (?)	☈
20	29.06	29.20	51.0	57.0	64	50	50.0	94	44.5	34	NE	6	N	11	.05	T.	10 n., ne	2 ci. cu., 0 (?)	
21	29.25	29.22	45.5	49.0	61	43	43.0	82	43.0	61	0	0	N	8		.07	Lt. fog, 0	10 n., 0 (?)	
22	29.27	29.35	41.5	42.5	46	40	39.0	80	39.0	74	NW	6	N	6	T.	T.	10 s. cu., nw	10 s. cu., n	
23	29.42	29.43	41.5	51.0	53	40	40.0	88	41.5	43	N	7	SW	5	T.		10 s. cu., n	Few a. cu., 0 (?)	
24	29.45	29.22	45.0	52.4	56	43	40.0	65	48.4	75	SW	8	SW	9		.04	10 s. cu., sw	10 n., w	
25	29.20	29.25	50.0	49.8	60	45	49.0	93	48.0	88	SE	1	N	8	T.	.24	10 s., 0	10 s., ne	≡ₐa. ▲
26	29.34	29.44	42.0	58.0	62	41	41.0	92	53.0	72	N	5	N	7	.52		10 s., n	0	
27	29.60	29.57	45.5	63.8	67	42	44.5	93	48.8	31	0	0	E	4			Lt. fog, 0	0	
28	29.64	29.55	50.0	72.0	77	46	46.0	74	57.0	39	SE	4	S	2			0	Few ci., 0 (?)	
29	29.59	29.39	59.0	74.0	80	52	55.0	78	58.5	39	SE	4	SE	3			Lt. fog, 0	4 ci. s., w (?)	
30	29.26	29.51	64.5	41.2	73	39	56.0	58	38.0	75	SW	7	W	14		.16	2 a. cu., sw	10 s. cu., nw	
Mn.	29.27	29.24	49.0	56.4	62.7	44.5	45.4	77.0	48.4	59.1	{se (sw}	6.2	N	7.5	1.68	1.81	6.0 s. cu., sw	6.1 s. cu., w	

CINCINNATI, OHIO.

[φ=39° 6′ N; λ=84° 30′ W; barometer above sea, 628 feet; gravity correction applied −.02.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.77	29.65	37.5	47.0	49	36	32.5	58	40.0	54	NE	13	NE	7	T.	.....	1 s. cu., ne	0	
2	29.53	29.30	42.0	67.0	71	39	37.0	62	58.0	58	E	6	SW	8	.....	.....	0	0	
3	29.29	29.51	59.0	51.0	61	45	53.0	68	44.5	60	W	14	NW	8	.....	T.	10 s. cu., sw	5 s. cu., nw	
4	29.61	29.51	43.0	57.0	59	39	39.3	72	48.0	51	E	4	NE	5	.....	.....	Lt. fog, 0	0	
5	29.56	29.44	50.0	66.5	69	44	44.0	62	53.0	40	E	3	E	4	.....	.....	1 ci., 0 (?)	10 ci. s., 0	≡a.— ⊕
6	29.45	29.40	60.5	63.0	68	58	49.5	44	58.0	74	NW	3	NW	3	T.	T.	10 n., 0 (?)	10 s. cu., nw	
7	29.47	29.40	54.8	65.0	70	52	49.8	71	53.0	44	NE	12	NE	11	T.	.....	5 a. cu., nw	0	
8	29.43	29.29	50.0	70.0	74	47	44.3	64	54.0	33	NE	9	NE	9	.....	.....	0	0	
9	29.38	29.32	59.3	73.5	78	55	50.8	55	56.0	32	SE	7	E	5	.....	.....	Few a. cu., se	2 ci. s., w	
10	29.44	29.35	61.6	73.0	77	58	52.0	62	57.0	36	SE	9	E	5	.....	.....	5 ci. s., 0 (?)	9 ci. s., 0 (?)	⊕
11	29.47	29.38	64.0	76.0	78	61	54.0	52	62.0	45	SE	6	E	6	.....	.....	4 a. cu., 0 (?)	2 ci. s., w	
12	29.48	29.42	66.5	75.5	80	62	56.0	55	62.0	46	E	7	E	6	.....	.....	2 s. cu., se	2 ci. s., w	
13	29.49	29.37	64.0	74.0	79	60	55.0	56	62.0	51	E	6	SE	5	.....	.....	2 ci., sw	8 ci. s., w	
14	29.34	29.24	65.5	74.0	79	61	59.0	68	61.0	47	SE	5	SE	8	.....	.....	7 a. cu., 0 (?)	1 s. cu., 0	
15	29.29	29.25	65.0	78.0	84	60	57.5	64	62.5	41	NE	4	E	3	.....	.....	0	2 a. cu., sw	
16	29.40	29.35	62.2	80.5	84	60	57.2	74	66.0	46	NE	5	E	3	.....	.....	0	0	
17	29.49	29.43	66.0	81.0	87	62	60.0	71	67.0	48	SE	3	SE	1	.....	.....	0	4 a. cu., nw	
18	29.50	29.35	67.0	79.5	85	62	60.0	67	65.0	46	SE	3	S	2	.....	.....	0	2 ci. s., nw	
19	29.38	29.30	68.0	75.0	83	63	62.0	72	68.0	70	SE	5	SW	6	.....	0.34	10 a. cu., s	Few s. cu., sw	◹◹
20	29.44	29.40	71.0	72.0	80	66	66.0	77	66.0	73	SW	3	SW	7	.....	.01	8 ci. s., w	7 ci. s., nw	
21	29.40	29.29	66.0	76.5	80	61	62.0	80	70.0	72	SE	8	SE	8	.....	.08	2 ci., 0 (?)	10 s. cu., sw	◹◹
22	29.38	29.32	70.0	83.0	87	63	66.0	81	72.0	58	SE	2	SW	2	1.07	.....	1 a. cu., w	0	◹◹
23	29.40	29.28	74.0	83.0	88	69	68.0	74	70.0	52	S	1	SW	8	.....	.....	7 ci. s., 0	Few s. cu., sw	
24	29.37	29.33	73.8	80.0	86	70	67.3	72	70.0	61	W	1	E	5	.....	.....	7 a. s., w	9 a. s., 0 (?)	◹◹ ⊕
25	29.42	29.33	70.5	82.0	85	66	65.0	75	71.0	58	E	9	SW	3	.10	.....	2 ci. cu., n	10 s. cu., sw	◹◹
26	29.40	29.29	72.0	82.0	88	68	67.0	78	68.0	49	SE	4	SW	3	.....	.....	7 a. cu., sw	7 ci. s., w	
27	29.27	29.23	76.2	63.0	85	62	64.7	54	62.0	95	SW	8	W	12	.....	1.13	5 a. cu., sw	10 n., w	▲◹◹
28	29.40	29.38	67.0	78.0	82	64	62.8	79	65.0	50	SW	8	W	4	.28	.....	1 ci., 0 (?)	4 ci. s., w	
29	29.42	29.34	66.5	70.0	77	65	64.5	90	67.0	86	E	5	NE	8	.09	.07	10 s., 0 (?)	10 n., ne	◹◹
30	29.37	29.33	60.0	68.0	67	58	64.0	90	59.0	79	NE	5	NE	8	.26	.12	10 s. 0 (?)	10 n., ne	≡a.
31	29.37	29.32	56.0	68.0	70	55	53.0	82	66.0	90	NE	12	NE	6	T.	.27	10 s., ne	10 s. cu., ne	
Mn.	29.43	29.36	62.4	71.8	77.1	57.8	56.2	68.4	61.4	56.3	SE	6.1	E	5.6	1.81	2.02	4.1 a. cu., sw	4.6 ci. s., w	

JUNE, 1903.

1	29.36	29.33	67.5	69.2	74	65	64.5	85	64.7	79	E	8	E	10	T.	0.23	10 n., e	10 s. cu., se	
2	29.44	29.48	63.0	65.0	70	59	60.0	84	60.0	75	E	10	NE	12	.....	.01	10 s. cu., e	8 s. cu., e	
3	29.54	29.48	58.0	70.0	75	55	56.0	83	61.0	60	E	8	SW	12	.....	.....	6 s. cu., e	10 cu., s	
4	29.52	29.44	65.0	68.0	78	62	63.0	90	65.0	85	SE	1	N	10	0.01	.02	10 s. cu., se	10 s. cu., se	◹◹
5	29.50	29.41	64.0	70.0	76	62	63.0	95	65.5	79	E	6	SE	5	1.72	T.	10 s. cu., e	10 s. cu., s	◹◹
6	29.42	29.32	67.0	68.2	74	64	64.0	85	65.2	85	E	2	SW	5	T.	.13	2 ci., w	8 s. cu., sw	≡a.◹◹
7	29.32	29.23	61.4	67.5	76	59	60.0	92	65.0	88	SW	1	NW	12	.....	.18	8 s. cu., w	10 s. cu., nw	≡a.◹◹
8	29.26	29.20	67.0	76.0	85	63	64.0	85	66.0	59	SW	6	SE	5	.....	.....	Lt. fog, 0	8 s. cu., sw	
9	29.24	29.24	68.0	71.0	82	63	64.0	81	67.0	82	SE	2	E	3	.....	.05	Lt. fog, 0	9 s. cu., sw	◹◹
10	29.41	29.40	66.0	72.4	77	63	62.0	80	61.2	53	NW	4	NW	5	T.	.....	0	1 s. cu., nw	
11	29.45	29.43	56.0	58.5	63	52	52.0	77	50.5	58	N	8	N	10	.....	.....	10 s. cu., n	8 s. cu., n	
12	29.41	29.33	48.0	57.0	57	44	45.0	80	49.0	56	NW	6	NW	10	.....	T.	10 s. cu., nw	8 s. cu., nw	
13	29.28	29.14	50.5	68.0	72	47	44.0	60	56.0	47	NW	9	W	10	.....	T.	1 a. cu., n	10 n., nw	
14	29.17	29.17	61.0	74.0	82	59	54.0	64	62.0	51	W	14	NW	7	T.	T.	2 ci. cu., nw	2 s. cu., nw	
15	29.28	29.26	63.0	75.0	79	59	59.0	79	63.0	51	E	2	NE	7	.....	.....	Lt. fog, 0	1 s. s., 0 (?)	
16	29.31	29.19	65.0	72.0	82	59	59.0	70	65.0	69	E	1	SE	3	.....	.01	Few ci., w	7 s. cu., n	◹◹
17	29.30	29.33	54.0	67.2	70	54	52.0	88	55.2	46	NW	10	N	8	.12	.....	10 s., nw	0	
18	29.35	29.25	57.5	74.0	76	54	55.0	86	62.0	51	0	0	SW	3	.....	.....	Lt. fog, 0	5 s. cu., n	⊕
19	29.22	29.08	61.0	70.0	79	58	59.0	89	65.0	77	SE	3	N	5	.....	T.	Lt. fog, 0	10 s. cu., sw	
20	29.00	29.06	68.0	72.0	75	65	66.0	90	64.5	67	SW	6	NW	10	.10	.....	10 s. cu., sw	8 s. cu., nw	
21	29.20	29.12	62.0	74.0	76	60	59.0	84	63.5	56	N	6	E	6	.....	.....	Few s. cu., 0 (?)	0	
22	29.08	28.97	65.5	68.0	71	61	63.5	90	66.0	90	SW	3	S	3	.07	.51	10 n., sw	10 n., s. (?)	
23	29.16	29.14	58.0	71.0	74	55	56.0	89	58.0	45	W	11	W	9	.02	.....	3 a. cu., w	1 s. cu., w	
24	29.20	29.20	62.0	78.0	76	59	56.0	69	58.8	42	W	4	W	6	.....	.....	3 ci. s., nw	1 s. cu., w	
25	29.30	29.28	64.0	74.0	78	58	59.0	75	63.0	54	SE	3	NE	6	.....	.....	0	7 ci. s., w	
26	29.32	29.23	64.5	74.3	78	61	59.0	72	62.0	50	NE	6	E	5	.....	.....	3 ci. cu., nw	10 s., e	
27	29.28	29.19	62.5	70.0	75	62	60.0	87	63.0	68	NE	6	NE	6	.....	.....	10 s., ne	10 a. s., sw (?)	
28	29.17	29.10	65.0	76.0	79	62	60.0	75	64.5	54	NE	2	W	4	.06	.....	10 s. cu., 0	8 s. cu., w	
29	29.20	29.22	68.0	79.5	86	64	66.0	90	69.0	59	SW	1	W	7	.....	.03	Lt. fog, 0	5 ci. s., w	
30	29.34	29.28	72.0	84.0	88	68	67.0	78	70.0	50	SW	2	W	7	.....	.....	0	1 ci., 0	
Mn.	29.30	29.25	62.5	71.0	76.1	59.2	59.0	81.7	62.4	62.9	E	5.0	W nw	7.0	2.10	1.17	4.6 s. cu., nw	6.4 s. cu., nw	

CINCINNATI, OHIO.

[φ=39° 6′ N; λ=84° 30′ W; barometer above sea, 628 feet; gravity correction applied −.02.

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.29	29.18	76.0	86.5	91	70	69.0	70	75.5	60	SW	3	SW	8	.....	.....	2 a. cu., w	Few ci., nw	
2	29.30	29.28	78.0	87.0	92	74	71.0	71	73.0	52	SW	6	SW	6	.....	.....	2 ci. s., 0	Few s. cu., 0	
3	29.39	29.33	79.2	91.0	95	74	72.2	71	77.0	54	S	2	SW	6	.....	.....	7 a. cu., sw	Few ci., w	⊖
4	29.40	29.27	77.5	90.0	94	76	72.0	77	79.0	62	SW	5	SW	6	.....	.....	1 ci., w	5 ci. s., w	
5	29.41	29.43	75.0	85.0	89	74	71.0	82	72.0	54	NW	5	NW	8	0.03	.....	8 cu., sw	7 s. cu., sw	⊓◁
6	29.52	29.47	73.0	84.0	88	69	66.0	69	69.0	47	NE	5	NE	6	.....	.....	1 a. cu., 0	0	
7	29.52	29.43	72.2	84.0	89	70	64.2	65	67.0	41	E	7	E	6	.....	.....	Few ci., 0	Few ci., 0	
8	29.47	29.36	71.8	88.0	92	68	64.0	60	73.0	49	E	3	SW	3	.....	.....	9 ci. s., sw	Few s. cu., 0	⊖
9	29.43	29.32	78.0	90.0	95	76	71.0	71	73.0	44	S	8	W	4	.....	.....	Few a. cu., 0	1 ci. s., nw	
10	29.37	29.29	80.0	81.0	96	74	72.0	68	72.0	64	SW	5	E	8	.....	.....	6 ci., 0	2 s. cu., 0 (?)	
11	29.27	29.19	81.3	80.0	95	75	74.0	71	71.0	64	SW	5	SW	4	.....	.....	3 a. cu., sw	3 s. cu., 0	⊓◁
12	29.24	29.21	69.0	70.0	75	64	60.0	59	66.0	81	N	9	N	3	.....	0.54	10 s. cu., n	7 s. cu., n	☂
13	29.28	29.27	67.3	74.7	80	63	57.3	54	59.2	39	NW	6	NW	9	.....	.....	0	1 s. cu., 0 (?)	
14	29.35	29.29	65.2	77.0	81	59	56.1	57	61.0	39	SW	5	NW	8	.....	.....	1 a. cu., w	6 s. cu., w	
15	29.42	29.39	63.0	74.0	77	61	53.0	51	61.5	49	NE	8	NE	6	.....	.....	2 a. cu., nw	Few s., 0 (?)	
16	29.42	29.33	65.0	77.0	79	59	56.0	57	64.0	49	SE	4	SE	4	.....	.....	5 ci., nw	Few s. cu., 0 (?)	
17	29.38	29.18	66.0	79.2	83	61	61.0	76	68.2	57	SE	3	SE	12	.....	T.	2 ci., 0	10 s. cu., sw	⊖
18	29.06	29.19	77.0	78.0	82	74	70.0	71	65.0	50	SW	22	NW	10	.03	.....	10 s. cu., w	6 s. cu., w	
19	29.23	29.19	69.0	80.0	85	68	65.0	81	64.0	41	SW	7	W	15	.....	.....	1 a. cu., w	4 s. cu., w	
20	29.26	29.28	68.0	78.0	82	65	60.0	63	62.5	41	W	6	NW	9	.....	.....	0	1 s., 0 (?)	
21	29.35	29.18	67.0	85.0	88	61	60.0	67	70.0	48	S	4	SW	7	.....	.....	5 ci., w	7 s. cu., w	⊓◁
22	29.30	29.35	68.0	79.0	84	66	66.0	90	65.0	47	W	4	NW	8	1.18	.....	3 s. cu., nw	7 ci., nw	≡ᵒa.▲
23	29.47	29.43	69.2	81.0	84	65	63.0	71	66.0	45	NE	3	NE	6	.....	.....	0	Few s. cu., 0 (?)	
24	29.52	29.42	72.0	85.0	88	68	63.0	61	68.0	42	NE	3	NE	6	.....	.....	0	Few ci., 0 (?)	
25	29.52	29.43	75.0	88.0	93	69	66.0	63	70.0	41	NE	1	S	1	.....	.....	2 ci., 0	Few ci., 0	
26	29.50	29.38	78.0	89.0	94	74	69.0	64	70.0	38	SW	5	W	5	.....	.....	4 a. cu., w	10 ci. s., 0	
27	29.44	29.34	72.4	84.0	87	71	69.0	84	68.0	44	NE	5	NE	6	.....	.....	10 a. s., 0	2 a. s., 0 (?)	
28	29.34	29.22	72.5	87.0	93	71	62.0	56	73.0	52	E	4	W	1	.....	.....	10 a. cu., w	9 s. cu., w	
29	29.23	29.15	78.0	77.0	89	73	71.5	73	71.5	77	SW	9	SE	7	.....	.35	3 ci. cu., w	6 s. cu., w	⊓◁
30	29.27	29.30	73.0	77.0	84	70	69.0	82	66.0	56	W	9	N	9	.12	.....	10 s. cu., w	9 a. s., nw	
31	29.45	29.47	62.0	69.0	72	61	57.5	77	62.0	68	NE	6	NE	6	T.	.06	10 n., 0 (?)	Few ci. s., 0	
Mn	29.37	29.31	72.2	81.8	87.0	68.5	65.2	69.0	68.5	51.5	SW	5.5	SW	6.5	1.36	.95	4.1 a. cu., w	3.3 s. cu., w	

AUGUST, 1903.

1	29.58	29.51	60.0	78.0	80	57	56.0	78	63.0	43	NE	5	NE	5	.....	.....	2 ci., nw	1 a. s., 0	
2	29.62	29.59	70.0	76.5	83	68	66.0	81	71.5	78	E	2	S	2	.....	0.05	2 ci. s., w	8 ci. s., w	⊓◁
3	29.62	29.44	71.0	82.0	90	68	68.0	86	71.2	56	W	3	SW	9	.....	.....	Lt. fog, 0	6 ci. s., nw	
4	29.38	29.27	70.0	70.0	86	68	66.0	81	66.0	81	SW	8	SW	4	0.07	.25	10 n., sw	10 s., 0 (?)	⊓◁
5	29.31	29.22	69.5	73.3	87	68	66.5	86	68.8	80	SW	3	SW	10	.....	.14	5 a. cu., nw	10 a. s., 0 (?)	⊓◁
6	29.28	29.26	69.0	79.3	84	68	66.0	86	67.0	53	W	7	NW	12	.....	.....	10 s. cu., w	2 s. cu., w	
7	29.42	29.35	65.0	73.0	77	64	59.0	70	60.0	46	N	5	N	5	.....	.....	0	2 ci., 0 (?)	
8	29.29	29.18	62.0	72.5	77	60	55.0	64	63.5	61	SE	6	SW	4	.....	.....	6 a. cu., w	5 s. cu., sw	
9	29.18	29.22	68.0	79.0	84	66	65.5	88	64.0	44	NW	7	W	5	.08	.....	10 s., 0 (?)	3 ci., sw	
10	29.33	29.25	64.5	79.0	83	62	62.5	90	67.0	54	S	2	S	1	.....	T.	8 ci. s., w	3 a. cu., sw	≡ᵒa.
11	29.32	29.32	68.0	73.4	81	67	65.0	85	61.0	49	NW	5	NW	7	.01	.....	1 s. cu., nw	5 ci. s., sw	⊓◁
12	29.44	29.39	61.0	73.2	77	60	56.0	74	58.0	39	NE	6	N	7	.....	.....	9 ci. s., nw	2 ci., 0 (?)	
13	29.44	29.38	62.0	75.0	79	60	56.0	69	61.2	45	E	5	NW	4	T.	T.	5 s. cu., 0	10 n., 0 (?)	
14	29.44	29.38	65.0	79.3	81	63	60.0	75	64.0	43	E	4	NE	4	.01	.....	10 s. cu., ne	Few ci., 0	
15	29.43	29.28	65.0	81.0	87	62	58.0	66	66.0	45	NE	2	0	0	.....	.....	2 ci., w	7 s. cu., nw	
16	29.33	29.29	67.0	80.0	87	65	61.0	71	67.0	51	N	3	N	7	.....	.....	0	5 s. cu., n	
17	29.38	29.32	64.0	80.5	85	61	59.0	75	61.0	31	N	5	NE	6	.....	.....	0	0	
18	29.35	29.21	65.0	84.0	89	63	58.0	66	65.5	36	E	5	N	3	.....	.....	0	2 ci., 0 (?)	
19	29.22	29.14	68.0	73.0	89	66	64.0	81	66.2	70	SE	3	E	6	.....	.71	10 s. cu., se	10 a. s., 0 (?)	≡ᵒa.⊓◁
20	29.23	29.28	67.0	78.0	82	65	63.0	80	60.0	34	N	4	N	7	T.	.....	0	0	
21	29.44	29.31	64.5	82.0	87	59	58.5	70	63.0	34	SE	3	SW	4	.....	.....	0	Few ci., 0	
22	29.38	29.27	69.0	84.0	90	65	64.0	77	64.0	32	S	1	SW	6	.....	.....	0	6 ci., nw	
23	29.32	29.25	71.0	87.0	92	66	65.0	73	70.0	42	S	1	SW	5	.....	.....	7 a. cu., sw	8 s. cu., sw	
24	29.32	29.28	78.0	90.0	95	76	71.0	71	75.0	50	SW	2	SW	8	.....	.....	Few s. cu., 0	3 ci., 0	
25	29.34	29.26	79.0	87.5	92	74	72.0	71	75.0	56	SW	6	SW	7	.....	.14	0	8 n., w (?)	⊓◁
26	29.38	29.30	73.0	73.0	90	71	70.0	86	72.0	95	NE	5	N	3	.23	.87	2 a. cu., ne	9 n., sw (?)	≡ᵒa.⊓◁
27	29.28	29.18	74.0	85.5	91	72	69.0	78	72.5	54	SE	4	SW	6	.11	.....	2 ci. s., nw	6 ci., sw	⊖
28	29.14	29.20	77.5	82.0	88	76	71.0	73	70.5	56	SW	8	W	12	.....	.....	1 ci. s., w	5 ci. cu., sw	
29	29.24	29.18	72.0	73.7	84	68	68.0	82	69.2	80	NE	1	SW	6	.....	.02	3 ci., w	7 s. cu., sw	⊓◁
30	29.26	29.30	64.0	64.0	70	61	60.2	80	56.5	63	W	9	NW	8	.....	.....	10 s., w	10 s. cu., sw	
31	29.34	29.33	59.5	67.3	70	58	58.0	92	61.3	71	W	4	NW	1	.03	.03	10 s. cu., w	10 s. cu., nw	
Mn	29.36	29.29	67.8	77.9	84.4	65.4	63.1	77.6	65.8	53.9	{ne. / sw}	4.3	SW	5.6	.54	2.21	4.0 s. cu., w	5.3 ci., sw	

CINCINNATI, OHIO.

[φ=39° 6′ N; λ=84° 30′ W; barometer above sea, 628 feet; gravity correction applied −.02.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.40	29.40	62.0	70.0	75	59	59.0	84	62.0	64	N	4	N	8	.....	.....	1 a. cu., 0 (?)	Few s. cu., 0	≡°a.
2	29.52	29.45	63.0	76.5	80	59	58.8	78	66.0	58	N	3	N	4	.....	.....	0	0	≡°a.
3	29.50	29.41	64.0	82.5	88	60	60.0	79	69.0	51	E	1	SE	1	.....	.....	2 a. cu., nw	0	≡°a.
4	29.46	29.38	67.0	81.0	90	62	62.0	76	70.0	58	SE	2	N	3	.....	.....	2 ci., 0	7 a. cu., w	≡°a. ⊕
5	29.40	29.34	67.0	70.0	87	65	63.0	80	65.0	77	E	1	N	8	.....	0.30	2 a. cu., w	6 ci. s., nw	≡°a. ⌐◪
6	29.49	29.38	56.5	75.0	78	55	53.0	80	62.0	48	NE	7	SE	2	.....	.....	2 ci. s., 0	Few s. cu., 0	
7	29.41	29.28	63.0	85.0	92	60	56.0	65	70.0	48	SE	4	SE	4	.....	.....	0	2 s. cu., sw	
8	29.40	29.39	76.5	87.0	93	74	68.0	65	63.0	24	S	2	NW	7	.....	.....	5 ci., 0 (?)	7 s. cu., nw	
9	29.52	29.36	74.0	83.0	90	72	68.0	74	73.0	62	SE	5	SE	6	0.04	.04	10 s., sw	5 s., 0	◪
10	29.35	29.38	77.5	75.5	85	67	68.5	64	70.0	84	SW	10	SE	2	.81	.24	5 a. cu., sw	5 s. cu., 0 (?)	◪
11	29.50	29.44	70.0	82.0	88	69	68.0	90	73.0	65	SE	3	SE	5	.08	.03	10 n., sw	2 s. cu., 0 (?)	
12	29.50	29.40	72.4	82.0	88	70	68.0	80	68.0	49	S	4	SW	8	.....	.....	Few ci., 0	0	
13	29.50	29.39	70.0	83.5	90	68	63.0	68	69.5	50	SE	6	SE	2	.....	.....	5 s. cu., w	1 s. cu., 0	
14	29.45	29.33	70.0	83.5	91	68	65.2	78	68.5	47	SE	4	SE	2	.....	.....	0	0	≡°a.
15	29.39	29.30	72.5	85.0	90	68	67.0	76	71.0	50	SE	2	SE	1	.....	.....	1 ci. cu., 0	10 s. cu., w	≡°a.
16	29.33	29.24	74.2	70.0	80	62	69.0	77	67.0	86	SE	2	NW	12	.....	.01	10 s., s	10 n., nw	
17	29.32	29.50	53.2	53.5	62	50	51.2	88	47.5	64	NW	12	W	14	.16	T.	10 n., nw	4 s. cu., w	
18	29.64	29.62	46.5	59.5	63	44	42.0	69	48.0	42	W	4	SW	3	.....	.....	0	0	≡°a. ⌐
19	29.72	29.61	47.0	65.0	69	44	45.0	86	53.0	44	E	3	SE	2	.....	.....	0	0	≡°a. ⌐
20	29.68	29.56	49.5	68.5	77	48	47.5	87	59.5	59	0	0	E	1	.....	.....	0	0	
21	29.64	29.56	53.0	73.5	79	51	50.0	82	60.0	45	0	0	N	3	.....	.....	0	0	°a.
22	29.65	29.51	55.3	74.0	82	54	52.6	84	63.0	54	E	1	E	3	.....	.....	0	0	≡°a.
23	29.46	29.24	57.0	77.0	85	56	54.0	83	63.0	46	E	1	SW	6	.....	.....	0	0	≡°a.
24	29.45	29.42	46.0	59.0	64	45	40.2	60	49.0	48	N	12	N	6	.....	.....	0	0	
25	29.44	29.31	47.0	69.0	75	45	44.1	80	56.0	44	E	2	SE	2	.....	.....	0	0	≡°a. ⌐
26	29.36	29.22	54.0	77.0	84	50	48.0	65	61.0	39	SE	4	SW	4	.....	.....	6 ci., sw	3 ci. s., 0 (?)	
27	29.40	29.50	55.0	59.0	75	53	50.0	71	49.5	50	NW	15	NW	6	.07	.....	4 s. cu., nw	0	
28	29.66	29.62	46.0	64.0	69	44	43.0	79	54.0	52	E	2	E	2	.....	.....	0	0	≡°a.
29	29.70	29.61	49.5	70.0	77	47	48.0	90	56.0	40	SE	2	E	3	.....	.....	0	0	≡°a. ⌐
30	29.63	29.52	57.0	75.5	82	52	51.0	66	64.5	55	E	4	S	3	.....	.....	10 a. cu., sw	3 ci. s., nw	
Mn	29.50	29.42	60.5	73.8	80.9	57.4	56.1	76.8	62.4	53.4	SE	4.1	SE	4.4	1.16	.62	2.8 a. cu., sw	2.2 s. cu., nw	

OCTOBER, 1903.

1	29.59	29.52	65.0	70.3	74	63	61.0	80	65.8	79	SW	8	S	2	0.02	0.03	10 n., sw	2 s. cu., 0 (?)	
2	29.58	29.52	64.0	71.0	77	62	62.5	92	65.0	73	SE	1	NE	6	.26	.....	0	7 s. cu., w	≡°a.
3	29.53	29.36	62.5	78.5	86	61	61.0	92	67.5	57	E	2	SE	2	.....	.....	0	6 ci. s., w	≡°a. ⊃
4	29.40	29.39	70.0	70.0	82	67	68.0	68	66.0	81	SE	3	W	5	.....	.12	5 a. cu., sw	10 s., 0 (?)	◪
5	29.48	29.43	66.5	69.0	77	65	64.5	90	66.3	87	SE	1	SE	5	.01	T.	10 s. cu., se	10 s., 0 (?)	≡°a.
6	29.39	29.23	65.5	70.0	75	65	64.0	92	66.0	81	SE	6	SE	6	.15	T.	10 a. s., w	9 s. cu., sw	≡°a.
7	29.12	29.06	72.0	62.5	80	58	65.0	89	60.0	87	S	10	SW	11	.....	.71	3 a. cu., sw	10 n., 0 (?)	◪
8	29.20	29.36	52.5	57.0	62	51	46.0	60	49.5	59	SW	11	NW	8	T.	.....	0	10 s. cu., w	
9	29.46	29.51	52.0	56.0	61	50	48.0	75	48.0	55	NW	8	N	5	.....	.....	2 s. cu., nw	0	
10	29.58	29.48	44.5	54.0	62	44	41.5	78	44.9	48	N	12	NE	9	.....	.....	0	0	⌐
11	29.44	29.43	45.0	57.5	64	44	43.0	86	52.0	69	N	4	NE	10	.....	.....	2 ci. s., n	8 s. cu., 0 (?)	⌐
12	29.49	29.48	47.5	61.8	68	47	46.5	93	54.0	61	NE	4	NE	9	.....	.....	0	0	≡°a. ⌐
13	29.53	29.46	48.5	63.0	69	47	47.0	90	52.7	50	NE	3	NE	7	.....	.....	0	0	⌐
14	29.40	29.22	49.0	67.5	74	48	48.0	93	56.0	48	NE	1	E	6	.....	.....	Dense fog, 0	3 a. cu., sw	≡°a. ⌐⊕
15	29.23	29.20	56.0	62.0	71	55	53.0	82	55.5	66	SE	3	SW	6	.01	T.	3 ci. s., w	0	⌐
16	29.30	29.22	54.0	65.2	70	52	51.0	82	55.7	55	SW	2	SW	5	.....	.....	0	0	≡°a. ⌐◪
17	29.15	29.35	51.5	49.5	58	45	49.5	88	43.5	62	SW	6	NW	12	.....	T.	3 ci. s., w	10 s., 0 (?)	≡°a.
18	29.53	29.49	41.0	53.0	57	40	38.0	77	44.5	50	W	6	SW	4	.....	.....	0	0	
19	29.44	29.31	44.0	62.5	68	43	40.0	71	47.0	28	SE	4	SW	1	.....	.....	0	0	
20	29.32	29.36	54.0	67.0	75	52	46.0	54	56.4	52	SW	3	NW	5	.....	.....	0	0	
21	29.52	29.46	47.0	65.0	71	47	41.0	60	52.5	42	N	4	SE	1	.....	.....	0	0	
22	29.44	29.37	47.0	63.0	77	46	44.0	79	48.0	30	SE	6	NW	12	.....	.....	2 ci. s., w	8 s. cu., sw	≡°a. ⊕
23	29.53	29.58	44.0	44.0	51	39	40.0	71	36.0	44	NW	8	NW	10	.....	.....	2 ci. s., nw	2 s cu., nw	
24	29.61	29.54	32.0	44.5	47	31	29.0	69	35.5	38	N	4	NW	4	.....	.....	0	0	⌐
25	29.48	29.38	34.0	56.2	61	30	30.5	67	44.0	34	S	2	W	7	.....	.....	0	Few ci., w	≡°a.
26	29.66	29.78	40.0	46.0	51	40	36.0	68	37.0	40	NW	5	NW	6	.....	.....	0	0	
27	29.86	29.74	33.0	46.5	53	32	31.0	80	39.0	50	NE	1	SW	2	.....	.....	0	0	
28	29.72	29.62	32.5	57.3	65	30	30.5	80	41.7	29	0	0	W	2	.....	.....	0	0	≡°a.
29	29.64	29.55	36.0	58.2	67	34	33.5	78	44.3	29	SW	2	SE	1	.....	.....	1 ci., w	10 a. s., sw	≡°a.
30	29.58	29.52	43.5	60.5	69	42	40.6	74	46.2	30	SE	2	0	0	.....	.....	8 a. cu., w	0	≡°a.
31	29.56	29.57	47.0	61.0	66	45	41.0	79	54.8	57	SE	1	0	0	.....	.....	10 a. s., n	0	
Mn	29.48	29.44	49.7	60.3	67.4	47.6	46.4	78.0	51.5	53.9	SE	4.3	NW	5.5	.45	.86	2.3 ci. s., w	3.4 s. cu., w., sw	

CINCINNATI, OHIO.

[φ=39° 6′ N; λ=84° 30′ W; barometer above sea, 628 feet; gravity correction applied −.02.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.60	29.52	46.0	65.0	70	46	44.0	86	60.0	75	SE	1	SE	2	.....	.....	5 ci. s., w	10 s. cu., se	≡a.⊕
2	29.53	29.50	59.0	61.5	64	58	56.3	85	59.0	86	E	3	E	4	0.10	0.05	10 s., 0 (?)	1 a. cu., w	≡p.
3	29.56	29.50	57.0	67.5	75	54	54.0	83	62.0	74	NE	3	0	0	.01	.....	9 s. cu., se	0	≡a.
4	29.42	29.22	55.0	60.0	61	52	53.2	89	58.0	89	S	2	SW	5	T.	.36	10 n., 0 (?)	10 s., sw	≡a.
5	29.19	29.32	55.0	40.0	68	36	53.0	88	37.0	76	W	9	N	12	....	.03	8 s. cu., w	10 s., n	
6	29.52	29.63	31.2	37.5	41	30	29.0	77	33.0	62	N	12	N	6	.....	.....	Few s. cu., 0 (?)	0	
7	29.74	29.67	30.0	42.0	46	29	28.0	78	37.0	62	E	4	SE	2	.....	.....	0	0	
8	29.68	29.60	31.0	49.0	58	30	28.0	69	41.5	52	SE	4	SE	2	.....	.....	0	0	
9	29.57	29.35	34.0	54.0	63	33	32.0	81	45.0	48	SE	5	SE	2	.....	.....	0	0	
10	29.38	29.25	44.5	55.0	61	42	40.5	71	48.0	60	NW	5	E	2	.....	.....	4 ci., w	0	
11	29.07	29.17	54.0	44.0	67	41	47.8	64	40.0	71	SE	8	SW	10	T.	.25	10 s., 0 (?)	0	⌐◪
12	29.31	29.18	35.5	49.0	54	35	33.0	78	42.0	55	SE	6	SE	4	.....	.....	7 a. cu., w	0	
13	29.40	29.44	42.0	43.0	49	39	37.0	82	38.0	63	NW	10	NE	11	.....	.....	10 ci. s., 0 (?)	10 a. s., 0 (?)	
14	29.59	29.64	36.5	45.0	47	36	35.0	87	41.0	71	N	3	NW	2	.03	.....	7 a. cu., w	0	
15	29.56	29.26	37.0	58.0	58	35	35.5	87	49.0	52	E	6	NE	6	.....	.....	2 ci. cu., w	9 s. cu., sw	
16	29.10	29.03	63.2	62.0	68	48	60.3	86	59.0	84	SW	9	W	18	.37	.08	10 s., sw	10 s., w	⌐◪
17	29.32	29.55	40.5	30.0	48	23	38.0	80	27.0	68	NW	9	W	14	.08	T.	10 n., nw	0	
18	29.75	29.79	19.0	24.0	27	18	17.0	69	22.0	74	W	8	W	13	....	T.	9 s. cu., w	0	*
19	29.89	29.89	19.0	29.5	32	18	17.0	69	27.5	78	W	9	SW	6	.....	.....	0	0	
20	30.02	29.94	22.4	32.0	36	20	22.0	94	30.0	79	SE	3	NE	6	.....	.....	3 ci. cu., 0	0	≡a.
21	29.83	29.63	28.0	39.5	46	26	25.0	86	35.0	64	E	3	SW	2	.....	.....	9 a. cu., w	0	
22	29.53	29.43	35.0	43.5	51	34	31.0	64	36.0	46	SW	1	SW	1	.....	.....	2 s. cu., sw	0	
23	29.18	29.30	47.0	42.0	54	33	39.5	50	35.0	48	SW	13	NW	12	....	T.	10 a. s., 0	0	
24	29.48	29.54	28.0	35.0	39	28	26.2	79	31.0	64	W	6	NW	6	.....	.....	Few ci., 0	8 a. s., 0 (?)	
25	29.53	29.50	30.0	31.0	34	28	27.0	68	27.0	58	N	7	NW	10	.....	.....	10 s., n. (?)	8 s. cu., nw	⊕
26	29.52	29.65	20.0	20.0	29	19	18.0	70	17.6	65	NW	8	N	10	....	T.	7 a. cu., nw	0	*
27	29.69	29.50	16.0	25.5	28	14	15.0	83	23.0	69	NW	1	SE	3	.....	.....	0	0	
28	29.15	29.02	26.0	25.0	29	20	23.0	64	24.0	87	SE	7	N	6	....	.07	10 a. cu., w	10 n., n. (?)	*
29	29.06	29.17	29.0	30.0	34	22	28.0	89	28.0	78	W	10	W	12	.01	.01	10 n., 0 (?)	10 s., w	*
30	29.37	29.47	21.0	28.0	30	18	19.0	71	26.0	77	SW	12	SW	4	T.	T.	10 s., 0 (?)	10 s., sw	*
Mn	29.48	29.46	36.4	42.2	48.6	32.2	33.7	76.2	38.0	67.8	SE	6.2	{SE / SW}	6.4	.60	.85	6.1 a. cu., w	3.5 s., w., sw	

DECEMBER, 1903.

1	29.53	29.50	27.5	28.0	31	24	26.5	88	26.8	86	E	5	E	6	....	T.	10 s., e	10 n., w	*
2	29.52	29.46	20.5	28.0	32	18	19.5	86	26.0	77	NE	4	E	2	T.	.....	10 s., ne	0	
3	29.42	29.40	21.0	33.2	38	17	20.0	86	30.0	69	SE	4	SE	4	.....	.....	10 s., se	0	
4	29.42	29.46	31.0	36.2	40	28	30.0	89	31.7	61	S	2	W	9	.....	.....	10 s. cu., s	3 s. cu., w	≡a.
5	29.56	29.62	23.0	29.0	33	22	21.0	73	26.2	69	W	10	W	6	.....	.....	0	10 s., 0 (?)	
6	29.67	29.56	25.0	30.5	36	21	22.5	69	27.0	62	W	10	SW	5	.....	.....	2 s. cu., w	0	
7	29.35	29.34	29.0	40.7	46	28	27.0	78	34.2	50	SW	6	W	4	.....	.....	0	0	
8	29.37	29.25	27.0	32.8	35	26	26.0	88	30.0	73	NW	1	NE	6	.....	.....	8 s., 0	0	≡a.
9	29.08	28.99	26.5	32.5	37	26	25.0	82	31.7	92	NE	3	SW	6	....	T.	Few ci. s., 0	10 n., 0 (?)	≡a.*
10	28.95	29.31	24.0	21.0	31	20	23.5	94	19.0	71	W	18	SW	20	0.12	0.03	10 n., w	10 n., 0 (?)	*
11	29.40	29.52	17.0	28.5	31	15	16.0	84	26.0	72	SW	4	W	5	T.	.....	0	0	
12	29.27	29.00	35.0	45.3	52	20	31.0	64	42.3	79	SE	6	S	8	....	.07	10 ci. s., 0	10 n., 0 (?)	*
13	29.65	29.82	14.4	15.0	31	11	13.0	74	18.0	65	NW	9	W	8	.19	.....	0	0	*
14	29.90	29.80	11.8	21.5	25	10	11.0	84	19.0	64	NW	4	W	8	.....	.....	0	0	
15	29.78	29.70	11.0	24.0	26	9	10.0	79	21.1	62	W	10	SW	4	.....	.....	0	0	
16	29.58	29.50	21.2	26.0	30	19	19.0	68	24.0	75	SE	3	NE	8	.....	.....	10 a. s., 0	2 s. cu., ne	
17	29.63	29.67	16.5	24.0	26	16	15.5	84	22.0	74	NE	3	E	5	.....	.....	8 s. cu., ne	0	
18	29.71	29.59	16.5	31.0	35	15	15.5	84	27.0	58	SE	3	E	8	.....	.....	0	0	
19	29.46	29.14	32.0	38.8	42	26	30.0	79	37.2	87	SE	6	S	5	....	.07	10 a. s., 0	10 n., 0 (?)	
20	28.90	29.30	34.8	32.5	45	31	34.0	92	30.0	75	W	15	W	10	.77	.06	10 n., w	4 s. cu., w	*
21	29.28	29.16	33.0	42.0	43	28	30.0	71	37.0	62	S	5	SW	12	....	.01	5 ci. s., w	0	
22	29.46	29.61	28.0	31.0	39	26	26.0	77	27.0	58	NW	6	SW	6	.....	.....	8 a. s., nw	0	
23	29.65	29.58	28.0	42.8	48	26	25.5	71	37.0	57	SE	2	SE	5	.....	.....	0	10 a. s., 0	
24	29.31	29.23	37.5	43.2	45	37	37.0	96	42.0	91	SE	6	SW	7	.19	.12	10 n., se	10 s., sw	
25	29.14	28.85	34.5	36.0	40	13	32.5	82	34.0	82	SW	6	SW	6	T.	.02	10 s., sw	10 n., nw	*
26	29.51	29.50	4.0	12.0	14	3	3.2	78	10.2	64	W	10	SW	5	.01	.....	2 s. cu., w	0	
27	29.17	29.27	21.0	38.0	42	14	19.0	71	33.5	63	SW	10	W	10	.....	.....	1 a. s., 0 (?)	10 s. cu., nw	*
28	29.59	29.41	17.0	30.3	31	15	16.0	84	27.8	73	E	4	E	5	.02	.....	0	10 a. s., 0 (?)	
29	29.37	29.13	31.0	27.2	38	15	29.5	84	23.7	59	SW	10	W	11	....	.68	10 a. cu., sw	1 s. cu., w	*
30	29.71	29.49	5.2	24.0	25	5	4.4	79	21.0	61	W	8	S	4	.01	.....	0	7 s. cu., w	
31	29.55	29.26	19.0	38.0	44	18	17.5	76	33.5	63	E	1	S	3	.....	.....	8 s. cu., 0	0	
Mn	29.45	29.41	23.3	31.1	35.8	19.5	21.8	80.5	28.1	69.5	{W / SE}	6.3	{W / SW}	6.8	1.31	.41	5.2 s. cu., w	4.1 n., s. cu., w	

ST. LOUIS, MO.

[φ=38° 38′ N; λ=90° 12′ W; barometer above sea, 567 feet; gravity correction applied −.02.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.59	29.50	33.2	38.8	43	32	30.2	70	34.3	64	S	4	E	8	....	T.	1 s., s	10 n., ne	⊕
2	29.19	29.10	37.6	37.0	38	35	37.6	100	37.0	100	NE	10	NW	12	0.61	0.02	10 n., ne	10 n., nw	
3	29.28	29.28	36.0	31.6	37	30	35.2	93	28.6	69	NW	12	W	10	T.	T.	10 s., nw	10 s., w	
4	29.23	29.16	26.0	37.5	38	26	25.0	88	34.5	74	S	2	S	3	....	T.	8 s., s	10 n., s	*
5	29.27	29.43	27.4	27.0	35	24	26.4	88	24.5	70	NW	15	NW	9	.06	T.	10 n., nw	4 s., nw	*
6	29.37	28.96	28.0	40.0	43	27	25.9	76	35.0	61	SW	7	S	11	....	....	10 s., sw	9 a. s., w	
7	28.92	29.30	33.2	25.5	44	24	31.7	85	23.0	69	W	34	NW	25	T.	T.	10 n., w	10 n., nw	*
8	29.49	29.47	16.5	25.7	27	16	14.3	64	21.7	51	W	15	W	12	T.	T.	0	0	*
9	29.38	29.54	24.2	22.0	26	18	22.0	72	18.0	44	W	14	NW	10	....	....	0	0	
10	29.56	29.29	12.4	24.6	28	12	11.0	72	23.1	81	NE	6	E	8	....	T.	Lt. smoke, ne	10 n., e	*
11	29.14	29.51	18.1	10.5	24	9	17.1	84	8.0	46	NW	17	W	13	.35	.01	4 s. cu., nw	0	*
12	29.73	29.82	3.5	13.2	15	3	2.3	66	10.8	53	W	15	W	11	....	....	0	0	
13	29.74	29.60	10.0	35.0	38	10	8.7	71	31.8	70	S	4	S	4	....	....	Few ci. cu., 0 (?)	Few ci. s., 0 (?)	
14	29.66	29.69	28.0	35.1	35	27	26.2	78	30.6	58	W	9	SW	6	....	....	1 ci. s., w. (?)	0	
15	29.56	29.50	30.4	48.6	52	28	28.6	80	40.1	46	SW	13	SW	9	....	....	0	0	
16	29.43	29.33	41.2	48.3	49	39	38.2	77	42.3	60	SW	13	S	6	....	....	10 a. cu., sw	10 s., s	
17	29.36	29.56	40.0	34.9	45	30	39.2	94	32.0	73	NW	8	N	14	T.	....	10 s., nw	0	
18	29.72	29.75	23.0	30.0	32	22	20.3	63	26.0	56	N	12	NE	6	....	....	0	0	
19	29.68	29.49	23.3	35.5	39	23	20.3	59	30.0	51	SE	5	SE	6	....	....	0	0	
20	29.39	29.40	31.1	36.2	39	29	27.0	57	32.2	65	S	3	NW	9	....	.01	10 s., s	0	*
21	29.48	29.41	21.0	28.3	33	20	19.5	78	23.8	50	NW	9	NW	3	T.	....	0	0	*
22	29.32	29.40	31.2	39.0	49	26	29.0	77	35.0	68	S	9	NW	12	....	....	4 a. s., sw	0	
23	29.55	29.37	31.6	34.0	37	30	29.6	79	32.9	89	N	11	NE	12	....	.16	10 s., n	10 n., ne	* △
24	29.33	29.41	30.8	32.1	35	28	30.8	100	29.0	69	NW	11	W	6	.26	T.	10 n., nw	10 s., w	△
25	29.43	29.32	34.0	43.3	46	31	32.9	89	40.8	81	SE	4	SE	10	T.	....	10 s., se	0	
26	29.30	29.33	42.4	59.9	64	39	39.0	74	51.4	56	S	6	SW	2	....	....	0	10 s. cu., sw	
27	29.32	29.29	49.8	53.8	58	49	48.8	93	52.0	89	S	6	S	6	.04	.24	10 n., s	0	
28	29.27	28.98	43.2	59.1	62	43	43.2	100	55.6	81	S	3	S	18	T.	T.	10 s., s. (?)	0	≡2a. ⊕
29	28.84	29.30	57.2	33.1	61	30	55.2	88	31.6	85	S	17	W	21	....	....	4 a. s., sw	6 s., w	
30	29.60	29.64	29.0	43.4	44	29	27.0	77	36.0	46	W	14	SW	4	....	....	0	0	
31	29.52	29.22	37.0	47.0	50	37	34.4	77	41.8	65	S	8	S	13	....	T.	9 a. cu., sw	10 s., s. (?)	△
Mn.	29.41	29.40	30.0	35.8	40.8	26.6	28.3	79.6	32.0	65.8	S	10.2	S NW	9.7	1.32	.44	5.2 s., s., sw., nw	4.2 s., n., w	

FEBRUARY, 1903.

1	29.16	29.06	47.0	61.5	62	43	47.0	100	58.0	81	S	4	S	5	0.01	T.	10 n., s	2 a. s., sw	
2	29.36	29.39	43.0	44.0	61	41	40.6	82	41.5	82	NW	15	N	12	T.	T.	9 s., nw	5 s. cu., w	
3	29.15	28.73	38.0	40.0	45	38	37.2	93	39.6	97	NE	14	W	12	T.	1.01	10 n., ne	10 s., w	≡p. ⌐ a
4	28.95	29.49	24.0	25.5	41	23	22.8	85	23.0	69	W	46	W	22	T.	.01	10 s., w	10 s., w	*
5	29.74	29.71	18.8	35.0	36	19	17.7	82	30.5	58	W	11	SW	6	T.	....	0	0	
6	29.75	29.64	30.2	38.0	40	29	28.7	83	32.0	50	0	0	NE	8	....	....	D. smoke, 0	10 a. s., sw	
7	29.51	29.26	36.0	33.0	38	32	33.0	73	33.0	100	NE	9	NW	8	T.	.01	10 s., ne. (?)	10 n., nw	* △
8	29.36	29.49	29.7	34.4	36	29	28.7	89	31.9	77	W	14	E	2	.08	....	10 s., w	0	*
9	29.59	29.54	31.2	45.6	52	30	29.4	81	42.1	75	S	8	S	9	....	....	0	0	⊖
10	29.47	29.21	39.0	47.0	52	39	36.0	76	45.0	86	S	6	SE	8	....	.05	8 a. s., sw	10 n., se	
11	29.04	29.19	41.2	53.5	55	40	41.0	98	49.0	73	NW	10	SW	5	.31	....	10 s., nw	6 s. cu., sw	Lt. smoke, p.
12	29.28	29.40	39.0	37.0	51	33	37.2	86	33.5	70	N	12	N	17	....	....	0	10 s. cu., w	
13	29.58	29.67	33.0	33.4	35	32	31.0	80	30.5	71	N	14	N	15	....	.01	10 s., n	10 s., w	* △
14	29.65	29.52	31.0	34.6	36	30	29.8	87	33.5	90	NE	14	NE	10	.01	.01	10 s., ne	10 s., ne	
15	29.42	29.35	30.8	20.5	33	17	30.8	100	20.0	92	N	11	N	18	.60	.61	10 n., n	10 n., n	* △
16	29.44	29.42	7.0	4.8	17	2	6.0	76	3.8	74	N	15	NW	12	.01	T.	10 s., n	Few a. s., ne	*
17	29.55	29.38	− 6.2	15.0	16	− 6	− 6.8	73	14.0	82	W	10	S	15	....	T.	0	0	*
18	29.78	30.01	0	7.9	23	− 1	− .8	73	6.4	64	NW	22	NW	12	T.	....	0	0	*
19	30.01	29.81	6.0	24.8	26	3	4.8	69	22.3	68	S	5	S	9	....	....	7 a. s., 0 (?)	0	
20	29.87	29.67	20.0	37.4	38	18	18.5	77	33.4	65	W	4	S	9	....	....	0	0	
21	29.77	29.93	27.2	27.0	36	25	25.0	74	24.0	64	W	12	NW	8	....	....	0	0	
22	29.95	29.76	20.0	36.0	40	20	18.1	71	30.0	46	S	5	S	10	....	....	0	0	
23	29.71	29.83	35.5	37.0	46	34	31.0	59	34.5	78	S	10	NW	10	....	....	0	10 s., nw	
24	29.85	29.82	31.2	34.0	36	30	29.0	76	30.5	66	N	8	NE	6	....	....	0	0	
25	29.85	29.74	27.0	41.2	42	26	25.0	76	36.2	61	NE	8	NE	10	....	....	0	2 a. cu., sw	⊕
26	29.71	29.33	33.2	48.9	50	33	31.2	80	45.4	77	E	5	E	16	....	.01	7 s., e	10 s., e	
27	29.12	28.94	52.1	54.0	61	46	52.1	100	49.2	71	S	9	SW	9	.38	.02	10 n., s	9 s. cu., sw	
28	29.00	29.56	40.0	29.0	46	27	37.0	76	28.5	94	SW	22	W	19	....	T.	10 s., sw	10 s., w	*
Mn.	29.52	29.49	28.7	35.0	41.1	26.1	27.2	81.2	32.2	74.3	S	11.5	S	10.8	1.40	1.74	5.8 s., n	5.1 s., sw	

ST. LOUIS, MO.

[φ=38° 38′ N; λ=90° 12′ W; barometer above sea, 567 feet; gravity correction applied −.02.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.82	29.76	20.0	35.2	36	20	18.6	79	30.2	54	W	12	SW	14	.....	.....	1 s. cu., w	0.....	☁
2	29.79	29.76	28.3	36.6	44	28	26.0	73	34.1	78	S	4	S	6	.....	.....	3 a. cu., sw.....	3 s. cu., sw	☁ Lt. smoke, a.
3	29.76	29.71	33.2	42.2	44	32	31.7	85	38.2	69	S	5	S	4	.....	0.03	10 a. cu., sw ...	10 n., s.....	☁
4	29.65	29.51	44.0	47.0	47	42	40.4	73	45.9	92	SE	4	S	4	0.01	1.02	10 n., se.....	10 n., s.....	≡ p.
5	29.51	29.52	47.0	51.8	52	45	46.9	99	50.0	88	SW	3	N	4	T.	T.	D. fog, sw	10 s., 0 (?)	≡ p.
6	29.47	29.36	51.3	58.9	59	50	49.8	90	57.4	92	SE	7	S	6	.....	.27	10 s., se	10 s., s	≡
7	29.26	29.40	56.2	51.1	63	48	55.0	93	50.6	97	SW	8	N	16	.18	.17	10 n., sw	10 n., n	▲ ⌐ ⊻
8	29.61	29.63	39.0	51.4	53	39	37.0	83	45.9	65	N	14	NE	6	.14	.....	0.....	0.....	⌐
9	29.61	29.53	41.0	52.0	57	41	39.5	88	49.8	86	NE	6	E	7	.....	.....	0.....	10 s., e	⌐
10	29.49	29.68	49.2	53.0	55	49	49.2	100	50.0	81	N	8	N	10	.47	.02	10 n., n	10 s., n	
11	29.83	29.81	44.0	49.0	51	44	48.0	93	46.0	80	N	8	NE	8	.....	.....	0.....	10 s., ne	⌐
12	29.71	29.60	41.8	52.2	54	42	40.3	88	48.2	75	S	2	SE	4	.....	.....	10 s., s.....	0.....	
13	29.57	29.50	45.1	61.6	64	45	44.0	92	51.1	47	S	3	E	5	.....	.....	6 ci. s., w.....	1 ci. s., 0.....	⌐ ⊕ ⊕ ⊕
14	29.57	29.55	50.2	55.0	67	49	46.2	74	51.0	76	N	9	N	16	.....	.....	10 s., n	4 a. cu., sw.....	⊕ ⊕
15	29.61	29.49	41.7	56.5	59	41	41.7	100	55.0	91	NE	12	N	8	T.	T.	D. fog, ne	10 a. s., w	
16	29.45	29.35	53.1	67.0	69	53	52.1	94	62.2	77	NE	4	SE	4	.10	T.	10 n., ne	8 s. cu., sw	≡ a.
17	29.41	29.38	57.4	71.0	78	57	56.0	92	63.0	64	SE	4	SE	8	.....	.....	0.....	1 s., 0 (?)	
18	29.45	29.36	62.0	71.0	76	62	59.0	84	63.2	65	S	8	S	10	.....	.....	6 a. s., sw	4 a. s., se	
19	29.37	29.32	64.0	64.0	76	58	60.3	81	60.0	79	S	8	NW	19	.....	.03	4 a. cu., s.....	10 n., sw	
20	29.40	29.52	39.8	36.0	58	34	38.8	92	34.0	82	NW	20	W	8	.65	.01	10 s., nw	10 s. cu., w	
21	29.50	29.36	35.5	50.0	55	35	33.0	77	42.8	55	S	6	S	6	.....	.....	0.....	0.....	⌐
22	29.41	29.25	40.2	54.3	58	40	36.2	68	43.1	37	S	5	E	5	.....	.....	8 a. s., w	2 ci. s., 0 (?)	
23	29.22	29.41	40.0	40.0	50	34	38.5	88	34.0	53	W	18	W	13	.....	.03	10 s., w.....	Few ci. s., 0 (?)....	✱
24	29.53	29.59	29.1	42.4	44	29	27.1	77	38.2	68	SW	17	W	15	.03	.....	4 cu., sw	0.....	☁
25	29.75	29.64	33.5	53.5	54	33	31.0	76	43.0	40	NW	4	S	3	.....	.....	0.....	0.....	⌐
26	29.64	29.49	42.0	60.0	68	42	37.2	63	50.0	49	S	4	S	7	.....	.....	0.....	3 a. cu., w.....	
27	29.50	29.50	51.0	49.6	61	42	42.0	45	45.9	76	SW	2	N	17	.....	.....	4 a. s., sw	10 s., n	Lt. smoke, a.
28	29.65	29.71	41.0	45.0	47	38	38.5	89	39.2	59	N	17	N	14	.04	.....	10 s., n	2 a. s., ne.....	
29	29.72	29.51	32.8	48.9	51	32	30.8	80	40.4	45	NW	9	N	11	.....	.....	0.....	0.....	☁
30	29.37	29.28	38.0	55.0	59	38	35.0	75	46.0	49	N	8	N	5	.....	.....	0.....	4 a. s., w	⌐
31	29.36	29.30	45.0	67.8	70	44	41.0	71	51.8	31	NW	2	SE	8	.....	.....	6 a. cu., nw ...	Few a. s., 0.....	⌐ Lt. smoke, a.
Mn	29.55	29.51	43.1	52.5	57.4	41.5	40.8	82.4	47.1	67.7	S	7.8	N	8.7	1.62	1.58	4.9 s., sw	4.9 s., sw., w.....	

APRIL, 1903.

1	29.27	29.03	57.0	73.1	80	53	47.0	46	61.1	50	S	10	S	9	.....	.....	4 ci. s., 0 (?) ...	10 a. s., w	
2	28.94	28.88	64.0	72.5	85	55	59.0	75	63.0	60	S	14	N	12	.....	.....	9 ci. s., w.....	10 s. cu., sw	
3	28.86	29.42	46.0	39.8	55	32	45.0	93	36.3	72	NE	24	NW	10	0.18	0.39	10 s., ne.....	2 ci. s., sw.....	✱
4	29.59	29.55	40.0	52.5	55	37	36.0	68	44.5	52	W	6	E	5	.....	.....	3 a. cu., w.....	0.....	☁
5	29.61	29.33	41.0	54.0	58	41	38.0	76	45.0	48	SE	9	S	14	.....	.....	4 a. s., w	0.....	⌐
6	29.25	29.18	51.5	62.2	66	49	44.5	58	56.2	69	S	12	S	14	T.	.....	8 s., sw.....	9 s. cu., sw	
7	29.30	29.15	54.0	66.5	71	52	48.1	65	56.5	54	S	4	SE	4	.05	.04	2 a. cu., w.....	10 n., sw	
8	29.34	29.35	52.0	69.9	73	52	47.0	69	52.9	30	NW	6	SW	6	.36	.....	0.....	0.....	≡ a.
9	29.48	29.42	58.5	73.0	78	55	50.5	58	58.1	40	W	4	SE	8	.....	.....	0.....	8 a. s., 0 (?).....	
10	29.34	29.13	60.0	63.0	68	59	54.1	69	60.0	84	S	12	S	10	.03	.30	10 s., sw.....	7 s. cu., s	⊻
11	29.14	29.07	63.4	77.0	83	60	59.9	82	67.0	60	S	10	S	12	.27	.....	10 s., w.....	2 ci., w.....	⊻
12	29.07	29.05	67.0	66.5	82	58	63.2	81	63.5	85	S	10	SW	12	.....	.20	8 s. cu., sw	10 n., sw	⊻
13	29.00	28.99	50.2	45.5	69	44	48.7	90	43.5	86	NW	12	NW	15	.04	.20	10 n., nw.....	10 n., nw.....	
14	29.01	29.10	41.8	42.0	44	41	40.0	86	40.0	85	NW	19	NW	17	.06	.12	10 s., nw	10 n., nw.....	
15	29.18	29.28	41.0	45.8	47	41	39.0	84	42.9	80	N	12	NW	10	T.	T.	10 n., n.....	10 s., nw	
16	29.37	29.42	44.0	56.8	60	44	42.2	87	49.0	57	N	12	N	10	.02	T.	10 n., n.....	1 s. cu., n.....	
17	29.55	29.38	43.7	60.5	64	44	39.9	72	49.5	44	N	8	E	4	.....	.....	0.....	Few, a. s., 0	
18	29.29	29.02	52.4	66.9	72	51	45.9	60	54.9	46	S	5	S	12	.....	.....	8 s. cu., w	10 s., s.....	
19	28.97	28.94	50.0	56.4	70	54	52.0	77	53.4	82	S	8	NW	6	.01	.21	3 s. cu., s	10 s., ne	⊻
20	29.25	29.36	53.0	62.0	65	52	50.1	83	53.0	55	NW	13	N	12	.17	.....	7 a. s., w.....	1 a. s., nw	
21	29.51	29.44	52.0	52.5	63	47	47.0	69	45.0	56	W	9	N	12	.....	.....	10 s. cu., nw...	7 s. cu., nw.....	
22	29.47	29.47	44.1	53.0	54	42	40.0	70	44.2	48	NE	10	N	8	.....	.....	10 a. cu., nw ...	8 s. cu., nw.....	⌐
23	29.54	29.41	46.0	59.0	63	43	40.6	62	48.0	43	W	6	SE	8	.....	.....	0.....	10 s., nw	⌐
24	29.29	29.24	54.5	65.0	67	51	47.5	60	59.0	70	S	13	SW	4	.01	.04	2 ci. cu., w	9 s. cu., w	
25	29.42	29.52	48.0	46.0	56	44	44.6	77	43.2	80	NW	18	N	18	....	.01	10 s., nw	10 s., n	
26	29.59	29.52	43.0	60.2	63	40	38.0	63	46.8	33	N	8	SE	1	.....	.....	0.....	1 a. s., 0 (?).....	⌐
27	29.62	29.48	51.0	66.4	71	48	43.3	52	53.0	40	S	5	SE	12	.....	.....	1 a. s., 0 (?)	1 a. s., w	⌐
28	29.56	29.48	57.2	75.0	82	55	50.2	61	59.4	33	S	6	S	8	.....	.....	8 a. s., w	3 a. s., sw.....	
29	29.49	29.30	64.3	75.4	81	60	55.0	55	62.2	47	S	11	S	8	.....	.....	1 ci. s., w.....	10 s., s.....	
30	29.43	29.72	44.0	45.3	70	40	40.2	72	40.3	64	NW	27	NW	12	.08	T.	10 s., nw	1 s. cu., w	
Mn	29.32	29.29	51.4	60.1	66.8	48.1	46.6	70.7	51.7	58.6	S	10.8	S	9.8	1.28	1.51	5.9 s., w.....	6.0 s. cu., sw	

ST. LOUIS, MO.

[φ=38° 38′ N; λ=90° 12′ W; barometer above sea, 567 feet; gravity correction applied −.02.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 p. m.	8 a. m.	8 a. m.	8 p. m.	
1	29.81	29.57	43.5	55.0	59	39	40.0	74	45.0	43	NE	3	SE	10	.....	.....	0	0	
2	29.49	29.33	44.3	60.0	70	43	40.3	71	52.0	58	S	5	NW	22	.....	.....	0	10 s., nw	
3	29.56	29.60	47.4	56.0	59	47	43.4	72	45.0	39	NW	12	N	4	0.04	.....	8 s. cu., nw	0	
4	29.62	29.46	48.8	66.1	71	46	43.8	67	52.2	37	S	4	SE	10	.....	.....	1 a. cu., nw	0	
5	29.48	29.42	55.5	61.9	63	53	47.5	55	54.0	60	S	4	S	3	.....	0.04	10 a. s., sw	10 n., s	
6	29.44	29.44	55.5	59.8	62	54	53.0	85	55.5	77	E	5	NE	6	.06	.03	10 s., sw	10 s., s	
7	29.48	29.36	55.5	70.0	71	55	51.0	74	60.2	56	NE	12	E	7	.....	T.	10 s. cu., ne	Few ci. s., w	
8	29.41	29.28	57.0	73.0	76	55	50.0	61	60.8	49	NE	10	NE	8	.....	.....	0	7 s. s., s	
9	29.39	29.33	65.0	74.0	80	62	58.0	66	59.9	44	W	8	SW	8	.....	.....	8 a. cu., se	1 ci. cu., se	
10	29.36	29.27	65.5	73.8	80	63	59.2	65	61.0	48	S	3	S	3	.....	.....	Few a. s., se	9 s. cu., s	
11	29.38	29.30	65.5	75.0	78	64	58.5	66	62.7	50	S	7	E	7	.....	.....	9 ci. s., sw	9 s. cu., s	
12	29.38	29.40	65.9	65.3	76	64	60.4	78	62.0	83	SE	9	SE	6	.....	.03	10 s., se	10 n., se	
13	29.46	29.39	62.5	67.5	71	62	60.5	90	63.0	78	E	12	SE	8	.04	.17	10 n., e	10 s. cu., ne	
14	29.37	29.28	63.4	74.0	77	61	59.4	79	62.5	53	NE	8	NE	10	.03	.....	10 s., ne	5 a. cu., e	
15	29.38	29.29	60.0	77.0	82	60	56.8	83	65.0	52	NE	10	NE	5	.....	T.	9 s. cu., e	Few cu., ne	
16	29.39	29.34	69.8	77.0	86	65	61.0	61	65.0	52	NE	3	S	6	.....	.....	0	6 a. s., sw	
17	29.44	29.36	70.0	78.5	84	66	66.0	77	67.0	55	S	8	SE	10	.....	.....	4 a. cu., sw	8 a. s., sw	
18	29.40	29.28	67.0	73.5	78	66	64.5	88	68.0	76	S	8	S	10	.13	.04	10 s. cu., sw	2 ci. s., w	☐
19	29.26	29.28	67.0	79.5	84	66	62.5	78	67.2	53	S	8	S	8	.04	T.	10 s., s	0	
20	29.39	29.36	68.0	76.3	80	66	67.0	95	68.0	66	SE	6	S	3	.41	.....	10 s., se	10 s., s	☐⊕
21	29.34	29.27	69.0	78.0	83	67	65.4	83	70.5	69	S	6	SE	7	.....	.06	10 s. cu., s	5 s. cu., sw	☐
22	29.32	29.30	71.8	84.0	92	70	67.8	82	70.1	50	S	5	S	12	.....	.....	8 a. s., sw	Few s., s	
23	29.39	29.31	72.0	83.2	88	68	66.0	73	70.2	53	S	12	S	7	.....	.....	7 s. cu., sw	8 s. cu., sw	
24	29.38	29.37	72.2	73.0	82	71	66.2	73	66.5	71	S	5	NE	7	.....	T.	10 s. cu., s	10 s., sw	☐
25	29.40	29.34	71.0	73.5	84	69	61.0	56	67.0	72	S	8	S	6	T.	.01	6 ci., nw	Few cu., 0 (?)	☐
26	29.30	29.17	73.2	79.0	83	70	66.2	69	70.8	67	S	8	S	6	T.	.....	3 a. s., sw	8 s. cu., s	
27	29.11	29.28	69.4	76.5	80	68	64.0	75	61.8	43	S	12	W	15	.13	.....	4 s., sw	Few cu., w	☐
28	29.43	29.33	65.6	70.8	84	65	59.6	71	63.8	69	S	6	SW	2	.....	.....	1 ci., 0	9 s. cu., s	⊕
29	29.35	29.25	65.2	73.5	80	65	63.7	92	67.0	72	SE	10	SE	4	.14	.26	10 n., se	10 a. s., sw	☐
30	29.28	29.22	66.0	75.0	79	63	63.0	85	67.5	68	SE	11	SE	8	T.	.....	10 s., se	10 a. s., 0 (?)	☐
31	29.26	29.19	57.5	65.0	66	58	56.0	91	63.5	92	NE	19	NE	12	.37	.05	10 s., ne	10 s., e	☐
Mn.	29.40	29.34	62.9	71.8	77.0	61.0	58.1	75.2	62.4	59.8	S	8.0	S	7.7	1.39	.69	6.7 s. cu., sw	5.7 s. cu., s	

JUNE, 1903.

1	29.27	29.28	64.5	63.0	72	62	62.0	87	61.5	92	E	6	E	4	1.40	2.15	10 n., e	10 s., e	☐
2	29.40	29.45	64.5	69.0	73	61	62.0	87	63.0	72	E	7	S	3	T.	T.	10 s., e	10 a. cu., s	
3	29.51	29.46	65.0	65.0	73	63	60.0	75	62.0	85	SE	2	SE	8	.....	T.	10 s., se	10 n., se	
4	29.51	29.48	63.5	69.0	76	61	60.5	84	63.0	72	SE	6	E	6	.05	.02	10 s., se	10 s. cu., se	☐
5	29.52	29.49	63.5	67.2	75	62	60.5	84	62.2	76	SE	4	S	8	.11	.05	4 s., se	10 n., s	☐
6	29.54	29.45	65.5	74.5	78	60	62.5	85	65.0	60	NW	6	NW	6	.07	.....	0	0	
7	29.46	29.35	68.5	78.5	82	65	63.0	74	65.5	50	NW	7	NW	8	.....	.....	0	0	
8	29.37	29.26	68.5	81.3	85	65	65.5	86	66.3	45	W	5	SW	4	.....	.....	0	10 a. s., sw	☐
9	29.37	29.39	66.2	73.0	77	66	61.2	76	60.5	45	N	12	NW	8	T.	.....	Few cu., n	Few s. cu., w	
10	29.56	29.56	63.0	68.0	73	61	59.0	79	56.5	48	N	12	NW	10	.....	.....	0	8 s. cu., nw	
11	29.68	29.57	54.8	63.5	67	51	50.3	73	52.5	46	NE	13	N	12	.....	.....	0	3 s. cu., n	
12	29.63	29.49	53.0	62.1	62	50	46.0	58	52.0	50	N	12	N	11	.....	.....	0	3 cu., ne	
13	29.46	29.35	59.0	70.8	75	53	51.0	58	55.8	38	NW	10	NW	10	.....	.....	0	3 a. s., w. (?)	
14	29.40	29.34	65.1	78.0	81	60	55.0	52	61.0	37	W	8	NW	6	.....	.....	0	0	
15	29.40	29.34	68.5	80.2	88	63	57.5	51	61.1	32	NW	5	N	5	.....	.....	0	0	
16	29.37	29.31	72.5	79.0	86	67	61.0	52	66.2	51	W	5	N	16	.....	.....	0	4 a. s., nw	
17	29.46	29.39	64.0	74.0	76	60	52.0	43	57.1	34	NE	11	NE	8	.....	.....	0	0	
18	29.37	29.23	66.0	81.2	84	64	59.0	66	64.0	39	S	3	S	5	.....	.....	2 ci. s., 0 (?)	4 a. s., 0 (?)	
19	29.20	29.09	68.0	81.0	86	66	64.0	81	69.0	54	SW	6	W	10	.06	T.	10 s., sw	2 s. cu., w	☐
20	29.17	29.18	66.4	76.0	82	66	63.4	85	67.0	63	N	14	N	14	.....	.....	10 s., n	9 ci. s., 0 (?)	
21	29.26	29.07	67.2	80.0	84	65	62.2	76	68.5	56	E	5	SE	8	.....	.....	1 ci., w	10 s., se. (?)	☐
22	29.09	29.19	67.1	69.8	71	65	62.6	78	61.3	62	W	9	NW	9	.31	.93	10 s., w	0	
23	29.28	29.24	63.0	74.5	78	60	57.8	73	59.2	40	W	6	NW	8	.....	.....	0	4 a. s., w	
24	29.25	29.25	67.2	76.8	79	64	60.2	67	61.2	40	S	2	NE	8	T.	.....	9 a. cu., sw	0	⊕
25	29.33	29.32	69.5	77.2	81	66	61.0	62	61.0	38	E	5	NE	9	.....	.....	Few ci. s., 0 (?)	10 a. s., w. (?)	⊕
26	29.33	29.30	65.3	66.0	72	64	58.8	68	63.0	85	N	14	NW	13	T.	.34	10 s., n	10 s., e	
27	29.27	29.21	62.0	71.5	72	62	61.0	94	65.5	73	N	18	N	10	.19	.03	10 n., n	8 s. cu., ne	
28	29.24	29.16	68.5	76.8	83	64	63.0	74	64.8	52	0	0	SW	8	.....	.....	4 ci. s., w	Few s. cu., sw	
29	29.25	29.24	70.4	84.8	88	68	62.4	64	69.1	45	SW	12	SW	9	.....	.....	9 a. cu., sw	8 a. s., w	
30	29.34	29.25	74.8	86.0	90	73	67.8	70	73.0	54	S	12	S	8	.....	.....	8 a. s., 0 (?)	Few ci. s., 0 (?)	
Mn.	29.38	29.32	65.5	73.9	78.1	62.6	59.7	72.1	62.6	54.5	N	7.9	NW	8.4	2.19	3.52	4.2 s., n	4.9 a. s., s. cu., w	

ST. LOUIS, MO.

[φ=38° 38′ N; λ=90° 12′ W; barometer above sea, 567 feet; gravity correction applied, −.02.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.26	29.20	78.0	89.1	93	75	71.2	72	74.8	52	S	14	S	10	.....	.....	2 ci. s., sw	Few cu., s	
2	29.30	29.26	78.7	86.2	89	77	72.2	73	74.0	56	S	8	S	9	.....	.....	9 a. s., s	8 ci. s., sw	⊖
3	29.40	29.29	77.0	86.2	91	76	73.0	83	73.8	56	S	4	S	11	T.	T.	10 s., s	10 ci. s., 0 (?)	⊕
4	29.34	29.38	81.0	80.0	90	77	74.0	72	70.6	63	S	6	NW	10	.....	T.	3 cu., s	10 a. s., s	
5	29.56	29.51	72.6	82.0	84	71	65.0	67	66.0	42	NW	7	N	8	.....	.....	3 ci. s., w	Few ci., 0 (?)	
6	29.58	29.48	75.2	86.0	90	72	66.0	61	67.0	37	E	4	SW	10	.....	.....	2 ci., w	8 ci. cu., sw	
7	29.51	29.41	78.0	88.1	91	75	71.0	71	71.1	43	S	3	0	0	.....	.....	9 a. cu., s	10 a. s., 0 (?)	⊕
8	29.47	29.40	80.6	88.2	96	78	73.1	70	76.4	59	SW	4	S	5	.....	.....	0	4 ci. s., 0 (?)	
9	29.45	29.33	80.0	92.0	98	77	74.0	76	76.6	60	S	2	S	8	.....	.....	1 ci., 0	0	⊓◪
10	29.40	29.32	83.0	88.2	96	75	75.2	70	77.2	61	SW	5	S	4	.....	0.30	0	3 ci. s., w	⊓◪
11	29.34	29.25	81.9	80.2	94	74	72.9	65	72.2	64	E	2	W	18	.....	.05	Few a. cu., w	10 n., w	⊓◪
12	29.31	29.32	72.0	81.0	85	72	69.0	86	65.0	42	N	9	N	14	0.12	T.	10 n., n	0	
13	29.46	29.39	68.2	78.1	81	65	59.7	61	61.0	37	N	9	NW	8	.....	.....	0	8 ci. s., nw	
14	29.44	29.36	70.6	81.1	83	67	59.1	51	68.8	54	W	3	S	6	T.	T.	4 s. cu., w	4 s. cu., w	
15	29.41	29.35	74.6	85.0	87	73	70.1	80	71.0	50	S	3	E	6	.....	.....	9 s. cu., n	10 s. cu., sc	⊓◪
16	29.35	29.33	75.0	82.0	85	69	72.5	89	73.0	66	S	2	S	3	.01	.....	10 s. cu., w	8 a. s., w	
17	29.31	29.06	74.5	88.8	93	73	73.0	93	75.0	53	SE	5	S	14	.18	T.	10 s., sw	2 a. s., 0 (?)	⊓◪
18	29.26	29.31	74.0	80.0	83	71	70.8	85	68.0	54	W	10	NW	6	.55	.01	10 s., w	Few cu., nw	
19	29.38	29.32	71.5	83.5	86	68	64.5	69	66.0	39	W	7	NW	7	.....	.....	0	0	
20	29.39	29.36	72.8	83.8	87	70	61.8	54	66.3	39	NW	8	NE	2	.....	.....	0	9 a. s., nw	
21	29.33	29.29	74.9	86.1	91	75	66.9	66	72.7	53	W	10	W	11	T.	.....	9 s. cu., nw	2 s. cu., w	
22	29.43	29.46	73.2	80.0	86	72	64.0	61	66.1	47	NW	5	N	14	.....	.....	1 ci., nw	10 s., nw	
23	29.50	29.46	74.0	84.0	87	72	64.5	60	67.0	41	E	3	NE	10	T.	.....	8 ci. s., w	0	
24	29.53	29.44	72.3	86.1	90	70	63.8	63	68.3	40	NE	8	E	10	.....	.....	0	0	
25	29.54	29.47	74.0	90.6	95	72	64.5	60	70.6	37	E	4	S	5	.....	.....	4 s. cu., sw	Few s. cu., s	
26	29.58	29.47	78.0	89.1	94	76	71.0	71	74.8	52	SW	1	SW	7	.....	.....	0	0	
27	29.50	29.36	79.1	89.5	93	76	71.0	68	72.2	43	W	4	0	0	.....	T.	0	0	
28	29.35	29.23	80.2	86.0	94	78	72.2	68	73.5	56	SW	8	W	12	.....	T.	0	8 s. cu., sw	⊓◪
29	29.26	29.22	78.0	75.2	86	72	72.0	75	73.0	90	SW	12	SW	6	.....	1.46	8 s. cu., sw	10 n., s. w	⊓◪
30	29.39	29.40	71.7	74.2	79	70	65.7	73	63.7	56	N	13	NE	12	T.	.....	8 ci. s., w	9 s., ne (?)	
31	29.50	29.48	67.5	75.5	77	66	60.5	67	63.0	50	NE	10	NE	9	T.	.....	9 s. cu., w	6 ci. s., 0 (?)	
Mn	29.41	29.35	75.6	84.1	88.8	72.7	68.5	70.3	70.3	51.1	S	6.2	S	8.2	.80	1.82	4.5 s. cu., w	4.8 ci. s., w	

AUGUST, 1903.

1	29.52	29.49	68.2	77.3	80	66	63.7	78	68.2	63	SE	8	0	0	.....	0.02	0	8 s. cu., sw	
2	29.62	29.59	74.0	79.0	92	72	68.0	74	72.3	72	SW	15	E	2	T.	.15	9 n., sw	8 s. cu., e	▲◪
3	29.66	29.44	77.0	89.2	94	74	71.0	74	75.1	52	S	4	SW	12	.....	.....	3 a. cu., sw	4 a. s., sw	
4	29.43	29.32	78.2	83.1	94	77	71.7	73	74.0	65	SW	18	SE	8	.....	.04	Few ci. cu., sw	5 cu., se	◪
5	29.31	29.30	79.0	73.0	94	68	73.0	75	67.6	76	SW	5	S	7	.....	.37	0	3 a. s., 0 (?)	▲◪
6	29.40	29.40	72.0	80.0	84	71	68.0	82	67.5	52	W	9	N	7	0.02	.....	10 s. cu., w	0	
7	29.54	29.44	66.0	77.4	80	65	60.0	71	63.9	47	N	7	N	7	.....	.....	Few ci., nw	4 a. s., nw	
8	29.28	29.20	68.2	79.0	82	68	62.7	74	71.0	68	NW	3	SW	8	.01	.....	10 s., w	4 s. cu., sw	
9	29.30	29.35	69.0	81.2	84	67	65.2	82	65.7	44	W	7	E	3	.....	.....	5 ci. s., w	3 a. s., w	
10	29.33	29.31	73.2	82.5	88	69	66.7	71	71.5	58	S	7	N	4	.....	T.	5 a. cu., sw	7 s. cu., n	⊓◪
11	29.47	29.41	68.0	77.0	81	65	59.5	61	67.0	60	N	6	N	12	.48	.....	9 s., w	8 a. s., nw	
12	29.48	29.40	65.6	74.8	77	63	62.1	83	68.8	74	E	2	S	4	.77	.....	3 s. cu., w	10 s., s	
13	29.37	29.35	70.2	71.0	76	68	66.7	83	67.5	84	S	7	E	4	T.	.97	10 s. cu., sw	9 a. cu., w	⊓◪
14	29.44	29.40	67.2	81.8	84	65	65.7	92	73.8	69	NE	4	E	2	.....	.....	10 s., ne	0	≡a
15	29.41	29.33	72.5	80.0	85	71	70.0	89	75.0	79	S	5	S	6	.....	.36	6 a. cu., sw	1 a. s., 0 (?)	⊓◪
16	29.40	29.40	69.3	75.0	75	68	69.3	100	70.0	78	NE	10	N	8	.....	.....	D. fog, ne	6 a. s., nw	
17	29.44	29.38	67.8	78.0	83	67	65.0	86	67.0	57	NE	8	NE	10	.....	.....	1 a. s., w	0	
18	29.36	29.26	67.5	81.0	84	66	62.0	74	67.4	49	NE	3	NE	10	.....	.....	0	0	
19	29.30	29.25	71.2	79.3	85	70	65.2	73	69.8	62	NE	2	NE	6	.....	T.	2 ci. s., w	Few s. cu., ne	⊓◪
20	29.38	29.37	66.0	79.0	81	65	61.6	78	65.0	47	NE	4	E	3	.....	.....	0	Few s. cu., e	
21	29.44	29.33	68.5	82.0	86	66	61.0	66	65.0	40	S	6	SW	12	.....	.....	0	0	
22	29.40	29.29	69.0	85.0	89	67	62.0	68	68.0	42	SW	7	SW	12	.....	.....	0	0	
23	29.35	29.25	73.0	88.0	93	70	67.0	73	75.0	55	SW	11	SW	12	.....	.....	8 s. cu., sw	1 s. cu., sw	
24	29.35	29.30	78.6	90.0	95	77	72.6	75	74.0	47	S	7	SW	12	.....	.....	1 a. s., w	1 a. s., sw	
25	29.38	29.36	79.2	84.3	89	78	72.7	73	75.8	68	SW	12	SW	10	.....	.....	6 a. s., sw	8 s. cu., sw	
26	29.41	29.28	73.0	85.0	88	69	71.5	93	79.0	77	SE	5	SE	8	1.92	.23	10 s., se	3 a. s., 0 (?)	⊓◪
27	29.26	29.17	76.2	78.0	92	72	73.2	87	73.5	81	SW	12	SE	6	.....	T.	9 a. s., se	3 s., se	⊓◪
28	29.27	29.28	70.0	80.1	85	69	69.0	95	66.9	50	SW	12	N	4	.68	.....	9 a. s., sw	2 a. cu., nw	⊓◪
29	29.32	29.35	68.0	69.0	74	67	62.0	72	63.0	72	NW	12	NW	12	.....	.....	0	10 s. cu., nw	
30	29.42	29.40	63.5	68.6	78	62	60.0	82	60.1	61	N	9	N	9	.....	.....	8 s. cu., n	2 s. cu., n	
31	29.49	29.46	58.8	67.5	70	57	55.8	83	60.0	65	NW	10	NE	9	.....	.....	5 s. cu., n	9 s. cu., ne	
Mn	29.40	29.35	70.6	79.2	84.4	68.4	65.9	78.7	69.3	61.7	SW	7.5	n., sw	7.4	3.83	2.14	4.5 s. cu., sw	3.8 s. cu., sw	

ST. LOUIS, MO.

[φ=38° 38′ N; λ=90° 12′ W; barometer above sea, 567 feet; gravity correction applied −.02.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.52	29.49	61.5	73.0	76	61	59.0	86	63.0	58	NE	6	NE	5	.....	.....	0	0	
2	29.58	29.50	63.3	79.0	81	62	61.2	89	63.0	41	0	0	SE	4	.....	.....	0	0	Lt. smoke a.
3	29.52	29.43	67.4	82.0	86	66	62.4	75	69.5	54	SW	7	S	5	.....	.....	0	3 ci. s., sw	
4	29.49	29.43	69.8	83.4	88	68	62.8	68	72.2	58	SW	7	NE	5	.....	.....	7 a. s., sw	1 a. s., w	
5	29.48	29.44	64.5	74.4	79	64	64.0	97	68.4	74	NE	6	E	8	.....	.....	D. fog, ne	1 a. s., w	
6	29.49	29.30	64.8	83.5	88	64	64.3	97	76.0	71	SE	4	SE	12	.....	.....	8 s., se	2 ci. s., w	
7	29.33	29.19	72.0	85.5	92	70	67.0	78	73.5	57	S	7	S	12	.....	.....	2 s. cu., s	0	
8	29.34	29.36	76.0	73.5	80	68	71.0	78	70.0	84	SW	14	S	5	T.	0.98	10 n., sw	10 s. cu., s	☐
9	29.45	29.29	72.1	82.5	88	71	68.0	82	73.0	64	S	6	S	10	0.05	.....	10 ci. s., 0 (?)	6 ci. s., n	☐
10	29.39	29.44	66.5	86.0	78	61	65.0	92	64.0	90	NW	11	E	3	.43	.02	10 s., nw	10 s., e	
11	29.46	39.39	66.0	81.5	87	64	66.0	100	75.5	76	SE	6	SE	10	.....	.....	D. fog, se	0	
12	29.38	29.31	72.5	80.0	83	71	68.5	82	74.0	76	S	11	S	10	.....	.....	6 a. cu., s	10 a. s., s	
13	29.41	29.36	74.0	74.0	84	72	72.0	91	72.8	94	S	6	NE	8	.....	T.	2 a. s., s	10 s. cu., sw	
14	29.40	29.34	74.0	75.0	89	73	72.0	91	73.0	91	S	7	NE	6	.....	.....	Few s. cu., s	10 s. cu., ne	☐
15	29.39	29.38	72.5	74.0	86	63	69.0	84	73.0	95	SW	4	SW	4	T.	1.06	10 s., sw	8 s. cu., sw	☐
16	29.53	29.53	52.5	49.0	63	48	52.0	97	48.0	93	N	15	NW	11	.08	.35	10 n., n	10 n., nw	
17	29.61	29.60	45.5	58.0	60	45	44.0	89	53.0	72	W	12	NW	6	T.	.....	0	Few s. cu., nw	
18	29.70	29.61	50.8	61.0	65	48	47.3	78	55.0	68	SE	2	SE	10	.....	.....	0	0	Lt. smoke a.
19	29.67	29.57	54.1	68.0	75	54	50.6	79	61.0	67	S	5	S	10	.....	.....	0	0	
20	29.64	29.56	57.0	73.0	79	55	55.0	88	64.5	63	SE	6	S	6	.....	.....	3 ci., w	0	
21	29.68	29.61	60.0	76.5	80	58	57.0	83	65.0	54	S	3	S	1	.....	.....	0	0	Lt. smoke a.
22	29.68	29.56	64.3	79.0	83	63	59.3	74	64.5	45	S	2	SW	4	.....	.....	0	0	
23	29.54	29.46	64.2	65.3	81	59	57.2	65	54.2	48	SW	12	N	18	.....	.....	10 a. s., sw	0	
24	29.59	29.47	48.0	64.0	65	48	44.5	76	56.5	63	NE	10	NE	2	.....	.....	0	0	
25	29.42	29.26	54.0	71.0	79	53	49.0	70	62.0	60	S	7	S	11	.....	.....	0	0	
26	29.26	29.32	65.0	59.0	83	54	59.6	73	58.5	97	S	18	NW	25	.....	T.	7 a. cu., sw	10 n., nw	
27	29.58	29.61	48.2	63.1	66	48	46.7	90	54.1	55	NW	10	NE	3	.09	.....	0	0	
28	29.70	29.63	54.0	69.0	73	53	50.0	76	67.0	90	SW	7	S	7	.....	.....	0	3 s. cu., s	
29	29.65	29.56	57.0	70.0	75	55	51.0	66	60.0	55	S	6	SW	7	.....	T.	9 a. cu., sw	10 s., sw	
30	29.48	29.46	65.1	74.2	77	64	59.0	70	70.7	84	S	11	S	10	T.	T.	10 s., s	8 n., s	
Mn	29.51	29.45	62.6	72.2	79.0	60.1	59.1	82.1	65.2	69.9	S	7.6	S	7.9	.65	2.41	3.8 s., sw	3.6 s. cu., s., sw	

OCTOBER, 1903.

1	29.53	29.54	66.5	69.0	76	66	65.0	92	68.0	95	S	12	SW	12	0.02	.....	3 ci. s., sw	0	
2	29.62	29.49	62.0	78.1	82	62	62.0	100	73.0	79	S	5	S	6	.....	.....	D. fog, 0	Few ci. s., 0 (?)	
3	29.44	29.33	69.8	79.5	87	69	67.8	90	77.5	91	S	11	SW	16	.....	.....	3 ci. s., w	6 s. cu., sw	☐
4	29.40	29.44	68.4	68.7	76	65	66.9	93	66.2	88	E	8	S	12	T.	0.08	10 s., e	8 s. cu., s	☐
5	29.52	29.41	63.5	71.0	74	63	63.0	97	69.0	90	NE	8	SE	5	.04	T.	10 n., ne	6 s. cu., se	
6	29.29	29.00	65.2	73.5	80	65	63.7	92	69.5	82	S	10	SE	18	.....	.....	8 s. cu., s	4 s. cu., se	
7	28.97	29.28	59.0	61.0	74	55	59.0	100	54.0	64	SE	16	NW	24	.95	.03	10 n., se	3 s. cu., nw	☐
8	29.38	29.52	52.0	59.0	62	52	46.8	68	54.0	72	NW	15	NW	11	.....	.....	0	0	
9	29.65	29.64	48.6	57.0	60	48	46.0	82	52.0	71	NW	9	NE	10	.....	.....	0	0	
10	29.69	29.54	44.2	60.0	63	44	42.2	85	54.0	68	SE	5	E	5	.....	.....	Few ci., ne. (?)	0	
11	29.52	29.44	46.2	61.0	64	46	44.2	86	54.0	64	E	4	E	5	.....	.....	Few ci., 0	0	
12	29.50	29.46	48.0	61.5	67	48	47.0	93	57.0	76	E	3	E	8	.....	.....	0	0	Lt. smoke a.
13	29.49	29.41	52.1	68.0	74	50	51.0	93	60.5	65	E	5	E	9	.....	.....	0	0	
14	29.31	29.22	57.5	64.4	69	56	54.5	83	56.2	60	SE	4	S	13	.02	.....	5 s. cu., se	9 s. cu., s	
15	29.17	29.26	55.0	63.5	68	55	54.5	97	58.5	74	SW	8	W	9	.22	T.	10 n., sw	7 s. cu., w	
16	29.37	29.32	53.5	57.0	64	52	52.0	91	53.5	80	SW	6	SW	13	.....	.....	3 a. s., sw	0	
17	29.40	29.60	47.1	49.5	52	47	40.0	53	44.0	64	NW	13	NW	14	.....	.....	0	0	
18	29.69	29.52	38.0	56.9	60	38	36.5	87	49.0	56	W	6	S	12	.....	.....	0	0	⌐
19	29.41	29.32	46.5	70.5	75	46	43.0	75	58.0	46	SW	16	SW	12	.....	.....	0	0	
20	29.37	29.46	57.0	70.2	75	57	52.1	72	58.0	47	W	10	N	9	.....	.....	0	0	
21	29.51	29.46	52.2	70.7	77	52	49.0	80	58.7	49	E	6	S	5	.....	.....	Lt. smoke, 0	0	
22	29.47	29.63	58.0	54.0	64	45	54.5	80	47.0	59	W	9	N	12	.....	.....	6 s., w	0	
23	29.74	29.69	41.0	52.0	55	41	39.0	84	45.0	57	N	14	NE	8	.....	.....	Few s. cu., n	2 s. cu., ne	
24	29.77	29.63	34.9	49.0	52	35	32.5	78	41.5	51	NE	6	SW	3	.....	.....	4 s. cu., ne	0	⌐
25	29.53	29.53	40.5	61.2	74	40	37.1	72	50.7	47	SW	12	N	13	.....	.....	0	0	
26	29.80	29.87	42.8	50.0	57	43	39.0	71	42.0	49	N	12	NE	10	.....	.....	0	0	
27	29.93	29.80	36.5	52.0	57	36	34.0	78	45.5	60	SE	4	SE	5	.....	.....	Few ci., 0	0	
28	29.76	29.65	41.5	58.0	64	42	39.0	80	45.5	34	S	3	SE	8	.....	.....	Lt. fog, 0	4 ci., w	☐
29	29.61	29.51	46.5	60.5	64	46	39.5	52	59.5	94	SE	7	SE	8	.....	T.	8 s. cu., sc	10 s. cu., sc	☐
30	29.52	29.46	52.0	64.0	70	52	48.9	80	58.5	63	SE	8	SE	9	.01	.....	10 s. cu., sc	7 ci., w	
31	29.50	29.52	54.5	62.5	72	54	52.0	85	57.0	71	SE	18	SE	8	.....	.....	4 a. cu., s	4 ci., s	
Mn	29.51	29.48	51.6	62.4	67.9	50.6	49.1	82.9	56.0	66.6	SE	8.6	SE	10.1	1.26	.11	3.0 s. cu., se	2.3 s. cu., se., s., w.	

ST. LOUIS, MO.

[φ=38° 38′ N; λ=90° 12′ W; barometer above sea, 567 feet; gravity correction applied −.02.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.51	29.47	55.5	63.5	68	55	54.0	91	60.0	82	E	3	E	7	T.	0.24	10 n., sw	10 s. cu., e	≡ⁿa
2	29.46	29.50	61.5	65.0	70	60	61.0	97	61.5	82	SE	5	SE	9	0.12		10 s., se	0	
3	29.56	29.52	56.2	67.0	71	54	53.2	82	63.0	80	SE	2	E	5			0	3 s. cu., e	Lt. smoke a. ᴗ
4	29.42	29.33	58.6	62.0	67	52	52.1	91	56.5	72	E	1	W	6		.02	1 a. s., s	10 n., w	Lt. smoke a. ⌐4
5	29.34	29.48	54.0	44.0	57	39	52.0	88	43.0	93	N	7	NE	11	.06	T.	10 s., n	10 s., ne	
6	29.62	29.66	33.0	43.5	46	32	32.0	90	41.5	85	NE	10	E	4			0	0	
7	29.73	29.63	34.0	46.0	51	33	31.0	71	42.5	75	SE	8	SE	9			0	0	
8	29.60	29.51	39.0	55.0	63	38	37.5	87	47.0	54	S	7	SE	12			0	0	
9	29.45	29.43	46.0	51.5	66	45	42.5	75	47.0	72	S	10	NW	15		T.	0	0	
10	29.44	29.12	40.0	55.5	58	39	38.0	84	50.0	68	SE	7	S	12			0	4 ci. s., sw	≡ⁿa.
11	28.97	29.26	46.0	45.5	63	40	44.0	86	39.0	56	W	24	SW	9	.05	T.	10 n., w	0	
12	29.22	29.22	42.0	57.0	65	37	37.5	66	46.5	44	S	12	NW	12			2 ci. cu., sw	0	
13	29.44	29.45	37.5	42.0	49	37	36.0	87	37.5	66	E	6	E	10		T.	10 s., e	10 s. cu., e	△
14	29.67	29.63	33.0	43.5	48	32	32.5	95	42.5	92	NE	9	E	8			10 s., ne	4 s., e	
15	29.42	29.10	40.5	61.8	68	37	39.0	88	57.0	75	SE	16	S	13			10 s. cu., se	0	
16	29.08	29.39	57.0	38.0	68	31	56.5	97	36.0	83	N	18	NW	26	T.	T.	10 n., n	10 s., nw	*
17	29.63	29.82	22.1	23.0	31	20	21.5	92	22.5	93	NW	22	NW	24			4 s., nw	0	
18	29.94	29.93	14.0	26.2	28	14	13.5	90	22.2	51	W	12	W	8			0	0	
19	30.00	29.96	18.9	32.7	34	19	17.2	74	27.2	45	W	8	SE	3			Few s., 0	Few s., 0	
20	30.01	29.93	26.3	36.5	41	26	24.8	81	30.0	43	SE	8	SE	6			6 s., se	4 s., se	
21	29.84	29.64	27.5	45.0	48	28	25.0	70	35.5	34	SE	5	SW	12			Few s., 0	6 s. cu., sw	
22	29.57	29.40	42.0	50.0	53	39	33.0	33	41.8	49	SW	10	S	11			10 s., sw	4 a. s., sw	
23	29.35	29.50	45.5	44.0	54	30	41.0	68	37.5	53	NW	18	W	20			10 s., nw	0	
24	29.63	29.64	27.5	29.0	34	26	25.0	70	29.0	100	NW	6	NE	10		T.	9 s. cu., nw	10 n., ne	*
25	29.65	29.69	28.0	30.0	34	27	27.5	94	28.0	78	NE	11	NW	12	.12	T.	10 s., ne	9 s. cu., nw	*
26	29.80	29.79	17.5	20.6	27	16	16.5	84	18.0	61	N	17	NE	6			Few s., n	0	
27	29.71	29.47	20.5	32.3	35	19	18.5	70	28.3	60	SE	12	SE	7			10 s. cu., n	Few s., se	
28	29.98	29.28	29.5	36.0	41	29	26.0	62	33.0	73	SW	18	NW	22			Few a. s., sw	10 s. cu., nw	
29	29.26	29.42	33.2	29.0	36	26	30.0	69	26.0	67	W	15	NW	19		T.	Few s., w	10 s., nw	*
30	29.57	29.51	22.5	29.0	31	22	20.5	72	26.5	72	NW	12	SE	3	T.		2 a. s., n	9 s. cu., se	
Mn	29.53	29.52	36.8	43.5	50.2	33.4	34.6	80.1	39.2	68.6	SE	10.6	{se / nw}	11.0	.35	.26	4.8 s., n	4.1 s. cu., s., e., nw.	

DECEMBER, 1903.

1	29.52	29.55	26.2	28.5	33	25	25.0	85	26.0	72	SW	3	NE	10	T.	T.	10 n., sw	10 s., ne	*
2	29.56	29.36	26.0	32.7	36	26	24.0	75	28.2	56	E	4	SE	17			3 s. cu., e	5 a. s., w	Lt. smoke a.
3	29.36	29.41	30.0	46.0	50	30	27.2	70	38.0	46	SW	10	W	7			Few s. cu., sw.	Few ci., 0	
4	29.54	29.60	29.1	29.0	38	24	26.0	65	25.5	60	W	12	W	18		T.	Few s. cu., w.	3 s. cu., w	*
5	29.69	29.77	19.8	28.0	30	20	17.6	67	25.5	71	NW	11	NW	9			0	7 s. cu., nw	
6	29.80	29.65	20.0	38.3	42	19	18.1	71	29.8	30	W	10	SW	16			0	0	
7	29.43	29.47	36.3	39.8	47	33	30.3	48	31.8	38	W	11	N	8			0	0	
8	29.48	29.39	23.8	31.0	35	23	20.3	55	27.0	58	NE	9	N	10			2 a. s., 0	8 s. cu., n	
9	29.15	29.10	26.1	28.9	32	26	24.1	75	28.4	94	S	6	NW	19	T.	0.03	10 s., s	10 n., nw	*
10	29.27	29.36	15.5	24.0	26	14	14.5	82	23.0	87	NW	18	W	14	T.	T.	10 s., nw	10 n., w	*
11	29.50	29.39	24.2	31.5	35	23	23.0	84	28.0	64	NW	10	SE	15	T.		10 s., nw	8 s. cu., se	
12	29.05	29.36	47.0	22.0	51	11	44.9	85	22.0	100	S	24	NW	20	0.09	.50	10 s., s	10 n., nw	*△
13	29.87	29.91	2.0	10.7	13	1	0.0	39	9.3	70	N	7	E	4	.01		0	10 s. cu., e. (?)	
14	29.98	29.93	9.7	18.0	20	9	9.0	84	16.0	68	NE	6	NW	10			0	Few s., nw	
15	29.92	29.71	13.2	24.0	28	11	11.0	57	21.5	67	N	2	SE	12			0	0	Lt. smoke a.
16	29.50	29.58	26.1	30.0	35	24	24.0	74	27.7	75	SW	9	NE	15			0	6 a. cu., nw	
17	29.73	29.65	15.0	30.5	33	15	12.5	55	27.5	68	NE	8	E	5			0	0	
18	29.57	29.40	24.0	45.0	46	24	21.0	60	39.0	58	SE	10	S	14		T.	0	10 s., s	
19	29.23	29.11	43.9	33.0	48	29	42.4	89	32.0	90	S	12	NW	20	.09	.06	10 s., s	10 n., nw	
20	29.35	29.41	29.0	38.3	42	27	26.5	72	33.8	63	W	18	SW	9	.02		0	0	
21	29.21	29.36	39.2	46.0	52	33	34.2	60	38.5	49	SW	18	W	20		T.	10 s. cu., sw	0	
22	29.64	29.66	27.9	37.5	41	25	23.4	48	32.0	54	NW	11	SE	9			0	0	
23	29.63	29.47	39.0	44.2	47	35	35.0	67	39.2	64	S	10	S	8		T.	5 a. cu., sw	10 n., s	
24	29.28	29.38	42.1	41.0	44	36	41.8	98	37.0	69	W	11	W	9	.45	T.	10 n., w	3 s., w	
25	29.30	29.47	29.5	15.5	42	8	27.0	72	12.0	40	W	8	NW	26		T.	0	0	*△
26	29.72	29.52	3.5	24.0	24	3	2.3	66	19.5	41	NW	14	SW	16			0	0	
27	29.32	29.50	35.0	43.0	48	23	29.5	50	37.0	56	W	16	NW	10			0	9 a. cu., nw	
28	29.60	29.40	26.0	41.0	45	24	23.5	69	35.5	58	SE	5	W	26			Few ci., 0	6 s. cu., w	
29	29.52	29.65	34.0	27.0	38	16	30.1	73	23.5	58	W	12	N	14		T.	5 s. cu., w	3 s. cu., n	*
30	29.79	29.56	10.5	31.8	37	9	9.0	68	28.8	69	SE	6	NE	5			0	0	
31	29.55	29.28	28.0	51.4	56	26	26.0	76	42.4	45	S	4	S	9			0	0	
Mn	29.52	29.49	25.9	32.6	38.5	21.0	23.3	68.7	28.6	62.5	W	10.2	NW	13.0	.66	.59	3.1 s., s. cu., sw.	4.5 s. cu., nw.	

MEMPHIS, TENN.

[φ=35° 9′ N; λ=90° 3′ W; barometer above sea, 397 feet; gravity correction applied −.03.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.75	29.54	37.0	41.3	44	35	33.6	70	41.3	100	NE	5	NE	20	....	0.31	10 s., s	10 n., ne	≡ᵒa.
2	29.32	29.40	48.7	42.3	52	42	48.7	100	42.0	98	SE	11	SW	15	1.04	T.	10 n., se	10 n., sw	
3	29.56	29.49	40.0	40.8	42	40	38.0	83	39.2	87	W	8	NW	2	.01	T.	10 s., w	10 s., nw	
4	29.46	29.43	35.0	43.0	45	34	33.5	86	37.5	59	NW	6	S	8	....	.....	0	0	
5	29.46	29.65	37.2	35.2	40	32	35.0	81	31.3	64	NW	19	NW	13	.11	.....	10 s., nw	10 s. cu., nw	
6	29.67	29.40	32.0	46.0	49	28	29.3	72	40.0	58	W	10	S	20	....	.....	0	3 ci. s., nw	
7	29.32	29.57	47.0	37.0	49	32	37.3	86	30.5	44	NW	36	NW	36	....	.....	Few a. s., nw	10 s. cu., nw	
8	29.79	29.75	27.0	33.0	35	26	23.5	58	26.8	39	NW	20	W	7	....	.....	0	Few ci. cu., w	
9	29.69	29.66	31.3	43.0	45	29	26.0	45	34.6	39	S	8	SE	4	....	.....	8 ci. s., w	7 ci. s., sw	
10	29.70	29.36	25.8	36.5	44	26	23.0	65	35.5	91	NE	12	E	12	....	.01	Few ci., sw	10 n., e	△
11	29.39	29.78	33.0	27.0	44	23	31.0	80	23.0	52	NW	24	NW	15	.35	T.	10 s., nw	0	
12	30.04	30.07	18.3	28.8	29	18	16.3	68	24.0	47	NW	12	NW	6	....	.....	0	0	
13	30.05	29.98	22.2	35.3	39	22	19.0	55	30.2	53	S	5	S	11	....	.....	Few a. s., sw	4 ci. s., sw	⊕▽
14	29.96	29.93	36.0	43.6	47	35	31.2	57	38.0	59	S	14	SW	6	....	.....	10 a. s., sw	0	
15	29.91	29.80	35.5	49.0	54	36	32.5	72	42.8	59	SW	10	SW	7	....	.....	0	0	
16	29.76	29.60	43.0	51.8	52	42	39.2	71	47.2	71	SW	9	SW	6	T.	.01	10 n., sw	0	
17	29.54	29.62	45.0	47.1	49	38	44.0	93	45.0	85	NE	4	N	12	....	T.	10 s., ne	10 s. cu., n	
18	29.82	29.87	30.0	36.2	41	29	27.8	76	30.0	45	NE	10	NE	8	....	.....	0	0	
19	29.84	29.69	26.2	42.0	44	26	23.0	61	34.0	40	NE	8	NE	6	....	.....	0	0	
20	29.62	29.58	34.8	45.0	50	34	33.3	86	39.8	63	NW	9	N	9	.04	T.	10 n., nw	0	*
21	29.66	29.67	32.0	38.1	39	32	31.2	91	35.0	74	N	4	NW	5	....	.....	4 s., n	10 s., nw	
22	29.70	29.64	32.0	48.2	54	32	30.5	84	41.3	55	S	12	S	5	....	.....	0	0	
23	29.69	29.40	40.2	51.4	59	40	37.7	79	50.0	91	SE	9	E	17	....	.06	9 a. cu., sw	10 n., e	
24	29.55	29.63	42.2	42.0	50	39	40.7	88	39.2	79	NW	18	NW	8	.48	.....	10 s., nw	0	
25	29.68	29.62	34.8	51.4	54	35	34.0	92	46.1	67	SE	6	SE	11	....	.....	0	0	
26	29.64	29.62	45.2	56.0	64	44	42.0	77	51.3	72	SE	11	SE	13	....	.....	0	8 a. s., sw	
27	29.52	29.54	54.7	64.0	66	50	54.0	96	60.3	81	E	6	S	6	.61	.27	10 s. cu., sw	0	⊓◪
28	29.54	29.36	60.0	66.5	70	57	60.0	100	61.8	77	S	11	S	8	....	.01	D. fog, s	0	
29	29.32	29.47	63.5	57.0	73	47	60.0	82	51.5	69	S	22	NW	24	T.	.....	8 s. cu., s	Few s. cu., nw	
30	29.96	29.93	35.0	45.2	49	34	30.3	56	37.9	49	NW	8	S	8	....	.....	0	0	
31	29.88	29.62	36.0	54.0	55	36	30.7	53	45.2	49	SE	10	S	14	....	.....	Few a. s., w	10 s., s	
Mn	29.67	29.64	37.4	44.4	49.3	34.6	34.7	74.6	39.8	65.0	NW	11.5	{s nw}	11.0	2.64	.67	4.5 s., sw	3.9 s. cu., n., nw	

FEBRUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.50	29.50	57.8	61.7	65	55	54.0	78	61.2	97	S	15	S	11	....	0.29	10 s., s	10 n., s	
2	29.55	29.52	62.0	63.4	69	61	61.3	96	62.0	93	SW	6	SE	9	0.01	.....	10 s., sw	10 s., se	
3	29.35	29.08	57.5	61.0	65	55	57.2	98	61.0	100	SE	15	SW	30	.88	.93	10 n., se	10 s., sw	
4	29.39	29.70	37.2	40.3	55	34	31.0	47	35.4	61	W	28	NW	16	....	.....	0	0	
5	29.98	29.94	27.7	38.3	39	28	24.2	59	33.0	56	NW	8	N	3	....	.....	0	3 ci. s., sw	
6	29.92	29.78	33.0	37.8	40	33	29.0	60	35.0	76	NE	6	SE	11	....	.01	10 a. s., sw	10 n., se. (?)	*△
7	29.60	29.46	38.0	39.2	42	36	37.2	93	39.0	98	NE	11	NW	18	.08	.37	10 n., ne	10 n., nw	
8	29.62	29.73	37.7	43.4	46	36	36.0	85	37.3	55	W	9	SW	5	T.	.....	10 s. cu., w	Few s. cu., sw	
9	29.86	29.82	36.3	49.7	53	36	34.0	79	43.0	56	S	6	SE	7	....	.....	0	9 ci. s., sw	
10	29.68	29.34	44.2	46.2	52	42	39.0	62	45.2	93	E	12	E	7	....	.32	10 a. s., s	10 s., e	
11	29.28	29.49	46.2	52.0	55	46	45.2	93	48.3	77	SW	17	SW	7	.11	.....	10 s., sw	0	
12	29.54	29.50	45.1	61.0	66	45	44.0	92	55.3	70	SE	15	S	13	....	.....	0	0	
13	29.69	29.74	44.0	46.9	56	41	42.7	91	44.4	82	NW	9	N	12	....	T.	Few ci., sw	10 a. s., sw	
14	29.71	29.65	41.2	47.1	48	40	41.0	98	45.7	90	N	9	NE	8	.04	.12	10 n., n	10 s., ne	
15	29.48	29.40	41.7	35.2	46	34	41.7	100	34.2	91	NE	5	NW	24	1.15	1.07	10 n., ne	10 n., nw	
16	29.40	39.57	24.7	17.2	34	12	24.0	91	17.0	97	N	15	NW	25	.70	.33	10 n., n	8 s., nw	*△
17	29.87	29.79	6.0	21.0	22	6	5.0	74	18.0	56	NW	16	S	12	....	.....	0	0	
18	29.90	30.18	29.8	22.0	35	16	26.3	62	18.0	44	W	17	NE	13	....	.....	8 a. s., w	0	
19	30.23	30.08	11.0	31.4	31	11	9.6	70	26.0	44	E	12	S	4	....	.....	0	10 s., s	
20	30.10	30.00	28.3	43.2	46	28	26.0	73	39.0	69	SW	3	NW	3	....	.....	3 ci., sw	Few a. s., sw	
21	29.99	30.04	36.0	43.0	47	36	34.2	84	38.0	63	NW	11	N	8	....	.....	0	0	
22	30.14	30.08	26.0	43.0	45	25	24.0	75	38.0	63	NE	11	N	8	....	.....	0	0	
23	30.05	29.93	35.8	53.2	57	36	30.0	48	42.2	36	SE	12	SW	1	....	.....	0	0	
24	29.95	29.93	34.8	40.0	50	34	34.0	93	37.3	77	NE	16	NE	12	....	.....	10 s., ne	10 s., ne	
25	29.93	29.84	31.0	45.0	48	31	29.2	80	42.0	78	NE	10	NE	10	....	.....	Few a. s., sw	1 a. s., sw	
26	29.74	29.48	50.0	56.2	59	40	44.0	61	55.0	93	E	15	SE	24	....	.30	10 a. s., s	10 n., se	
27	29.39	29.21	56.2	51.4	58	46	55.7	97	51.0	98	SE	4	NW	4	.33	1.02	10 n., se	10 n., nw	≡ᵒa.
28	29.40	29.75	45.2	45.8	52	37	43.2	86	40.0	59	SW	15	NW	16	T.	.....	0	7 ci. cu., sw	
Mn	29.72	29.70	38.0	44.1	49.3	35.0	35.8	79.5	40.8	74.0	NE	11.7	NW	11.3	3.30	4.76	5.4 n., sw	5.6 s., sw	

MEMPHIS, TENN.

[$\varphi = 35° 9'$ N; $\lambda = 90° 3'$ W; barometer above sea, 397 feet; gravity correction applied −.03.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.03	30.04	30.2	38.0	41	29	26.7	62	31.0	42	NW	12	N	6			2 ci., cu., sw	2 a. s., sw	
2	30.04	29.97	36.0	43.0	44	36	30.7	53	36.0	48	NE	5	NE	6		T.	10 a. s., sw	10 a. cu., w	
3	29.96	29.86	40.2	57.1	61	36	36.2	68	47.8	49	NE	6	E	8		T.	10 a. s., sw	8 a. s., sw	
4	29.83	29.75	52.7	57.3	61	53	51.0	89	56.2	93	E	10	SE	7		0.25	10 s., se	10 s., se	
5	29.68	29.68	59.0	62.2	64	56	58.8	99	61.0	93	S	4	E	3	0.85	.07	10 s., s	6 a. s., sw	
6	29.66	29.62	60.2	68.3	72	57	60.0	99	66.5	91	S	12	S	10	.56	.02	10 n., s	5 ci. s., sw	
7	29.58	29.57	64.0	65.2	71	64	63.0	95	64.3	95	S	13	SE	12		.82	8 s. cu., s	10 s. cu., sw	
8	29.73	29.77	49.1	57.2	67	48	49.1	100	56.3	95	NW	16	N	5	.06		10 s., nw	10 ci. s., sw	
9	29.72	29.65	52.2	61.0	64	52	51.0	92	61.0	100	NE	8	NW	9	T.	.04	10 s. s., sw	10 n., nw	
10	29.72	29.78	58.2	63.5	66	56	58.0	99	62.0	92	NW	6	NW	5	1.82	.18	10 n., nw	10 s. cu., nw	
11	29.93	29.92	53.5	53.2	60	50	53.0	97	52.4	95	N	12	NE	12			10 s., n	3 ci., sw	
12	29.88	29.79	46.7	53.4	55	46	46.0	94	58.0	96	NE	12	NW	5			10 s., ne	3 ci., sw	
13	29.71	29.65	52.0	58.0	62	51	50.3	89	56.7	92	N	4	NE	4		T.	10 s., se	10 n., se	
14	29.65	29.64	58.0	60.2	62	56	57.8	99	59.8	98	NE	12	NE	12	.11	.24	10 n., ne	10 s., se	
15	29.67	29.62	59.2	67.0	70	58	59.0	99	66.0	95	NE	10	NE	4			10 s., ne	7 a. s., se	
16	29.63	29.60	59.0	68.0	72	59	58.5	97	67.0	95	NE	5	SW	5	T.		6 a. cu., s	Few a. s., sw	
17	29.64	29.60	60.2	72.0	77	60	59.7	97	70.5	93	S	7	SE	16			Few a. s., sw	1 ci., sw	
18	29.68	29.61	62.0	73.8	77	62	61.0	94	72.0	92	SE	10	SE	12			10 a. s., s	7 a. s., s	
19	29.68	29.54	65.1	73.4	76	65	64.0	94	71.2	90	SE	12	S	9			6 a. cu., s	8 a. s., s	
20	29.58	29.72	58.0	50.2	70	46	57.5	97	49.0	92	W	10	NW	4	.52	.02	9 ci. cu., sw	10 s., nw	
21	29.71	29.59	45.0	54.7	57	44	44.0	93	53.2	91	NE	9	NW	4			10 a. s., sw	4 ci., sw	
22	29.55	29.42	43.9	57.0	60	44	42.2	88	52.0	71	NE	9	NW	5			10 a. s., sw	6 ci., sw	
23	29.46	29.67	48.8	49.5	55	44	45.3	76	47.0	83	S	8	SW	5		.03	1 a. cu., sw	0	
24	29.89	29.86	37.0	51.2	54	37	33.0	65	45.0	61	NW	15	NW	10			0	Few ci., sw	
25	29.94	29.88	44.7	56.3	59	44	39.0	59	49.0	58	N	8	N	4			0	0	
26	29.90	29.73	42.7	61.1	65	42	37.0	57	51.7	52	E	7	W	3			0	1 ci., s	
27	29.70	29.63	52.2	62.7	63	52	44.7	54	54.0	56	SE	6	W	5			10 a. s., s	10 s., w	
28	29.69	29.76	55.2	60.7	60	48	49.2	65	47.2	78	N	14	N	16	T.		10 s., n	8 a. s., s	
29	29.73	29.62	46.0	51.0	55	45	42.5	82	48.0	81	NE	15	NE	15			7 a. s., e	1 a. s., 0 (?)	
30	29.51	29.49	47.2	61.1	65	47	44.0	78	54.0	63	NW	14	NE	4			10 a. cu., nw	5 ci., w	
31	29.58	29.55	53.2	70.8	73	52	45.7	55	57.2	42	S	8	S	9			0	0	
Mn	29.73	29.70	51.3	59.0	63.2	49.7	49.0	83.4	55.4	79.7	NE	9.6	{ne / nw}	7.5	3.92	1.67	7.4 a. s., sw	5.6 a. s., sw	

APRIL, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.59	29.40	58.0	72.4	78	58	51.0	61	62.0	55	S	14	S	14			5 ci., w	Few ci., w	
2	29.41	29.23	64.0	78.0	81	64	60.2	80	67.0	56	SW	20	S	19			6 s., sw	4 ci., sw	
3	29.15	29.66	69.5	47.8	74	43	63.0	70	42.3	63	S	30	NW	28		T.	10 s., s	10 s. cu., nw	
4	29.83	29.77	44.2	56.4	61	42	41.2	78	47.8	52	NW	7	NE	5			0	2 ci. cu., w	
5	29.82	29.68	43.6	60.3	62	43	38.7	64	50.2	48	SE	5	SE	5			7 ci. s., w	10 ci. s., w	
6	29.62	29.54	55.0	66.7	67	55	53.2	89	59.2	64	SE	10	S	6			10 s. cu., sw	10 s. cu., sw	
7	29.54	29.40	62.0	67.3	72	59	59.0	84	64.8	87	S	12	S	13	0.08	0.43	10 n., s	9 a. s., w	
8	29.57	29.62	58.2	69.8	73	55	57.2	94	65.0	77	NW	6	NE	3	.51		0	0	
9	29.73	29.63	59.2	77.0	79	58	58.0	66	65.3	53	E	8	E	4			0	3 ci., w	
10	29.63	29.47	67.7	75.0	78	66	59.0	53	70.0	78	E	13	S	12	T.		10 s., s	10 a. s., w	
11	29.47	29.43	68.8	73.1	76	69	64.0	78	67.3	74	S	20	SW	11			Few cu., s	6 ci., w	
12	29.37	29.22	67.2	75.2	77	63	63.2	80	74.0	95	SE	12	S	12	.08	1.06	10 n., s	3 a. s., w	
13	29.16	29.28	59.8	55.4	72	47	58.8	97	54.4	94	SW	9	NW	25	.28	.06	5 s. cu., sw	10 n., nw	
14	29.29	29.35	47.3	50.2	50	46	46.0	91	48.4	88	NW	19	NW	16	.02		10 s., nw	10 s. cu., nw	
15	29.38	29.49	46.7	51.0	52	46	44.2	82	49.0	87	NW	17	NW	10			10 s. cu., nw	10 s. cu., nw	
16	29.56	29.61	48.5	55.0	56	48	46.5	86	52.0	82	NW	15	NW	10			10 s. cu., nw	0	
17	29.70	29.59	50.0	65.0	68	50	48.5	90	58.5	68	NW	8	NE	4			0	1 ci., w	
18	29.54	29.32	55.0	68.1	72	53	49.8	69	60.7	65	E	8	SE	12		T.	4 ci., w	10 a. s., sw	
19	29.27	29.16	60.2	72.0	76	56	59.2	94	68.0	82	SE	15	W	20	.09	.62	6 s. cu., sw	1 s. cu., w	
20	29.41	29.52	59.2	65.0	67	59	54.2	72	57.2	62	NW	16	NW	8		T.	0	10 s. cu., nw	
21	29.63	29.52	55.0	65.3	71	54	52.5	85	59.1	70	NW	8	W	6		T.	Few ci., sw	Few s. cu., nw	
22	29.67	29.63	48.2	58.3	61	47	43.7	89	50.0	55	N	8	N	6			0	0	
23	29.76	29.70	47.7	60.2	65	46	43.2	89	52.0	57	NE	1	NE	6			0	1 ci., nw	
24	29.68	29.52	52.3	72.2	78	50	45.3	57	61.2	53	S	13	S	8		T.	0	10 a. s., w	
25	29.63	29.70	57.2	52.1	70	49	54.0	81	48.0	74	NW	15	NW	17	.01		10 s., nw	4 s. cu., nw	
26	29.74	29.72	48.5	62.0	65	47	46.0	83	53.6	57	NW	16	NE	7			10 s. cu., n	0	
27	29.82	29.74	51.3	71.0	73	49	45.8	65	58.7	47	E	11	SE	5			0	Few ci., sw	
28	29.83	29.76	61.2	76.3	80	59	53.2	58	62.8	46	SE	14	SE	8			2 ci., sw	1 ci., sw	
29	29.81	29.64	62.3	76.0	78	62	55.8	66	65.0	55	S	11	S	10			Few ci., sw	9 a. s., s	
30	29.66	29.88	59.8	51.6	71	47	58.3	91	47.2	72	W	22	NW	15	.05	T.	10 s., w	Few ci., sw	
Mn	29.58	29.54	56.2	64.9	70.1	53.0	52.3	76.7	58.0	67.2	NW	12.8	{s / nw}	10.8	1.12	1.57	4.8 s., s. cu., sw	4.8 ci., s. cu., w	

MEMPHIS, TENN.

[φ=35° 9′ N; λ=90° 3′ W; barometer above sea, 397 feet; gravity correction applied −.03.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	29.97	29.75	42.0	59.0	62	40	39.0	77	51.5	59	NE	14	NE	8	.....	.....	0	0	
2	29.72	29.56	51.0	69.0	73	46	45.4	64	60.2	60	SE	11	SW	7	.....	.....	0	0	
3	29.74	29.76	56.7	64.0	67	55	51.0	68	51.3	40	NW	15	NE	6	.....	.....	8 a. cu., sw	0	
4	29.82	29.71	49.7	66.2	70	45	44.6	66	56.2	53	E	10	NW	5	.....	.....	0	5 a. cu., w	
5	29.69	29.56	57.0	75.0	78	52	48.0	50	55.2	25	E	13	SE	6	.....	.....	4 ci., sw	7 a. s., s	
6	29.62	29.54	62.3	69.0	73	60	55.0	62	61.0	63	SW	10	SE	10	T.	T.	10 n., s	10 s., se	
7	29.52	29.46	63.0	69.0	72	61	60.1	85	63.2	73	NE	12	E	10	0.01	.....	7 a. s., e	10 s. cu., e	
8	29.47	29.45	63.0	65.2	69	61	59.3	81	61.2	85	E	15	SE	10	T.	T.	10 n., e	10 s., se	
9	29.57	29.51	58.8	70.0	74	58	55.1	79	62.0	64	E	9	N	4	.....	.....	10 s. cu., e	Few a. s., sw	
10	29.59	29.49	64.3	74.2	77	62	58.6	71	64.0	57	SE	5	SE	5	.....	.....	3 ci., w	10 s. cu., se	
11	29.56	29.50	64.2	65.0	75	63	60.0	78	63.5	92	E	14	SE	9	.01	0.13	10 a. s., s	10 n., se	
12	29.51	29.50	60.0	66.3	67	59	60.0	100	63.0	83	E	16	E	16	.59	.08	10 n., se	10 s. cu., e	
13	29.51	29.49	64.0	61.0	74	60	63.0	95	60.2	95	SE	12	NE	11	.07	.61	10 s., sc	10 n., nc	⊓
14	29.45	29.41	59.5	67.2	70	59	59.1	98	66.2	95	NE	7	NE	12	.24	.02	10 n., e	4 a. cu., e	
15	29.51	29.48	64.6	72.7	80	61	62.1	87	68.0	79	NE	8	SW	6	.....	.01	Few s., se	7 a. s., ne	⊓
16	29.58	29.55	68.0	77.8	82	67	66.0	90	73.0	80	SE	6	SE	10	.....	.....	8 a. cu., s	1 a. s., w	
17	29.66	29.60	68.2	77.2	81	66	65.0	84	70.0	70	SE	12	SE	12	.....	.....	1 ci., sw	7 a. s., w	
18	29.64	29.58	67.0	78.0	82	66	65.9	94	71.0	71	S	10	SE	8	.42	.03	10 n., s	3 cu., s	⊓
19	29.59	29.58	71.2	75.8	78	67	68.0	85	71.3	80	S	10	S	8	.....	.14	7 a. cu., sw	5 ci., w	
20	29.65	29.62	71.6	73.0	80	69	69.0	88	69.0	82	SE	7	E	12	.....	.08	7 a. cu., sw	2 a. s., sw	⊓
21	29.62	29.56	73.6	81.2	85	70	70.2	84	74.2	72	SW	14	SE	9	.....	.....	3 ci., sw	Few cu., s	
22	29.64	29.59	72.8	81.5	85	72	68.7	81	72.5	66	S	12	S	6	.....	.....	7 a. cu., sw	0	
23	29.66	29.58	73.0	81.8	85	70	68.0	78	69.0	52	S	9	S	6	.....	.....	1 ci., w	0	
24	29.63	29.58	72.2	81.3	85	70	66.2	73	69.0	53	S	6	S	6	.....	.....	9 ci. s., w	3 cu., s	
25	29.66	29.62	72.1	82.3	87	70	65.5	71	71.3	58	S	11	SW	8	.....	.....	8 ci. s., w	7 a. s., sw	
26	29.65	29.53	72.3	81.0	85	71	65.3	69	68.8	54	S	9	S	10	.....	.....	8 ci. cu., sw	5 a. s., sw	
27	29.54	29.51	74.8	79.2	83	74	68.0	71	71.0	67	S	21	SW	24	.....	.....	9 s. cu., sw	8 s. cu., sw	
28	29.63	29.56	71.0	73.5	77	65	67.2	82	69.5	82	S	5	W	7	.....	.78	10 a. s., sw	1 a. s., sw	⊓
29	29.57	29.55	70.5	66.0	83	63	67.2	84	63.8	89	S	8	NE	8	T.	.15	10 a. s., sw	10 s. cu., s	⊓
30	29.52	29.40	63.3	65.0	70	62	62.3	95	63.0	90	SE	10	E	8	1.30	T.	10 s., sw	9 a. s., s	
31	29.38	29.39	64.8	67.0	72	61	64.0	96	65.8	94	SE	11	W	9	.....	.09	10 s. cu., se	4 s. cu., w	⊓
Mn	29.61	29.55	64.7	72.1	76.8	62.1	60.9	80.2	65.1	70.4	S	10.7	SE	8.9	2.64	2.12	6.8 ci., s. cu., sw.	5.1 a. s., sw	

JUNE, 1903.

1	29.48	29.56	59.2	57.1	62	57	58.0	93	55.2	89	SW	15	SW	13	.....	0.01	10 s. cu., sw	10 s., sw	
2	29.64	29.67	58.0	64.0	64	56	57.0	94	61.2	85	SW	8	S	5	0.05	T.	10 s., sw	10 s., s	
3	29.72	29.66	60.0	69.0	69	59	58.5	91	64.5	79	SW	8	SE	4	.05	T.	10 s., sw	8 a. cu., sw	
4	29.70	29.63	63.0	72.8	76	62	61.2	90	67.2	75	SE	2	NW	6	.....	.....	10 a. cu., sw	7 a. cu., sw	
5	29.71	29.67	68.8	77.5	82	63	66.3	88	70.0	69	NW	2	W	4	.....	.....	0	1 ci., w	
6	29.73	29.64	71.2	79.5	83	67	68.7	88	73.7	76	NW	1	NW	4	.....	.....	8 a. cu., w	0	
7	29.66	29.56	70.7	80.2	84	69	68.7	90	76.2	83	NW	3	NW	2	.....	.....	5 a. cu., w	2 ci., w	
8	29.58	29.48	72.0	79.7	84	70	70.0	91	71.0	65	N	1	N	3	.....	.....	9 ci. s., w	9 ci. s., w	
9	29.52	29.53	73.5	72.7	82	68	70.5	86	68.0	79	N	2	W	3	.....	.....	4 ci. cu., w	9 s., nc	⊓
10	29.67	29.67	68.5	75.8	79	68	64.0	78	65.4	57	N	18	N	13	.....	.....	10 a. s., sw	Few ci., sw	
11	29.75	29.72	63.5	68.2	73	62	59.0	77	59.3	59	N	11	N	10	.....	.....	9 a. cu., w	Few s. cu., n	
12	29.74	29.66	58.7	63.3	68	57	54.0	74	54.5	56	NE	11	NE	9	.....	.....	0	6 ci., w	
13	29.68	29.60	56.0	68.0	71	54	51.3	72	58.0	54	NE	8	NW	4	.....	.....	9 ci. s., w	10 a. s., w	
14	29.64	29.58	63.0	75.0	78	62	57.8	70	62.5	49	NW	4	NW	4	.....	.....	10 a. cu., w	0	
15	29.63	29.54	68.2	80.0	82	63	58.7	56	65.4	45	NW	3	SE	2	.....	.....	3 ci. cu., sw	0	
16	29.57	29.49	69.8	82.0	86	66	64.8	81	70.2	56	NW	4	NW	7	.....	.....	0	Few s. cu., nw	
17	29.55	29.53	70.7	78.2	84	68	64.2	65	66.0	45	NE	8	N	9	.....	.....	0	0	
18	29.56	29.48	66.3	82.6	85	62	57.1	56	67.7	46	NE	8	0	0	.....	.....	Few ci., nw	0	
19	29.46	29.36	71.2	79.0	85	68	63.7	66	69.8	63	S	8	NW	8	.....	T.	6 ci., nw	9 ci. s., w	
20	29.39	29.36	71.3	88.0	90	70	68.8	88	75.0	54	S	7	NW	4	.....	.....	0	8 ci. s., w	⊓
21	29.40	29.36	75.8	71.0	91	69	70.3	76	68.2	86	NW	4	NE	10	.....	.03	6 ci., sw	10 ci. s., s	⊓
22	29.36	29.34	69.8	77.0	84	67	68.0	91	73.1	83	E	4	NW	5	.04	.05	1 ci. cu., w	Few cu., w	
23	29.50	29.44	67.2	76.0	80	65	65.0	89	69.0	70	N	4	NW	7	.....	.....	Few ci., sw	9 a. cu., w	
24	29.46	29.40	69.0	77.0	81	63	64.0	76	69.6	69	NE	4	E	8	.....	.....	6 a. s., sw	10 a. s., w	
25	29.43	29.41	69.0	69.0	75	66	64.8	80	65.5	83	E	12	NE	7	.....	.95	10 ci. s., w	10 s., e	⊓
26	29.44	29.47	67.2	69.4	71	66	67.0	99	64.5	77	NW	8	NW	5	.71	T.	10 s., nw	10 n., nw	≡
27	29.49	29.43	64.0	69.0	72	63	62.0	90	65.0	81	NW	8	NW	4	T.	.....	10 s. cu., nw	6 s. cu., nw	
28	29.44	29.42	67.0	76.0	79	65	65.5	92	72.0	82	NW	3	NW	5	.....	.....	8 s. cu., nw	0	
29	29.52	29.50	71.0	83.3	87	66	67.5	84	76.0	72	SW	4	SW	6	.....	.....	0	1 s. cu., s	
30	29.58	29.51	74.0	87.6	90	70	71.0	86	80.3	73	SE	9	SW	9	.....	.....	0	0	
Mn	29.57	29.52	67.3	74.9	79.2	64.4	63.6	81.9	67.5	68.7	NW	6.4	NW	6.0	.83	1.04	5.5 a. cu., w	4.8 s. cu., ci. s., ci., w.	

MEMPHIS, TENN.

[φ=35° 9′ N; λ=90° 3′ W; barometer above sea, 397 feet; gravity correction applied —.03.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.55	29.50	76.8	85.3	91	74	74.0	88	79.3	76	SW	9	SW	9	.....	.....	7 ci., w	8 a. s., sw	
2	29.58	29.54	73.1	86.0	89	71	71.1	91	79.2	78	S	10	S	6	.....	0.02	10 a. s., sw	4 a. s., s	
3	29.61	29.54	76.7	88.0	91	74	74.0	88	79.5	68	S	12	SW	6	.....	.....	9 a. cu., s	4 ci. s., ne	
4	29.65	29.59	77.5	77.0	87	73	73.5	81	73.2	84	SW	11	SE	8	.....	T.	7 ci. cu., sw	10 n., se	
5	29.70	29.67	74.0	83.5	87	72	72.2	92	80.0	86	SW	6	NE	4	T.	.....	10 a. cu., sw	Few ci., sw	
6	29.72	29.65	77.7	88.0	92	74	74.5	86	82.0	77	NE	5	NE	4	.....	.....	Few ci. cu., w	3 ci., s	
7	29.68	29.60	79.9	81.0	94	76	76.1	84	75.2	76	NE	5	NE	4	.....	.02	0	5 a. s., sw	
8	29.68	29.62	77.5	81.0	92	74	74.8	88	76.5	82	S	4	0	0	.....	T.	3 ci., w	8 a. s., nw	
9	29.68	29.58	76.8	82.9	93	72	73.0	84	74.8	69	SE	5	SE	7	.....	.....	0	8 ci. s., e	
10	29.64	29.55	78.7	87.5	93	75	75.0	84	78.0	65	S	6	W	6	.....	.....	Few ci. cu., nw	3 cu., se	
11	29.57	29.50	77.3	76.0	89	67	74.0	86	73.2	88	SW	3	S	6	.....	.51	0	10 a. s., sw	
12	29.49	29.46	72.3	73.8	84	71	72.0	99	71.2	88	S	7	N	14	.....	.01	10 s., s	10 s. cu., n	
13	29.60	29.60	71.0	80.2	84	70	67.7	85	76.2	83	N	10	NW	4	.....	.....	0	0	
14	29.64	29.59	70.0	81.3	83	69	65.1	77	73.0	68	SW	5	W	5	.....	.....	Few ci., nw	0	
15	29.63	29.58	73.1	82.3	87	72	69.0	82	75.2	72	S	5	W	9	.....	T.	10 s. cu., nw	1 a. s., w	
16	29.62	29.54	74.8	86.0	87	73	70.3	80	75.0	60	SW	8	SW	8	.....	.....	9 a. cu., nw	2 ci., nw	
17	29.56	29.48	77.2	86.5	91	76	73.7	84	77.5	66	SW	8	SW	12	.....	.....	9 a. cu., nw	0	
18	29.55	29.52	78.5	77.5	92	73	74.0	81	73.0	81	SW	18	NW	10	.....	.....	0	10 s., nw	
19	29.59	29.57	74.4	82.9	87	73	73.1	94	78.5	82	W	7	NW	6	0.02	.....	9 s., nw	0	
20	29.63	29.58	74.0	88.0	92	72	70.3	83	78.0	64	W	7	NW	6	.....	.....	0	3 ci., nw	
21	29.64	29.55	77.2	87.2	90	77	72.7	81	77.0	62	SW	9	W	12	.....	.....	7 a. s., w	Few a. cu., nw	
22	29.63	29.56	78.9	89.3	94	77	72.8	78	76.3	55	SW	7	NW	5	.....	.....	0	1 a. s., nw	
23	29.66	29.62	73.7	76.0	83	73	71.7	91	72.2	83	NW	13	NW	6	.01	.01	10 n., nw	1 a. s., nw	
24	29.65	29.57	72.0	84.0	89	68	68.3	83	76.1	69	N	9	N	5	.....	.....	0	0	
25	29.09	29.67	71.8	85.8	89	69	68.3	84	74.8	60	SE	11	SE	8	.....	.....	0	Few ci., sw	
26	29.78	29.67	76.2	88.7	91	74	70.2	74	73.2	47	SE	2	SE	6	.....	.....	0	Few cu., se	
27	29.70	29.58	77.1	86.3	90	74	73.0	83	77.0	65	S	5	SW	5	.....	T.	0	3 cu., se	
28	29.58	29.51	75.7	85.5	90	75	73.2	89	75.0	61	S	6	S	12	.02	.....	4 ci. cu., sw	Few cu., se	
29	29.57	29.50	74.9	85.0	90	72	71.7	85	77.0	70	SW	10	W	44	.....	.....	Few a. s., sw	8 cu., sw	
30	29.61	29.60	73.2	76.7	85	71	70.8	89	73.0	84	SW	9	SE	12	T.	.02	10 s., sw	8 a. s., sw	
31	29.61	29.62	71.1	78.2	83	69	70.1	95	75.7	89	NW	12	N	8	.45	.....	10 s., nw	5 a. s., sw	
Mn	29.63	29.57	75.2	83.1	89.0	72.6	71.9	85.5	76.3	72.8	SW	7.9	NW	8.3	.50	.59	4.3 s., a. cu., nw	3.7 a. s., sw	

AUGUST, 1903.

1	29.70	29.69	71.0	86.0	88	70	69.0	90	81.8	83	E	11	S	4	.....	.....	8 ci. cu., sw	5 a. s., s	
2	29.84	29.70	73.8	87.0	90	72	72.3	93	81.2	78	S	6	NE	4	.....	.....	Few a. s., s	1 cu., ne	
3	29.85	29.71	79.2	83.5	90	76	73.0	74	78.3	79	SE	8	E	5	.....	0.02	0	7 a. s., sw	1
4	29.68	29.56	76.7	86.0	92	76	74.2	89	81.0	81	S	8	SW	12	.....	.....	0	7 a. s., sw	
5	29.57	29.54	76.2	86.1	90	75	74.0	90	81.2	81	SW	9	SW	7	.....	.....	Few s. cu., sw	1 cu., sw	
6	29.55	29.58	74.3	84.0	89	73	70.3	82	79.0	80	SW	10	NE	7	T.	.....	8 a. s., n	2 ci., w	
7	29.66	29.57	74.3	82.2	86	73	72.0	90	70.7	57	N	8	NW	6	.....	.....	7 a. cu., nw	Few ci., sw	
8	29.53	29.43	70.7	82.0	85	69	66.2	79	75.0	72	SE	9	W	6	.....	T.	10 a. s., nw	3 s. cu., sw	
9	29.50	29.46	73.0	82.0	86	71	70.2	87	77.8	83	SW	5	W	4	0.40	T.	9 a. s., w	10 n., w	
10	29.55	29.56	72.0	75.0	78	71	70.7	94	73.2	92	S	6	SW	6	.37	.10	7 a. s., s	10 s., sw	
11	29.63	29.56	72.2	82.0	84	72	71.2	95	78.0	84	SW	6	W	3	.....	.....	3 a. cu., sw	1 ci., sw	
12	29.61	29.55	75.2	79.1	84	71	73.0	90	75.1	83	W	2	SW	4	.....	.10	Few a. cu., sw	1 ci., w	
13	29.59	29.50	72.8	83.2	87	72	71.3	93	74.0	66	SW	4	SE	5	.....	.....	Few ci., nw	4 ci., w	
14	29.59	29.56	74.3	83.2	85	74	72.3	91	77.1	76	SE	3	SE	2	.....	T.	8 a. s., nw	1 a. s., s	
15	29.61	29.55	74.3	75.2	88	70	72.3	91	73.0	90	S	8	N	12	.....	.02	2 ci., nw	10 s., n	
16	29.58	29.52	71.8	83.0	87	72	71.3	98	79.0	84	W	8	W	4	.54	.....	10 s., nw	Few ci., nw	
17	29.56	29.50	72.3	82.7	89	72	71.3	95	78.5	83	N	6	N	7	.....	.....	8 ci. s., nw	3 ci. s., w	
18	29.50	29.41	72.0	82.1	86	72	69.5	88	78.1	84	N	8	N	8	.....	.....	0	Few cu., n	
19	29.44	29.42	70.1	76.0	87	68	69.0	95	73.1	87	NE	8	NE	4	.....	T.	7 a. s., s	8 cu. n., n	
20	29.48	29.52	70.0	79.1	85	69	67.3	85	76.0	87	NW	8	N	11	.....	.....	0	0	
21	29.63	29.57	67.2	81.3	84	67	60.2	66	74.8	74	NE	8	N	4	.....	.....	0	0	
22	29.64	29.54	71.8	87.1	90	70	66.0	72	79.0	70	NE	7	S	1	.....	.....	Few s. cu., sw	0	
23	29.58	39.53	78.0	87.0	90	77	74.0	83	76.0	60	S	4	SW	8	.....	.....	0	0	
24	29.59	29.57	78.2	85.0	91	77	75.2	87	80.7	83	S	7	SE	5	.....	.....	0	7 a. s., s	
25	29.67	29.62	74.7	85.5	88	74	70.2	80	74.5	60	SW	10	SW	8	.....	.....	0	Few a. s., w	
26	29.67	29.55	76.2	85.9	89	76	71.7	80	79.2	75	SW	8	SW	8	.....	.....	0	0	
27	29.58	29.50	77.5	86.0	90	76	74.8	88	79.8	76	SW	10	S	10	.....	.....	0	Few s. cu., sw	
28	29.56	29.52	77.7	83.0	90	77	74.0	84	77.0	76	SW	16	E	5	.....	.....	Few cu., sw	5 a. s., sw	
29	29.57	29.50	72.0	81.0	84	72	69.0	86	77.1	84	SW	10	SW	8	T.	.....	7 a. s., sw	3 a. s., nw	
30	29.60	29.57	65.0	74.0	78	64	62.8	89	70.0	82	N	8	N	10	.....	.....	Few a. s., nw	Few ci., n	
31	29.65	29.63	62.0	68.0	74	62	59.5	86	65.0	85	N	4	N	8	.....	.....	0	Few a. s., n	
Mn	29.61	29.55	73.1	82.0	86.6	71.9	70.3	86.8	76.6	78.5	SW	7.4	SW	6.3	1.31	.24	3.0 a. s., nw	2.9 a. s., sw	

MEMPHIS, TENN.

[$\varphi = 35° 9'$ N; $\lambda = 90° 3'$ W; barometer above sea, 397 feet; gravity correction applied −.03.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.67	29.64	62.5	72.2	77	61	61.2	93	66.0	70	N	7	NW	6			0	0	
2	29.72	29.67	63.3	76.0	79	62	61.1	88	66.2	60	N	6	NW	6			0	0	
3	29.70	29.61	68.0	81.2	85	66	64.2	81	70.2	58	N	3	N	8			0	1 s. cu., se	
4	29.66	29.62	73.0	84.5	91	70	68.0	78	69.0	45	SE	5	NW	3			1 a. s., s	0	
5	29.67	29.57	75.0	85.5	90	72	70.5	80	69.5	44	E	2	N	3			Few s. cu., e	0	
6	29.68	29.52	74.0	86.0	91	72	67.3	70	74.0	57	NE	2	W	5			0	Few a. s., sc	
7	29.59	29.51	75.8	85.2	92	76	69.2	72	75.0	62	SW	7	SW	11			0	Few ci., sw	
8	29.63	29.63	73.4	84.9	90	72	68.0	76	72.0	53	S	9	SW	3			4 ci. s., sw	0	
9	29.71	29.56	75.0	85.3	92	73	69.0	74	73.3	57	S	10	SE	10			7 ci. s., nw	Few s. cu., se	
10	29.63	29.58	75.0	80.0	88	75	70.3	79	72.2	69	S	12	0	0			5 a. s., sw	6 a. s., sw	
11	29.67	29.57	74.1	85.0	90	73	70.1	82	71.0	60	SE	6	SE	8			3 ci. cu., sw	0	
12	29.62	29.56	72.0	78.0	87	70	66.0	73	72.5	77	SE	12	S	10		T.	Few ci., w	10 s. cu., s	
13	29.66	29.56	74.7	82.6	89	75	73.0	92	77.5	80	SE	7	0	0	T.	T.	9 a. s., sw	Few a. cu., s	
14	29.61	29.52	75.1	85.8	89	73	70.6	80	74.3	58	SE	4	NW	8			Few s. cu., se	3 s. cu., se	
15	29.60	29.55	73.1	81.1	88	73	69.0	82	74.2	72	N	1	NW	8			Few ci. cu., s	10 a. s., sw	
16	29.60	29.66	72.0	60.0	76	54	69.7	89	59.8	99	NW	2	N	12	T.	0.13	10 s., nw	10 n., n	
17	29.85	29.80	49.2	61.0	64	48	49.0	98	57.0	78	NW	5	N	5	0.06		9 s., n	0	
18	29.89	29.83	51.3	65.0	69	50	50.0	92	62.0	85	NW	2	NW	8			0	0	
19	29.88	29.79	53.3	71.2	76	51	51.1	86	60.2	52	E	5	N	3			0	0	
20	29.85	29.77	57.2	73.2	80	57	52.2	71	61.0	49	E	7	NE	5			0	0	
21	29.85	29.77	63.0	73.0	79	59	56.8	68	63.0	57	NE	8	NW	10			0	0	
22	29.84	29.72	60.8	74.1	82	60	55.1	70	62.0	50	N	10	NW	7			0	0	
23	29.74	29.61	60.0	73.0	80	60	58.0	89	65.0	65	NW	6	NW	6			4 ci., nw	2 a. s., nw	
24	29.68	29.64	57.1	65.0	71	57	54.2	83	55.8	56	N	12	N	10			0	0	
25	29.66	29.55	54.2	71.0	77	51	49.2	70	59.0	48	E	5	W	2			0	Few ci., sw	
26	29.59	29.54	62.0	76.0	85	61	53.8	58	67.2	63	S	10	SW	7		T.	9 a. cu., sw	5 a. s., nw	
27	29.73	29.79	59.0	62.2	73	57	56.5	86	57.8	77	N	9	N	10	.06		10 s., n	Few ci., n	
28	29.86	29.80	50.8	68.7	75	50	47.4	78	55.2	41	NE	6	NE	10			7 ci. s., nw	3 s. s., nw	
29	29.81	29.74	61.8	64.5	69	60	54.0	59	61.0	82	E	8	NE	12		.10	10 a. s., s	8 a. s., sw	
30	29.78	29.69	68.8	80.0	86	65	65.9	86	73.5	74	SE	12	S	10			6 a. cu., sw	1 a. s., w	
Mn	29.71	29.64	65.5	75.7	82.0	63.4	61.3	79.4	66.5	62.9	N	6.7	NW	6.9	.12	.23	3.1 a. s., sw	2.0 a. s., sw	

OCTOBER, 1903.

1	29.84	29.77	72.5	80.1	83	72	68.0	80	71.2	64	S	3	NE	4			10 a. cu., sw	Few ci., w	
2	29.81	29.71	70.3	84.0	87	70	67.0	85	77.8	75	SE	8	0	0			1 a. s., sw	0	
3	29.69	29.62	72.0	81.8	86	71	67.0	77	74.1	69	S	7	SW	6			Few ci., w	1 ci., sw	
4	29.67	29.68	70.8	68.8	82	67	66.3	79	64.8	81	S	10	NW	9			8 ci. s., w	10 s., nw. (?)	
5	29.67	29.62	65.0	71.0	74	65	64.3	96	68.2	87	NW	3	SW	6	T.	T.	10 a. s., sw	9 a. s., sw	
6	29.56	29.37	67.3	78.0	83	67	66.3	95	74.7	86	SE	10	S	12	0.05	T.	10 s., sw	Few a. s., sw	
7	29.37	29.50	72.2	63.5	78	61	69.7	88	61.1	88	S	18	W	5		0.20	6 s. cu., sw	8 s. cu., sw	
8	29.70	29.72	53.2	62.2	68	53	51.7	90	59.0	83	NW	12	NW	7			0	0	
9	29.80	29.76	48.5	61.2	66	48	47.0	90	57.1	78	N	9	N	8			0	0	
10	29.78	29.64	48.7	59.6	67	48	47.0	88	55.0	74	NE	9	N	9			0	0	
11	29.63	29.56	47.4	60.6	70	47	45.0	83	55.0	70	NE	9	N	9			Few ci., w	0	
12	29.62	29.61	47.0	65.0	73	47	41.8	84	56.0	56	NE	7	NE	9			Few ci., sw	0	
13	29.62	29.55	56.1	70.6	81	55	52.0	76	66.0	79	E	9	W	6			1 ci., sw	2 s., w. (?)	
14	29.60	29.48	55.7	68.0	72	56	54.2	91	63.2	77	SW	9	S	8	T.		0	0	
15	29.50	29.51	58.8	68.2	74	58	54.3	75	63.4	77	S	10	NW	5			7 a. cu., sw	0	
16	29.56	29.55	58.0	61.0	66	56	53.0	72	58.0	84	NE	5	N	7		T.	8 a. s., sw	0	
17	29.57	29.74	51.0	55.2	62	48	49.8	92	51.9	80	NW	7	N	10			Few a. s., sw	0	
18	29.90	29.81	41.2	57.3	61	41	39.0	82	46.3	40	N	5	NW	1			0	0	1
19	29.78	29.67	45.2	64.1	68	45	41.0	69	53.1	47	S	8	S	14			0	0	1
20	29.70	29.64	51.2	71.0	77	51	46.0	67	60.0	52	S	8	SW	12			0	0	
21	29.69	29.66	55.0	75.0	78	55	52.0	82	65.0	58	SW	4	N	5			1 ci. s., sw	0	
22	29.71	29.67	60.0	73.4	81	59	58.0	89	65.0	63	0	0	NW	7			9 ci. cu., sw	Few a. s., sw	
23	29.86	29.86	46.3	52.0	59	46	42.3	72	43.5	49	N	12	N	6			6 ci. s., w	0	
24	29.89	29.85	40.0	51.1	55	40	38.0	83	43.0	50	N	5	N	8			0	0	1
25	29.87	29.77	40.1	62.1	67	40	38.0	82	50.2	42	S	5	SW	12			0	0	1
26	29.90	29.95	48.0	58.4	68	48	44.2	74	47.0	40	N	12	N	12			0	0	
27	30.03	29.94	41.8	55.9	64	42	36.3	58	45.0	40	NE	10	N	12			1 ci. cu., sw	0	
28	29.92	29.83	40.1	59.0	67	39	34.2	53	46.0	33	NE	10	N	9			8 ci., w	Few ci., sw	1
29	29.79	29.71	54.0	58.0	64	51	44.3	44	53.9	76	E	7	E	13		T.	10 s., e. (?)	9 s. cu., sw	
30	29.72	29.67	51.5	66.7	72	52	48.0	78	60.0	68	E	8	SE	11			1 ci., sw	10 ci. s., sw	
31	29.70	29.64	56.5	67.1	74	54	56.2	98	62.9	79	E	7	NE	9			10 s., e. (?)	10 ci. s., sw	1
Mn	29.72	29.68	54.4	65.5	71.8	58.3	51.1	79.7	58.6	66.0	S	7.8	N	8.1	.05	.20	3.3 ci., sw	1.9 ci., a. s., sw	

MEMPHIS, TENN.

[φ=35° 9′ N; λ=90° 3′ W; barometer above sea, 397 feet; gravity correction applied −.03.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.64	29.61	64.8	63.5	70	60	63.8	95	62.0	92	SE	4	SE	12	0.20	0.72	10 s., se	4 s. cu., s	
2	29.68	29.70	56.0	67.7	72	56	54.0	88	56.2	48	SW	8	S	1	1.08		0	2 ci., sw	
3	29.72	29.70	54.6	68.2	72	54	52.0	84	57.0	49	SE	9	NW	5			8 ci. s., sw	1 ci., w	
4	29.65	29.54	55.3	65.0	73	55	51.9	80	55.5	54	NW	3	NW	8			0	3 ci. cu., w	
5	29.52	29.53	63.0	57.5	65	52	53.0	100	56.0	91	W	5	NW	7	.29	T.	10 s., sw	10 s., nw	≡9a.
6	29.74	29.81	44.1	46.3	56	41	40.4	73	38.3	45	NE	12	NE	11			Few s., ne	0	
7	29.92	29.84	35.0	51.3	55	35	32.0	72	40.8	36	NE	6	NE	7			6 a. cu., sw	0	
8	29.87	29.81	42.3	58.0	64	42	39.0	75	48.0	46	E	8	SE	8			0	0	
9	29.81	29.66	45.2	63.8	68	45	41.0	70	51.8	43	SE	9	S	7			0	0	
10	29.61	29.44	56.5	66.2	70	56	49.2	59	58.0	60	S	9	SE	14			10 a. cu., w	0	
11	29.32	29.53	64.3	54.0	68	49	59.2	74	41.0	27	S	14	NW	3	T.	.02	10 s., sw	0	
12	29.54	29.46	45.7	62.2	66	43	38.0	46	48.0	31	SE	6	S	10			1 ci., sw	0	
13	29.51	29.51	49.5	63.2	65	49	45.0	70	61.7	92	SE	8	E	7			8 ci. cu., sw	4 s., nw	
14	29.80	29.80	44.8	57.8	63	44	42.0	80	48.8	51	N	8	NE	10			3 ci. s., w	0	
15	29.66	29.49	57.0	72.9	78	53	52.0	71	64.0	61	SE	12	S	12			1 s. cu., sw	0	
16	29.45	29.47	71.0	58.0	75	47	65.0	72	54.5	80	S	15	NW	14		.01	7 s. cu., sw	10 s., nw	
17	29.74	29.94	38.3	38.3	47	31	37.0	89	32.3	50	N	14	NW	9	T.		10 s., n	0	
18	30.19	30.17	20.8	29.0	33	20	18.0	58	23.5	39	NW	9	NW	4			0	0	
19	30.22	30.14	24.6	34.8	38	24	23.3	83	29.0	46	NW	1	N	5			0	0	
20	30.16	30.07	27.0	38.0	38	27	25.0	76	31.2	44	NE	11	NE	6			10 ci. s., sw	10 s., ne. (?)	
21	30.04	29.91	32.5	49.0	52	32	29.0	64	39.0	36	NE	6	SW	1			8 a. s., w	0	
22	29.89	29.75	37.8	51.0	56	38	35.0	76	37.1	43	S	8	S	9			7 a. cu., nw	0	
23	29.70	29.68	42.2	52.1	55	42	38.3	70	43.0	46	SW	9	W	5			10 s., w	Lt. smoke, 0	≡9a.
24	29.77	29.68	37.0	45.0	49	36	33.0	65	38.0	51	NE	12	NE	10			2 ci., w	10 s., ne. (?)	
25	29.74	29.84	35.0	37.1	40	34	34.0	91	33.6	69	N	8	N	12	.06		10 s., n	10 s., n	
26	29.95	29.95	32.5	32.7	37	25	29.0	74	27.0	43	N	5	N	5			10 s. cu., n	0	
27	29.99	29.75	30.2	36.0	39	20	18.6	76	29.5	42	NE	5	S	5			1 ci. cu., nw	0	
28	29.44	29.42	32.8	51.0	59	32	27.7	50	42.5	47	S	12	N	15			Lt. smoke, s	0	
29	29.56	29.61	34.2	41.8	44	33	31.7	76	37.3	65	NW	4	NW	10			0	0	
30	29.79	29.74	28.0	35.2	38	28	26.0	76	31.0	61	NW	5	E	4			3 ci., w	6 ci. s., w	
Mn	29.75	29.72	42.7	51.6	56.8	40.1	39.4	74.4	43.9	52.9	{ne se}	8.2	NW	7.9	1.63	.75	4.8 s., sw	2.3 s., w., nw	

DECEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.74	29.70	31.5	32.8	34	31	31.0	94	32.3	95	SE	6	E	4	T.	0.08	10 n., se	10 n., e	*
2	29.74	29.66	28.3	32.9	34	28	28.0	96	32.0	90	NE	6	SW	5	0.02		10 s., ne	0	*
3	29.68	29.71	30.0	44.0	46	30	29.5	94	41.2	79	SW	6	S	6			0	0	
4	29.77	29.82	42.3	40.8	44	38	40.3	85	39.4	88	N	4	W	8		.02	10 s., sw	Few a. s., sw	
5	29.94	29.97	29.0	35.0	38	29	27.0	77	31.7	69	NW	9	NW	6			7 a. s., sw	0	
6	30.06	29.94	24.1	37.0	40	24	22.2	74	34.0	74	NW	4	S	10			0	0	
7	29.81	29.65	31.7	53.0	57	31	27.7	59	41.7	34	S	10	S	10			0	0	
8	29.60	29.54	43.8	41.2	48	32	37.3	53	37.0	67	NW	1	NW	12		.01	10 s., sw	10 n., nw. (?)	*
9	29.44	29.39	32.0	39.4	40	31	31.7	97	38.5	93	SW	4	SW	5	.15	.01	8 s. cu., sw	10 s., sw. (?)	*△
10	29.57	29.64	29.0	38.9	40	29	28.0	88	35.0	68	W	12	SW	6	.01		0	0	
11	29.74	29.66	34.5	47.7	52	34	30.2	60	42.2	63	W	8	SE	10			0	0	
12	29.46	29.40	50.0	47.2	66	32	48.1	88	47.2	100	SE	18	NW	42	.05	.80	10 n., se	10 n., nw	
13	30.02	30.02	25.0	30.3	34	24	23.0	74	27.0	64	N	14	NE	6	.02		0	0	
14	30.06	30.08	25.3	30.7	35	24	24.0	83	27.0	60	NE	9	N	12			Few a. s., sw	0	
15	30.12	29.99	21.2	33.4	35	21	18.7	63	27.0	39	N	10	E	4			0	0	
16	29.85	29.72	29.0	47.0	49	29	25.0	55	38.2	41	S	10	S	4			0	0	
17	29.84	29.84	31.8	41.8	46	31	29.0	71	36.0	56	NE	11	NE	10			0	0	
18	29.88	29.70	35.2	53.2	57	34	31.2	63	44.5	49	E	12	SE	13			0	7 a. s., nw	
19	29.55	29.32	49.9	57.0	58	44	49.0	94	57.0	100	SE	20	S	10	.35	1.25	10 n., se	10 n., s	
20	29.66	29.74	35.9	45.1	48	35	35.4	95	44.8	98	NW	15	SW	8	.35		0	0	
21	29.65	29.65	38.7	52.9	56	38	34.0	61	44.5	50	S	15	W	7			7 ci. s., w	0	
22	29.85	29.89	43.6	51.7	56	41	39.0	66	46.4	57	W	8	NE	7			0	Few ci., w	
23	29.90	29.69	42.0	54.6	57	42	38.0	69	45.0	45	SE	10	SE	10		T.	1 a. s., sw	10 n., sc. (?)	
24	29.58	29.54	54.0	54.1	65	47	52.5	91	54.0	99	W	5	NW	20	.10	.24	10 s., sw	10 n., nw	
25	29.57	29.49	40.0	46.0	49	31	40.0	100	45.0	93	NW	6	SW	17	.81		4 a. s., sw	10 s. cu., nw	
26	29.92	29.87	16.2	26.3	31	16	14.0	62	22.3	51	N	8	SW	9			0	0	
27	29.75	29.74	28.9	47.0	50	25	24.8	52	39.0	46	SW	12	SW	8			0	0	
28	29.83	29.73	39.0	50.3	54	38	35.3	53	42.2	49	N	7	SW	10			0	0	
29	29.86	29.86	37.3	48.0	50	35	31.8	53	39.5	44	W	6	SW	8			0	0	
30	30.00	29.84	30.0	48.3	49	30	27.2	69	41.3	54	NE	10	SW	10			0	0	
31	29.82	29.67	43.5	58.7	63	42	36.0	46	48.0	44	SW	5	S	12			0	0	
Mn	29.78	29.72	34.6	44.1	47.6	32.2	31.8	73.7	39.4	66.7	{n w nw}	9.1	SW	10.0	1.86	2.41	3.1 a. s., s., sw.	2.8 n., nw	

NEW ORLEANS, LA.

[φ=29° 58′ N; λ=90° 4′ W; barometer above sea, 51 feet; gravity correction applied −.04.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.91	29.77	53.3	64.0	65	50	50.0	80	63.7	98	NE	8	S	5	T.	0.82	10 s. cu., e	10 n., s. (?)	
2	29.80	29.89	55.0	51.1	65	49	54.4	96	48.3	82	SW	12	W	10	0.12		10 s. cu., sw	7 s. cu., w	
3	29.96	29.88	48.0	48.0	49	47	46.1	87	46.0	86	NW	7	NW	7		T.	10 s. cu., nw	10 n., nw. (?)	
4	29.88	29.86	44.0	50.0	53	43	43.0	93	45.4	70	W	7	0	0	T.		2 s. cu., w	Lt. smoke, 0 (?)	
5	29.76	30.05	49.5	43.8	50	42	48.0	90	38.0	57	S	9	NW	20	.02	.01	8 s. cu., sw	10 s. cu., nw	
6	30.18	30.07	35.4	50.6	57	35	34.0	87	43.1	53	W	8	SW	10			0	0	☾
7	29.92	29.97	50.2	58.5	70	47	49.0	92	43.1	22	SW	8	NW	14			0	0	☾
8	30.22	30.18	39.4	46.2	52	39	32.0	41	38.1	45	NW	16	NW	8			0	Lt. smoke, 0 (?)	
9	30.12	30.01	38.0	48.8	59	36	33.4	61	44.0	68	SE	9	SE	4			3 ci., w	6 ci. s., w	☾
10	29.89	29.70	51.0	61.3	65	48	50.2	95	62.3	95	E	7	S	20		.73	10 s., e	10 n., s	
11	29.75	30.06	61.1	47.8	66	43	61.0	99	43.5	71	W	7	N	14	1.21		10 s., w	10 s. cu., n	☾
12	30.39	30.43	34.0	41.4	44	34	29.8	60	33.9	43	N	18	N	10			1 ci. s., nw	5 a. s., sw	☾
13	30.44	30.39	31.2	40.0	42	31	27.8	64	33.2	46	NE	9	SE	5			8 a. cu., sw	10 s., se. (?)	
14	30.38	30.32	39.0	44.0	47	38	34.0	59	35.8	41	NE	10	0	0	.01		10 s., ne	9 a. s., sw. (?)	
15	30.27	30.18	39.4	49.0	53	38	38.0	88	43.7	65	NE	10	E	7			9 ci. s., sw. (?)	7 ci. s., sw. (?)	
16	30.12	29.96	46.1	47.0	49	44	43.8	84	47.0	100	NE	7	NE	9	T.	.64	10 a. s., sw. (?)	10 n., ne	
17	29.86	29.87	48.0	53.0	54	47	48.0	100	52.7	98	NE	8	NW	7	.06	.02	10 n., ne	10 s., nw (?)	≡ca.
18	29.98	30.07	50.0	50.5	53	46	49.0	93	47.8	82	N	6	N	6			10 s., n	10 s., n	
19	30.07	30.00	43.0	50.0	53	42	39.9	76	44.4	63	NE	9	N	7			10 s., nw	3 ci. s., 0 (?)	
20	29.87	29.85	48.6	53.5	55	47	46.9	88	50.9	84	E	8	N	8	T.		8 s. cu., sw	5 s. cu., n. (?)	
21	29.88	30.04	48.0	48.0	53	46	48.0	100	45.9	85	SE	3	N	12	T.	.02	10 n., se	10 s., n	≡ca.
22	30.18	30.14	41.0	50.9	58	41	40.1	93	47.7	80	W	2	S	12	T.		0	Few ci. s., 0 (?)	☾
23	30.10	29.96	48.6	58.0	63	44	46.4	85	56.2	89	SE	5	SE	15		T.	8 s. cu., sw	10 s. cu., sw	
24	29.96	29.97	50.0	56.1	61	47	46.7	78	50.3	66	NW	14	NW	6	.15		Few ci. s., sw (?)	2 ci. s., 0 (?)	
25	30.05	30.01	43.8	53.9	61	42	43.0	94	51.1	83	NE	8	E	5			4 s., ne	2 ci. s., sw. (?)	
26	29.99	30.00	51.0	57.7	72	49	50.5	97	57.4	98	SE	4	NE	6		.12	7 s., se	10 s., ne	≡cp. ☾
27	29.99	29.98	60.1	69.2	76	58	60.1	100	66.4	86	SE	8	S	2	T.		10 s., se	6 s. cu., s. (?)	≡ca.
28	29.98	29.93	64.0	68.8	72	62	64.0	100	67.5	94	SW	1	S	12	T.	.07	10 s., sw	10 s. cu., s	≡ca. ☾
29	29.92	29.92	65.0	70.6	77	64	64.6	98	67.1	84	S	7	SW	11		T.	10 s., s	4 s. cu., sw	≡ca. ☾
30	30.19	30.28	54.7	53.0	68	47	47.8	60	42.8	40	N	22	NE	12	.01		6 ci. s., sw	7 ci. s., sw. (?)	
31	30.20	30.10	42.5	58.2	70	42	41.0	88	55.7	85	NE	9	SE	3			2 ci., w	10 s. cu., se	☾
Mn	30.04	30.03	47.5	53.1	59.1	44.8	45.5	84.7	48.8	72.9	NE	8.6	n / nw	8.6	1.58	2.43	6.6 s., sw	6.5 s. cu., sw	

FEBRUARY, 1903.

1	30.01	29.97	59.8	67.9	76	57	59.8	100	64.9	85	SE	8	S	10			D. fog, se	8 a. s., s. (?)	
2	29.94	29.92	64.0	62.0	72	61	63.0	95	60.2	90	S	9	SE	10		0.84	10 a. s., s	10 s. cu., se	≡ca.
3	29.79	29.72	64.1	70.7	75	61	64.1	100	68.8	91	S	10	SW	16			D. fog., s	10 s. cu., sw	
4	29.83	30.06	61.0	54.9	70	51	52.0	54	44.0	38	NW	9	NW	12	0.08		10 s., w	10 a. cu., sw	☾
5	30.24	30.20	43.0	50.7	53	43	36.1	49	42.0	46	NE	10	NE	6			6 ci, w (?)	10 a. cu., sw	
6	30.19	30.01	45.9	54.7	59	44	40.0	59	51.9	83	NE	10	NE	13		.01	10 a. s., sw. (?)	10 n., ne. (?)	
7	29.85	29.84	68.1	65.8	72	50	67.8	96	63.3	87	S	12	W	12	T.	.07	10 s., s	9 s. cu., w	≡ca.
8	30.05	30.14	46.7	49.5	50	46	44.2	82	46.0	76	N	10	N	5		T.	10 s., s	10 a. s., sw	Lt. smoke p. ☿
9	30.21	30.12	42.9	51.0	56	43	41.8	91	46.1	69	NE	9	SE	5			3 ci. s., sw	10 s. cu., sw. (?)	⊸⊕
10	29.97	29.78	48.0	63.0	70	47	48.0	100	62.4	97	NE	15	S	12	.81	1.40	10 n., ne	10 n., s	☾
11	29.82	29.94	53.0	54.4	60	51	51.5	90	49.5	71	W	9	N	5	.20		2 s., sw	0	
12	29.98	29.99	49.9	60.0	69	48	49.0	94	56.7	82	SE	5	SE	9			Lt. fog, se	1 a. s., se. (?)	
13	30.00	29.99	59.0	60.0	65	54	59.0	100	60.0	100	NE	9	E	10		2.30	D. fog, ne	10 n., e. (?)	≡cp. ☾
14	30.05	30.02	63.9	70.8	80	64	63.0	95	69.2	92	SE	15	S	9	1.33		10 s. cu., se	4 s. cu., s	☾
15	29.91	29.74	67.2	72.8	79	65	67.2	100	70.0	87	SE	8	S	15		T.	D. fog, se	10 n., s	
16	29.42	29.85	71.8	37.1	72	33	69.6	90	34.0	73	SW	22	NW	28	T.	1.09	10 n., sw	10 s. cu., nw. (?)	☾
17	30.24	30.28	28.1	39.1	42	27	25.8	73	32.4	46	N	12	W	5			1 s. cu., n	2 ci., 0 (?)	
18	30.37	30.40	38.6	49.6	53	36	35.0	70	42.3	53	W	2	N	5			9 a. s., w	8 ci. s., sw. (?)	≡ca. Lt. smoke p.
19	30.42	30.36	45.6	52.0	53	44	41.7	72	45.0	57	NE	10	SE	4			6 a. s., w	10 s., se. (?)	
20	30.32	30.27	48.0	53.0	55	47	42.8	65	45.2	53	NE	17	NE	10			10 s., ne	10 s., ne. (?)	
21	30.28	30.27	49.2	57.8	63	49	43.4	62	50.0	57	NE	8	N	10			10 s., ne	0	
22	30.40	30.38	41.8	54.0	56	41	37.8	69	43.5	40	NE	8	N	4			Lt. smoke, ne	3 ci. s., 0 (?)	☾
23	30.36	30.26	42.0	58.8	63	42	37.1	63	45.7	32	NE	6	N	5			7 ci. s., sw	0	Lt. smoke a.
24	30.21	30.12	47.0	59.0	66	46	43.0	72	48.7	46	NE	7	E	6			9 a. s., sw. (?)	7 a. s., n. (?)	Lt. smoke a.
25	30.11	30.02	52.0	57.1	59	48	48.0	75	54.5	84	NE	11	E	9		.04	10 a. s., w. (?)	10 n., e	Lt. smoke a.
26	29.94	29.85	60.1	61.0	65	55	59.0	93	60.5	97	SE	10	NW	8	.06	.57	10 s., se	10 n., e. (?)	☾
27	29.68	29.63	68.0	67.7	74	57	67.1	95	67.7	100	SE	17	SW	14	.07	1.23	10 s., se	10 n., sw. (?)	≡ca. ☾
28	29.94	30.10	50.3	60.8	66	50	49.1	92	55.8	63	W	5	NW	4	.10		7 ci. s., w	9 a. s., sw	≡ca6
Mn	30.05	30.04	52.8	57.7	64.1	48.6	50.2	82.1	52.8	71.2	NE	10.1	N	9.3	2.65	7.55	6.4 s., se., sw., w	7.5 n., sw	

NEW ORLEANS, LA.

[φ=29° 58′ N; λ=90° 4′ W; barometer above sea, 51 feet; gravity correction applied −.04.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.29	30.28	49.0	56.4	59	48	45.0	73	49.7	62	NE	11	N	7	.....	.....	0	3 ci. s., sw. (?)	
2	30.28	30.25	45.7	55.0	60	45	41.0	66	51.0	76	NE	11	NE	10	.....	.....	9 s. cu., sw	10 s. cu., sw	
3	30.20	30.13	56.4	57.1	59	52	52.6	78	57.1	100	E	9	E	7	0.09	0.80	10 s., sw	10 n., e. (?)	≡p.
4	30.15	30.13	61.1	62.9	75	56	59.8	93	62.0	95	SE	15	E	3	.17	.....	9 s., se. (?)	10 s., e. (?)	
5	30.10	30.08	64.0	67.3	78	61	64.0	100	65.8	92	SE	8	NE	4	.....	.40	D. fog, se	9 s. cu., se	
6	30.08	30.03	64.0	68.0	76	63	64.0	100	65.7	89	SE	4	SE	11	.....	.01	D. fog, se	8 a. s., se. (?)	
7	30.02	30.02	65.0	72.9	82	62	64.8	99	68.4	80	SE	3	S	9	.....	.....	9 s., se	3 s. cu., se	≡a.
8	30.04	30.04	69.0	65.9	77	65	68.0	95	65.0	95	SW	6	SE	14	.59	.46	8 s. cu., sw	9 s. cu., se	
9	30.06	30.02	65.2	70.5	79	62	65.2	100	68.8	92	NE	4	SE	5	.....	.06	10 s., ne	4 s. cu., se	≡a.
10	30.05	30.12	67.3	65.0	78	63	67.0	98	63.5	92	S	9	N	13	.....	.11	9 s. cu., s	10 n., n. (?)	≡a.
11	30.13	30.13	62.0	65.4	66	60	61.0	94	63.4	90	NE	7	NE	9	.44	.02	10 s., ne	8 ci. cu., s	
12	30.09	30.01	63.7	65.8	68	61	63.7	100	65.2	97	NE	6	SE	7	T.	.10	10 s., ne	10 n., se	≡a.
13	29.86	29.79	63.4	65.1	70	60	62.1	93	63.0	89	SE	12	SE	12	.70	.09	10 n., se	10 s. cu., se	
14	29.79	29.82	62.6	62.0	67	60	61.8	96	62.0	100	NE	6	NW	5	.14	7.92	8 s., ne	10 n., nw	≡a.
15	29.84	29.86	60.8	66.0	70	61	59.6	93	63.4	87	NE	6	NE	9	.70	T.	4 s. cu., n	2 a. s., ne	
16	29.91	29.92	64.0	69.0	73	63	63.1	95	64.5	79	NE	6	E	3	.....	.....	10 s. cu., ne	4 a. s., e	
17	29.94	29.97	63.0	66.6	74	62	63.0	100	63.5	85	S	2	SE	12	.....	.....	D. fog, e. (?)	5 ci. s., se. (?)	
18	30.00	29.99	63.2	68.8	77	62	63.0	99	65.8	85	E	7	SE	9	.....	.....	7 s. cu., se	10 a. s., sw. (?)	≡a.
19	30.00	29.97	63.4	70.8	77	63	63.0	98	67.6	85	E	6	SE	11	.....	.....	4 ci., w	7 ci. s., w. (?)	≡a.
20	30.01	29.94	64.0	70.3	76	62	62.0	90	65.0	75	S	5	N	5	.06	.....	6 ci. s., sw	9 a. s., se	≡a.
21	29.88	29.86	61.0	59.0	67	53	61.0	100	55.2	79	N	15	NE	12	.14	.54	10 n., n	10 s. cu., ne	
22	29.79	29.75	56.6	61.4	62	56	54.9	90	53.0	87	NE	9	N	4	.....	T.	10 s., ne	10 s., n	
23	29.85	29.95	57.0	70.0	72	57	56.0	94	59.5	53	NW	1	N	6	.....	.....	3 ci. s., w. (?)	4 ci. s., sw	≡a.
24	30.16	30.13	55.0	56.0	63	54	47.0	54	44.6	37	N	15	NE	10	.....	.....	10 s., n	10 a. s., sw. (?)	
25	30.22	30.14	47.3	60.5	64	47	40.0	51	47.8	36	NE	13	NE	7	.....	.....	2 ci., sw	0	
26	30.15	30.06	49.2	59.0	63	49	42.7	57	52.5	65	NE	12	E	5	.....	.....	4 ci. cu., sw	8 a. s., sw	
27	30.02	29.98	55.6	64.2	72	55	53.0	84	58.0	69	NE	13	W	20	.....	.35	9 s. cu., sw	10 n., w	▲
28	29.92	29.88	59.6	68.5	73	58	59.6	100	62.5	72	N	9	N	5	.08	.....	10 s., n	10 s. cu., n	≡a.
29	29.89	29.84	57.0	63.8	66	56	53.0	77	56.2	62	N	15	N	10	.64	.....	10 s., n	8 s. cu., n	
30	29.89	29.87	51.2	66.0	71	51	49.3	88	54.0	44	W	7	W	7	.....	.....	Lt. fog, w	2 ci. s., w	
31	29.98	29.99	56.3	66.0	75	55	54.0	86	57.8	60	NW	5	SW	10	.....	.....	2 ci. s., n	Few a. cu., nw. (?)	
Mn.	30.02	30.00	59.4	64.7	70.6	57.5	57.6	88.4	60.2	77.7	NE	8.3	SE	8.4	3.75	10.86	6.6 s., sw	7.2 s. cu., se	

APRIL, 1903.

1	30.05	29.99	57.8	68.8	78	57	55.9	89	59.5	58	S	5	S	8	.....	.....	0	8 ci. s., nw	
2	29.96	29.87	63.0	71.9	79	61	62.6	98	67.8	81	S	9	S	11	.....	.....	8 s. cu., s	9 s. cu., s	≡a.
3	29.85	29.83	69.0	72.3	83	59	66.1	86	60.0	48	SW	10	NW	24	.....	T.	9 s. cu., sw	6 s. cu., sw	
4	30.14	30.10	48.5	59.7	62	48	41.1	51	46.7	34	N	17	N	3	.....	.....	4 ci., nw	8 ci. s., w	
5	30.12	30.08	51.0	60.0	65	50	45.0	62	53.7	66	NE	9	SE	6	.....	.....	Few ci., sw. (?)	7 ci. s., sw	
6	30.04	29.98	61.0	69.7	75	56	58.5	86	67.0	87	SE	6	SE	10	.....	T.	10 s. cu., s	10 s. cu., se	
7	29.97	29.91	66.5	74.6	82	66	65.2	93	70.0	80	N	3	S	10	.....	.....	7 s. cu., s	10 s. cu., s	≡a.
8	29.96	29.96	69.0	77.9	81	68	68.0	95	68.7	63	SW	6	NW	4	.....	.....	10 s., sw	1 s, cu., nw	≡a.
9	30.05	29.98	65.0	77.8	83	65	65.0	100	70.0	68	NW	5	SW	5	.....	T.	D. fog, nw	4 ci. s., sw. (?)	
10	30.00	29.95	65.0	72.0	80	65	65.0	100	66.0	73	S	3	S	9	.....	.....	D. fog, s	9 a. s., sw	
11	29.91	29.87	68.2	75.0	83	67	67.8	98	70.0	78	S	8	S	10	.....	T.	8 a. s., sw	9 ci. cu., nw	
12	29.84	29.74	71.0	75.6	85	69	70.5	98	71.1	80	S	7	SW	10	.....	.....	10 s., s	10 a. s., sw	
13	29.66	29.64	73.0	70.3	80	65	71.0	91	69.0	50	SW	12	NW	20	.....	T.	10 s. cu., sw	10 a. s., sw	
14	29.76	29.72	56.0	64.5	68	56	48.0	55	52.2	42	NW	15	NW	13	.....	.....	5 ci. s., w	0	
15	29.82	29.79	52.7	65.7	71	52	48.3	73	54.0	45	W	9	NW	7	.....	.....	Few ci., w	10 a. s., nw. (?)	Lt. smoke a.
16	29.91	29.89	57.0	66.8	72	55	50.0	61	57.0	54	N	6	N	14	.....	.....	Few ci. s., sw (?)	0	
17	30.02	29.90	55.2	69.0	71	52	48.8	63	65.5	83	N	9	NW	5	.....	.....	1 ci., w	4 a. s., w	
18	29.89	29.82	60.0	67.3	75	58	56.5	81	60.9	69	SE	4	S	11	.....	.....	4 ci. s., sw	9 a. cu., s	Lt. smoke a.
19	29.80	29.73	63.7	72.8	82	60	62.2	92	67.8	78	S	6	SW	14	.....	.....	7 s. cu., sw	1 a. s., sw	
20	29.84	29.83	66.2	74.9	81	65	63.4	86	60.7	43	W	9	NW	14	.....	.....	Few ci. s., w	2 ci., nw	
21	29.95	29.88	65.0	72.5	77	64	58.0	66	61.0	51	N	10	NW	10	.....	.....	Few ci., w	10 a. cu., w	
22	29.93	29.92	62.2	69.0	74	60	57.2	74	51.0	24	NW	5	N	17	.....	.....	1 a. s., w	0	
23	30.07	30.05	56.0	68.8	78	54	48.0	55	54.2	36	NE	9	SW	4	.....	.....	0	1 ci., 0 (?)	
24	30.11	30.04	60.8	69.0	77	58	57.3	81	57.7	50	SW	1	S	13	.....	.....	0	0	
25	30.06	29.94	62.0	71.0	79	60	56.0	74	62.8	63	SW	5	S	10	.....	.....	7 ci. s., w	3 ci., sw	
26	30.04	30.00	57.6	65.8	70	57	51.1	64	54.5	47	NE	15	NE	9	.....	.....	6 a. s., n	1 ci., 0 (?)	
27	30.15	30.11	58.9	65.3	71	56	52.4	65	56.3	56	NE	10	SE	10	.....	.....	5 ci. s., w	8 ci. s., sw	
28	30.16	30.17	60.2	69.8	77	57	56.2	89	64.0	73	NE	9	SE	11	.....	.....	1 ci. s., w. (?)	5 s. cu., se	
29	30.14	30.11	66.2	69.8	77	63	64.3	90	65.8	81	SE	9	SE	16	.....	T.	6 s. cu., se	4 a. s., s. (?)	
30	30.05	30.09	67.0	66.3	71	59	65.8	94	63.3	85	SE	5	NW	13	T.	0.97	10 n., s	10 s. cu., nw	
Mn.	29.98	29.93	61.8	69.8	76.1	59.4	58.3	80.3	61.3	61.5	S	7.9	NW	10.7	T.	.97	4.3 s. cu., w	5.6 a. s., s. cu., sw	

NEW ORLEANS, LA.

[φ=29° 58′ N; λ=90° 4′ W; barometer above sea, 51 feet; gravity correction applied −.04.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.15	30.05	53.0	67.0	70	52	47.5	66	56.0	49	NE	15	N	4	.....	.....	4 ci. s., nw. (?)	8 a. s., sw.	
2	30.04	29.98	61.0	72.2	76	59	57.7	82	66.9	76	S	1	SE	5	.....	.....	10 s. cu., s	9 s. cu., se	
3	30.05	30.00	66.7	74.0	82	63	64.9	91	67.7	72	N	6	S	12	.....	.....	9 s. cu., n	4 ci., sw	
4	30.03	29.98	64.6	73.0	82	64	61.0	82	69.5	84	NE	9	S	10	.....	.....	10 a. s., sw. (?)	8 a. s., sw. (?)	
5	29.97	29.92	67.8	71.6	77	66	63.8	80	65.6	73	E	5	S	8	.....	.....	10 a. s., w. (?)	10 s. cu., s	
6	29.85	29.79	67.0	69.4	75	65	64.7	88	66.2	84	SE	8	SE	7	0.09	T.	10 s. cu., se	10 n., sw	
7	29.74	29.70	64.0	71.7	75	63	63.0	95	65.4	72	NE	8	NW	3	.70	0.05	10 s. cu., nw	9 s. cu., nw	
8	29.72	29.72	62.7	67.0	80	61	62.7	100	62.5	78	NE	4	N	16	.....	T.	8 a. s., sw. (?)	10 n., n	a.
9	29.77	29.82	63.9	70.3	78	62	61.9	90	62.4	64	NE	10	NE	4	T.	.....	9 s. cu., ne	10 s. cu., ne	
10	29.84	29.82	63.0	71.8	77	62	61.5	92	64.0	66	NE	7	SE	6	.....	.....	10 s. cu., w	10 s. cu., se	
11	29.81	29.78	67.8	68.2	72	65	65.6	89	67.0	94	E	3	SE	5	.....	.14	10 a. s., 0 (?)	10 n., se	
12	29.78	29.76	66.7	78.3	82	65	65.4	93	66.5	54	W	5	NW	4	.03	T.	1 a. cu., sw. (?)	8 s. cu., nw	Lt. smoke a.
13	29.83	29.76	67.9	76.2	82	66	63.9	80	61.2	41	N	12	NW	6	.....	.....	Few s. cu., n	2 a. cu., nw	
14	29.72	29.70	63.8	72.0	74	63	60.8	87	61.3	54	W	10	NW	7	T.	.....	4 s. cu., w	3 s. cu., nw	
15	29.78	29.79	67.0	77.3	79	62	64.0	85	66.3	56	NW	7	N	3	.....	.....	Few s. cu., nw	9 s. cu., n	
16	29.90	29.90	68.8	73.8	82	66	64.0	77	67.8	74	NE	8	S	10	.....	.....	2 s. cu., w. (?)	10 a. s., sw	
17	29.98	29.94	71.0	73.3	82	66	66.5	79	68.0	76	E	7	SE	12	.....	.....	Few cu., 0 (?)	7 a. cu., w	
18	29.99	29.94	71.2	75.2	83	67	69.0	89	70.0	77	SE	5	SE	10	.....	.....	1 s. cu., sw. (?)	8 s. cu., se	
19	29.99	29.97	71.0	75.0	83	69	69.0	90	72.1	87	SE	3	SE	8	.....	T.	10 s. cu., se	10 a. cu., nw. (?)	
20	30.03	30.01	72.8	75.5	84	70	69.8	86	69.0	72	SE	4	S	9	.....	.....	3 ci. s., sw	2 ci., 0 (?)	
21	30.01	29.99	72.0	76.8	84	69	70.0	91	69.0	68	SE	10	S	10	.....	.....	1 ci. s., sw. (?)	3 s. cu., s	
22	30.03	30.02	72.0	75.8	84	69	70.0	91	70.0	75	SE	8	SE	12	.....	.....	0	2 ci. s., 0 (?)	
23	30.05	29.98	72.0	77.0	84	69	69.0	86	70.0	71	SE	3	SE	9	.....	.....	Few s. cu., sw.	5 ci., sw	
24	30.02	29.99	72.2	76.3	86	68	68.9	85	69.0	69	SE	6	SE	7	.....	.....	1 ci. s., nw	6 ci. s., sw	
25	30.06	30.02	73.2	76.9	86	69	70.7	88	69.7	70	E	3	SE	9	.....	.....	10 a. s., 0 (?)	8 a. s., w	Lt. smoke a.
26	30.04	29.99	73.1	77.8	86	71	72.0	95	70.1	68	SE	7	S	11	.....	.....	1 s. cu., se	8 ci. s., w	
27	30.02	30.02	75.0	77.0	85	72	72.0	86	72.0	79	SE	5	SE	15	.....	T.	7 ci. s., w	10 s. cu., sw	
28	30.01	29.93	74.1	78.0	84	72	72.0	91	73.0	79	SE	3	S	9	.....	T.	10 a. s., w. (?)	10 a. s., w	
29	29.96	29.92	75.7	78.0	86	72	73.7	91	71.9	75	SE	10	SE	8	.....	.02	1 a. s., sw	7 s. cu., se	
30	29.96	29.82	74.6	79.0	86	67	72.9	92	72.0	71	S	5	SW	12	.....	.01	9 s. cu., s	5 s. cu., sw	
31	29.81	29.81	70.9	72.7	86	67	67.2	83	64.2	63	SW	5	SW	14	.07	.....	0	8 s. cu., sw	
Mn	29.93	29.90	68.6	74.1	80.8	65.8	66.0	87.1	67.3	70.7	SE	6.5	SE	8.5	.89	.22	5.2 s. cu., w	7.1 s. cu., sw	

JUNE, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.95	29.94	64.0	74.0	82	61	58.5	72	64.9	61	W	9	SW	10	.....	.....	Few s. cu., w	8 ci. s., sw	
2	30.03	30.00	63.9	77.3	81	61	56.9	65	66.3	56	NE	11	SE	5	.....	T.	Few ci., nw	10 s. cu., s	
3	30.00	29.94	67.0	71.0	73	65	64.0	85	68.5	88	NE	15	NE	9	0.02	0.24	10 n., ne	9 s. cu., ne	
4	29.93	29.90	69.7	81.0	83	67	68.0	92	70.0	58	NE	8	N	4	.01	.....	9 s. cu., ne	2 cu., n. (?)	
5	30.02	30.01	74.0	77.0	87	71	70.0	82	71.0	74	NE	8	S	9	.....	.....	4 ci. cu., s. (?)	4 s. cu., s	
6	30.07	29.99	76.0	78.7	90	72	72.0	82	71.6	71	W	6	S	9	.....	.....	4 a. cu., s	1 s. cu., s	
7	30.00	29.89	75.1	81.0	90	73	71.0	82	73.3	70	SW	4	S	9	.....	T.	7 ci. s., nw	2 ci. s., sw	
8	29.90	29.83	75.1	77.1	91	73	71.1	82	72.0	79	SW	5	NE	5	.....	.....	1 ci., 0 (?)	10 s. cu., ne	
9	29.87	29.83	76.3	78.1	86	74	71.3	78	71.0	71	W	5	SW	6	.....	T.	5 a. cu., w	10 s. cu., sw	
10	29.92	29.91	77.7	79.0	84	72	73.0	80	72.0	71	SW	6	SW	12	.....	.03	10 s. cu., sw	10 s. cu., sw	
11	29.92	29.88	78.8	80.5	82	72	71.0	87	70.0	59	N	7	N	9	.05	.....	10 s. cu., n	10 s. cu., n	
12	29.96	29.87	67.8	76.0	79	67	59.0	59	60.4	39	NE	16	NW	4	.....	.....	6 a. s., sw	6 ci. s., w	
13	29.94	29.93	63.3	65.4	70	60	54.1	54	59.0	68	NE	16	SE	4	.....	.05	10 s., sw	10 n., se	
14	29.95	29.90	61.8	68.0	70	61	58.8	84	66.0	90	NE	13	NE	8	.07	.09	10 n., ne	10 s. cu., se	
15	29.90	29.87	68.6	74.0	76	68	65.4	84	69.1	78	NE	10	SE	6	T.	.01	10 s. cu., ne	9 s. cu., se	
16	29.88	29.82	74.0	73.2	83	70	71.0	86	71.0	90	SE	4	SW	5	.....	.29	9 s. cu., sw	9 s. cu., sw	
17	29.85	29.81	73.0	82.5	88	70	71.4	93	73.8	66	NW	8	W	4	T.	.....	10 a. cu., c	3 s. cu., w	
18	29.84	29.78	76.2	84.0	92	72	70.0	73	73.0	59	NE	6	SE	8	.....	.....	1 ci. cu., ne	Few s. cu., se. (?)	
19	29.84	29.78	77.0	82.4	93	75	72.3	80	75.2	72	W	3	S	11	.....	.....	Lt. smoke, w	3 ci. s., sw	
20	29.84	29.74	75.2	84.8	91	74	73.3	91	76.5	68	W	6	SW	8	.....	.....	10 s., w. (?)	1 cu., sw	Lt. smoke a.
21	29.80	29.72	75.4	83.0	90	73	72.9	89	71.0	56	W	8	SW	12	.....	.....	3 s. cu., w	2 cu., sw	
22	29.74	29.72	76.6	83.0	87	66	74.0	89	76.0	72	SW	12	SW	12	.02	1.68	10 s. cu., sw	9 s. cu., sw	
23	29.79	29.73	75.3	87.0	92	74	74.0	94	74.8	56	SW	7	SW	5	.....	.....	10 s., sw	Few s. s., w	
24	29.79	29.70	79.8	79.3	91	69	75.8	88	73.2	75	W	5	SE	10	.....	.17	8 ci. s., 0 (?)	8 s. cu., se	
25	29.86	29.81	78.3	84.5	92	75	74.3	83	75.2	65	S	8	SW	7	.....	.....	10 ci. s., n	8 s. cu., sw	
26	29.91	29.86	79.5	77.0	84	70	76.4	87	71.0	74	W	8	S	9	.....	.01	8 ci. s., nw	10 s. cu., s	
27	29.88	29.76	77.0	72.5	86	72	72.7	82	69.4	86	SW	11	NE	5	.....	.14	7 ci. s., sw	10 n., ne	
28	29.82	29.78	74.0	76.0	81	71	72.5	93	72.0	82	SW	8	SW	5	.01	.71	10 s. cu., sw	8 s. cu., sw	
29	29.89	29.89	73.8	79.0	89	72	72.8	95	74.0	79	SW	2	SE	7	.....	.....	9 s. cu., sw	5 ci. s., sw	Lt. smoke a.
30	29.97	29.96	79.0	76.2	88	74	76.0	87	73.0	86	SE	2	S	12	.....	.01	7 ci. s., nw	10 s. cu., s	
Mn	29.90	29.85	73.3	78.1	85.0	69.8	69.4	82.4	70.8	70.6	NE	7.9	SW	7.6	.18	3.43	6.8 s. cu., sw	6.6 s. cu., sw	

NEW ORLEANS, LA.

[φ=29° 58′ N; λ=90° 4′ W; barometer above sea, 51 feet: gravity correction applied −.04.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.95	29.90	77.0	81.1	88	72	75.0	91	76.8	82	SE	5	S	11	.....	.....	10 a. cu., se.	9 s. cu., s	
2	29.93	29.90	79.0	79.1	89	77	77.0	91	76.7	89	SE	7	SE	6	.....	0.22	10 s., se	7 a. cu., se	
3	29.95	29.96	79.8	80.6	86	76	77.0	88	76.0	81	SE	8	SE	5	.....	T.	4 ci. cu., ne	4 cu., se	
4	30.04	29.99	79.4	77.0	88	69	76.4	87	73.9	87	SE	2	S	8	.....	1.61	5 ci. s., e. (?)	8 s. cu., se	
5	30.06	30.00	78.8	82.8	89	74	74.3	81	75.0	70	NW	5	SW	4	.....	.03	4 cu., nw	2 s. cu., se	
6	30.05	29.98	80.5	84.7	92	76	76.0	81	77.7	73	W	1	S	8	.....	.....	1 s. cu., w	1 s. cu., se. (?)	
7	30.03	29.96	79.4	84.0	93	76	75.8	85	75.7	68	NW	6	SW	3	.....	.....	7 s. cu., nw	7 s. cu., se	
8	30.02	29.96	79.6	82.1	86	76	75.0	81	76.0	76	W	5	SW	6	.....	.45	10 s. cu., w	5 ci. s., s	
9	30.04	29.96	78.0	81.0	90	75	74.3	84	76.8	88	SW	4	S	8	.....	T.	10 ci. cu., sw	9 s. cu., s	
10	30.04	29.95	79.0	78.0	90	72	75.6	85	74.5	85	W	6	NE	2	.....	.61	10 ci. s., w	10 s. cu., nw	
11	29.98	29.90	74.0	77.3	79	73	73.0	95	75.0	90	SW	8	SW	3	0.27	.21	10 n., sw	10 s. cu., sw	
12	29.89	29.86	76.2	75.7	77	70	75.0	95	74.2	93	W	7	SW	6	.24	1.88	10 n., w	10 s. cu., sw	
13	29.88	29.88	75.0	80.0	85	73	72.0	86	73.5	74	W	8	N	6	.....	.02	7 ci. cu., w	7 s. cu., ne	
14	29.97	29.92	75.0	84.1	88	73	67.5	68	70.3	50	N	8	NW	5	.....	.....	Few cu., n	1 ci. s., nw	
15	29.97	29.92	76.0	86.0	89	73	68.8	69	70.0	44	NE	7	W	6	.....	.....	0	0	
16	29.98	29.93	79.5	86.2	91	76	68.0	55	73.6	55	W	4	S	5	.....	.....	0	6 s. cu., s	
17	29.99	29.93	79.3	85.7	91	76	72.8	73	75.0	61	W	4	S	9	.....	.....	7 ci. s., nw. (?)	1 s. cu., se	
18	30.01	29.91	79.7	84.4	92	76	73.6	75	76.1	68	SW	5	SW	9	.....	.....	2 ci., nw. (?)	3 s. cu., s	
19	29.99	29.91	79.0	87.2	92	76	73.5	77	76.1	60	SW	9	SW	6	.....	.....	Few ci., 0 (?)	1 ci. s., se. (?)	
20	29.94	29.91	82.0	84.8	91	78	77.6	82	78.0	74	NW	4	S	10	.....	.....	10 a. cu., nw	2 ci. s., sw	
21	29.98	29.94	82.0	86.7	93	79	74.8	71	72.8	51	NE	6	S	8	.....	.....	0	1 ci. s., 0 (?)	
22	30.02	29.93	81.1	90.0	94	76	74.0	72	72.2	42	W	6	SW	5	.....	.....	0	4 ci. s., n	
23	29.97	29.91	79.8	84.4	95	77	75.1	80	75.0	64	W	7	E	6	.....	.....	4 ci. s., n	8 a. cu., ne	
24	29.93	29.90	79.3	77.4	88	74	74.0	78	73.4	83	NE	12	W	4	T.	.01	10 n., ne	10 s. cu., w	
25	29.94	29.98	77.0	77.0	87	71	71.9	79	73.1	83	SE	11	SE	8	T.	1.00	9 ci. s., sw	8 ci. s., e	
26	30.06	30.05	75.0	75.7	87	72	71.3	83	72.8	87	NE	7	S	5	.19	.27	8 a. cu., ne. (?)	10 n., s	
27	30.07	29.98	78.9	75.0	89	74	76.8	89	73.3	92	SE	3	E	3	.01	.17	10 a. cu., sw	10 s. cu., e. (?)	
28	29.97	29.90	77.0	77.8	91	73	73.3	84	74.9	87	W	1	SE	3	.....	.02	3 ci., 0 (?)	9 s. cu., se	Lt. smoke, a.
29	29.96	29.92	80.2	81.0	88	76	77.0	86	77.4	85	SE	4	SE	6	.....	.....	5 ci. s., ne	7 ci. s., nw	
30	29.99	29.95	80.6	79.0	91	77	77.1	85	76.0	87	SE	4	S	5	.....	T.	2 cu., se	8 a. cu., se	
31	30.00	29.96	80.0	78.1	91	75	75.3	80	74.3	84	SE	6	NE	9	.....	.01	5 ci. cu., se	10 s. cu., ne	
Mn.	29.99	29.94	78.6	81.4	89.0	74.5	74.1	81.2	74.7	74.5	W	5.8	S	6.1	.71	6.46	5.6 ci. s., ne., nw	6.1 s. cu., se	

AUGUST, 1903.

1	30.02	30.04	80.5	78.1	88	74	77.0	85	73.0	79	E	8	N	3	.....	0.14	5 ci. cu., n	7 ci. s., sw	
2	30.13	30.13	80.0	83.0	90	76	76.8	86	77.0	76	NE	5	E	8	.....	.26	7 ci., n	7 s. cu., e	
3	30.13	30.07	77.2	76.0	87	74	75.2	91	73.0	87	NE	9	S	6	0.15	.08	9 s., ne	8 s. cu., s	
4	30.07	29.98	78.0	80.0	92	74	74.3	84	73.5	74	SW	4	E	2	.....	.....	8 ci. cu., ne. (?)	10 s. cu., e. (?)	
5	29.98	29.96	78.0	78.8	89	76	74.0	83	72.2	73	0	0	NW	5	.....	.41	7 ci. cu., ne. (?)	9 a. s., w	
6	30.04	29.98	77.2	85.8	91	76	74.0	86	75.7	63	W	4	W	6	.....	T.	10 s. cu., w	3 ci. s., sw	
7	30.03	29.93	77.2	82.0	90	75	72.7	81	74.4	70	W	10	S	4	.....	.....	8 a. cu., w	7 a. s., e. (?)	
8	29.94	29.85	78.8	81.1	92	76	75.0	84	70.5	59	W	8	SW	5	.....	T.	8 s. cu., w	6 a. cu., se	
9	29.92	29.88	78.3	84.4	90	76	75.3	87	76.0	68	W	4	SW	7	.....	.....	1 cu., w	2 cu., sw	
10	29.97	29.95	80.0	79.0	89	73	76.0	83	76.0	87	SW	1	S	7	.....	.63	8 ci. s., sw	7 s. cu., s	
11	30.02	29.96	79.3	78.4	89	74	76.4	87	74.8	85	SW	3	S	7	.....	.14	3 ci., sw. (?)	8 a. cu., se	
12	29.97	29.89	79.0	82.0	92	76	75.2	84	74.3	70	S	2	S	8	.....	.....	1 ci. cu., nw	7 cu., n	
13	29.92	29.86	78.8	82.0	90	76	76.0	88	76.3	77	NE	6	SE	3	.01	.12	4 ci. cu., w	6 a. cu., sw	
14	29.92	29.91	81.3	82.2	91	78	76.7	81	75.1	72	NE	6	NE	4	.....	.02	8 ci. s., w. (?)	5 a. cu., sw	
15	29.95	29.91	81.6	86.5	92	78	77.7	84	78.6	70	NE	1	S	6	.....	T.	4 cu., ne	6 a. cu., n	
16	29.96	29.87	80.5	81.3	92	78	77.0	85	76.2	79	NW	5	SW	5	.....	T.	10 s. cu., nw	9 n. s., sw	
17	29.87	29.81	79.5	86.0	93	77	77.3	90	77.0	66	W	3	SW	5	.03	.....	10 ci. s., w	8 a. cu., nw	
18	29.79	29.71	80.5	83.1	92	77	76.3	82	77.0	76	NW	7	N	3	.....	.....	9 ci. s., w	9 s. cu., n	
19	29.72	29.68	77.9	81.0	88	77	75.6	90	76.3	81	W	5	SW	5	.....	.01	10 ci. cu., w	9 s. cu., sw	
20	29.75	29.79	77.5	81.7	85	75	75.0	89	74.2	70	NE	6	NE	5	.02	.03	10 s. cu., ne	6 ci. s., sw	
21	29.88	29.87	78.0	79.0	89	76	74.0	83	75.8	86	NE	8	SE	4	.....	T.	3 ci. cu., sw	4 ci. s., sw	
22	29.96	29.93	79.3	80.1	91	75	76.3	87	77.3	88	S	2	S	2	.....	2.83	4 ci. s., s	4 ci. s., sw	
23	29.95	29.93	79.9	80.0	91	77	76.3	85	74.5	77	NE	6	SW	8	.....	.....	3 cu., ne	5 s. cu., se	
24	29.97	29.98	80.5	80.0	91	76	78.0	89	76.0	83	SE	4	NE	9	.....	.31	8 a. cu., se	3 s. cu., se	
25	30.04	30.02	81.5	82.2	91	76	78.5	88	76.0	75	SE	2	S	2	.....	1.63	3 cu., se	5 ci. s., sw	
26	30.06	29.96	79.4	86.3	92	77	77.2	90	75.8	62	S	1	S	5	.....	.....	8 s. cu., s	1 ci. s., sw	
27	30.00	29.93	79.3	85.5	93	77	76.6	88	78.0	71	W	2	SW	7	.....	.....	1 s. cu., w	1 ci. s., se	
28	30.00	29.93	79.5	84.4	92	77	76.0	85	77.8	74	W	5	SW	6	.....	.....	1 s. cu., w	2 ci. s., s	
29	29.99	29.90	79.0	80.5	94	77	76.7	90	72.2	67	W	6	NE	5	.....	.02	2 s. cu., w	9 s. cu., ne	
30	29.91	29.85	79.3	75.2	92	69	77.0	90	71.0	81	W	8	SW	3	.....	1.24	8 a. cu., nw	6 a. cu., sw	
31	29.91	29.88	74.3	79.6	83	73	68.8	76	68.2	55	N	8	N	8	.....	T.	4 ci. cu., n	10 a. s., nw. (?)	
Mn.	29.96	29.91	79.1	81.5	90.4	75.7	75.8	85.8	75.0	74.2	W	4.6	S (SW)	5.3	.21	7.27	5.8 ci. cu., s. cu., w.	6.1 ci. s., sw	

NEW ORLEANS, LA.

[φ=29° 58′ N; λ=90° 4′ W; barometer above sea, 51 feet; gravity correction applied −.04.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.95	29.92	71.1	78.8	82	69	63.1	64	65.8	50	NE	9	N	7	....	.....	0	2 s. cu., nw	
2	30.01	29.97	71.0	79.3	83	69	64.8	71	65.6	48	N	6	NW	4	....	.....	0	Few s. cu., 0 (?)	
3	30.01	29.95	73.5	81.5	87	71	68.0	76	66.8	46	NW	3	SE	5	....	.....	2 ci. cu., n. (?)	Few ci. s., 0 (?)	
4	30.01	29.97	74.7	81.8	87	72	68.0	71	68.1	49	W	4	NE	6	....	.....	0	3 s. cu., se	
5	30.01	29.92	75.0	80.0	88	72	69.0	74	70.2	62	W	2	SE	7	....	.....	Lt. smoke, w.	0	
6	29.99	29.91	74.0	83.0	90	71	69.3	79	69.1	49	NW	4	S	3	....	.....	0	Few ci. s., 0 (?)	
7	29.97	29.92	76.0	81.0	91	73	71.0	78	70.3	59	W	4	SE	8	....	.....	0	Few ci. s., 0 (?)	
8	30.00	29.98	78.0	81.1	89	75	74.8	86	75.8	78	NE	7	E	8	....	0.09	3 s. cu., ne	3 ci. s., nw	
9	30.02	29.97	79.7	81.0	89	76	75.3	81	74.5	74	NE	4	SE	9	....	.88	Few cu., ne	2 s. cu., e	☐
10	29.95	29.89	78.0	79.0	87	74	74.7	86	75.0	83	NE	10	NE	8	....	.27	3 s. cu., ne	7 a. cu., ne	
11	29.93	29.91	78.2	76.2	86	73	75.0	86	74.2	91	SE	10	SE	9	0.01	.79	8 s. cu., se	10 s. cu., se	
12	29.95	29.95	77.3	77.4	87	73	74.6	88	75.0	89	SE	10	SE	4	....	1.28	4 a. cu., se	7 s. cu., se	
13	29.95	29.84	75.7	84.6	91	74	72.8	87	75.0	64	N	6	W	7	....	.....	4 a. cu., n	7 ci. s., w	
14	29.90	29.84	75.8	84.9	91	74	74.5	94	76.0	66	W	7	W	5	....	.....	5 ci., nw. (?)	4 ci. s., w	
15	29.95	29.92	77.9	85.4	92	77	76.0	91	77.6	70	W	7	W	7	....	.....	Few cu., w	3 ci., sw	
16	29.96	29.94	77.2	83.0	92	76	76.0	95	76.8	75	W	6	W	6	....	.....	2 ci. s., w. (?)	4 a. s., w. (?)	☐
17	30.06	30.10	71.3	70.4	76	66	68.2	86	56.1	39	NW	19	N	12	T.	.....	10 s. cu., nw	3 ci. s., sw	
18	30.19	30.10	59.7	69.5	74	58	51.0	54	55.6	40	NE	17	N	10	....	.....	0	Few ci. s., 0 (?)	
19	30.14	30.07	61.0	72.5	77	59	52.8	57	60.1	48	NE	12	NE	3	....	.....	0	0	
20	30.10	30.05	64.1	76.5	82	62	59.4	76	67.1	61	NE	11	NE	5	....	.....	Few ci., n. (?)	0	
21	30.12	30.07	65.9	75.0	80	65	61.2	77	63.0	51	NE	10	NE	4	....	.....	6 a. s., w	0	
22	30.12	30.02	68.5	77.0	82	65	59.7	59	62.6	43	NE	8	NW	4	....	.....	3 ci., nw	Few ci. s., nw	
23	30.03	29.93	68.0	79.1	83	66	62.4	73	63.4	41	N	6	W	5	....	.....	Lt. smoke, n	8 ci. s., w. (?)	
24	29.96	29.92	69.5	79.5	86	69	61.5	64	64.5	44	N	7	W	4	....	.....	0	0	
25	29.97	29.92	70.9	80.0	86	69	63.0	64	68.1	54	N	6	S	2	....	.....	0	3 a. s., s	
26	30.02	29.98	69.6	77.2	86	68	68.8	96	68.5	64	S	1	S	10	....	.....	7 ci. s., w	Few ci. s., sw	≡ra.
27	30.06	30.08	73.1	76.4	85	70	68.7	80	70.1	73	SE	5	SE	7	....	.....	4 ci., nw	Few ci. s., se. (?)	
28	30.09	30.06	72.0	75.1	87	71	70.5	93	69.2	74	NW	4	SE	10	....	.....	7 a. s., nw	1 a. s., se. (?)	≡ra.
29	30.09	30.06	72.0	77.8	88	70	70.6	93	71.4	73	NE	8	SE	7	....	.....	6 a. s., sw	5 ci. s., sw	≡ra.
30	30.10	30.09	76.1	78.1	86	74	73.0	86	72.0	75	E	10	E	5	....	T.	9 ci. s., sw	6 ci. s., se	
Mn.	30.02	29.97	72.5	78.7	85.7	70.0	67.9	78.8	68.9	61.1	NE	7.4	SE	6.4	.01	3.31	2.8 s. cu., w., nw	2.6 ci. s., se	

OCTOBER, 1903.

1	30.10	30.11	77.0	77.8	87	74	74.4	89	74.7	87	E	10	E	7	....	0.31	2 ci. s., w. (?)	5 s. cu., e	
2	30.14	30.06	76.0	77.1	86	73	72.7	85	73.0	83	E	3	SE	5	T.	.....	2 s. cu., e	0	
3	30.07	30.03	73.0	77.0	87	72	71.0	91	72.6	81	NE	6	SE	8	....	.....	0	Few ci. s., 0 (?)	
4	30.05	30.00	73.2	78.4	88	70	71.5	92	72.0	73	NE	2	S	3	....	.....	2 ci., n. (?)	4 ci. s., s. (?)	≡ra.
5	30.03	29.96	75.0	76.4	82	72	72.3	88	72.8	84	E	4	SE	8	....	.14	10 a. s., w	9 ci. s., se	≡ra.
6	29.93	29.83	73.4	76.3	86	71	71.5	91	72.0	81	SE	5	S	9	....	T.	6 ci. cu., se	5 ci. s., s	
7	29.87	29.87	74.5	79.2	89	72	72.0	89	74.0	78	S	9	SW	8	....	.....	6 a. cu., w	Few ci. s., nw	
8	30.05	30.02	64.0	73.4	78	62	61.7	88	64.4	25	NE	8	N	12	0.06	.....	10 s. cu., w	0	
9	30.10	29.97	63.0	71.5	75	61	51.5	44	56.0	36	N	10	N	11	....	.....	3 ci., w. (?)	0	
10	29.96	29.82	59.7	72.1	78	59	52.2	60	57.8	41	N	12	N	10	....	.....	4 ci., nw	0	
11	29.87	29.85	57.3	69.1	75	57	50.2	60	59.9	58	NE	8	N	3	....	.....	0	0	
12	29.93	29.94	61.5	73.4	83	60	61.3	99	68.5	78	NE	7	SE	5	....	.....	7 ci., ne	7 a. cu., se	≡ra.
13	30.00	29.97	69.0	76.0	86	68	66.0	85	69.0	70	W	2	SW	6	....	.....	7 s. cu., sw	4 s. cu., sw. (?)	≡ra.
14	29.98	29.89	68.8	73.0	81	68	65.2	83	68.1	78	N	12	S	9	....	.....	5 s., w	5 ci. s., se. (?)	
15	29.89	29.84	70.0	73.0	82	68	69.2	96	70.7	89	NE	8	SE	9	....	.....	10 s., ne	9 s. cu., se	≡ra.
16	29.85	29.76	68.0	70.0	75	66	66.3	91	68.2	91	NE	5	NE	8	.11	.16	10 n., ne	10 s. cu., ne	
17	29.82	29.96	68.8	71.1	75	66	67.1	92	60.0	52	NW	12	NW	17	T.	T.	10 s. cu., nw	0	
18	30.16	30.12	53.9	62.0	66	54	46.2	55	50.3	42	NE	15	N	8	....	.....	3 ci. s., w	0	
19	30.14	30.06	54.0	63.0	68	52	46.9	58	55.0	60	NE	10	E	2	....	.....	7 ci., w	0	
20	30.08	30.04	57.0	68.1	74	54	54.9	87	56.6	48	NW	9	NE	3	....	.....	2 a. s., w	6 ci. s., ne. (?)	≡ra.
21	30.05	30.01	62.3	69.4	76	59	58.0	77	61.1	62	N	7	N	3	....	.....	8 a. s., sw	5 s. cu., n. (?)	≡ra.
22	30.06	30.01	64.0	71.0	78	62	59.2	75	64.1	68	NE	6	SE	6	....	.....	6 a. cu., sw	2 s. cu., se. (?)	Lt. smoke, a.
23	29.99	30.03	63.9	67.0	76	59	60.0	80	52.0	33	NW	9	N	20	....	.....	4 a. cu., sw	0	≡ra.
24	30.19	30.16	51.9	59.8	63	51	41.6	88	46.0	31	NE	17	N	12	....	.....	0	0	
25	30.24	30.21	50.0	61.5	65	49	40.8	42	49.4	40	NE	12	NW	5	....	.....	0	0	
26	30.29	30.22	52.6	67.6	74	51	49.9	83	52.8	34	NW	1	SW	3	....	.....	Lt. fog, 0 (?)	Few ci. s., 0 (?)	☐
27	30.26	30.18	55.0	65.1	76	53	52.2	83	59.4	71	NW	3	SE	7	....	.....	4 ci., w	0	≡ra.
28	30.18	30.10	56.1	66.3	75	55	52.1	76	62.2	80	NE	8	E	6	....	.....	8 a. s., ne	10 s. cu., sw	Lt. smoke, a.
29	30.08	30.00	64.9	63.8	69	63	63.0	90	61.6	89	SE	3	NE	10	.01	.01	10 n., se	2 ci. s., ne	
30	30.01	29.98	62.5	69.9	77	62	62.5	100	65.7	80	NE	6	E	2	....	T.	10 s., ne	0	≡ra.
31	29.96	29.96	67.1	69.4	78	64	67.1	100	68.3	95	NE	12	E	6	....	.01	10 s., ne	8 s. cu., e. (?)	≡ra.
Mn.	30.04	30.00	64.1	70.6	77.7	62.2	60.3	79.6	62.8	65.1	NE	7.8	N	7.4	.18	.63	5.5 ci., w	2.9 ci. s., se	

NEW ORLEANS, LA.

[φ=29° 58′ N; λ=90° 4′ W; barometer above sea, 51 feet; gravity correction applied −.04.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.99	29.98	66.8	72.2	82	65	66.8	100	66.2	73	E	2	SE	6			D. fog, ne	0	
2	30.03	30.02	63.3	71.7	76	62	63.3	100	66.9	78	W	1	N	5			D. fog, se	10 s. cu., nw	
3	30.04	30.01	66.0	70.8	79	65	62.3	81	66.3	79	NE	8	SE	8			8 a. cu., sw	2 a. cu., w	
4	30.01	29.93	62.5	71.6	76	61	61.0	92	59.0	46	NW	7	N	4			0	4 a. cu., w	
5	29.91	29.83	59.6	63.9	74	59	57.1	86	57.0	65	SW	6	N	14	0.01		6 ci. cu., sw	9 s. cu., n	
6	29.98	30.03	57.7	62.1	65	55	55.5	87	56.7	72	NW	9	N	4			10 s. cu., nw	2 a. cu., n	
7	30.18	30.15	48.0	56.0	61	48	43.7	71	48.3	56	NE	12	NE	3			7 a. s., n	0	
8	30.16	30.14	49.2	60.0	66	49	47.2	86	55.0	73	NE	8	NE	2			2 a. s., ne. (?)	0	
9	30.13	30.04	54.0	64.0	70	52	52.6	92	62.1	90	NE	8	SE	4			3 s. cu., ne	0	
10	30.03	29.89	59.3	66.7	77	57	59.3	100	62.0	77	N	1	S	7			10 s., sc. (?)	0	≡a.
11	29.88	29.82	67.1	72.5	81	62	66.6	97	68.5	82	S	4	SW	8			10 s., s. (?)	8 s. cu., sw	≡a.
12	29.89	29.87	62.0	72.6	83	62	59.8	88	67.1	75	NE	7	SW	5			10 s. cu., sw	0	
13	29.96	29.96	65.9	74.0	83	66	65.9	100	69.0	78	S	4	S	6			10 s., s.	1 ci. s., s. (?)	≡a.
14	30.08	30.08	67.0	72.1	80	65	66.0	95	69.0	86	SW	4	SE	7			10 s. cu., sw	0	≡a.
15	30.08	30.01	63.8	69.8	81	61	63.8	100	66.9	86	E	4	SE	9			D. fog, e	0	
16	29.95	29.88	67.0	73.1	82	65	66.5	97	68.8	81	SE	12	S	8		T.	7 a. cu., se	1 s. cu., s. (?)	
17	29.91	30.10	67.7	52.3	81	47	67.7	100	48.8	78	SW	4	N	19		0.11	D. fog, sw	10 s. cu., n	
18	30.38	30.40	40.0	42.5	49	36	35.5	64	33.6	35	N	17	N	18			Few a. cu., n	0	
19	30.49	30.38	29.8	43.3	47	29	25.7	55	34.8	38	NE	9	NE	11			0	0	
20	30.39	30.30	37.0	49.9	53	35	31.5	53	41.1	49	NE	11	NE	10			10 a. cu., w	1 a. s., ne. (?)	
21	30.30	30.24	40.1	51.8	59	39	35.8	66	46.2	65	NE	9	NE	3			6 ci., nw	0	Lt. smoke, a.
22	30.22	30.14	40.5	50.3	59	40	40.0	96	47.0	78	NE	7	NE	5			Lt. fog, 0 (?)	0	
23	30.10	30.03	43.5	61.4	66	41	43.5	100	50.8	46	NE	5	N	3			D. fog, ne	2 s. cu., n. (?)	Lt. smoke, p.
24	30.07	29.98	49.0	61.7	73	48	49.0	100	53.5	57	NE	8	SE	9			3 s., ne. (?)	Lt. smoke, 0 (?)	≡a
25	29.92	29.98	62.1	54.3	71	46	62.1	100	49.1	69	S	5	N	15	.06	T.	10 n., 0	10 s. cu., ne	≡a, Lt. smk., p.
26	30.18	30.24	41.0	44.6	50	39	37.0	69	37.6	50	N	16	N	17			8 s. cu., n	Lt. smoke, 0 (?)	
27	30.33	30.18	32.0	45.0	47	32	28.0	59	38.0	51	NE	14	NW	1			0	Lt. smoke, 0 (?)	
28	30.03	29.77	38.2	61.8	70	36	36.4	85	56.2	71	S	6	SW	14			2 ci. s., 0 (?)	0	—Lt. smoke a.
29	29.90	29.98	49.8	54.3	59	48	45.1	69	45.5	49	N	10	NW	6			Lt. smoke, 0 (?)	Lt. smoke, 0 (?)	
30	30.13	30.08	44.0	51.0	54	42	39.4	66	42.0	45	N	5	NW	5			Lt. smoke, 0 (?)	Lt. smoke, 0 (?)	—
Mn	30.09	30.05	53.1	60.5	68.5	50.4	51.1	85.1	54.4	65.9	NE	7.4	N	7.9	.07	.11	4.4 s. cu., ne., sw.	2.0 s. cu., n	

DECEMBER, 1903.

1	30.05	29.92	42.0	41.0	49	39	40.5	88	40.4	95	NE	10	NE	7		0.29	10 a. s., sw	10 s. cu., ne	Lt. smoke.
2	30.00	30.02	40.7	46.2	48	39	40.0	94	41.8	69	N	11	W	4	T.		10 s., n	0	Lt. smoke, a.
3	30.06	30.07	39.6	49.3	56	39	38.2	88	47.2	86	NE	9	SE	6			Lt. smoke, 0 (?)	0	—
4	30.06	30.06	47.2	57.7	68	45	46.2	93	54.0	79	SE	8	E	8		T.	0	10 n., c. (?)	
5	30.19	30.28	47.5	45.1	55	43	47.5	100	42.2	79	N	12	N	15	0.25	.17	10 n., n	9 s. cu., n	
6	30.41	30.31	38.8	46.7	50	39	33.3	55	38.0	42	N	9	N	8			8 a. cu., w	0	
7	30.29	30.12	36.6	44.9	53	36	34.0	77	39.2	59	E	2	SE	8			6 a. s., w	0	—
8	30.03	29.74	43.9	53.8	59	41	41.9	85	53.6	99	E	5	S	10		.11	10 a. cu., w	10 s. cu., s	
9	29.92	29.90	44.3	48.3	56	43	41.5	79	42.8	63	NW	11	SW	12	.01		7 s. cu., nw	0	
10	30.06	30.13	43.7	51.1	56	42	38.3	60	39.6	81	W	6	NW	4			0	Lt. smoke, 0 (?)	—
11	30.20	30.12	46.8	53.0	68	43	40.5	57	47.8	68	W	6	SE	10			8 ci. s., w	0	—
12	29.94	29.88	59.9	61.7	70	54	56.0	79	61.6	99	SE	21	SW	5		.90	10 s. cu., se	10 s. cu., sw	
13	30.20	30.23	44.3	49.8	62	43	42.0	83	44.5	65	N	15	NE	4	T.		10 s. cu., n	0	
14	30.27	30.25	40.0	52.2	57	39	37.0	75	47.8	73	NE	11	N	7			10 ci. s., w	10 s. cu., s	—
15	30.33	30.26	45.3	53.3	58	45	41.0	69	44.0	46	N	12	N	9			10 a. cu., w	8 s. cu., n. (?)	
16	30.24	30.12	41.0	56.0	62	40	35.7	59	43.1	30	NE	8	SE	7			3 a. cu., w	Lt. smoke, 0 (?)	—
17	30.17	30.15	46.7	53.0	61	45	44.3	83	44.5	50	NW	6	SE	7			6 ci., nw	0	Lt. smoke a.
18	30.19	30.13	43.5	54.0	65	43	43.0	96	52.1	89	NE	4	SE	4			8 ci. s., nw	4 a. s., ne. (?)	
19	30.09	29.92	59.1	67.3	72	59	55.7	81	63.2	80	SE	15	S	12		T.	10 a. cu., w	10 n., s. (?)	
20	30.16	30.16	48.4	50.7	67	46	45.0	77	43.8	56	NW	12	N	4	.19		3 ci., w	0	
21	30.18	30.09	42.0	57.0	63	40	37.8	67	49.6	59	NE	3	S	2			9 ci. s., w. (?)	1 s. cu., s. (?)	—
22	30.20	30.20	49.6	55.1	63	48	48.1	90	47.8	58	N	3	SE	8			5 ci., w. (?)	0	≡a
23	30.21	30.09	50.0	55.3	69	45	48.0	87	53.8	91	NE	4	E	4			2 a. cu., w. (?)	4 s. cu., e. (?)	
24	30.04	29.90	56.3	64.3	76	54	55.2	93	62.8	92	E	4	SE	7			9 s. cu., se	2 ci. s., sw	
25	29.80	29.90	68.5	58.3	69	50	68.0	97	51.4	88	SW	9	N	18	T.	1.79	10 s., sw	10 s. cu., n	
26	30.09	30.27	46.0	41.8	50	37	41.1	66	34.2	43	N	17	N	9			1 a. cu., w. (?)	0	
27	30.29	30.18	33.4	49.0	55	33	29.1	58	40.1	43	NE	7	N	4			0	Lt. smoke, 0 (?)	—
28	30.24	30.18	42.1	51.0	64	42	41.1	92	47.8	80	SW	5	SE	7			Lt. fog, 0 (?)	0	—
29	30.23	30.24	47.6	58.4	63	46	47.1	96	49.3	51	W	6	N	7			Lt. fog, w	0	
30	30.36	30.32	43.6	53.8	62	43	38.0	59	43.4	40	NE	10	E	5			6 ci., nw	3 ci. s., e. (?)	—
31	30.29	30.17	45.6	54.3	63	43	44.1	89	47.1	58	NE	4	SE	9			3 a. s., 0 (?)	2 ci. s., se. (?)	—Lt. sm. p, ≡a.
Mn	30.15	30.11	45.9	52.5	60.9	43.4	43.2	79.7	47.0	66.5	NE	8.5	SE	7.8	.45	3.26	5.9 a. cu., w	3.3 s. cu., s	

ST. PAUL, MINN.

[φ=44° 58′ N; λ=93° 3′ W; barometer above sea, 837 feet; gravity correction applied 0.]

JANUARY, 1908.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.10	29.19	19.5	27.0	33	18	19.3	97	24.5	70	S	1	SE	3	.....	.....	Lt. fog, 0	0	
2	29.12	29.02	17.0	21.0	22	16	16.4	90	19.0	71	SE	2	NW	13	.....	T.	0	10 s., nw	*
3	28.95	28.92	21.0	19.5	22	13	20.0	86	18.3	82	NW	9	NW	3	.....	T.	10 s., nw	0	*
4	28.87	28.98	9.5	20.5	21	9	9.1	91	17.5	56	NW	2	NW	6	.....	0.02	10 s., nw	2 a. s., nw	*
5	29.03	29.06	7.6	23.0	26	5	7.2	91	21.0	73	W	1	NW	8	T.	.01	10 n., w	2 s., nw	*
6	28.81	28.14	11.0	35.0	38	11	10.4	87	34.5	95	SE	9	W	13	.....	.01	10 s., se	10 n., w	*
7	28.59	29.03	20.0	14.5	28	8	18.8	82	13.3	78	NW	20	NW	14	0.10	.01	3 s., nw	0	*
8	29.10	28.92	5.0	14.5	17	4	4.6	89	13.3	78	W	9	NW	7	.....	.....	0	0	
9	29.10	29.19	− 7.3	0.4	8	− 8	− 7.7	82	− 0.4	74	NW	13	NW	10	.....	.....	0	0	
10	29.12	28.84	− 3.2	15.0	16	− 4	− 3.6	85	14.2	86	SE	14	N	3	.....	.03	10 s., se	10 n., n	*
11	28.98	29.01	−11.2	− 1.3	4	−13	−11.4	90	− 1.7	86	NW	10	NW	12	.02	T.	0	10 n., nw	*
12	29.24	29.32	− 4.5	4.0	7	− 2	− 4.7	92	− 5.0	61	NW	12	SW	8	T.	.....	10 s., nw	5 ci. s., w	
13	29.17	29.28	8.0	14.0	18	− 2	7.2	81	13.0	82	SE	5	N	3	.....	T.	10 s., se	10 s., n	*
14	29.35	29.06	8.6	24.5	27	7	8.0	86	23.0	81	NW	4	S	8	T.	.....	9 s., nw	2 s., s	*
15	29.04	29.00	21.5	31.5	32	21	20.5	86	30.0	84	SW	5	SW	3	.....	.....	0	2 a. s., sw	
16	28.93	28.93	18.0	25.5	30	16	17.8	97	24.0	82	NW	3	SW	7	.....	.....	D. fog, 0	0	
17	29.16	29.28	18.0	15.5	30	10	17.0	84	14.1	76	NW	15	W	6	.....	.....	0	0	
18	29.46	29.43	2.0	7.0	10	1	1.4	82	6.2	80	NW	5	SE	5	.....	.....	0	10 s., se	
19	29.17	28.87	12.8	27.5	30	7	12.0	85	26.0	82	SE	8	S	11	.01	T.	10 n., se	10 s., s	*
20	28.93	29.27	18.0	6.4	31	1	17.0	84	5.4	75	W	14	NW	10	.....	.....	10 s., w	0	
21	29.20	28.83	− 8.0	14.0	16	− 8	− 8.4	81	12.4	71	SE	3	SE	12	.....	.....	0	10 s., se	
22	28.93	29.23	14.0	8.5	23	4	13.0	82	7.5	78	NW	15	NW	8	.02	.....	4 s., nw	0	*
23	29.43	29.28	− 4.2	15.4	16	− 4	− 4.5	88	14.2	79	NW	1	SE	6	.....	.....	0	10 s., se	
24	29.12	28.99	17.0	26.0	27	15	16.0	84	24.5	82	SE	10	SE	12	.....	.....	10 s., se	10 s., se	
25	28.92	28.76	28.0	30.0	31	26	27.0	88	29.0	89	SE	12	SE	17	.....	.....	10 s., se	10 s., se	
26	28.67	28.98	36.0	31.0	38	26	34.8	89	29.0	79	SE	5	NW	13	.....	.....	10 s., se	2 s., nw	
27	29.12	29.02	16.0	24.6	27	16	15.2	86	23.9	81	NW	2	NE	6	.....	.....	3 s., nw	10 s., ne	
28	28.95	28.70	21.0	33.5	34	21	20.0	86	33.0	95	NE	5	NE	2	.....	T.	10 s., 0	10 s., ne	≡p. *
29	28.68	28.92	20.8	5.0	30	− 1	20.2	91	3.8	69	NW	17	NW	15	.03	.01	10 n., nw	2 ci. s., nw	*
30	29.18	29.18	− 9.2	1.8	4	− 9	− 9.6	80	1.0	76	W	10	SE	5	.....	.....	0	0	
31	28.87	28.65	10.0	33.5	38	2	9.0	79	31.0	76	SE	5	SE	6	.....	.....	0	0	
Mn	29.04	29.01	10.7	18.1	23.4	6.5	10.1	86.5	16.7	78.3	NW	7.6	NW	8.2	.18	.09	5.1 s., nw	4.7 s., nw	

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1	28.69	28.85	18.8	25.2	28	15	18.6	97	23.7	81	NW	8	W	5	.....	.....	10 s., nw (?)	10 s., w	≡p a.
2	28.94	29.23	14.0	8.6	24	5	13.5	90	8.0	86	W	14	W	6	0.08	.....	10 n., w	0	*
3	29.25	28.92	− 1.2	14.5	15	− 1	− 1.8	79	13.7	86	N	3	NE	12	.....	T.	10 s., n	10 n., ne	*
4	28.86	29.12	7.5	17.5	21	6	6.5	76	16.5	84	NW	22	NW	6	T.	.....	2 s., nw	2 a. s., nw	
5	29.24	29.30	7.0	18.0	22	7	6.4	85	17.0	84	SW	4	NW	6	.....	.....	0	0	
6	29.46	29.44	8.2	21.0	23	8	7.8	91	19.8	83	W	2	SW	1	.....	.....	10 s., 0	0	
7	29.39	29.15	7.0	22.5	26	7	6.6	90	21.0	80	E	2	SE	3	.....	0.01	8 s., e	0	*
8	29.00	29.03	17.2	24.5	26	15	17.0	97	23.0	81	SW	2	SW	4	.01	T.	10 n., sw	10 s., sw	*
9	29.07	28.98	10.0	25.5	30	10	9.4	87	23.5	75	SE	4	SE	3	.....	.....	0	2 a. s., se	
10	28.75	28.75	27.2	36.0	39	20	25.7	82	33.5	78	S	9	S	3	.....	.....	0	4 a. s., s	
11	28.66	28.78	22.0	25.0	31	21	22.0	100	24.0	87	SE	2	W	6	.....	.....	D. fog, 0	10 s., w	
12	29.01	29.24	17.0	12.0	26	7	15.8	80	11.0	80	NW	16	W	11	T.	T.	10 s., nw	0	*
13	29.42	29.50	− 3.2	7.5	8	− 3	− 3.6	85	6.5	76	NW	7	NW	3	.....	.....	0	0	
14	29.51	29.52	− 2.0	8.6	16	− 2	− 2.2	93	8.0	86	SE	4	NW	8	.....	.....	1 a. s., 0	1 s., nw	
15	29.57	29.44	−11.6	− 8.2	1	−14	−12.0	77	− 8.6	81	NW	10	NW	12	.....	.....	3 a. s., nw	0	
16	29.39	29.21	−23.8	−12.0	−12	−24	−24.0	79	−12.4	77	NW	10	NW	12	.....	.....	0	0	
17	29.04	28.88	−19.2	− 5.0	0	−19	−19.4	88	− 5.4	83	SW	5	NW	20	.....	.....	0	0	
18	29.34	29.55	−18.0	5.0	6	−18	−18.3	76	4.2	79	NW	14	W	8	.....	.....	0	0	
19	29.39	29.40	− 2.0	8.0	13	− 6	− 2.2	93	7.0	77	SE	5	NW	12	.....	.01	9 s., se	0	*
20	29.32	29.11	− 4.8	25.0	28	− 5	− 5.2	88	24.0	87	SE	6	W	14	.....	T.	10 s., 0	10 s., w	*
21	29.45	29.50	2.0	20.0	21	2	1.4	82	18.5	78	NW	12	S	4	.....	.....	0	3 s., s	
22	29.19	29.06	19.0	38.2	40	14	18.0	85	34.7	71	S	5	W	9	.....	.....	1 s., 0	3 a. s., nw	*
23	29.47	29.61	19.2	25.0	31	18	18.3	86	23.5	81	NW	10	W	6	.01	.....	0	0	
24	29.56	29.48	11.0	30.0	34	11	10.4	86	28.0	78	SW	4	S	4	.....	.....	0	2 ci. s., w	
25	29.45	29.37	18.8	35.5	41	19	18.4	94	33.5	82	S	3	SE	4	.....	.....	0	3 ci. s., w	
26	29.39	29.20	27.0	36.7	42	27	26.0	88	33.2	70	SE	4	SE	3	.....	.....	0	8 ci. s., w	
27	28.67	28.56	34.4	35.0	38	27	32.9	95	34.5	95	E	7	SE	4	.42	.02	10 n., e	10 n., se	
28	28.80	29.24	13.0	12.0	27	10	12.0	81	11.0	80	NW	30	NW	14	.06	.....	9 s., nw	0	*
Mn	29.19	29.19	7.7	18.3	23.0	5.6	7.1	86.4	17.0	80.9	NW	8.0	NW	7.2	.58	.04	4.0 s., nw	3.1 s., w	

ST. PAUL, MINN.

[$\varphi = 44° 58'$ N; $\lambda = 93° 3'$ W; barometer above sea, 837 feet; gravity correction applied, 0.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.15	29.06	13.0	31.5	33	10	12.0	81	28.0	64	S	6	W	8	.....	.....	1 s., s. (?)	3 s., w	
2	29.24	29.23	24.6	34.0	35	25	23.6	87	31.0	72	SE	2	SE	7	.....	.....	4 s. cu., se	10 s., se	
3	29.20	29.36	34.2	35.0	37	32	32.8	87	32.0	73	SW	5	NW	6	.....	.....	10 s., 0	7 a. s., nw	
4	29.44	29.33	24.0	30.0	34	24	23.0	87	28.0	78	NW	6	NW	6	.....	.....	2 s., nw	4 ci. s., nw	
5	29.34	29.30	19.2	29.5	32	19	18.0	82	27.0	72	NW	7	SE	4	.....	.....	1 s. cu., nw	8 ci. s., w	
6	29.12	28.91	32.0	37.0	38	28	31.2	92	36.5	95	SE	10	SE	5	T.	T.	10 n., se	10 n., se	
7	28.96	29.16	32.0	33.0	38	31	31.0	90	32.0	90	W	9	NW	10	T.	.....	0	9 s., nw	
8	29.35	29.31	27.0	40.0	43	26	26.2	90	36.0	68	SW	3	SE	8	.....	.....	0	1 a. s., 0	
9	29.25	29.19	32.0	40.0	40	32	31.0	90	38.5	86	SE	10	SE	4	.....	T.	1 a. s., sw	10 s., sw	
10	29.35	29.48	36.8	40.2	41	37	36.8	91	38.2	84	N	8	N	4	0.01	.....	10 s., n	10 s., n	
11	29.46	29.27	36.2	45.5	50	36	35.2	91	41.5	72	S	12	SE	10	.....	.....	10 s., s	2 s., se	
12	29.15	29.05	39.2	57.2	60	39	37.7	88	51.2	66	SE	6	SE	8	.....	.....	2 ci. s., sw	6 a. s., nw	
13	29.13	29.32	37.0	28.5	47	28	36.0	91	27.0	82	W	9	NW	12	T.	.....	10 s., w	10 s., nw	
14	29.46	29.42	26.0	28.0	29	26	25.0	88	27.0	88	N	7	NE	10	.....	.....	10 s., n	10 s., ne	
15	29.36	29.21	31.0	33.0	34	29	30.0	89	31.0	80	SE	6	SE	9	T.	.....	10 s., se	10 s., se	≡ea. ✱
16	29.14	29.11	36.5	35.5	37	34	36.0	95	34.0	86	S	2	NW	9	.01	0.30	D. fog, 0	10 s., nw	
17	29.15	29.06	34.2	40.0	41	34	32.7	86	39.5	96	NE	4	NE	4	.....	.64	10 s., ne	10 n., ne	◻◹
18	28.93	28.98	45.2	42.0	55	40	45.0	98	41.5	96	N	5	NW	8	.66	.22	10 n., n	10 s., nw	≡ep. ◻◹
19	28.89	29.04	38.5	37.0	41	32	36.5	100	36.0	91	NW	9	NW	10	.12	T.	10 n., nw	10 s., nw	
20	29.07	29.03	28.0	21.0	32	20	27.0	88	20.0	86	NW	10	W	14	T.	T.	10 s., nw	10 n., w	✱
21	28.92	28.86	19.2	38.0	38	19	18.0	82	35.5	79	S	4	NW	5	T.	.....	8 a. cu., nw	9 s., nw	✱
22	29.02	29.11	28.0	33.0	33	28	27.0	88	29.0	61	SW	8	NW	3	.02	.....	3 s., sw	9 s. cu., nw	
23	29.07	28.85	28.2	30.0	31	27	26.7	82	28.5	84	NW	12	NW	12	T.	.35	10 n., nw	10 s., nw	✱
24	28.90	29.13	27.3	35.5	37	25	25.3	76	31.5	64	NW	18	NW	12	.....	.....	10 s., nw	3 s., nw	
25	29.31	29.18	24.0	41.7	44	24	23.0	87	38.2	73	W	4	SE	12	.....	.....	0	0	
26	29.07	29.20	34.2	29.5	37	29	33.2	90	27.5	78	SE	1	NW	12	.....	T.	3 a. s., sw	10 s., nw	
27	29.37	29.35	22.0	33.8	34	22	19.5	65	30.8	72	N	6	NW	8	.....	.....	1 a. s., nw	0	
28	29.55	29.54	21.3	35.0	35	21	19.8	78	33.0	82	NW	7	E	12	.....	.....	0	0	
29	29.46	29.20	30.0	40.5	43	26	28.0	78	38.0	80	SE	10	SE	12	.....	.....	0	9 a. s., nw	
30	29.03	28.93	34.2	54.5	56	33	32.7	86	47.5	60	SE	7	W	4	.....	.....	2 a. cu., nw	6 s. cu., w	
31	29.04	28.94	38.0	54.0	55	33	31.0	80	46.0	54	NW	4	SE	3	.....	.....	0	5 ci. s., nw	
Mn	29.19	29.16	29.9	36.9	40.0	28.0	28.8	86.5	34.2	77.9	{se / nw}	7.0	NW	7.9	.82	1.51	5.1 s., nw	7.1 s., nw	

APRIL, 1903.

1	28.71	28.59	46.0	64.5	66	43	44.2	87	54.5	52	SE	10	N	2	0.10	.....	1 s., se	3 s., n	
2	28.48	28.87	40.0	33.5	54	32	38.0	84	29.5	62	NW	20	NW	18	.05	.....	10 s., nw	10 s., nw	
3	29.02	29.09	24.2	36.5	40	24	22.0	72	32.0	62	NW	9	NW	12	.....	.....	2 a. s., sw	7 s., nw	
4	29.27	29.09	24.0	44.5	45	24	23.0	87	40.0	68	N	1	SE	10	.....	.....	0	10 ci. s., w	
5	28.93	28.81	43.0	51.4	56	42	39.0	70	45.2	62	SE	12	SE	12	.....	.....	8 a. cu., sw	10 s., se	
6	28.64	28.47	44.0	34.0	48	32	41.2	80	33.5	95	SE	12	W	17	.02	0.08	4 s., se	10 n., w	✱
7	28.77	28.81	31.0	50.5	54	31	29.0	79	48.0	84	SW	10	NW	3	.06	T.	0	6 s. cu., nw	
8	28.87	28.84	36.0	60.5	65	36	34.5	87	49.0	42	SE	7	NW	12	.....	.....	8 a. s., w	1 s. cu., nw	
9	29.18	29.12	40.6	58.0	61	41	37.1	73	50.0	57	NW	10	SE	4	.....	.....	0	1 ci. s., nw	
10	29.02	28.81	49.0	45.0	52	45	42.0	56	44.0	93	SE	10	E	12	.....	.27	10 s., se	10 n., e	
11	28.70	28.88	48.0	49.0	51	46	47.0	93	48.0	93	E	6	NE	5	.57	T.	10 s., e	10 n., ne	
12	28.97	29.00	43.5	43.5	50	41	41.0	82	40.6	74	NW	7	NW	12	.08	.....	10 s., nw	10 s., nw	
13	29.04	29.06	36.0	45.0	45	36	35.0	91	41.0	71	N	12	NE	10	.04	.03	10 n., n	10 s., ne	
14	29.07	29.06	34.2	50.0	50	34	31.1	71	39.0	33	NW	10	NE	10	.....	.....	1 a. s., 0	6 a. s., ne	
15	29.16	29.20	35.0	49.2	55	34	30.0	56	41.2	49	N	9	NE	9	.....	.....	7 a. s., nw	2 ci. s., w	
16	29.35	29.24	34.0	58.0	58	32	30.5	67	44.0	28	N	3	E	3	.....	.....	0	2 ci. s., nw	
17	29.25	29.01	38.0	57.5	59	38	36.0	87	48.5	52	SE	4	SE	7	.....	.....	1 a. s., 0	0	
18	28.91	28.79	45.0	52.0	56	45	42.0	79	49.0	81	SE	5	E	12	.....	.03	5 ci. s., w	10 s., sw	
19	28.82	28.98	50.0	49.2	53	49	46.0	74	47.7	90	E	6	N	6	.34	.07	10 n., e	10 n., n	
20	29.15	29.16	40.0	52.5	58	39	38.0	84	45.5	58	NW	6	N	8	.04	.....	0	10 s., n	
21	29.34	29.30	33.0	58.6	55	32	30.0	71	38.8	19	N	5	NE	5	.....	.....	0	3 ci. s., w	
22	29.33	29.18	34.2	58.5	60	34	32.0	80	44.0	26	0	0	N	2	.....	.....	0	Lt. smoke	≡ea.
23	29.14	28.90	43.0	47.5	61	43	38.0	63	46.0	90	SE	3	SE	16	.....	.27	7 a. s., w	10 n., se	
24	28.80	29.25	42.0	39.5	47	39	40.5	88	36.5	76	NE	10	N	12	.11	T.	10 s., ne	10 s., n	
25	29.45	29.30	32.0	54.0	56	30	30.0	79	45.0	48	NW	6	SW	2	.....	.....	0	2 ci. s., w	
26	29.22	29.02	42.0	61.0	63	40	38.0	70	49.0	40	SW	3	SE	9	.....	.....	2 a. s., w	0	
27	28.99	28.92	50.8	62.8	70	50	44.3	60	51.6	40	S	9	S	17	.....	T.	0	10 s., s	
28	28.95	29.17	55.0	46.0	58	43	53.0	88	42.0	72	NW	15	NW	10	.06	.01	10 n., nw	10 s., nw	
29	29.10	29.12	36.6	31.0	44	29	35.5	90	30.0	89	N	9	NW	10	.70	.49	10 n., n	10 n., nw	✱◻◹
30	29.22	29.28	26.0	41.0	41	26	24.0	75	35.0	54	NW	15	NW	10	.04	.....	8 s., nw	10 s., nw	
Mn	29.03	29.01	39.2	49.3	54.4	37.0	36.4	77.4	42.9	62.2	NW	8.1	NW	9.2	2.21	1.25	4.8 s., nw	6.8 s., nw	

ST. PAUL, MINN.

[$\varphi = 44° 58'$ N; $\lambda = 93° 3'$ W; barometer above sea, 837 feet; gravity correction applied, 0.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.31	29.06	35.0	51.5	52	35	33.5	86	43.5	52	SE	4	S	15	.....	.....	8 a. cu., nw...	10 s., s	—
2	29.04	29.17	37.8	47.5	50	38	36.3	87	37.5	36	NW	17	NE	5	0.10	.....	10 s., nw	2 s., ne.....	
3	29.20	29.00	38.2	55.0	60	37	35.0	74	47.5	57	S	4	NW	16	.....	T.	0.....	10 n., s.....	—° ⌐◪
4	29.02	28.97	44.0	62.5	63	43	42.0	85	48.5	34	SW	4	S	8	.09	.....	0.....	7 a. s., w.....	
5	29.00	29.14	52.0	58.2	63	50	49.0	81	48.2	47	NW	4	NW	8	.02	.....	2 a. s., w.....	2 ci. s., w.....	
6	29.27	29.26	44.8	63.5	65	44	41.3	75	48.5	30	NW	4	NE	5	.....	.....	3 a. s., w.....	0.....	
7	29.33	29.18	47.0	65.2	66	45	43.5	76	49.7	30	SE	3	SE	12	.....	.....	0.....	0.....	
8	29.17	28.99	46.5	66.5	70	45	41.5	66	57.0	56	SE	5	S	12	.....	T.	5 ci. s., w.....	10 n., s.....	
9	28.99	28.99	53.0	60.5	66	53	52.0	94	58.0	86	SE	10	NE	3	.40	0.12	9 s., se	10 s., sw.....	◪
10	29.06	29.07	53.5	49.5	55	47	51.5	88	48.0	90	NE	6	N	7	.12	.32	10 n., ne	10 n., n	
11	29.06	29.07	47.0	50.0	53	47	46.0	93	49.5	96	NE	10	N	9	.64	.40	10 n., ne	10 n., n	
12	29.17	29.31	44.2	47.5	52	43	43.2	93	46.5	93	NW	12	NE	8	.35	.05	10 n., nw	10 n., ne	
13	29.37	29.26	44.0	67.2	68	43	42.5	89	56.7	52	NE	6	S	5	T.	.....	3 s. cu., ne....	Few s., s.....	
14	29.24	29.10	52.0	70.5	72	50	50.0	88	60.5	56	E	3	SW	5	.....	.....	7 a. cu., sw....	2 s. cu., sw.....	
15	29.15	29.02	56.2	74.5	76	55	53.2	82	63.0	53	SE	4	SE	8	.....	.....	1 cu., se.....	Few cu., se	
16	29.05	28.95	61.0	78.5	81	59	55.0	68	65.0	48	SE	5	SE	8	.....	.....	0.....	0.....	
17	28.99	28.88	65.0	72.0	79	63	59.2	71	65.0	69	SE	10	S	12	.....	T.	0.....	5 s. cu., s.....	
18	28.89	28.76	65.2	72.0	72	65	62.2	86	66.0	73	SE	10	SE	12	.....	.....	1 s. cu., se.....	6 s. cu., se	
19	28.61	28.76	66.3	70.5	71	56	63.8	87	55.5	38	SE	13	SW	9	T.	.10	8 s., se.....	3 s. cu., sw.....	
20	28.92	28.91	58.0	73.0	80	56	53.0	72	61.0	59	SE	6	SE	10	.....	.....	1 ci. s., sw.....	6 ci. s., w	
21	29.00	28.93	62.0	73.0	76	59	57.0	74	65.0	65	E	6	SE	8	.....	.....	2 ci. s., sw.....	2 s. cu., se	
22	28.84	28.89	55.2	75.0	77	55	51.2	76	68.0	70	SE	17	E	10	.01	.....	9 s., w.....	4 s. cu., e	
23	28.80	28.96	63.0	70.0	72	60	61.0	90	56.0	40	SE	12	W	8	.64	.....	9 a. s., sw	Few cu., w	◪
24	29.09	28.99	60.0	70.2	75	57	55.0	73	62.2	64	SE	5	SE	9	.....	T.	0.....	10 s., se	
25	28.97	28.96	62.0	71.5	74	62	59.5	87	63.5	64	S	8	N	3	.63	.....	10 a. cu., w....	3 cu., n	◪
26	28.84	28.72	62.0	72.2	74	62	60.5	92	63.2	61	E	4	SE	4	1.05	.....	9 s., sw.....	10 s., se	◪
27	28.68	28.80	56.8	66.5	68	54	55.8	94	58.0	60	NW	12	NW	4	.22	.02	10 n., nw.....	2 s. cu., nw	
28	29.03	29.10	55.0	71.0	71	54	53.0	88	58.0	45	W	3	NE	3	.....	.....	0.....	3 a. cu., sw.....	
29	29.25	29.25	56.2	66.0	68	55	53.2	82	56.0	53	E	9	NE	10	.....	.....	2 s., e	10 a. s., 0.....	
30	29.43	29.38	46.0	57.5	62	46	39.0	58	48.0	49	E	10	NE	7	.....	.....	9 a. s., w.....	10 s., s., w.....	⊕
31	29.45	29.34	48.0	65.0	68	46	41.2	55	52.0	40	NE	10	NE	10	.....	.....	4 a. cu., se	10 a. s., se.....	
Mn	29.07	29.04	52.8	65.0	67.7	51.1	49.7	80.8	55.6	56.7	SE	7.6	{ne se}	8.2	4.27	1.01	4.9 s., se.....	5.4 s. cu., se.....	

JUNE, 1903.

1	29.37	29.29	52.0	70.5	72	52	46.0	63	60.5	56	NE	10	NE	6	.....	.....	8 a. s., se.....	6 a. s., w.....	
2	29.37	29.34	58.0	74.0	74	58	49.0	52	60.0	44	NE	9	SE	4	.....	.....	3 a. cu., se	10 s., se	
3	29.37	29.26	61.0	76.5	77	61	53.5	61	60.0	37	E	5	SE	5	.....	.....	7 a. s., se.....	0.....	
4	29.32	29.25	58.8	76.5	79	57	54.3	75	61.0	40	E	1	E	4	.....	.....	3 ci. s., sw.....	3 ci. s., sw.....	
5	29.33	29.27	65.0	80.5	81	61	60.0	75	62.5	36	E	1	SE	4	.....	.....	Few cu., e	0.....	
6	29.32	29.18	65.0	82.5	85	63	61.0	80	64.5	38	NW	4	W	8	.....	.....	Few a. cu., ne.	3 ci. s., w.....	
7	29.16	29.05	68.0	79.5	84	65	62.0	72	61.5	34	SW	5	NW	10	.....	.....	2 ci. s., w.....	2 s., nw.....	
8	29.05	29.04	62.0	59.5	68	55	55.5	66	54.0	70	SW	3	NW	9	.....	0.21	2 ci. s., w ...	3 s. cu., nw	
9	29.10	29.13	53.0	54.0	63	52	50.5	85	51.0	82	NW	12	NW	5	.....	.03	8 s. cu., nw ...	9 s., nw.....	
10	29.34	29.40	48.0	53.5	58	48	45.0	80	47.5	64	N	6	N	8	0.03	.01	6 s. cu., n	9 s., n.....	
11	29.52	29.40	45.2	56.5	57	41	40.2	65	47.0	48	NE	4	E	1	T.	.....	0.....	0.....	
12	29.40	29.18	48.5	68.4	69	45	46.0	83	55.4	43	S	1	SW	5	.....	.....	Lt. smoke, 0..	0.....	
13	29.13	29.00	55.0	77.2	78	52	51.5	79	60.2	36	SE	2	W	8	.....	.....	1 a. cu., nw...	Few cu., w	
14	29.02	28.96	62.0	82.0	84	59	58.0	79	63.0	34	SW	3	W	6	.....	.....	0.....	1 ci. s., w	
15	29.00	29.06	62.2	69.0	81	61	58.0	78	63.0	72	SE	5	N	6	.....	.....	1 cu., sw	10 s., n.....	
16	29.24	29.20	54.0	68.0	70	53	49.0	70	54.0	39	N	6	NW	8	.....	.....	0.....	1 ci. s., w	
17	29.15	28.98	56.0	76.0	79	53	51.0	71	60.0	38	SW	6	SW	6	.....	.....	Few s., sw	4 ci. s., nw.....	
18	28.93	28.89	64.0	72.5	78	60	59.0	76	63.5	61	SE	3	N	6	.....	.....	2 cu., nw.....	3 ci. s., w	
19	28.93	28.93	57.2	62.0	64	56	53.2	77	55.0	64	NE	8	E	5	.....	.....	10 s., ne.....	10 s., e	
20	28.98	28.96	56.0	61.0	64	55	52.5	79	55.0	68	E	2	SE	5	.....	T.	9 a. cu., nw...	10 s., nw.....	
21	28.99	28.93	52.0	61.5	68	52	51.0	94	56.5	74	SE	3	SE	4	.....	.01	10 s., nw	9 ci. s., nw.....	≡a. ◪
22	28.93	28.93	56.2	66.5	69	54	53.2	82	54.5	46	NW	7	NW	8	.....	.....	3 a. cu., w.....	4 s. cu., nw	
23	28.98	28.92	54.0	70.0	72	51	51.0	82	57.0	44	NW	9	N	5	.....	.....	0.....	1 s. cu., n	
24	28.98	29.00	55.2	73.5	75	53	53.2	88	58.5	40	NE	2	N	6	.....	.....	Lt. fog, 0.....	1 s., n.....	
25	29.09	29.09	61.8	78.0	79	58	56.3	72	60.0	34	NE	1	E	5	.....	.....	1 a. cu., nw ...	4 ci. s., w	
26	29.18	29.07	62.5	81.0	82	59	59.0	82	64.0	39	SE	1	S	5	.....	.....	0.....	4 ci. s., w.....	
27	29.08	28.90	62.3	79.5	83	60	58.8	81	66.0	49	SE	4	S	5	.....	.....	Few ci. s., w ..	9 s., nw.....	
28	28.84	28.76	65.2	81.2	81	65	62.7	87	63.2	36	NW	9	W	4	.06	.....	8 s., nw	1 ci. s., nw.....	
29	28.83	28.82	65.0	79.0	83	64	63.5	92	71.0	68	SW	8	SW	5	.20	.12	10 n., sw	8 s. cu., sw.....	◪
30	28.76	28.64	70.0	77.0	78	68	69.0	95	71.0	75	S	4	SE	12	.34	.15	10 n., w.....	9 s., se	◪
Mn	29.12	29.06	58.5	71.6	74.5	56.3	54.4	77.3	59.3	50.3	{ne se}	4.8	SE	5.9	.63	.53	3.5 a. cu., nw..	4.5 s., ci. s., nw ...	

ST. PAUL, MINN.

[φ=44° 58′ N; λ=93° 3′ W; barometer above sea, 837 feet; gravity correction applied, 0.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	28.72	28.83	70.0	79.0	79	67	68.0	90	65.0	47	W	5	W	6	0.17	.....	10 s., w	0	
2	28.90	28.82	66.0	72.0	75	64	62.0	80	67.0	78	SE	8	E	8	.....	0.83	3 ci. s., w	10 s. cu., e	☐
3	28.90	28.98	68.0	68.5	72	64	66.0	90	64.0	78	NE	3	N	5	1.75	.04	8 s. cu., ne	10 s., e	
4	28.82	29.01	64.2	68.0	70	60	63.2	95	60.0	63	N	2	W	8	.14	.10	10 s., n	4 s. cu., w	
5	29.13	29.11	60.5	81.0	84	59	57.5	84	66.0	45	SW	4	S	9	.....	.....	0	Few s., s	
6	29.16	29.02	64.5	82.0	83	64	60.5	80	70.0	55	SE	8	SE	14	.....	.....	Few ci. s., w	0	
7	29.03	28.94	74.0	88.0	90	70	69.0	78	74.0	52	SE	8	S	12	.....	.....	0	0	
8	29.07	29.08	70.0	81.0	84	69	67.5	88	69.0	64	W	5	N	2	.03	.....	8 a. s., sw	3 s., n	☐
9	28.95	29.00	70.5	70.5	74	61	65.5	77	65.5	77	SE	6	N	2	.....	.64	10 s., sw	10 s., n	☐
10	29.05	29.05	62.0	78.0	78	61	61.8	99	66.0	53	SW	3	NW	6	.....	.....	D. fog, 0	3 s., nw	
11	29.09	29.02	65.0	76.0	77	62	62.0	85	62.0	45	SW	3	NW	12	.....	.....	0	2 s. cu., nw	
12	29.15	29.11	60.0	72.0	72	59	58.5	65	56.0	35	NW	8	NW	6	.....	.....	0	1 cu., nw	
13	29.20	29.11	57.5	74.5	75	58	52.5	72	66.0	64	NW	6	NW	8	.....	.....	0	1 cu., nw	
14	29.16	29.12	60.8	73.5	76	59	57.3	81	58.5	40	NW	1	NE	6	.....	.....	Few ci. s., nw	6 ci. s., nw	
15	29.20	29.09	57.2	69.0	74	57	50.2	61	61.0	64	SE	6	SE	5	.....	.....	1 a. cu., nw	8 a. s., nw	
16	29.10	28.97	61.3	82.0	84	60	58.2	83	68.0	49	SE	3	SE	8	.....	.....	1 a. cu., w	6 a. s., nw	
17	28.89	28.83	67.2	73.5	76	67	65.2	90	64.5	60	SE	2	NW	9	.70	T.	10 s., sw	7 s. cu., nw	☐
18	28.95	28.94	62.0	72.5	76	62	58.0	79	61.0	52	W	7	NW	11	.....	.....	0	9 s., nw	
19	29.00	29.03	60.0	70.0	70	60	57.0	84	60.0	56	NW	14	NW	10	.....	T.	10 s., nw	4 s. cu., nw	
20	29.11	28.96	56.0	72.5	72	56	54.0	88	62.0	56	NW	1	S	5	.....	.....	10 s., 0	3 s. cu., s	≡ra.
21	28.98	29.03	64.0	75.5	76	61	60.0	79	62.0	46	NW	8	NW	5	.....	.....	Few s., nw	Few s., nw	
22	29.15	29.20	61.0	77.0	77	60	58.0	84	67.0	60	N	1	NE	5	.....	.....	6 a. s., w	5 a. cu., n	
23	29.30	29.25	64.2	82.0	84	62	60.7	82	68.0	49	NE	2	SE	4	.....	.....	2 a. s., w	0	
24	29.26	29.11	65.5	80.0	86	64	62.0	82	68.0	54	SE	2	S	9	.....	.....	6 ci. s., w	8 a. s., nw	
25	29.06	29.14	75.5	82.5	86	69	67.5	66	71.5	58	SW	10	N	6	.....	T.	10 s., sw	1 s., n	
26	29.30	29.25	60.5	68.0	69	60	58.0	86	63.0	76	NE	4	SE	5	.....	.....	10 s., ne	8 a. s., nw	☐
27	29.16	28.97	67.5	84.5	84	63	67.0	97	72.5	56	SE	6	S	12	1.13	.08	10 n., se	6 s., s	≡ra. ☐
28	28.90	28.81	70.0	82.5	84	69	67.0	86	69.5	52	SE	1	NW	9	.....	.....	7 a. s., sw	5 ci. s., sw	
29	28.85	28.95	63.3	64.5	75	61	61.0	88	54.0	60	SW	4	NW	13	.....	.....	6 a. s., sw	8 s., nw	
30	29.16	29.22	52.8	64.5	66	52	50.3	85	53.0	46	NW	9	NW	6	.....	.....	2 s. cu., nw	2 s., nw	
31	29.32	29.26	54.6	68.5	70	52	51.1	79	56.0	45	SE	4	SE	5	.....	.....	0	6 ci. s., nw	
Mn	29.06	29.04	63.7	75.3	77.4	61.7	60.4	82.7	64.2	55.3	SE	5.0	NW	7.5	3.92	1.69	4.5 s., w	4.4 s., nw	

AUGUST, 1903.

1	29.25	29.20	59.0	59.5	62	58	54.5	75	57.5	89	SE	8	SE	8	.....	0.53	10 s., se	10 s., sc	
2	29.18	29.25	62.0	77.0	77	58	61.5	97	67.0	60	S	4	NW	4	0.68	.....	10 s., 0	7 a. s., w	≡ra. ☐
3	29.22	29.12	66.0	74.8	76	63	65.0	95	66.8	66	N	7	NE	5	.67	.46	10 n., n	Few s., ne	☐
4	29.07	28.86	65.0	77.0	78	63	63.0	90	71.5	77	E	7	SE	9	.....	.....	8 s., e	6 ci. s., w	☐
5	28.90	28.93	64.5	74.5	81	64	63.5	95	62.5	51	NW	9	NW	9	.76	.....	Lt. fog, nw	2 s., nw	
6	29.13	29.20	57.2	67.0	68	57	54.7	85	53.0	38	NW	12	NW	8	T.	.....	Few cu., nw	Few s., nw	
7	29.24	29.04	55.0	75.5	76	54	51.8	81	63.5	52	SW	3	S	4	.....	.....	4 ci. s., w	10 a. s., w	
8	28.98	28.88	61.0	70.5	77	59	59.0	89	56.0	39	W	10	NW	6	T.	.02	7 s. cu., w	3 ci. s., nw	
9	29.00	28.92	54.5	62.0	65	54	52.0	85	58.0	79	NW	2	E	4	.....	.14	8 ci. s., nw	10 s., w	☐
10	28.98	29.04	51.0	64.0	66	51	49.0	87	54.0	52	W	9	NW	7	.18	.....	1 s. cu., w	9 s., nw	
11	29.17	29.19	52.0	68.0	69	52	51.0	94	55.0	43	NW	7	N	5	.....	.....	10 s., nw	2 ci. s., nw	
12	29.26	29.17	53.0	67.0	69	52	49.0	75	56.5	52	E	6	E	3	.....	.....	0	2 a. cu., w	
13	29.18	29.11	58.2	70.6	71	57	55.2	83	61.4	59	SE	5	E	5	.....	.....	6 s. cu., se	10 s., sw	
14	29.16	29.12	61.0	65.0	68	61	58.0	84	64.0	95	SE	4	SE	5	.....	.44	8 a. s., nw	10 s., se	≡rp. ☐
15	29.15	29.17	63.0	76.0	77	63	62.5	97	65.0	55	N	4	E	6	T.	.....	10 n., n	0	≡ra.
16	29.26	29.19	59.0	78.0	80	58	58.7	98	67.5	58	SE	2	S	3	.....	.....	D. fog, 0	Few cu., s	
17	29.20	29.07	62.5	79.5	82	62	61.0	92	69.5	60	S	4	S	5	.....	.....	Few ci. s., nw	2 s., nw	
18	28.99	29.00	69.0	78.5	82	68	66.0	86	64.5	46	SW	9	NW	13	.....	.....	8 a. s., w	2 cu., nw	
19	29.11	29.05	58.2	75.5	79	58	55.7	86	63.5	52	NW	6	NW	6	.....	.....	0	Few cu., nw	
20	29.11	28.96	57.4	76.5	83	57	56.5	95	65.0	54	SW	2	S	5	.....	.....	2 a. cu., n. w	5 a. s., nw	≡ra.
21	28.82	28.82	72.0	84.5	89	70	68.0	82	71.5	53	S	5	NW	2	.05	.....	7 cu., w	5 ci. s., nw	☐
22	28.91	28.92	69.0	73.5	78	69	64.5	79	63.5	58	N	5	NE	4	.01	.....	10 s., n	2 a. s., nw	
23	28.94	28.92	60.0	66.0	69	60	57.0	84	62.0	80	NE	4	E	12	.....	.....	8 ci. s., nw	10 s., e	
24	28.85	28.78	60.5	69.0	81	60	58.0	86	65.0	81	SE	5	NW	8	.....	.....	10 s., se	8 s., w	
25	29.05	29.17	56.0	63.2	68	56	55.0	94	56.7	67	N	5	N	5	.....	T.	10 s., n	8 s. cu., n	
26	29.20	29.08	55.0	62.5	65	55	53.0	88	60.5	90	NE	9	E	12	.....	T.	10 s., ne	10 s., e	
27	29.04	28.95	56.5	62.0	63	56	53.5	82	59.0	84	E	10	E	14	.....	.04	10 s., e	10 s., e	
28	28.90	28.96	60.0	65.0	67	60	59.5	97	60.0	75	SE	10	E	8	.86	.03	10 n., sc	10 s., e	
29	29.13	29.17	56.0	63.5	67	56	54.0	88	57.0	68	NE	7	N	3	.08	.....	10 s., ne	2 s., n	
30	29.23	29.18	49.0	68.0	70	48	47.0	87	57.5	53	NW	7	NW	3	.....	.....	0	1 cu., nw	
31	29.25	29.14	50.0	71.5	76	49	49.5	96	61.0	54	W	2	SW	3	.....	.....	Lt. fog, 0	0	
Mn	29.09	29.05	59.1	70.5	73.5	58.3	57.0	88.1	61.8	62.6	se, nw	6.1	NW	6.3	3.24	1.66	6.0 s., nw	5.0 s., nw	

ST. PAUL, MINN.

[φ=44° 58′ N; λ=93° 3′ W; barometer above sea, 837 feet; gravity correction applied, 0.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.11	29.08	57.2	76.0	84	55	54.2	83	68.0	67	SE	8	NW	5	....	T.	2 a. s., nw	8 s. cu., nw	
2	29.09	28.97	64.0	71.0	72	64	61.0	85	66.0	77	E	5	SE	8	T.	0.03	8 s., sw	9 s., se	
3	29.00	29.14	60.2	58.0	71	56	59.2	94	56.0	89	NW	6	E	8	....	.25	10 s., nw	9 s., nw	⊓◪
4	29.29	29.31	51.0	62.6	64	50	49.0	86	50.6	42	N	4	NW	4	....	.....	1 a. cu., w	Few s., nw	
5	29.32	29.20	45.0	67.5	70	45	44.8	98	56.5	50	NE	1	SE	2	....	.....	D. fog, 0	0	
6	29.20	28.92	53.0	56.0	60	53	51.0	88	54.0	88	SE	6	E	9	....	.54	10 s., se	10 s., e	
7	28.81	28.60	62.0	73.5	74	60	61.0	94	68.5	78	SE	12	SE	14	0.20	.01	10 n., se	10 s., se	⊓◪
8	28.85	28.90	57.0	70.5	76	57	55.0	88	62.5	64	SW	6	SW	3	.27	.....	0	5 s., sw	
9	29.14	29.06	53.5	64.2	70	53	51.0	85	56.7	63	SW	5	SW	6	....	.....	6 a. s., sw	9 s., sw	
10	29.03	28.98	50.0	68.0	73	50	49.0	93	58.0	55	SW	4	SE	8	....	.....	0	8 a. s., sw	
11	29.03	28.94	58.0	62.0	72	57	55.0	88	60.0	89	S	6	SE	15	....	.02	3 a. cu., sw	10 n., sc	⊓◪
12	28.73	28.80	65.8	60.0	74	55	64.8	95	52.0	58	SE	5	W	15	4.98	.20	10 s., se	Few s., w	
13	29.11	29.20	41.0	44.2	55	40	38.0	77	43.2	93	NW	9	N	6	....	.36	Few s., nw	10 n., n	⊓◪
14	29.19	29.18	46.0	48.5	51	42	45.0	93	48.0	96	N	9	NE	10	.50	.08	10 s., n	10 n., ne	
15	29.13	29.15	47.0	46.5	49	45	46.0	93	46.0	96	NE	5	NW	13	.05	.02	10 s., ne	10 n., nw	
16	29.30	29.30	43.0	49.5	52	43	41.5	88	42.5	56	NW	8	NW	7	T.	.....	10 s., nw	9 s., nw	
17	29.30	29.24	38.0	48.0	52	37	37.0	91	42.0	60	NW	9	W	6	....	.....	3 s. cu., nw	5 s., w	
18	29.21	29.07	38.2	62.0	63	38	37.2	91	54.0	60	SE	6	S	6	....	.....	2 a. s., w	0	⊓
19	29.01	28.95	50.0	70.0	76	50	48.2	88	60.0	56	SE	6	S	8	....	.....	0	Few s., s	
20	29.02	29.12	58.0	71.5	75	58	56.0	89	64.0	67	SE	6	SW	1	....	.....	3 ci. s., nw	2 a. s., nw	
21	29.28	29.20	55.0	74.5	76	54	50.0	71	67.5	70	NE	2	SE	6	....	.....	0	2 ci. s., nw	
22	29.18	29.01	62.8	77.5	84	63	60.3	87	67.5	60	SE	4	SW	6	....	.....	0	2 s., nw	
23	29.34	29.35	43.0	50.5	66	43	39.0	70	42.5	50	NW	19	NW	6	....	.....	9 a. s., nw	0	
24	29.31	28.95	41.0	58.0	64	41	39.5	88	50.0	57	SE	5	SE	8	....	.....	Few s. cu., w	3 ci. s., w	—
25	28.72	28.52	51.0	76.0	81	51	48.5	84	66.0	59	SE	7	S	4	....	.....	7 a. s., w	4 a. s., nw	
26	28.74	29.01	54.2	50.5	70	46	50.2	76	41.5	44	NW	16	NW	12	T.	T.	9 s., nw	0	
27	29.18	29.25	40.0	52.0	54	40	38.0	84	44.0	52	W	8	NW	2	....	.....	0	0	⊓
28	29.33	29.24	41.0	59.0	64	41	39.0	84	51.0	58	SE	4	SE	6	....	.....	1 a. cu., nw	0	⊓
29	29.18	29.06	48.0	65.0	72	48	46.0	87	56.0	57	SE	10	SE	18	....	.....	0	10 s., se	
30	29.00	28.98	61.0	64.0	66	59	60.0	94	62.0	90	S	9	S	3	.31	.02	10 s., s	10 s., s	
Mn	29.10	29.05	51.2	61.9	67.6	49.8	49.1	86.9	55.2	66.7	SE	7.0	SE	7.5	6.31	1.53	4.5 s., nw	5.2 s., nw	

OCTOBER, 1903.

1	29.22	29.30	53.0	60.0	64	52	52.0	94	52.0	58	N	6	NE	6	0.23	.....	10 s., n	4 ci. s., w	
2	29.26	28.98	55.5	60.0	63	53	53.0	85	57.0	82	SE	8	SE	13	....	0.01	10 s., se	10 s., se	
3	28.74	28.83	63.0	56.5	73	55	61.5	92	49.5	61	SE	5	NW	17	1.99	.60	9 a. s., sw	Few s., nw	⊓◪
4	29.10	29.22	45.5	46.0	55	45	44.0	89	41.0	65	SW	3	W	6	....	.....	4 a. s., sw	Few s., w	
5	29.27	29.07	36.0	54.0	55	36	35.5	95	46.0	54	SE	8	SE	8	....	.....	1 a. s., w	4 s., w	—◦
6	28.75	28.31	56.2	56.0	59	50	54.2	88	54.5	91	SE	16	S	7	.01	2.42	10 s., se	10 s., s	⊓◪
7	28.10	28.56	47.0	44.5	54	44	44.0	79	43.0	89	SW	8	W	12	.06	.01	2 s. cu., sw	10 s., w	
8	28.90	29.21	46.0	46.5	54	44	43.0	79	41.0	62	NW	17	NW	12	.03	.....	7 s. cu., nw	9 s., nw	
9	29.40	29.36	36.8	49.5	57	37	35.3	87	44.0	64	SW	5	SE	4	....	.....	0	0	
10	29.34	29.17	43.0	55.0	60	42	40.5	81	50.0	71	SE	10	SE	14	....	.....	8 a. s., sw	2 s., se	
11	29.20	29.15	44.5	57.2	63	44	41.5	78	49.2	56	SE	10	SE	4	....	.....	9 s., se	2 s., se	
12	29.21	29.24	43.0	58.5	64	43	41.0	85	54.5	78	SE	4	SE	2	....	.....	2 ci. s., sw	5 ci. s., nw	
13	29.34	29.25	45.0	59.0	64	45	44.1	94	52.0	63	SE	1	SE	1	....	.....	1 a. cu., w	0	≡a.
14	29.16	28.97	43.0	60.5	62	43	42.8	98	55.5	74	SE	1	SE	2	....	.....	D. fog, 0	6 s., nw	
15	28.91	28.95	54.0	47.5	60	47	52.0	88	47.0	96	NW	3	NW	15	....	T.	10 s., nw	10 n., nw	
16	28.94	28.82	38.0	49.0	52	38	36.0	83	43.0	61	SW	6	NW	12	T.	T.	1 a. cu., nw	5 s., nw	
17	29.15	29.28	38.0	40.5	45	38	34.8	73	34.5	53	NW	12	NW	5	.05	.....	1 s. cu., nw	1 s., nw	
18	29.15	28.94	35.0	55.5	60	35	33.0	82	49.0	62	SE	7	NW	3	....	.....	0	0	
19	28.95	28.84	40.0	65.5	76	40	39.8	98	52.5	40	S	8	NW	12	....	.....	D. fog, 0	2 s., nw	
20	29.12	29.15	45.0	55.5	60	45	40.0	65	45.5	44	W	7	E	5	....	.....	0	Few s., e	
21	29.24	28.97	39.0	56.0	60	39	37.5	88	49.0	61	W	1	S	3	....	.....	1 a. s., 0	0	
22	29.24	29.39	43.0	43.5	55	41	39.0	70	38.0	60	NW	24	NW	8	....	.....	8 s. cu., nw	0	
23	29.45	29.43	35.0	43.5	46	35	34.0	91	39.5	70	NW	8	W	4	....	.....	1 s. cu., nw	0	
24	29.30	29.07	33.5	55.0	62	34	32.0	86	48.0	60	SE	5	S	2	....	.....	Few ci. s., nw	0	
25	29.24	29.42	41.0	48.0	56	39	37.5	73	42.0	60	NW	5	NW	8	....	.....	3 a. s., nw	0	
26	29.66	29.61	31.0	44.0	48	31	28.0	69	39.0	64	NW	4	N	2	....	.....	1 a. s., 0	0	
27	29.56	29.38	33.0	50.5	58	33	30.0	71	44.0	60	SE	4	S	5	....	.....	2 a. cu., w	0	
28	29.28	29.13	36.2	58.0	67	36	34.2	82	50.0	57	SE	8	SE	6	....	.....	0	0	
29	29.10	29.05	44.0	58.0	69	44	41.5	82	49.0	52	SE	10	SE	9	....	.....	0	0	
30	29.07	29.07	43.0	58.0	61	43	40.0	78	52.0	67	SE	7	NW	3	....	.....	0	10 s. cu., nw	
31	29.22	29.28	40.2	52.0	57	40	39.2	92	44.0	52	NW	3	NW	2	....	.....	0	0	
Mn	29.16	29.11	42.8	53.0	59.3	41.6	40.7	83.7	46.9	64.1	SE	7.1	NW	6.8	2.37	3.04	3.3 a. s., nw	2.9 s., nw	

ST. PAUL, MINN.

[φ=44° 58′ N; λ=93° 3′ W; barometer above sea, 837 feet; gravity correction applied, 0.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.33	29.30	39.0	58.0	64	39	37.0	84	52.5	63	E	1	SE	1			0	Lt. smoke, 0	
2	29.30	29.27	43.0	60.5	69	43	42.7	98	55.5	74	SE	1	SE	1			D. fog, 0	0	
3	29.31	29.24	40.0	60.5	68	40	39.8	98	54.5	68	SE	4	SE	1			D. fog, 0	0	
4	29.17	29.17	51.0	49.0	54	40	50.8	99	40.0	43	S	5	NW	12			D. fog, 0	1 s., nw	
5	29.32	29.32	30.0	36.0	42	30	28.0	78	32.0	65	N	8	N	4			0	3 ci. s., nw	
6	29.39	29.28	26.6	37.5	41	27	24.1	70	31.5	50	SE	4	SE	9			0	4 ci. s., w	
7	29.17	29.03	36.0	47.0	52	34	32.5	69	42.0	66	S	9	SE	15			10 s., s	0	
8	28.95	28.83	41.5	58.6	64	41	40.0	88	53.6	73	SE	9	S	10			0	0	
9	28.75	28.86	47.2	34.0	58	33	45.2	86	32.0	81	W	6	NW	15		0.14	10 s., w	10 s., nw	*
10	28.92	28.65	30.2	45.2	47	28	29.2	89	38.6	55	SE	4	SE	10			2 a. s., 0	10 s., se	
11	28.55	28.63	36.3	36.0	43	34	33.3	73	32.0	65	NW	12	SW	8			3 ci. s., 0	0	
12	28.58	28.86	32.8	37.5	39	33	31.8	90	36.0	87	NE	8	NW	12	0.01	.14	10 n., ne	0	*
13	29.07	29.17	25.2	29.0	38	25	24.0	85	27.0	78	SW	4	W	10		T.	6 s. cu., sw	0	*
14	29.32	29.30	19.2	26.5	27	19	18.0	82	24.5	75	W	10	W	3			0	10 s., w	
15	29.13	28.93	25.5	35.0	36	26	24.0	82	31.0	64	E	8	E	5			10 s., e	10 s., e	
16	29.06	29.24	27.5	17.5	34	14	25.5	76	15.5	68	NW	20	NW	20			10 s., nw	0	
17	29.31	29.37	7.0	18.5	18	7	6.0	76	12.1	74	W	16	NW	18			3 s. cu., w	1 s. cu., nw	
18	29.48	29.46	4.8	18.0	18	5	4.0	79	16.0	68	NW	12	W	12	T.		1 s. cu., nw	0	*
19	29.55	29.60	10.0	18.5	19	10	9.0	79	16.9	75	NW	12	S	3			0	0	
20	29.58	29.35	15.0	33.0	35	12	14.0	82	31.0	80	SE	9	S	10			8 a. cu., w	3 a. s., w	
21	29.20	29.12	30.2	39.0	42	28	27.2	68	36.0	76	SE	8	NW	12			2 a. s., 0	0	
22	29.21	28.93	23.0	30.0	31	22	22.0	87	29.2	91	NW	2	S	5		.03	10 a. s., 0	10 n., s	*
23	28.99	29.27	25.0	18.5	30	18	23.0	75	16.5	68	NW	23	NW	8	T.		10 s., nw	0	
24	29.40	29.42	5.0	17.0	20	5	4.5	86	15.4	74	NW	10	NW	3			1 a. s., 0	2 ci. s., w	☋
25	29.48	29.53	9.6	18.0	19	8	9.0	86	12.0	81	NW	7	NW	6			0	0	
26	29.60	29.44	0.2	16.0	18	0	− 0.2	87	14.0	66	NW	2	SE	6			0	2 ci. s., w	
27	29.21	28.89	23.0	29.0	30	16	21.0	73	27.0	78	S	9	SE	8			10 s., s	7 ci. s., w	
28	28.92	28.95	28.0	33.5	36	27	26.5	82	31.0	76	NW	12	NW	16	T.		10 s., nw	4 a. s., nw	*
29	29.01	29.20	22.5	20.0	30	18	21.5	86	18.2	73	NW	20	NW	10	.02	T.	10 s., nw	0	*
30	29.24	29.21	18.0	18.0	20	17	17.0	84	17.0	84	NW	5	NW	4		.01	10 s., nw	10 n., nw	*
Mn.	29.18	29.16	25.7	32.8	38.1	23.1	24.3	82.6	29.7	71.3	NW	8.7	NW	8.6	.03	.32	4.5 s., nw	2.9 ci. s., s., w., nw.	

DECEMBER, 1903.

1	29.31	29.27	13.0	19.0	22	11	12.0	81	17.6	78	NW	3	SE	3	T.		1 s., nw	0	
2	29.08	28.84	13.0	24.0	27	11	12.6	92	23.0	87	SE	9	SE	20		0.01	2 s., se	10 n., se	*
3	28.62	28.84	30.0	24.5	32	23	29.5	95	23.5	87	SW	10	W	14	0.15	.04	10 n., sw	10 s., w	*
4	28.98	29.16	17.8	18.5	23	16	17.0	87	17.5	84	W	9	NW	15	.02	.02	10 s., w	10 s., nw	*
5	29.36	29.34	11.0	11.0	16	11	10.4	87	10.0	79	NW	12	SW	6		.01	10 s., nw	10 s., sw	*
6	29.15	28.91	18.2	32.2	33	13	17.2	84	29.2	69	S	2	W	6			0	0	
7	29.12	29.20	19.0	20.5	25	16	18.0	85	19.0	78	NW	12	NW	5		T.	10 s., nw	10 s., nw	*
8	29.29	29.08	14.0	10.6	19	8	13.2	85	9.2	71	NW	10	SE	4	.02	T.	10 n., nw	0	*
9	28.70	28.87	17.0	15.0	20	8	16.4	90	14.0	82	SE	7	NW	17	.05	.03	10 n., se	10 s., nw	*
10	28.90	28.88	3.0	14.5	15	3	2.6	89	13.5	82	SW	4	W	7		T.	9 s., sw	10 n., w	*
11	29.03	29.06	0.0	8.0	12	0	− 0.4	87	7.2	81	NW	9	SE	4	T.	.01	0	10 n., se	*
12	29.06	29.25	7.0	− 9.0	11	−15	6.4	85	− 9.8	60	NW	15	NW	13	.09		3 s., nw	0	*
13	29.33	29.40	−16.0	− 8.0	− 7	−16	−16.4	71	− 8.4	81	SW	9	SW	12			0	0	
14	29.50	29.52	− 7.2	1.0	4	− 8	− 7.4	91	0.2	75	SW	6	W	6			0	0	
15	29.49	29.32	− 6.2	8.4	10	− 6	− 6.4	92	8.0	91	SW	4	E	5		T.	0	10 n., e	*
16	29.33	29.44	3.0	10.5	14	3	2.7	92	9.5	79	N	4	NW	2	.03		0	0	*
17	29.43	29.21	− 7.1	17.0	17	− 7	− 7.3	91	15.0	67	E	3	SE	12			3 a. s., 0	2 a. s., w	
18	28.99	28.80	16.0	28.5	31	16	15.0	83	28.0	94	SE	8	SE	15		.02	3 s., se	10 n., se	*
19	28.77	28.96	30.8	25.5	34	23	30.3	95	24.5	88	NW	17	NW	8	.01		10 s., nw	0	*
20	29.00	28.76	22.0	30.0	33	17	21.5	93	28.0	78	NW	7	S	7			10 s., nw	10 s., s	
21	28.68	28.09	28.0	17.5	33	9	26.0	77	15.5	68	NW	20	NW	13			9 s. cu., nw	0	
22	29.24	29.07	− 1.2	24.0	26	− 2	− 1.4	93	22.0	74	SW	7	S	6			0	5 ci. s., nw	
23	29.11	29.14	20.0	22.0	27	18	19.5	92	20.0	72	SW	6	NW	5			0	0	
24	28.95	29.06	15.0	10.0	26	4	14.5	91	9.0	79	SW	9	NW	12		.05	4 s. cu., sw	0	*
25	28.91	29.33	0.0	− 9.0	4	−11	− 9.4	87	−10.0	51	E	4	NW	12	.03		3 s., e	0	*
26	29.22	28.67	−14.8	10.0	33	−16	−15.0	87	9.0	79	S	4	SE	7			2 s. cu., s	0	
27	28.61	29.26	20.0	6.6	33	1	19.0	85	5.6	76	N	10	NW	5	T.	T.	10 n., n	0	*
28	29.06	28.98	8.0	27.0	27	− 3	7.8	95	25.0	76	SE	10	W	9	T.	.04	10 n., se	10 s., w	*
29	29.18	29.40	1.2	0.0	23	− 4	0.8	87	− 0.4	87	NW	13	NW	8			0	0	
30	29.16	29.21	3.5	20.0	22	− 5	2.5	72	18.5	78	W	3	W	7		.02	10 s., w	2 ci. s., w	*☋
31	28.98	29.08	17.2	21.0	25	13	16.6	90	20.0	86	SE	5	NW	10			10 s., se	2 ci. s., 0	
Mn.	29.09	29.11	9.5	14.5	21.6	4.2	8.9	87.5	13.3	78.0	NW	8.1	NW	8.8	.40	.25	5.1 s., nw	4.2 s., w	

BISMARCK, N. DAK.

[φ=46° 47′ N; λ=100° 38′ W; barometer above sea, 1,674 feet; gravity correction applied, −.02.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8. p. m.	
1	28.19	28.16	9.6	26.8	39	7	9.4	96	21.2	38	E	6	S	3	....	.....	Lt. fog, 0	0	
2	28.39	28.28	6.7	20.0	26	7	5.3	66	16.5	48	NW	2	NW	4	.....	.....	0	8 s., 0	
3	28.09	27.89	13.0	28.0	29	8	11.0	62	25.6	71	E	3	E	4	....	T.	8 s., 0	10 n., 0	△
4	28.18	28.20	22.2	29.6	33	19	19.7	65	24.1	41	NW	20	NW	6	T.	.....	10 s., 0	0	
5	28.33	28.15	16.3	24.3	30	13	14.5	70	20.2	49	NW	4	N	5	....	.....	2 s., 0	0	
6	27.68	27.95	35.0	25.4	50	21	33.0	59	20.0	33	NW	3	NW	48	....	T.	10 s., 0	10 s., 0 (?)	✱
7	28.25	28.50	17.0	12.5	25	9	15.0	67	10.5	60	N	40	NW	23	....	T.	10 s., 0	10 s., 0	✱
8	28.34	28.33	2.0	6.4	29	− 3	0.8	65	4.2	45	NW	5	N	12	....	.....	0	0	
9	28.47	28.23	− 8.5	6.5	9	− 9	− 9.1	71	4.9	60	NW	6	SE	8	....	.....	0	0	
10	28.02	28.29	13.8	− 2.7	14	− 5	12.6	78	− 3.9	55	NW	18	NW	20	T.	T.	10 n., nw	0	✱
11	28.29	28.39	−11.0	− 7.2	− 2	−11	−11.6	67	− 8.4	46	NW	16	NW	20	....	.....	0	0	
12	28.45	28.21	− 7.0	18.4	24	−14	− 7.6	73	15.4	54	NW	2	W	2	....	.....	10 s., 0	0	
13	28.28	28.44	26.7	23.0	30	17	23.7	65	20.0	60	W	18	E	9	....	0.02	10 s., 0	10 n., 0	✱
14	28.38	28.28	18.3	35.3	44	16	17.5	87	30.2	48	SE	3	W	16	T.	.....	10 s., 0	0	
15	28.21	28.15	22.8	29.9	40	18	20.0	62	25.4	62	W	1	W	8	....	.....	1 s., 0	0	
16	28.18	28.53	14.2	21.4	36	11	12.8	74	18.4	58	0	0	N	8	....	.....	0	0	
17	28.48	28.49	15.0	13.0	21	10	13.4	72	11.2	69	N	7	NE	8	....	.....	10 s., 0	2 s., 0	
18	28.54	28.30	0.8	10.0	12	1	0.0	75	8.0	57	E	9	SE	8	....	.08	10 s., 0	10 n., 0	✱
19	27.97	27.92	13.0	19.0	42	9	11.6	73	16.2	57	SE	4	NW	38	T.	.....	10 s., 0	0	
20	28.34	28.30	4.3	14.2	14	1	3.5	78	12.0	60	NW	9	SE	9	....	.....	0	10 s., 0	
21	27.90	28.00	11.0	10.2	34	0	9.6	71	8.0	53	SE	8	N	24	....	.01	10 s., 0	5 s., 0	✱
22	28.27	28.29	− 6.2	10.0	10	− 8	− 7.0	65	8.0	57	N	3	SE	12	....	.....	10 s., 0	10 s., 0	
23	28.24	28.02	10.7	23.9	34	7	9.5	75	20.4	55	SE	5	SE	10	0.02	T.	10 n., 0	9 s., 0	✱
24	27.90	27.86	21.0	32.9	44	16	19.0	71	28.5	56	N	8	NW	3	....	.....	0	1 s., 0	
25	27.62	27.71	33.0	38.8	45	27	30.0	71	33.2	56	SE	8	NW	10	....	T.	10 s., 0	10 s., 0	
26	27.97	28.16	26.8	10.0	37	3	23.6	62	7.8	53	NW	20	NW	10	....	.....	10 s., 0	10 s., 0	
27	28.10	28.18	1.8	− 5.4	3	− 5	1.0	76	− 6.2	66	E	12	NE	6	.22	.38	10 n., e	10 s., 0	✱✱
28	28.05	28.04	− 5.0	− 6.4	− 2	−11	− 5.8	67	− 7.4	56	E	9	N	11	.06	.08	10 s., 0	7 s., n	✱✱
29	28.17	28.23	−12.4	− 5.8	− 2	−18	−13.0	65	− 7.0	48	N	2	NW	6	....	.....	0	0	
30	28.20	27.99	−25.0	11.8	13	−29	−25.2	78	9.4	52	NW	3	E	6	....	.....	1 s., 0	0	
31	27.81	27.80	− 1.8	9.0	16	− 5	− 2.6	71	6.4	42	S	2	NE	6	....	.....	0	10 s., 0	
Mn	28.17	28.16	9.1	15.6	25.1	3.3	7.6	70.9	12.7	53.4	NW	8.3	NW	11.5	.30	.52	5.7 s., e., nw	4.6 s., n	

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1	27.95	28.15	− 2.8	2.0	5	− 5	− 3.8	62	1.0	71	N	9	N	8	....	0.02	10 s., 0	10 n., 0	✱
2	28.33	28.38	−13.2	− 8.5	− 3	−15	−13.8	64	− 9.8	61	NW	3	NW	3	T.	.....	0	10 s., 0	✱
3	28.35	28.26	−23.0	− 7.2	− 2	−28	−23.2	80	− 8.4	46	NW	3	NW	1	....	.....	0	0	
4	28.27	28.25	−22.7	7.0	9	−26	−23.1	59	5.6	66	NW	1	NW	4	....	.....	0	0	
5	28.46	28.50	7.5	5.1	18	− 2	6.3	72	3.9	69	N	12	NW	2	....	.....	0	0	
6	28.52	28.43	−14.2	9.0	12	−19	−14.6	74	7.6	69	NW	1	NW	3	....	.....	0	0	
7	28.27	28.07	1.0	11.4	18	− 1	− 0.2	63	10.0	71	E	2	S	6	....	.....	0	0	
8	28.00	27.96	− 3.0	13.8	23	− 6	− 3.8	69	12.0	66	W	4	SE	7	....	.....	0	0	
9	28.03	27.86	14.0	32.2	37	9	12.4	71	25.1	31	SE	3	SW	15	....	.....	0	9 s., 0	
10	27.80	27.85	30.7	34.2	38	24	27.2	63	31.5	75	NW	10	NW	5	....	.....	Few s., 0	Few s., nw	
11	27.87	28.19	19.2	16.2	25	10	17.6	75	14.4	70	NW	10	NW	17	....	.02	10 s., 0	10 s., 0	✱
12	28.39	28.47	1.2	− 3.4	10	−11	0.2	69	− 4.6	54	N	9	N	4	....	.....	10 s., n	0	
12	28.48	28.55	−19.0	−12.8	− 6	−23	−19.4	66	−13.6	52	N	3	NW	6	....	.....	0	0	
14	28.67	28.75	−26.3	−15.2	− 8	−27	−26.5	77	−16.0	46	NW	2	NW	9	....	.....	0	0	
15	28.77	28.58	−35.0	−22.0	−18	−41	−35.0	100	−22.6	41	0	0	NW	7	....	.....	0	1 s., 0	
16	28.53	28.30	−33.8	−20.0	−14	−39	−33.8	100	−20.6	47	NW	6	NW	4	....	.....	0	0	
17	28.03	28.36	−28.2	−21.6	−14	−30	−28.4	74	−22.2	42	NW	3	N	12	....	.....	0	0	
18	28.65	28.43	−30.0	1.0	3	−31	−30.2	70	0.0	69	NW	4	S	2	....	.....	0	0	
19	28.44	28.42	2.7	5.0	12	− 4	2.1	83	3.8	69	W	8	E	6	0.01	T.	9 s., 0	0	✱
20	28.33	28.57	14.2	8.4	22	2	12.4	67	7.0	68	NW	6	NW	11	....	T.	0	0	✱
21	28.63	28.38	− 3.7	28.4	36	− 6	− 4.5	69	21.3	23	NW	2	0	0	....	.....	0	0	
22	28.25	28.46	17.0	20.7	33	12	15.0	67	16.2	37	SW	6	N	28	....	.04	5 s., 0	1 s., 0	✱
23	28.80	28.64	− 2.0	16.2	23	− 5	− 2.6	78	14.4	70	N	3	SE	6	....	.....	Few s., 0	0	
24	28.60	28.49	− 1.0	22.6	29	− 3	− 1.2	93	18.1	40	SE	1	NW	4	....	.....	10 s., 0	0	≡
25	28.44	28.40	7.3	27.0	33	− 2	6.7	85	22.0	42	NW	1	NW	6	....	.....	0	0	
26	28.45	28.18	7.2	31.2	33	6	6.0	71	26.7	53	NW	1	NE	2	....	.....	0	10 s., 0	
27	27.96	28.25	15.7	13.0	24	8	13.9	69	10.6	54	NE	2	N	37	....	T.	10 s., 0	10 s., 0	✱
28	28.55	28.42	0.0	18.0	23	− 1	− 1.2	61	15.6	62	N	15	NW	16	....	.....	0	0	
Mn	28.35	28.34	− 4.3	7.6	14.3	− 9.1	− 5.2	73.2	5.3	55.9	NW	4.6	NW	8.2	.01	.08	2.3 s., n	2.2 s., nw	

BISMARCK, N. DAK.

[φ=46° 47′ N; λ=100° 38′ W; barometer above sea, 1,674 feet; gravity correction applied −.02.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.05	28.17	25.0	30.8	34	11	22.5	69	25.4	44	W	18	NW	3	....	.....	10 s., w.	2 s., 0	
2	28.25	28.25	19.8	27.8	30	18	18.4	79	23.2	49	E	9	E	8	....	.....	10 s., 0	8 s., e	
3	28.50	28.60	9.0	13.2	24	8	7.6	69	12.0	77	N	5	N	8	....	.....	4 s., 0	0	
4	28.63	28.51	8.7	14.0	21	7	7.7	78	12.6	74	N	2	N	4	0.04	0.02	10 s., 0	0	*
5	28.43	28.15	13.7	30.7	34	6	12.3	74	25.2	44	N	4	S	20	....	.....	10 s., 0	0	
6	27.85	27.90	30.0	33.7	36	26	27.5	73	30.2	67	S	18	W	14	....	.....	10 s. cu., s.	3 s., 0	
7	28.19	28.20	21.7	36.6	40	21	19.7	72	30.0	44	NW	14	S	6	....	.....	10 s., 0	0	
8	28.19	27.90	25.0	43.7	50	25	22.4	68	38.6	64	SE	6	S	20	....	.....	7 s., 0	10 s., s	
9	28.06	28.45	31.3	18.6	37	13	27.7	63	16.2	65	NW	12	N	8	....	.....	10 s., 0	0	
10	28.58	28.36	6.3	39.0	45	6	5.7	80	34.0	60	E	7	S	8	....	.....	0	1 s., 0	
11	28.25	28.15	33.0	48.6	65	28	30.0	71	40.0	46	SE	5	NW	2	....	.....	10 s., 0	9 s., 0	
12	28.23	28.42	23.0	16.0	28	10	21.4	79	14.0	66	N	16	N	18	....	.....	10 s., 0	5 s., n	
13	28.60	28.68	6.7	8.8	13	5	5.5	71	7.0	60	N	17	N	10	T.	.....	10 s., 0	2 s., 0	*
14	28.70	28.51	5.8	20.5	22	5	5.0	80	18.4	70	NE	5	SE	10	....	.....	10 s., 0	0	
15	28.43	28.24	18.0	28.9	30	16	16.4	75	25.4	61	SE	8	SE	5	....	.....	10 s., 0	10 s., 0	
16	28.27	28.31	27.3	30.0	35	22	24.9	72	26.0	57	S	2	NE	6	....	.....	10 s., 0	2 s., 0	
17	28.20	28.13	27.8	36.9	37	21	25.3	71	30.4	45	SE	9	S	4	.01	.....	10 s., 0	10 s., s	*
18	28.24	28.46	32.0	22.0	35	17	30.0	79	18.5	52	N	17	N	24	T.	.04	10 s., 0	10 n., n	*
19	28.58	28.60	4.0	7.8	17	3	2.8	67	6.0	58	N	26	N	20	T.	T.	10 s., 0	9 s., n	*
20	28.47	28.10	−3.2	23.8	28	−4	−4.0	70	19.3	42	NW	10	W	5	....	.....	4 s., 0	0	
21	27.91	28.08	12.7	27.5	32	11	11.1	69	24.0	60	SE	1	NW	24	....	.01	10 s., 0	10 s., nw	*
22	28.18	28.32	16.7	23.7	29	15	15.1	74	18.8	35	NW	9	N	15	....	T.	3 s., nw	10 n., n	*
23	28.46	28.41	17.8	21.0	26	14	16.0	72	17.0	44	NW	9	NE	11	T.	T.	10 n., nw	0	*
24	28.37	28.28	3.0	32.4	37	3	2.2	77	26.5	41	NE	3	SE	7	....	.....	0	0	
25	28.29	28.38	17.0	19.0	28	12	15.4	74	16.8	66	E	2	N	15	....	.....	0	0	
26	28.50	28.52	7.2	18.9	25	7	6.0	71	16.7	66	N	15	N	10	....	.....	8 s., 0	0	
27	28.53	28.53	14.0	27.8	44	10	12.2	67	22.7	44	N	4	NE	11	....	.....	10 s., nw	0	
28	28.63	28.41	11.3	40.0	42	11	9.7	67	33.5	49	E	9	SE	13	....	.....	0	5 s., 0	
29	28.10	28.02	37.3	58.2	67	33	33.8	70	49.3	52	S	9	N	5	....	T.	10 s., 0	0	
30	28.18	28.11	28.0	50.9	58	28	25.5	71	43.0	51	N	2	SE	6	....	.....	3 s., 0	1 s., 0	
31	27.97	27.76	39.3	59.4	65	36	36.3	76	52.3	63	SE	11	S	8	....	.....	10 s. cu., w	10 s. cu., s	
Mn.	28.32	28.29	18.4	29.4	36.0	14.3	16.5	72.5	24.9	55.4	N	9.2	N	10.6	.05	.07	7.7 s., nw	3.8 s., n	

APRIL, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.84	27.85	37.0	44.4	50	35	34.0	74	37.5	51	NW	9	N	12	0.04	.....	9 s., 0	10 s., 0	
2	28.07	28.11	25.2	41.8	43	25	22.7	69	36.6	62	N	15	NW	5	....	.....	6 s. cu., n	0	
3	28.23	28.25	27.0	42.4	47	25	24.2	67	36.3	55	NW	8	E	10	....	.....	1 s., 0	0	
4	28.13	27.90	31.3	51.7	61	29	29.0	76	45.2	60	S	10	SE	6	....	.....	8 s., 0	10 s., 0	
5	27.96	28.00	33.7	33.0	40	31	32.2	86	31.5	85	N	12	N	12	....	0.18	10 s., 0	10 n., n	*
6	27.98	27.86	27.2	38.4	39	26	25.0	76	34.5	67	N	20	NW	4	.06	.....	10 s., 0	1 s., 0	*
7	27.88	27.92	35.0	54.7	58	29	31.5	68	47.2	57	NW	10	NW	11	....	.....	2 s. cu., nw	1 s., 0	
8	27.88	28.10	42.0	53.6	59	36	38.5	73	45.7	54	W	11	NW	24	....	.....	Few s., 0	0	
9	28.24	28.03	30.2	61.5	66	28	27.7	73	49.0	39	NW	4	SE	16	....	.....	1 s., 0	5 s., 0	
10	27.89	27.80	50.2	51.4	68	45	47.2	81	49.0	84	SE	12	SE	24	T.	T.	10 s. cu., se	10 s., sc	⊓
11	27.85	28.14	43.0	44.5	47	32	42.7	94	36.6	44	SE	4	NW	18	T.	T.	10 n., 0	5 s. cu., nw	
12	28.36	28.40	24.0	48.9	52	23	22.2	76	38.8	37	NW	4	NW	10	....	.....	7 s., 0	5 s., 0	
13	28.50	28.39	25.2	52.5	54	24	23.7	81	43.4	46	NW	3	N	6	....	.....	1 s., 0	0	
14	28.40	28.30	23.2	54.8	58	22	20.8	68	43.2	36	N	1	SE	12	....	.....	0	0	
15	28.39	28.29	26.0	57.8	62	25	24.0	75	48.3	49	E	10	SE	20	....	.....	0	0	
16	28.35	28.17	34.2	61.6	66	33	31.2	72	46.5	29	SE	9	S	23	....	.....	3 s., 0	8 s., s	
17	28.11	27.93	44.0	67.8	70	42	40.2	72	50.3	26	S	6	NE	5	....	.....	0	10 s., 0	
18	27.90	28.00	47.3	49.0	60	45	45.0	84	49.0	100	E	14	E	7	....	.22	10 s., c	10 n., 0	
19	28.19	28.25	38.0	61.7	63	38	36.5	87	50.2	44	N	12	N	4	.02	.....	10 s., 0	0	
20	28.37	28.42	36.0	56.8	63	32	34.0	79	48.2	53	N	2	E	8	....	T.	3 s., 0	3 s., 0	
21	28.55	28.45	35.6	61.4	65	34	34.1	87	50.5	45	E	6	SE	8	....	.....	0	3 s., 0	
22	28.40	28.15	40.0	67.4	71	39	37.5	80	50.9	30	E	6	S	12	....	.....	0	7 s., 0	
23	28.04	28.05	49.0	48.7	67	40	43.4	63	40.6	49	E	2	NW	15	.01	.06	10 s., 0	7 s., nw	⊓
24	28.41	28.55	33.3	46.7	50	33	31.6	88	39.8	54	N	10	NE	6	.02	.....	10 s. cu., ne	0	
25	28.57	28.28	30.6	59.8	61	27	28.0	73	47.2	37	NE	2	S	12	....	.....	0	2 s., 0	—
26	28.07	27.80	39.2	73.4	77	39	36.2	76	54.4	26	E	9	S	15	....	.....	0	0	
27	27.72	28.04	50.3	46.4	58	38	47.3	81	41.9	69	S	2	N	24	....	T.	10 s., 0	10 s., n	
28	28.42	28.52	25.2	31.4	38	24	22.4	66	26.5	49	N	19	N	14	....	.....	10 s., n	10 s., 0	
29	28.65	28.56	21.0	35.6	37	20	18.2	60	30.1	51	N	12	N	15	T.	.....	10 s., 0	0	*
30	28.48	28.30	24.2	49.0	54	16	22.0	71	38.5	35	N	2	NE	11	....	.....	0	1 s., 0	
Mn.	28.19	28.16	34.3	51.6	56.8	31.2	31.8	75.7	42.9	50.8	N	8.2	{n., nw}	12.3	.15	.46	5.0 s., n	4.3 s., n., nw	

BISMARCK, N. DAK.

[φ=46° 47′ N; λ=100° 38′ W; barometer above sea, 1,674 feet; gravity correction applied, −.02.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.15	28.25	35.2	43.0	52	33	31.2	64	40.0	78	E	10	NE	12	....	T.	10 s., 0	5 s., 0	
2	28.38	28.27	25.7	50.0	55	24	23.2	69	43.1	56	N	7	NW	10	....	....	2 s., 0	8 s., nw	
3	28.20	28.13	36.2	56.4	60	33	32.3	66	46.5	45	NW	5	N	18	....	....	10 s., nw	0	
4	28.07	28.07	45.0	61.7	67	35	39.0	58	48.2	35	SW	6	N	18	....	....	4 s., 0	1 s., 0	
5	28.28	28.31	33.8	61.7	62	30	32.2	84	46.0	26	NE	1	NE	5	....	....	1 s., 0	1 cu., ne	
6	28.42	28.30	41.2	68.7	70	36	37.0	68	51.2	27	E	2	SW	14	....	....	0	0	
7	28.22	27.95	50.0	72.8	75	46	42.0	50	54.7	29	S	22	S	30	....	....	0	0	
8	28.08	28.01	43.7	58.0	58	43	42.5	89	47.5	45	NW	3	W	8	0.11	....	5 s., 0	9 s., 0	
9	28.15	28.12	42.3	61.0	62	40	37.8	66	45.5	26	NW	9	NW	9	....	....	1 s., 0	10 s., 0	
10	28.25	28.19	42.7	61.4	64	38	38.7	66	49.0	38	E	3	SE	14	....	....	8 s., 0	4 s., 0	
11	28.35	28.34	42.3	62.5	64	38	38.0	68	49.0	35	E	4	E	8	....	....	3 s., 0	0	
12	28.45	28.42	37.2	70.4	72	32	33.7	70	54.6	34	SE	1	S	8	....	....	0	0	
13	28.47	28.29	47.2	73.7	77	45	43.7	76	56.8	34	SE	7	S	15	....	....	0	0	
14	28.17	27.95	54.2	81.0	86	51	52.8	92	61.5	32	SE	9	S	23	....	....	4 s. cu., se	0	
15	28.03	28.00	59.2	66.5	75	56	53.7	70	50.6	30	S	2	N	12	....	....	2 s., 0	10 s., n	
16	27.92	27.68	56.3	81.4	86	50	48.0	54	65.5	42	E	12	S	36	....	....	10 s. cu., e	9 s., s	
17	27.78	27.72	61.2	73.8	76	58	58.7	86	64.0	58	SE	9	SE	14	T.	....	9 s. cu., se	3 s., 0	
18	27.68	27.75	58.9	53.2	63	44	55.5	86	44.7	50	E	9	NW	20	.85	0.01	10 s., e	3 s., nw	
19	27.82	27.85	38.0	57.7	62	36	37.0	91	46.2	40	NW	1	W	24	....	T.	8 s., 0	5 s., w	
20	28.05	28.04	42.3	65.0	65	39	39.8	77	52.0	40	W	2	NW	4	....	....	5 s., 0	1 s., 0	
21	28.06	27.75	50.3	59.0	68	48	47.8	84	59.0	100	NE	9	E	30	.05	.42	10 n., ne	10 n., e	
22	27.60	27.87	56.3	54.9	58	46	55.9	98	48.0	60	SE	31	SW	16	.86	.20	10 n., se	3 s., 0	
23	27.88	27.95	44.3	52.0	54	42	40.3	71	45.5	60	SW	27	W	30	....	....	4 s., sw	7 cu., w	
24	28.13	28.14	43.3	57.0	58	42	40.0	76	49.0	56	W	12	NW	12	....	....	10 s. cu., w	9 s., nw	
25	28.18	28.08	44.0	66.4	68	42	42.0	85	53.3	41	NW	2	S	20	....	....	Few s., 0	6 s. cu., s	
26	28.00	27.96	49.2	66.4	67	48	48.0	92	56.2	53	SW	2	N	7	.20	....	8 s., 0	7 cu., 0	
27	28.03	28.09	48.3	64.5	67	43	45.3	80	55.0	54	N	1	N	8	....	....	6 cu., w	0	
28	28.24	28.25	51.2	70.0	71	43	47.7	78	57.0	44	N	4	SE	8	....	....	7 s., 0	3 s., 0	
29	28.38	28.46	57.8	66.4	68	57	55.0	84	56.9	55	SW	4	N	6	....	....	10 s., 0	10 s. cu., 0	
30	28.60	28.54	49.3	65.0	73	47	46.8	83	57.4	64	N	2	E	14	....	....	1 s., 0	6 s. cu., e	
31	28.63	28.57	49.3	62.2	66	48	47.3	87	49.7	39	E	4	E	12	.50	....	8 s., 0	3 s., 0	
Mn.	28.15	28.11	46.3	63.3	66.7	42.4	42.9	76.1	51.7	46.0	E	7.2	n / s	15.0	2.57	.63	5.0 s., se	4.3 s., nw	

JUNE, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.60	28.50	46.2	67.8	69	42	44.2	86	54.2	41	E	2	SE	15	....	....	3 s., 0	3 s., 0	
2	28.55	28.45	49.0	70.1	73	40	46.5	83	56.6	42	E	1	SE	11	....	....	0	3 cu., 0	
3	28.43	28.35	56.0	70.0	71	55	53.5	85	60.0	56	SE	13	S	12	....	....	3 s., 0	1 s., 0	
4	28.38	28.32	59.3	77.2	81	53	57.1	88	64.1	49	SE	6	S	6	....	....	Few s., 0	2 cu., 0	
5	28.45	28.42	61.7	73.0	80	58	58.2	81	64.0	61	SW	3	NE	5	....	....	1 s., 0	10 s., 0	
6	28.48	28.30	59.3	81.9	83	58	56.8	86	66.0	43	E	5	NW	10	0.12	....	9 s., 0	1 cu., 0	
7	28.44	28.34	59.0	75.6	78	51	52.0	82	59.7	38	N	3	NW	7	....	....	6 s., 0	3 cu., 0	
8	28.35	28.38	55.2	59.0	64	52	53.2	88	53.0	68	NW	10	NW	12	.12	....	3 s. cu., nw	10 s. cu., nw	
9	28.44	28.50	47.2	49.2	55	44	45.0	85	47.1	87	N	6	N	3	.10	0.23	10 s. cu., n	10 n., 0	
10	28.69	28.60	41.2	62.0	62	38	39.7	88	51.9	50	N	2	W	2	T.	....	9 s., 0	0	
11	28.58	28.32	48.3	75.0	77	43	44.8	76	59.5	39	S	12	S	11	....	....	0	0	
12	28.31	28.14	53.3	81.0	84	50	49.0	74	61.8	33	SE	6	SE	8	....	....	0	0	
13	28.17	28.10	57.3	81.0	84	55	52.3	72	62.0	33	E	8	NE	6	....	....	0	3 s. cu., 0	
14	28.16	28.10	58.0	77.2	81	55	54.0	77	61.6	41	E	9	E	9	....	....	6 s., 0	8 s. cu., 0	
15	28.31	28.38	52.8	66.7	69	52	51.2	90	54.2	43	NE	5	NE	8	.03	....	10 s., 0	1 cu., 0	
16	28.45	28.28	50.7	76.4	77	43	47.7	81	59.0	34	0	0	S	8	....	....	0	0	
17	28.20	28.01	60.0	90.0	92	54	52.7	62	67.0	29	SE	3	SE	2	....	....	Few cu., 0	4 s. cu., 0	
18	28.16	28.09	58.3	71.4	72	54	53.3	72	60.5	53	E	6	SE	10	....	T.	8 s., 0	10 s. cu., 0	
19	28.12	28.14	54.0	62.2	72	53	51.5	85	55.7	66	E	5	N	20	.12	....	8 s., e	6 s. cu., n	
20	28.22	28.16	54.2	68.0	71	54	52.0	87	53.5	37	N	14	NE	11	....	....	7 s. cu., nw	0	
21	28.21	28.20	52.2	68.0	70	49	48.5	77	54.0	39	N	6	N	10	....	....	10 s., 0	3 cu., 0	
22	28.24	28.10	50.0	73.7	75	47	46.3	76	56.1	32	N	2	E	10	....	....	2 cu., n	0	
23	28.10	28.00	53.2	62.0	79	49	47.5	66	61.0	94	E	10	SW	6	....	.20	3 ci. s., n	10 n., sw	
24	28.07	28.18	57.7	68.2	69	58	57.2	97	58.6	57	W	9	NW	8	.10	.03	10 s., w	2 s., 0	
25	28.26	28.19	57.0	79.7	80	52	54.0	88	67.6	54	NW	2	S	4	....	....	2 s., 0	5 s. cu., 0	
26	28.23	28.07	64.5	81.4	85	59	60.5	80	66.0	45	S	4	S	12	....	....	5 a. s., w	9 s. cu., sw	
27	28.08	28.10	61.4	75.0	78	61	58.8	86	60.0	41	NW	20	NW	10	....	....	10 s., nw	6 s. cu., nw	
28	28.02	27.91	66.0	78.9	87	62	57.5	60	64.4	45	SE	8	N	18	....	....	4 cu., sw	8 s. cu., n	
29	28.01	27.95	59.0	78.6	79	58	54.5	75	60.1	33	NW	6	E	7	T.	....	1 s., 0	8 s. cu., 0	
30	27.89	27.93	58.0	73.0	73	56	57.0	94	61.0	50	SE	6	NW	18	.39	....	8 s., 0	0	
Mn.	28.29	28.22	55.2	72.4	75.7	51.8	51.9	80.7	59.3	47.8	E	6.4	s. / (nw)	9.3	.98	.46	4.6 s.; n., nw	4.2 s. cu., sw, n, nw	

BISMARCK, N. DAK.

[φ=46° 47′ N; λ=100° 38′ W; barometer above sea, 1,674 feet: gravity correction applied, −.02.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.05	27.89	54.0	78.6	79	54	52.5	91	64.0	45	NW	6	SW	6			10 s., 0	2 s., 0	
2	27.85	27.89	58.0	67.7	71	55	57.5	95	57.8	56	E	22	W	22	0.43	0.74	10 n., e	3 s., w	
3	28.05	28.16	56.8	67.9	70	53	50.6	65	57.8	55	SW	22	NW	12			1 s., 0	8 s., nw	
4	28.20	28.14	53.2	70.8	71	53	51.7	91	58.2	47	NW	8	NW	8			9 s., 0	2 cu., 0	
5	28.18	27.96	54.5	83.0	87	50	51.3	81	68.0	46	E	8	SE	4			6 s., 0	3 s., 0	
6	27.90	27.83	64.8	94.9	95	64	60.8	80	72.0	32	E	9	SW	2			8 s., 0	0	
7	27.80	28.06	72.3	78.0	80	59	65.0	68	59.5	32	S	8	W	23			8 s., 0	1 s., 0	
8	28.33	28.23	53.5	77.2	77	48	50.0	78	59.2	33	NW	2	S	7			1 s., 0	1 cu., s	
9	28.21	28.14	62.0	78.7	80	57	57.5	77	64.1	45	SE	4	W	4	.22		Few cu., se	4 cu., 0	
10	28.26	28.25	57.0	67.0	78	51	54.0	83	60.0	67	NE	4	E	7		.60	8 cu., sw	2 s., 0	
11	28.30	28.29	56.2	72.3	73	52	54.0	87	62.4	57	NW	14	W	12		T.	7 s., cu., nw	0	
12	28.42	28.35	54.0	74.0	74	48	51.0	82	57.0	34	N	1	NW	7			0	0	
13	28.40	28.23	53.5	75.9	78	47	49.0	73	58.8	35	E	7	SE	16			3 s., 0	1 s., 0	
14	28.27	28.17	55.2	77.8	78	52	51.5	78	66.2	55	SE	9	SE	14			10 s., 0	3 s., 0	
15	28.21	28.14	59.2	82.7	84	56	56.0	82	61.8	29	E	2	SW	4			8 s., 0	2 cu., 0	
16	28.20	28.15	59.0	79.0	81	57	53.0	68	68.0	57	N	6	NW	2			0	10 s., 0	
17	28.17	28.15	54.3	72.5	74	53	50.8	79	59.0	44	N	5	N	16			1 cl., w	5 s. cu., n	
18	28.26	28.24	57.0	76.4	78	52	54.3	84	59.8	37	N	8	N	14			0	0	
19	28.30	28.14	53.7	84.4	88	48	50.7	82	63.3	30	N	2	SE	11			0	1 cl., 0	
20	28.10	28.15	68.8	79.0	81	61	61.0	65	58.5	27	S	4	N	14	T.		2 s., 0	0	
21	28.25	28.18	57.2	86.0	87	49	53.0	76	64.0	29	N	1	NW	5			0	0	
22	28.19	28.21	70.7	87.0	90	64	62.7	64	70.0	42	E	6	SE	12			2 s., 0	4 cu., n	
23	28.35	28.18	67.2	86.9	89	66	63.7	83	66.8	34	SE	8	S	28			0	3 s., 0	
24	28.10	28.09	69.3	89.9	99	67	66.0	84	74.0	47	SE	12	N	19	.02		8 s., 0	1 s., 0	
25	28.36	28.35	62.0	76.0	78	62	61.0	94	66.0	59	NE	8	NE	10			10 s., 0	9 s., ne	
26	28.38	28.20	63.2	86.1	88	63	60.7	87	73.2	54	E	8	S	11	T.		6 s., 0	2 cu., 0	
27	28.16	28.05	70.3	86.0	90	69	69.8	98	69.0	42	NE	4	NW	10		.14	10 s., 0	8 s., 0	
28	28.12	28.05	64.0	77.0	81	64	58.3	72	59.5	31	N	8	NW	20			8 s. cu., n	0	
29	28.23	28.29	52.7	68.5	69	53	49.9	83	56.0	45	N	16	N	10	.03		8 s. cu., n	2 cu., 0	
30	28.45	28.37	45.0	68.8	69	40	42.5	82	53.2	34	NE	4	E	10			0	0	
31	28.39	28.28	48.2	65.9	68	46	44.0	72	53.0	41	E	10	SE	19			1 s., 0	10 s., 0	
Mn	28.21	28.15	58.9	77.9	80.2	55.3	55.3	80.1	62.6	42.6	NE	7.6	NW	11.6	.70	1.48	4.6 s., n	2.8 s., n	

AUGUST, 1903.

1	28.30	28.30	51.0	53.0	56	50	50.5	97	50.0	82	E	12	E	12	0.69	0.26	10 n., e	10 s., 0	
2	28.38	28.38	49.9	68.1	68	49	48.1	88	62.0	72	N	3	SE	7			10 s., 0	0	
3	28.34	28.13	54.0	80.2	81	54	52.0	88	71.3	64	E	9	SE	18			8 s. cu., e	4 cu., se	
4	28.06	28.10	66.2	78.8	81	66	63.0	84	63.9	44	W	12	NW	8	.15		9 s., 0	0	
5	28.20	28.31	54.7	68.0	74	55	49.8	71	59.3	61	NW	8	NW	12			0	5 s., 0	
6	28.44	28.36	52.0	76.2	76	52	50.5	91	66.1	59	N	4	NW	2	.09		0	0	
7	28.32	28.21	59.0	88.9	79	57	55.3	80	64.8	86	E	2	E	5		.17	9 s., 0	9 s. cu., 0	
8	28.28	28.14	55.4	75.0	80	55	53.1	86	65.5	61	NW	3	W	3			Lt. haze, 0	9 s. cu., 0	
9	28.13	28.22	55.3	60.0	62	49	53.3	88	51.0	53	N	8	N	12			2 s., 0	0	
10	28.37	28.35	41.3	65.2	66	41	39.6	87	57.6	64	N	10	NE	6			0	6 s. cu., 0	
11	28.42	28.28	46.2	68.0	69	46	44.7	89	57.0	51	E	8	SE	15			7 s., 0	8 s. cu., se	
12	28.25	28.14	55.2	69.0	72	55	53.9	92	64.5	79	SE	9	S	6	.23	.03	9 s., 0	9 s., 0	
13	28.17	28.10	52.3	73.8	79	52	51.3	91	70.2	84	S	3	S	5	.01		5 cu., sw	10 s., s	
14	28.21	28.22	58.0	80.7	87	58	53.8	76	67.6	51	NW	8	S	5			4 s., 0	0	
15	28.29	28.21	58.0	80.0	84	55	55.0	83	66.5	49	E	7	SE	9			0	10 s., 0	
16	28.27	28.20	62.2	88.0	90	62	58.2	79	72.0	46	E	7	S	6			1 s., 0	0	
17	28.19	28.10	65.3	83.6	95	65	62.0	84	67.7	45	SE	4	NE	8			0	3 cu., 0	
18	28.30	28.28	57.6	78.3	80	57	54.6	83	58.4	28	N	4	N	12			Few s., 0	0	
19	28.36	28.22	48.0	81.0	82	46	45.5	83	63.0	36	N	4	SW	9			0	0	
20	28.06	27.88	63.8	90.0	91	63	55.8	61	70.0	37	SE	9	NW	6			7 s., 0	7 s. cu., 0	
21	28.05	28.00	56.8	85.0	88	56	51.4	70	69.2	44	NW	4	W	2			1 s., 0	10 s., 0	
22	28.15	28.08	55.0	68.0	77	55	52.0	82	56.0	51	E	9	NE	18			4 s., 0	2 s. cu., ne	
23	28.07	27.97	54.0	75.5	76	54	52.5	91	66.0	61	E	18	E	14	.25		10 s., e	10 s., e	
24	27.98	28.08	54.3	72.0	73	54	53.8	97	60.0	49	E	2	N	13	2.30		10 s., 0	0	
25	28.23	28.22	52.2	74.2	76	51	50.7	91	62.2	51	N	3	SE	12			3 s. cu., w	9 s. cu., sw	
26	28.25	28.12	61.2	64.3	69	60	58.6	86	58.0	69	SE	14	E	27			10 s., se	10 s., 0	
27	28.10	28.10	55.0	55.2	61	53	54.3	96	54.0	93	SE	23	SE	9	.09	1.05	10 s., se	10 s., se	
28	28.18	28.37	52.0	57.2	57	51	50.4	90	50.3	61	N	17	N	10	.28	.01	10 n., n	9 s., n	
29	28.44	28.38	48.2	56.0	58	47	48.0	99	54.0	77	NE	4	SE	6			10 s., 0	10 s., 0	
30	28.38	28.28	49.3	70.0	73	49	47.8	90	63.6	70	SE	4	S	7			0	0	
31	28.25	28.03	55.0	85.0	88	55	53.8	93	71.0	50	SE	8	SW	10			0	0	
Mn	28.24	28.19	54.8	72.6	75.5	53.9	52.4	86.1	62.4	59.0	E	7.7	SE	9.5	4.07	1.52	4.8 s., e	5.2 s., se	

BISMARCK, N. DAK.

[φ=46° 47′ N; λ=100° 38′ W; barometer above sea, 1,674 feet; gravity correction applied, −.02.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.27	28.25	52.0	69.6	72	52	49.0	81	57.1	46	N	14	E	6	.....	.....	Few cu., n	1 s., 0	
2	28.18	28.12	51.2	72.8	78	46	48.5	83	58.4	41	NE	12	NE	6	.....	.....	8 s. cu., w	5 s., 0	
3	28.25	28.39	54.0	58.2	61	51	51.5	85	49.7	54	N	6	N	4	.....	.....	10 s. cu., w	8 s. cu., n	
4	28.50	28.39	38.5	63.0	67	38	36.0	80	55.5	62	N	2	SW	1	.....	.....	0	8 s. cu., 0	
5	28.42	28.24	45.0	63.4	67	45	43.5	89	54.5	56	E	5	SE	11	.....	.....	8 s., 0	10 s., 0	
6	28.02	27.84	56.2	58.9	62	56	55.7	97	57.8	94	SE	20	E	10	0.12	0.02	10 n., se.	10 s., 0	
7	27.80	27.78	54.8	66.0	71	55	54.0	95	57.5	90	N	6	NW	3	.17	.....	8 s., 0.	3 s., 0	
8	27.88	28.04	50.8	55.4	69	51	45.8	69	50.0	68	NW	9	NW	15	.....	.....	4 s., 0	9 s., nw	
9	28.23	28.19	45.0	58.7	60	45	42.6	83	50.1	55	W	10	NW	11	.....	.....	Few s., w	3 s., 0	
10	28.05	28.00	44.0	55.9	64	44	42.5	89	52.0	77	E	5	NE	5	.....	T.	10 s., 0	10 n., ne	
11	28.23	28.25	43.3	43.3	48	42	41.8	88	42.5	94	NE	10	NE	10	.03	.19	10 s., 0	10 n., ne	
12	27.82	27.92	36.0	34.0	42	32	35.5	95	33.0	90	N	27	NW	30	.77	.67	10 n., n	10 n., nw	*
13	28.29	28.43	31.3	34.5	36	31	30.3	99	33.0	86	N	8	N	8	T.	T.	10 s., 0	10 s., n	
14	28.50	28.46	28.0	41.8	44	28	26.2	86	36.3	59	N	4	NE	7	.....	.....	9 s., 0	8 s., 0	
15	28.52	28.45	35.3	46.7	49	35	34.2	91	43.1	79	N	2	N	3	T.	T.	10 n., n	8 s. cu., n	
16	28.44	28.52	37.0	42.9	45	35	36.3	94	39.8	78	NW	8	N	4	.07	T.	10 s., 0	6 s. cu., 0	*
17	28.50	28.25	29.8	56.6	60	30	28.8	89	49.1	59	N	1	SW	7	.....	.....	0	3 s., 0	
18	28.15	28.00	46.8	67.8	78	43	43.2	78	56.2	49	SW	5	SW	8	.....	.....	0	1 s., 0	
19	27.98	27.93	46.0	67.7	79	46	42.5	75	58.1	57	SW	2	W	3	.....	.....	8 s., 0	0	
20	28.23	28.31	50.9	62.9	67	51	47.6	79	54.0	56	NW	4	E	4	.....	.....	9 s., 0	0	
21	28.36	28.16	45.0	74.4	80	45	41.5	75	64.8	58	E	6	SE	10	.....	.....	Few s., 0	0	
22	28.10	28.45	53.2	50.2	67	40	50.0	81	43.3	57	NW	2	N	24	.....	.....	7 s., 0	9 s., n	
23	28.68	28.43	32.2	50.4	54	31	30.2	79	44.3	62	NE	5	SE	10	.....	.....	5 s., 0	0	
24	28.14	27.91	42.2	69.1	77	42	40.7	88	58.0	51	S	7	NW	3	.....	.....	8 s., 0	8 s., 0	
25	27.72	27.90	52.7	50.0	68	47	50.1	85	46.6	77	NW	6	NW	12	.....	.01	3 s., nw	10 n., nw	
26	28.18	28.26	37.7	49.0	51	37	35.8	83	43.0	61	NW	6	NW	6	.29	.02	2 s., 0	10 s., nw	
27	28.28	28.21	37.9	62.2	63	37	35.4	79	56.1	69	NW	5	SE	6	.....	.....	3 s., 0	0	
28	28.21	28.02	41.0	68.9	78	41	39.6	89	57.0	47	E	6	SE	10	.....	.....	0	Few s., 0	
29	27.88	27.96	56.3	64.0	78	55	52.6	79	52.0	43	SE	10	N	24	.....	.....	10 s., 0	10 s., n	
30	28.22	28.31	42.2	56.7	62	42	39.0	76	48.2	53	N	14	NE	6	.....	.....	5 s., 0	0	
Mn	28.20	28.18	43.9	57.2	63.2	42.4	41.7	84.3	50.0	63.3	N	7.6	NW	8.9	1.45	.91	5.9 s., nw	5.7 s., n	

OCTOBER, 1903.

1	28.45	28.30	42.0	56.0	60	41	38.0	70	45.5	43	E	5	SE	14	.....	T.	10 s., 0	10 s., se	
2	28.06	27.87	56.3	61.4	74	53	54.3	88	49.9	43	SE	18	NW	24	.....	0.07	10 s., se	5 s., nw	
3	27.98	28.12	49.2	46.8	54	40	46.5	82	39.2	50	NW	6	NW	10	T.	.....	10 s., 0	Few s., 0	
4	28.30	28.26	33.0	47.6	52	33	32.5	95	40.1	51	NW	7	W	5	0.02	.....	Few s., 0	0	
5	28.15	27.87	37.3	59.2	64	36	34.8	79	51.5	60	SE	9	SE	3	.....	.....	1 s., 0	10 s., 0	
6	27.54	27.50	42.2	52.8	65	42	41.0	91	46.8	64	E	7	NW	21	.....	T.	2 s., 0	9 n., nw	
7	27.68	28.03	43.3	46.3	52	42	36.0	48	40.0	58	NW	42	NW	22	T.	.....	2 s., nw	1 s., 0	
8	28.31	28.40	38.3	46.8	56	32	30.5	78	39.0	48	NW	6	NW	6	.....	.....	0	1 s., 0	
9	28.43	28.18	30.3	58.0	65	28	28.0	75	44.3	30	E	8	SE	17	.....	.....	Few s., 0	10 s., 0	
10	27.87	27.93	50.8	66.0	80	51	44.6	62	52.0	37	SE	9	NW	10	.....	.....	3 s., 0	4 s., 0	
11	28.11	28.19	47.8	49.7	54	48	45.0	81	49.2	96	NW	1	SE	2	.....	.13	10 s., nw	10 s., 0	
12	28.31	28.45	44.0	40.8	56	41	43.0	93	45.0	69	NW	17	N	8	.05	.....	10 s., nw	1 s., 0	
13	28.52	28.33	28.0	52.2	62	28	26.5	82	43.7	49	N	3	S	7	.....	.....	0	0	
14	28.13	28.21	39.2	56.0	63	39	38.2	92	44.5	38	SE	8	N	26	.....	.....	0	9 s., n	
15	28.40	28.25	33.6	44.0	52	33	31.9	83	36.0	44	N	14	N	4	.....	.....	Few s., 0	6 s., 0	
16	27.97	28.32	37.7	45.0	54	36	35.0	77	37.0	45	S	2	N	11	.....	.....	10 s. cu., w	Few s., 0	
17	28.52	28.30	23.0	50.7	57	23	21.8	84	42.5	50	N	3	SW	7	.....	.....	0	0	
18	28.07	28.10	37.0	60.3	70	37	35.0	85	48.8	42	0	0	N	2	.....	.....	8 s., 0	4 s., 0	
19	28.00	28.21	54.0	57.8	71	44	42.0	33	43.0	25	NW	20	N	9	.....	.....	0	2 cl., nw	
20	28.23	28.38	36.7	60.3	61	36	33.3	70	40.3	39	N	6	N	6	.....	.....	1 s., 0	5 s., 0	
21	28.20	28.34	37.3	47.0	71	31	34.3	74	39.3	49	SE	8	NW	19	.....	.....	3 s., 0	1 s., nw	
22	28.62	28.55	31.0	45.5	54	30	29.0	79	38.5	52	NW	9	NW	8	.....	.....	6 s., 0	9 s., 0	
23	28.52	28.35	28.2	55.0	64	28	26.5	80	45.0	44	N	3	SW	4	.....	.....	3 s., 0	1 cl., 0	
24	28.24	28.32	42.8	54.9	70	40	37.0	57	45.0	44	SW	2	NE	8	.....	.....	1 s., 0	3 s., 0	
25	28.45	28.62	30.0	47.8	61	30	29.0	89	39.3	45	NE	2	E	10	.....	.....	3 s., 0	Few s., 0	
26	28.68	28.49	27.8	51.4	63	28	26.0	79	44.5	57	E	14	SE	10	.....	.....	1 s., 0	0	
27	28.46	28.37	28.0	52.7	62	27	26.0	77	45.2	56	0	0	S	3	.....	.....	1 s., 0	0	
28	28.26	28.04	31.0	58.4	74	30	28.5	74	48.5	47	SE	4	SW	4	.....	.....	0	0	
29	27.95	28.00	38.8	54.2	66	38	36.0	77	42.3	33	SE	6	N	10	.....	.....	1 s., 0	1 s., 0	
30	28.26	28.27	36.0	48.6	59	36	32.5	69	41.1	52	NW	10	NW	1	.....	.....	3 s., nw	0	
31	28.31	28.29	31.3	52.3	65	30	28.3	69	43.4	46	NW	3	SW	5	.....	.....	0	0	
Mn	28.23	28.22	37.4	52.4	62.3	35.8	34.5	76.3	43.6	48.6	NW	8.1	NW	9.5	.07	.20	3.2 s., nw	3.3 s., nw	

BISMARCK, N. DAK.

[φ=46° 47′ N; λ=100° 38′ W; barometer above sea, 1,674 feet; gravity correction applied, −.02.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.37	28.32	31.8	55.4	69	31	29.0	71	46.5	49	SW	3	SW	3			0	10 s. cu., 0	◁
2	28.37	28.35	33.0	56.9	73	32	31.0	80	47.3	49	0	0	SW	4			0	0	○
3	28.40	28.35	36.0	54.8	69	36	34.3	85	44.2	42	SW	2	SW	2			4 s., 0	0	
4	28.53	28.58	34.2	33.3	49	24	32.7	86	29.8	66	N	18	NE	8			2 s., n	0	
5	28.53	28.38	16.6	34.3	44	17	15.2	77	30.2	62	E	9	SE	10			3 s., 0	0	
6	28.22	28.01	28.0	49.2	54	27	25.8	71	40.1	43	SE	14	SE	9			7 s., 0	9 s., 0	
7	27.98	27.95	31.5	54.6	67	30	31.0	95	43.1	37	SE	3	SE	5			7 s., 0	0	
8	27.84	28.07	35.0	42.0	45	29	33.0	82	30.5	17	E	3	N	20			6 s., 0	10 s., 0	
9	28.25	27.97	32.2	34.6	43	30	31.0	88	28.1	41	N	6	S	6	0.01		10 s., 0	10 s., 0	*
10	27.69	27.80	31.3	34.2	41	29	29.3	79	30.3	62	S	4	NW	14			10 s., 0	9 s., nw	
11	27.80	27.65	22.7	31.4	37	21	21.1	78	28.0	64	NW	9	NW	2			Few s., 0	3 s., 0	
12	27.84	28.04	23.0	23.0	30	17	20.6	68	19.6	53	N	10	NW	7			0	0	
13	28.18	28.35	13.0	17.2	23	10	12.4	88	15.1	67	NW	9	NW	11			3 s., 0	0	
14	28.42	28.26	8.2	17.2	20	8	7.2	77	15.3	67	NW	8	SE	10			8 s. cu., nw	10 s., 0	
15	28.07	28.38	22.4	17.0	24	13	20.0	67	14.6	61	E	3	N	15			10 s., 0	6 s., n	
16	28.48	28.59	5.0	4.0	13	1	4.2	79	2.6	62	NW	8	NW	22	T.		6 s., 0	0	*
17	28.66	28.64	1.8	9.0	11	− 1	1.0	76	7.4	64	NW	21	NW	26			9 s., nw	0	
18	28.71	28.62	0.0	11.2	19	− 1	− 1.0	68	10.0	75	NW	10	NW	7			0	0	
19	28.65	28.46	− 6.8	18.2	26	− 8	− 7.4	73	16.0	65	NW	1	SE	8			0	2 s., 0	
20	28.29	28.19	14.0	35.3	37	13	12.2	67	30.2	55	SE	7	S	3		T.	0	10 s., 0	
21	28.24	28.40	31.3	20.0	34	17	29.0	76	16.5	49	NW	16	N	5	T.		2 s., 0	10 s., 0	
22	28.18	28.15	21.7	26.3	43	12	19.7	72	20.2	29	SE	6	NW	24		T.	10 s., 0	0	*
23	28.41	28.40	9.7	14.0	19	8	8.5	74	11.8	60	NW	3	NW	2		T.	10 s., 0	0	*
24	28.47	28.45	6.0	21.3	28	5	4.6	65	18.8	64	E	6	SE	9		T.	2 s., 0	10 n., 0	*
25	28.62	28.62	10.6	21.4	28	0	9.2	71	18.9	64	NE	3	S	5	.12		10 s., 0	10 s., 0	*
26	28.44	28.24	17.3	25.0	30	10	15.5	72	21.0	50	S	12	S	2			10 s., 0	10 s., 0	
27	28.23	28.02	27.3	46.3	57	27	24.9	72	39.3	53	0	0	NW	14			10 s., 0	0	
28	28.34	28.39	31.4	32.2	36	26	29.8	83	30.1	79	N	17	N	15		T.	10 s., 0	0	*
29	28.50	28.48	19.4	17.0	26	12	18.2	82	14.8	64	N	12	N	3			10 s., 0	0	*
30	28.24	28.30	15.5	14.0	22	8	14.7	86	11.6	56	SE	10	SE	3	T.	0.10	10 n., 0	0	*
Mn	28.30	28.28	20.1	29.0	36.9	16.1	18.6	76.9	24.4	55.6	NW	7.8	NW	9.1	.13	.10	5.6 s., nw	4.0 s., n., nw	

DECEMBER, 1903.

1	28.29	28.02	13.0	24.8	27	3	12.4	88	19.9	38	SE	3	S	7			10 s., 0	10 s., 0	
2	27.73	27.67	30.0	30.0	42	22	27.5	78	23.5	32	S	2	NW	36	T.	0.10	10 s., 0	10 n., 0	△*
3	28.08	28.33	18.5	12.5	23	10	16.3	66	10.0	50	N	32	N	24	0.26	.08	10 s., 0	10 s., 0	*
4	28.53	28.55	2.7	3.0	10	− 3	1.5	66	1.8	66	NW	16	NW	5			3 s., 0	0	
5	28.47	28.29	− 1.2	23.2	27	− 1	− 2.0	73	18.7	41	NW	3	W	1			0	0	
6	28.17	28.25	29.8	29.0	33	15	26.3	62	25.0	56	W	22	NW	11			8 s., w	0	
7	28.35	28.34	19.0	16.4	28	7	17.6	78	14.0	60	NW	3	NW	9		.06	10 s., 0	10 n., 0	
8	28.50	27.84	− 7.0	36.0	36	− 7	− 7.8	64	27.5	27	NW	3	NW	19	.02	.02	0	10 s., 0	*
9	28.12	28.24	23.0	7.0	34	6	20.0	60	4.8	47	N	30	N	2			10 s., n	0	*
10	27.93	28.15	29.0	19.2	29	7	27.5	83	17.6	75	N	29	N	10	.16	.02	10 n., n	10 s., 0	*
11	28.08	28.20	11.2	0.0	17	− 8	10.0	75	− 1.4	55	NW	5	N	28		T.	10 s., 0	0	*
12	28.39	28.39	−16.6	−16.2	− 8	−20	−17.0	70	−17.0	43	NW	10	NW	1			0	0	
13	28.47	28.58	−19.3	− 7.2	− 4	−21	−19.7	65	− 8.0	64	NW	12	NW	14			0	0	
14	28.70	28.68	− 5.0	− 2.0	5	− 8	− 5.8	67	− 3.0	64	NW	8	NW	1			0	0	
15	28.35	28.30	7.0	5.9	13	− 4	5.8	71	4.7	70	SE	8	E	6			10 s., 0	0	
16	28.41	28.39	4.8	15.0	15	0	4.0	79	14.0	82	E	8	SE	11			10 s., 0	10 s., 0	
17	28.16	28.01	13.8	17.0	23	13	12.4	74	15.0	67	SE	12	S	1			8 s., 0	0	
18	27.97	27.97	21.0	21.2	23	13	19.5	78	17.8	52	SW	3	N	19		.06	6 s., 0	10 n., 0	*
19	28.15	28.22	22.8	14.0	24	11	21.3	80	11.2	49	NW	17	NW	3	.02		10 s., 0	0	*
20	28.04	27.88	7.8	34.2	39	7	5.9	67	27.7	40	N	6	NW	20			9 s., 0	0	*
21	28.13	28.28	12.2	8.0	27	8	10.6	68	6.4	63	N	4	N	1		.01	10 s., 0	10 s., 0	*
22	28.22	28.14	12.0	25.6	31	8	10.8	76	20.1	33	N	3	NW	16			0	0	
23	28.27	28.30	15.2	10.2	26	10	13.0	61	8.0	53	NW	3	NW	4			0	0	
24	28.17	28.19	22.5	10.4	29	7	20.0	66	8.2	54	N	18	NW	3		T.	9 s., 0	10 n., 0	*
25	28.32	28.52	1.0	− 8.2	21	−11	− 0.2	63	− 9.2	53	N	24	N	3	.22		10 s., 0	10 s., 0	*
26	28.13	28.02	19.3	36.0	39	− 2	17.9	78	27.0	23	W	2	NW	29			4 s., 0	0	
27	28.26	28.25	28.0	25.0	35	23	25.4	70	20.5	44	NW	18	NW	3			10 s., 0	10 s., 0	
28	28.23	28.38	27.2	23.2	28	19	25.0	74	20.0	58	NW	20	NW	16	.02		8 s., nw	0	*
29	28.48	28.35	− 0.5	7.1	19	− 5	− 1.3	74	5.3	56	N	12	SE	8			0	0	
30	28.33	28.25	28.2	24.0	28	14	25.2	66	20.5	55	NW	9	E	10			10 s., 0	10 s., 0	
31	28.08	28.40	26.3	10.8	26	8	23.8	69	8.4	51	N	19	N	7			10 s., 0	10 s., 0	
Mn	28.24	28.24	12.7	14.7	24.0	3.9	11.2	71.1	11.6	52.3	NW	11.7	NW	10.6	.70	.35	6.6 s., n	4.5 s., 0	

DODGE CITY, KANS.

[φ=37° 45′ N; λ=100° 0′ W; barometer above sea, 2,509 feet; gravity correction applied, −.02.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.37	27.38	24.3	34.1	35	22	24.0	96	33.6	95	S	2	SE	3	.....	.....	1 a. s., w	10 s., se (?)	
2	27.38	27.41	27.0	29.5	39	21	26.0	89	26.0	64	NW	10	NW	13	0.01	.....	4 ci. s., nw	1 ci. s., nw	*
3	27.40	27.25	17.9	37.2	48	17	17.7	97	34.0	74	W	9	W	2	.....	.....	Few a. s., w	8 ci. s., nw	B
4	27.23	27.49	38.0	33.0	44	28	36.7	90	31.0	84	NW	12	NW	9	.04	.....	8 s., nw	0	
5	27.48	27.55	29.9	35.6	45	27	28.6	86	32.2	71	NW	12	NW	2	.....	.....	2 ci. s., nw	Few ci. s., nw	
6	27.38	27.25	31.4	56.7	70	29	29.8	84	44.0	35	W	12	NW	13	.....	.....	0	Few ci. s., nw	
7	27.59	27.70	29.8	31.0	40	17	26.0	61	25.1	40	NW	22	NW	14	.....	.....	0	Few ci., nw,	
8	27.66	27.28	16.8	37.5	51	16	16.6	97	30.3	42	W	4	SE	12	.....	.....	1 a. s., nw	10 ci., nw	B
9	27.43	27.43	22.2	28.0	32	18	21.0	84	20.5	68	N	8	NE	8	.....	.....	1 a. s., nw	9 a. cu., sw	B
10	27.28	27.26	17.0	24.0	34	14	15.6	78	21.6	70	SE	5	N	6	.....	.....	1 a. s., nw	Few a. s., sw	
11	27.46	27.55	5.6	19.3	27	5	5.0	86	16.0	53	NW	8	NW	4	T.	.....	Few s., nw	Few ci. s., w	*
12	27.72	27.65	10.0	31.3	46	9	9.2	84	27.0	57	E	2	SE	7	.....	.....	0	0	
13	27.49	27.64	19.0	39.0	45	17	18.0	85	33.8	60	NW	8	NW	9	.....	.....	0	Few s. cu., nw	
14	27.72	27.65	21.0	34.2	48	18	20.0	86	28.3	47	W	6	W	4	.....	.....	Few s., w	0	
15	27.58	27.42	17.8	38.0	53	15	16.6	82	31.8	51	W	12	S	13	.....	.....	0	2 s., sw	
16	27.29	27.31	29.8	37.7	49	27	29.6	98	33.2	64	S	4	NW	9	.....	.....	Few a. cu., ne.	4 s., ne	
17	27.50	27.54	24.0	35.3	43	22	23.5	94	31.0	63	N	13	NE	4	.....	.....	0	0	
18	27.55	27.51	17.7	29.3	44	17	17.3	94	27.0	76	SE	2	SE	6	.....	.....	0	Few a. s., s	
19	27.42	27.20	14.8	35.0	49	13	14.6	97	30.0	56	W	8	SE	6	.....	.....	0	1 a. s., nw	
20	27.35	27.53	32.0	30.5	37	20	31.9	99	27.8	72	N	20	N	7	.01	T.	10 n., n	Few s., n	*
21	27.44	27.19	15.1	39.7	49	14	14.8	95	31.9	42	W	2	S	9	.....	.....	0	9 s., sw	
22	27.32	27.20	30.7	38.8	47	26	29.0	83	34.6	67	NW	4	E	13	.....	.....	3 s. s., ne	10 s., w	
23	27.38	27.42	28.2	27.3	30	22	23.1	99	27.0	97	N	20	NW	3	.02	T.	9 n., n	1 s., nw	*
24	27.32	27.25	23.8	36.7	59	20	23.6	98	34.0	78	SW	4	S	4	.....	.....	Few a. s., sw. (?)	Few a. s., w	
25	27.10	26.94	29.2	45.6	52	27	28.0	87	40.0	62	S	3	SE	7	.....	.....	0	1 a. s., sw	
26	27.06	27.32	34.0	36.8	43	31	33.1	92	33.8	75	N	24	NE	6	.....	.....	9 s., n. (?)	Few s., 0 (?)	
27	27.19	27.21	30.9	40.7	51	25	30.5	96	37.0	72	SE	9	N	10	.....	.....	10 s., se. (?)	4 s., nw	
28	27.08	26.90	26.8	59.1	69	26	26.7	99	44.0	28	SW	3	S	13	.....	.....	10 s., sw. (?)	10 s. cu., sw	
29	27.28	27.59	26.7	32.3	65	23	25.0	80	27.7	47	NW	16	NW	9	.....	.....	3 a. s., ne	0	
30	27.66	27.39	15.2	41.3	47	15	14.8	93	32.2	35	W	8	SE	18	.....	.....	3 ci., nw	10 ci. s., nw	
31	27.18	26.98	37.8	46.5	55	29	30.5	42	38.0	46	S	14	S	20	.....	.....	10 ci. s., nw	1 s., nw	
Mn.	27.40	27.37	23.9	36.0	46.6	20.3	22.8	88.1	31.1	61.0	{W / NW}	9.1	NW	8.5	.08	T.	2.7 a. s., nw	2.9 s., nw	

FEBRUARY, 1903.

1	27.03	27.16	27.4	43.2	65	25	25.0	73	34.6	35	SW	3	NW	17	.....	.....	1 s., sw	0	
2	27.40	27.20	21.9	31.2	41	20	21.1	90	27.6	64	N	8	E	13	.....	.....	0	Few a. s., s	
3	26.96	27.12	17.0	12.0	22	12	16.8	97	11.8	96	NE	10	NW	20	0.02	T.	10 s., ne. (?)	Few s., nw	*
4	27.41	27.57	11.7	24.0	32	10	11.0	87	21.5	69	NW	15	NW	6	T.	.....	0	0	
5	27.63	27.49	14.1	33.4	45	13	13.6	92	27.0	42	E	6	SE	16	.....	.....	Few a. s., 0 (?)	1 a. s., se	
6	27.45	27.42	23.3	28.0	30	19	22.0	83	27.5	95	SE	11	E	5	T.	0.05	10 n., se	10 n., e. (?)	**
7	27.40	27.36	25.8	20.0	29	13	25.6	98	19.1	88	E	2	W	6	.04	.05	10 n., e	Few s., w	**
8	27.33	27.30	11.2	37.5	48	10	11.0	96	32.1	57	W	9	SE	8	.....	.....	0	Few a. s., sw	
9	27.33	27.34	25.9	37.7	47	24	25.5	95	34.0	70	NE	4	S	5	.....	.....	2 s., sw	9 s., s	
10	27.28	27.23	25.1	37.8	53	24	24.8	90	33.0	62	W	4	NW	10	.....	.....	1 s., nw	0	
11	27.15	27.16	30.8	35.7	62	25	28.2	74	34.0	85	SW	4	N	26	.....	.....	4 s., sw	10 s., n	
12	27.36	27.46	22.8	20.5	31	15	21.3	80	26.0	93	N	18	N	13	.....	.01	10 s., n	10 n., n	***
13	27.59	27.58	12.1	17.8	22	11	12.0	98	17.1	89	N	8	NE	6	.04	.01	10 n., n. (?)	10 s., ne	
14	27.54	27.52	17.0	20.7	23	15	16.7	85	19.1	78	NE	4	NE	10	.....	.....	10 s., ne	10 s., ne	***
15	27.56	27.57	8.1	3.6	21	− 1	8.0	98	3.3	92	N	15	N	16	.24	.26	10 n., n	10 n., n	**
16	27.51	27.38	−16.0	11.3	19	−18	−16.1	94	10.0	74	NW	7	W	4	T.	.....	2 s., nw	Few s., w	
17	27.39	27.31	− 1.4	28.2	35	− 8	− 1.5	96	27.0	87	W	4	SW	8	.....	.....	8 s., nw	0	
18	27.71	27.82	6.0	9.2	31	3	5.3	84	8.0	75	NE	17	SE	2	.....	.....	1 s., n	Few a. s., nw	
19	27.70	27.68	4.9	37.4	43	2	4.6	92	33.8	70	SW	9	0	0	.....	.....	0	0	
20	27.66	27.75	24.2	37.7	47	21	23.5	91	33.8	68	W	6	N	5	.....	.....	0	Few a. s., nw	
21	27.84	27.78	25.0	36.0	48	24	23.9	87	31.4	61	N	9	SE	8	.....	.....	Few s., n	Few a. s., nw	
22	27.69	27.59	29.8	49.0	59	28	28.2	83	39.9	45	S	10	S	3	.....	.....	9 s., sw	Few s., 0	
23	27.74	27.75	32.0	32.4	40	30	31.2	92	29.9	95	NE	17	E	8	.....	.....	10 s., ne. (?)	10 a. s., sw	
24	27.69	27.60	25.0	25.8	30	24	25.0	100	25.7	99	NE	12	NE	9	.49	.40	10 n., ne	10 n., ne	**
25	27.59	27.52	26.0	30.0	30	25	26.6	100	30.0	100	NE	12	NE	14	.29	.22	10 n., ne	10 n., ne	**
26	27.47	27.13	29.7	27.7	30	26	29.7	100	27.7	100	N	8	NW	16	.12	.37	10 n., n	10 n., nw	**
27	27.00	27.11	29.5	33.0	36	26	29.0	95	31.9	90	NW	9	NW	16	.26	.....	10 s., nw	3 s., nw	
28	27.50	27.81	13.9	12.9	28	3	13.0	84	12.0	82	NW	30	NW	9	.....	.....	Few s., nw	0	
Mn.	27.46	27.45	18.7	27.6	37.4	15.0	18.0	90.5	25.1	77.2	NE	9.7	NW	10.0	1.50	1.37	5.3 s., ne., nw	4.0 s., nw	

DODGE CITY, KANS.

[φ=37° 45′ N; λ=100° 0′ W; barometer above sea, 2,509 feet; gravity correction applied —.02.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m		8 p.m		8 a.m.		8 p.m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.77	27.58	−7.0	21.1	27	−9	−7.1	96	19.2	74	W	13	SW	4			0	Few s., sw	
2	27.49	27.39	9.2	26.8	30	7	9.1	98	26.0	91	S	10	SE	17			Few s., s	Few s., 0 (?)	
3	27.42	27.46	33.0	32.1	34	24	33.0	100	32.1	100	S	12	N	8	T.	T.	10 n., s	10 s., n	
4	27.50	27.47	28.8	31.3	32	27	28.8	100	31.0	97	N	8	N	8	T.		10 s., n	10 s., n	
5	27.50	27.40	30.8	32.9	34	30	30.8	100	32.9	100	NE	8	SE	8		T.	10 s., ne	10 n., se	
6	27.24	27.26	36.0	36.0	42	32	36.0	100	35.2	93	S	17	W	4	0.01	T.	10 s., s	9 s., sw	
7	27.40	27.58	30.1	34.0	39	27	28.7	85	32.2	84	N	9	N	4			9 s. cu., sw	0	
8	27.61	27.39	17.0	40.8	46	15	16.9	98	37.0	71	SW	2	SE	15			1 a. s., sw	1 s., w	
9	27.32	27.41	35.0	43.0	49	34	33.2	84	40.0	78	SE	11	N	8			2 s., s	Few s., s	
10	27.70	27.76	30.2	41.8	50	29	29.1	89	39.0	79	NW	9	NW	9			0	0	
11	27.75	27.62	29.0	52.1	64	27	27.9	88	43.0	48	W	4	SE	12			0	0	
12	27.54	27.42	34.8	59.0	70	34	34.0	93	48.8	48	SE	8	S	7			Few s., nw	Few s., nw	
13	27.40	27.43	38.9	47.8	72	34	37.1	86	44.9	51	SE	4	N	24			0	4 s., n	
14	27.58	27.49	28.1	36.7	37	27	28.1	100	35.8	93	NE	8	E	8		T.	10 s., ne	10 s., e (?)	
15	27.48	27.31	33.5	57.0	65	32	33.5	100	53.0	78	SE	8	SE	15			10 s., se	4 s., w	
16	27.29	27.21	52.0	66.3	73	48	51.8	99	54.5	47	S	12	SE	8			10 s., s	5 ci. s., s	
17	27.19	27.11	50.8	63.8	71	50	50.2	96	56.7	66	SE	15	SE	24			9 s., s	9 s., s	
18	27.10	27.14	53.9	60.1	70	39	53.0	95	44.0	25	SE	17	SW	13	.08	.35	2 s. cu., sw	8 a. s., sw	
19	27.44	27.58	31.1	33.9	40	26	29.3	82	29.0	56	NW	24	NW	17			10 s., nw	Few s. cu., nw	
20	27.62	27.42	20.0	42.2	45	18	19.2	89	33.2	37	NW	8	SW	7			0	Few ci. s., sw	
21	27.32	27.15	27.8	51.6	64	25	24.9	69	49.7	89	S	6	N	12			0	2 a. s., w	
22	27.31	27.44	31.0	34.0	44	27	30.0	90	28.9	54	N	22	NW	12		T.	10 s., n	10 s., nw	
23	27.53	27.54	22.7	35.0	39	21	21.0	77	27.0	32	NW	13	NW	9		T.	1 s., nw	0	
24	27.60	27.44	21.0	55.7	62	19	19.3	77	42.0	29	W	3	S	13			0	Few a. s., w	
25	27.48	27.38	36.5	58.0	66	34	34.0	80	46.4	41	S	13	S	26			Few s., s	10 ci. s., sw	
26	27.35	27.40	46.1	36.0	54	29	38.4	50	36.0	100	S	15	N	24		.14	9 s., s	10 n., n (?)	
27	27.58	27.60	25.6	40.2	43	24	25.0	93	35.0	61	N	15	N	9	.08	.01	10 n., n	Few s., n	
28	27.71	27.64	28.6	48.2	54	26	27.7	90	41.2	56	N	5	SE	12			0	1 a. s., nw	
29	27.60	27.41	29.2	52.2	59	28	29.1	99	44.1	53	SE	5	SE	16			6 ci. s., w	10 s., w	
30	27.31	27.26	36.0	61.2	68	35	34.4	86	51.0	50	SE	4	N	4			Few a. s., w	10 s., sw	
31	27.31	27.21	39.0	67.5	76	37	38.4	95	55.0	46	W	4	S	9			Few s., w	9 a. s., nw	
Mn	27.47	27.42	30.9	45.1	52.2	27.6	29.8	89.8	39.5	66.4	SE	10.1	n se	11.8	.17	.50	4.5 s., s	4.6 s., sw., w	

APRIL, 1903.

1	27.10	26.96	47.1	77.0	85	47	44.0	79	56.0	25	W	11	SW	7		T.	5 s., nw	8 s. cu., sw	
2	27.02	27.02	56.1	38.3	68	32	46.0	46	38.3	100	NW	3	N	26		0.10	9 s., sw	10 n., ne	
3	27.46	27.55	30.3	51.0	54	30	29.8	95	42.1	48	NW	8	W	5	0.23		1 s., nw	Few s. cu., w	△
4	27.50	27.18	35.2	59.7	69	34	32.4	76	45.2	31	S	8	SE	35			9 ci. s., nw	10 ci. s., w	
5	27.07	26.95	44.7	71.0	81	44	38.5	58	50.8	23	SE	21	SW	14			3 a. s., sw	1 s., sw	
6	27.31	27.26	38.7	57.8	61	38	33.0	56	43.0	27	N	13	S	6			10 ci. s., n (?)	Few a. s., w	
7	27.21	27.30	39.1	63.2	66	38	36.0	75	46.0	24	NW	2	NW	1			Few a. s., nw (?)	0	
8	27.38	27.32	39.5	72.1	78	38	34.8	64	52.1	24	W	6	S	3			0	0	
9	27.36	27.15	50.4	61.0	67	49	46.0	73	58.2	85	SE	5	SE	16		.01	10 ci. s., w	9 s., sw	
10	27.04	26.96	51.8	75.0	81	50	50.2	90	58.0	21	W	4	S	4			1 s., sw	0	
11	27.02	27.13	46.0	67.5	76	46	37.9	47	52.1	35	W	12	N	9			Few s., w	1 s., w	
12	27.24	27.35	45.0	37.9	54	32	41.0	72	37.9	100	NE	12	N	24		.04	10 s., ne	10 n., n	*
13	27.52	27.46	35.2	49.7	52	33	33.8	88	38.1	32	NW	19	N	11	.10		1 s., nw	Few s. cu., n	
14	27.50	27.38	32.0	53.0	57	29	27.8	59	46.9	57	N	10	N	5			0	0	
15	27.45	27.38	31.6	57.0	61	27	29.5	79	46.0	43	NW	2	NE	6			0	1 ci. s., sw	
16	27.49	27.36	38.9	61.8	67	36	36.2	78	51.3	50	E	2	SE	16			Few s., s	Few s., s	
17	27.38	27.06	42.1	67.0	73	41	41.7	97	54.0	43	SE	20	SE	38			6 ci. s., sw	5 ci., sw	
18	26.90	26.80	46.7	63.5	69	46	43.8	81	50.0	38	W	6	NW	12		T.	0	9 s., nw	
19	27.07	27.34	49.7	54.0	60	46	46.2	78	48.0	66	NW	30	NW	22			2 s., nw	9 s. cu., nw	
20	27.57	27.58	44.8	61.0	66	42	43.0	88	47.0	34	NW	13	N	5			3 s., n	10 ci. s., w	
21	27.62	27.53	43.3	63.0	70	41	40.0	76	52.1	48	S	2	W	5			Few ci. s., w	8 s., w	
22	27.60	27.46	43.2	65.0	70	42	40.9	84	52.8	45	E	3	SE	12	T.		Few s. cu., nw.	0	
23	27.40	27.20	48.9	78.2	86	46	43.1	64	57.8	28	SE	17	NW	5			Few s., n	1 s., nw	
24	27.29	27.50	50.4	63.9	72	47	47.4	81	48.0	29	N	22	NE	16			3 ci. s., nw	1 a. s., nw	∞p.
25	27.69	27.60	37.9	55.0	59	36	36.0	85	44.0	41	N	6	E	8			1 ci. s., n (?)	0	
26	27.51	27.27	41.2	62.8	70	36	37.8	75	50.0	41	SE	12	S	31			0	8 a. s., sw	
27	27.24	27.15	51.0	68.0	73	50	48.7	87	60.1	64	S	23	S	36			9 s., s	10 s., sw	
28	27.26	27.24	60.2	63.0	70	57	57.8	87	60.2	86	S	30	SE	22		T.	10 a. s., s	10 n., se	
29	27.43	27.63	33.1	29.0	62	28	33.1	100	28.6	96	N	15	NW	34	1.36	.13	10 n., n (?)	10 n., nw	*
30	27.83	27.71	26.8	48.2	50	25	25.3	88	40.0	49	NW	10	S	8	T.		Few a. s., w	0	* △
Mn	27.35	27.29	42.7	59.8	67.6	39.5	39.4	76.7	48.3	47.8	NW	11.7	n se s	14.7	1.69	.28	3.4 s., nw	4.4 s., sw	

DODGE CITY, KANS.

[φ=37° 45′ N; λ=100° 0′ W; barometer above sea, 2,509 feet; gravity correction applied −.02.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.58	27.22	37.1	64.0	71	35	35.0	83	52.9	49	S	25	S	24	.....	.....	1 ci. s., nw	4 ci. s., sw	
2	27.47	27.60	43.8	51.2	56	39	41.1	81	42.0	46	N	28	N	10	.....	.....	9 ci. s., nw	Few s. cu., n	
3	27.66	27.46	38.0	60.0	65	34	35.0	76	46.1	33	SW	3	S	15	.....	.....	4 ci. s., nw	7 ci., nw	—°
4	27.44	27.26	50.8	69.4	74	47	47.0	77	58.1	51	S	22	SE	20	T.	.....	4 s., nw	7 s., sw	
5	27.36	27.29	53.0	63.6	71	51	51.7	92	56.8	67	NE	6	SE	6	0.18	0.07	10 n., ne	6 s. cu., sw	
6	27.44	29.45	50.0	51.7	60	49	49.2	95	51.7	100	N	12	NE	15	.03	.16	10 s., n	10 n., ne	⊓◹
7	27.43	29.34	49.2	55.0	60	48	49.0	99	53.2	90	N	10	E	9	.22	.08	10 n., n	10 s., ne	
8	27.36	27.26	50.8	66.0	69	50	50.8	100	59.0	67	NE	4	SE	5	.....	.....	10 s., ne	8 s., se	≡°a.
9	27.32	27.20	54.0	67.4	76	52	53.9	99	61.7	73	SE	6	SE	21	.....	.....	Few ci. s., nw.	8 s., nw	
10	27.22	27.19	57.4	57.2	74	55	56.0	92	56.0	93	SE	19	NW	12	.....	T.	Few a. s., nw.	9 n., w	⊓◹
11	27.28	27.36	49.3	56.0	60	49	49.1	99	50.4	69	NW	22	N	18	.12	T.	10 n., nw	10 s., n	
12	27.42	27.43	47.0	49.5	51	44	43.1	78	49.5	100	NW	18	N	18	T.	.03	10 s., nw	10 n., n	
13	27.52	27.49	51.5	61.9	63	50	51.5	100	57.9	79	N	16	NE	7	.05	.03	10 n., n	9 s. cu., nc	≡°a.
14	27.46	27.36	54.2	64.0	66	52	54.2	100	58.0	71	N	6	SE	8	T.	.....	10 s., n	Few s., se	≡°a.
15	27.39	27.28	49.0	69.2	73	46	49.0	100	60.8	63	E	2	SE	15	.....	.....	10 s., sw	9 s. cu., sw	≡°a.
16	27.27	27.10	60.2	63.5	75	56	59.0	94	63.5	100	SE	20	SE	30	.....	.14	10 s., se	10 n., sw	⊓◹
17	27.04	27.01	62.0	72.2	80	61	58.0	79	63.0	61	S	30	SE	31	.10	.....	1 a. s., s	1 s., s	
18	27.10	27.02	64.9	70.0	79	52	62.0	86	49.2	19	S	28	S	31	.....	.....	Few s. cu., s	6 s., sw	
19	27.25	27.16	43.9	75.0	79	38	39.0	66	54.0	24	W	4	S	18	.....	.....	0	0	
20	27.23	27.15	59.0	67.0	87	55	52.0	64	59.9	67	SE	6	SE	29	.....	.11	0	9 s., sw	▲⊓◹
21	27.15	26.96	63.5	67.9	76	55	62.0	92	64.0	81	SE	25	SE	18	T.	.58	10 s., s	6 s., s	▲⊓◹
22	27.19	27.05	55.6	75.0	81	48	48.8	63	69.0	75	S	2	SE	31	.....	.06	0	1 cu., sw	▲⊓◹
23	27.37	27.24	48.9	73.3	78	43	45.0	75	64.0	61	NW	3	SE	14	.....	.....	0	9 s., se	
24	27.24	27.18	65.0	75.3	83	59	59.0	71	69.1	74	SE	33	S	30	.....	.....	1 s., e	8 s., sw	
25	27.29	27.21	56.0	72.8	78	54	56.0	100	67.0	75	NW	6	S	14	.....	.....	10 s., nw	9 s., s	≡°n.
26	27.11	27.08	67.0	52.0	85	51	66.0	95	52.0	100	SE	14	NW	30	T.	.30	10 s., se	10 n., nw	⊓◹
27	27.32	27.26	50.3	75.1	81	47	48.9	91	61.1	46	W	7	SE	14	.26	.....	0	8 ci. s., sw	
28	27.22	27.19	64.0	54.8	82	54	62.0	90	54.0	95	SE	21	NE	24	.....	.29	10 s., s	9 s., se	⊓◹
29	27.26	27.36	57.0	55.7	64	54	55.0	89	54.0	90	NW	23	NW	24	.02	.01	8 s., nw	10 n., nw	
30	27.50	27.56	53.7	61.0	66	51	53.7	100	51.9	55	NW	26	N	16	T.	.04	10 n., nw	1 a. s., nw	≡°a.
31	27.53	27.48	47.4	55.0	61	44	45.0	84	47.0	56	N	20	N	14	.....	.....	9 a. s., n	4 s. cu., nw	
Mn.	27.34	27.26	53.3	63.6	71.7	49.1	51.2	87.4	56.7	68.7	SE	15.1	SE	18.4	.98	1.90	6.0 s., nw	6.7 s., sw	

JUNE, 1903.

1	27.52	27.51	46.0	51.1	55	43	44.0	86	48.9	86	N	13	N	10	.....	.....	10 s., n	10 s., n	
2	27.53	27.51	48.9	56.0	58	48	48.4	97	54.0	89	NW	8	NE	6	.21	T.	9 s., nw	10 s., n	
3	27.54	27.47	53.4	67.0	67	52	53.0	98	60.0	68	NW	8	N	2	.03	.....	10 s., nw	3 cu., n	
4	27.54	27.48	54.7	71.1	74	60	54.7	100	60.7	56	NW	3	E	4	.....	.....	D. fog, nw	1 ci. s., nw	
5	27.58	27.57	62.8	72.0	78	52	58.5	78	63.0	62	E	1	NE	9	.....	.....	7 ci. s., sw	5 ci. s., sw	
6	27.66	27.59	62.0	71.4	77	57	59.3	86	63.0	64	E	2	NE	5	.....	.....	9 ci. s., w	10 a. s., sw	○○°p.
7	27.60	27.51	62.8	72.8	76	59	60.2	87	62.6	58	NW	1	S	2	.....	.....	10 s., sw	10 a. s., sw	
8	27.50	27.46	56.8	64.2	79	52	56.0	96	61.2	85	W	4	NW	3	.....	0.05	2 a. s., nw	9 n., sw	⊓◹
9	27.57	27.55	57.0	66.0	72	54	55.8	93	55.2	51	N	9	NE	9	T.	.....	2 a. s., n. (?)	8 s., w	
10	27.71	27.75	52.0	56.4	58	50	52.0	100	48.1	55	N	13	NE	4	.03	.12	10 n., n	9 a. cu., w	
11	27.78	27.63	45.0	64.8	68	41	44.2	95	52.0	43	NW	3	E	6	.....	.....	0	Few ci. s., nw. (?)	—
12	27.63	27.48	51.8	64.2	70	45	48.0	77	53.2	49	SE	6	S	11	.....	.....	6 ci., w	10 a. s., sw	
13	27.45	27.39	53.8	66.3	70	49	51.6	87	56.0	53	S	9	SE	13	.....	.....	10 ci. s., s	10 s., se	
14	27.42	27.39	56.0	65.0	71	53	54.6	92	56.5	60	S	8	S	16	.....	.....	8 a. cu., se	9 s., s	
15	27.42	27.39	57.2	71.6	78	50	54.0	82	60.5	54	SE	8	SE	14	.....	.....	1 s., nw. (?)	6 s. cu., w	
16	27.50	27.49	62.5	71.0	76	59	60.0	87	66.0	54	S	3	S	3	.06	.01	10 s., s	8 ci. s., nw	
17	27.52	27.37	57.8	80.4	83	55	56.5	92	66.0	46	SW	2	S	11	.....	.....	Few s., sw	1 s., w	
18	27.29	27.29	66.1	76.5	96	64	62.5	83	60.0	38	S	8	NW	28	.....	T.	1 s., nw	10 s., nw	⊓◹
19	27.31	27.27	70.5	84.0	88	59	60.5	57	66.0	39	N	12	E	5	T.	.....	8 s., n	2 s. s., w. (?)	
20	27.36	27.26	68.0	76.2	86	61	60.0	64	65.1	56	E	3	SE	13	.....	.....	9 s., nw	7 a. s., w	⊓◹
21	27.26	27.20	63.2	78.0	86	60	60.1	84	63.0	44	W	4	NW	12	.83	.....	9 ci. s., w	5 ci. s., nw	⊓◹
22	27.41	27.32	55.3	71.0	74	52	53.0	86	59.8	53	N	15	SE	6	.....	.....	0	5 a. s., nw	
23	27.27	27.20	63.0	69.3	76	59	59.0	80	64.8	79	S	24	SE	16	.08	.....	9 s. cu., sw	9 s., sw	⊓◹
24	27.24	27.34	62.0	65.1	70	58	59.8	89	61.2	81	E	13	NE	4	.....	.07	10 s., e	10 a. s., nw	⊓◹
25	27.42	27.38	54.9	70.7	74	51	53.9	94	59.8	54	N	7	N	5	.....	.....	5 s. cu., nw	4 ci. s., n	
26	27.47	27.41	61.2	73.0	75	55	57.2	79	61.0	51	N	2	NE	6	.....	.....	2 s., nw	1 ci. s., nw	
27	27.43	27.30	61.0	78.3	82	57	59.7	93	66.2	54	SE	5	SE	17	.....	.....	2 ci. s., nw	9 ci. s., nw	○○°a.
28	27.29	27.18	66.5	86.3	91	64	60.5	72	73.0	54	S	20	SE	10	.....	.....	1 ci. s., s. (?)	0	
29	27.18	27.12	73.2	88.8	97	69	69.0	81	72.0	45	S	12	SE	20	.....	.....	10 ci. s., w	3 s., nw	
30	27.13	27.09	74.5	90.0	95	72	66.0	65	71.0	40	S	23	S	25	.....	.....	3 ci. s., sw	Few a. s., s	
Mn.	27.45	27.40	59.3	71.3	76.7	55.0	56.4	85.3	60.8	57.4	S	8.3	SE	9.8	1.24	.25	5.8 s., nw	6.1 s., nw	

DODGE CITY, KANS.

[φ=37° 45′ N; λ=100° 0′ W; barometer above sea, 2,509 feet; gravity correction applied −.02.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.14	27.09	72.5	88.0	95	70	64.8	67	71.0	44	S	13	S	24			3 ci. s., w	Few cu., s	
2	27.10	27.06	71.0	81.3	86	68	68.0	86	70.0	58	S	30	S	31			4 s., s	3 ci. s., sw	
3	27.15	27.24	68.1	67.0	89	56	66.8	94	61.0	72	SE	16	NW	36	T.	T.	10 n., se	9 s., nw	
4	27.54	27.51	52.5	75.1	77	50	50.6	89	58.1	36	W	8	N	5	0.04		1 a. s., nw	Few cu., n	⊓
5	27.57	27.40	57.9	81.7	84	53	54.0	79	67.0	48	SE	2	SE	22			0	0	⊓
6	27.43	27.34	71.8	87.0	93	68	64.1	67	69.8	44	S	17	S	28			Few a. s., 0 (?)	Few s., s	
7	27.39	27.31	71.8	89.0	92	68	64.2	67	70.8	42	S	18	S	24			Few s., s	8 ci. s., w	
8	27.38	27.33	74.5	91.2	96	71	64.9	61	70.0	35	SE	9	SE	20			5 ci. s., nw	1 s., 0 (?)	
9	27.40	27.29	74.2	92.2	96	71	65.2	63	68.0	29	S	13	S	15			Few a. s., nw	Few s., s	
10	27.36	27.28	74.0	93.0	98	71	64.8	63	69.0	30	S	10	S	22			1 ci. s., nw	5 cu. n., n	⊓
11	27.36	27.35	71.0	74.1	93	68	69.0	91	66.0	66	N	13	NE	15	.06		10 s., sw	8 s., w	⊓
12	27.50	27.45	66.9	83.2	88	64	64.2	87	66.0	41	N	5	NE	9			9 ci. s., w	0	
13	27.54	27.32	67.8	87.1	92	64	65.8	90	70.0	43	SW	2	SE	22			Few ci. s., 0	8 s., nw	⊓
14	27.34	27.20	72.0	97.1	103	66	64.0	66	68.0	22	S	8	S	14	T.		Few s., w	Few cu., w	
15	27.34	27.24	68.0	96.1	100	66	63.4	79	69.9	28	SE	7	S	10			8 s., nw	1 cu., w	⊓
16	27.32	27.14	72.0	94.2	99	70	66.0	74	73.0	37	SW	7	SE	10	.02		10 s., nw	3 cu. n., sw	⊓
17	27.24	27.38	74.1	75.9	86	69	66.9	69	64.8	56	W	9	N	10	.01		8 ci. s., sw	8 s. cu., n	⊓
18	27.50	27.48	63.7	83.1	86	60	59.0	72	62.1	31	N	7	E	4			1 s., n	1 a. s., nw	
19	27.54	27.42	67.0	86.1	91	63	58.0	59	65.1	33	SW	4	S	6			1 s., nw	3 s. cu., nw	
20	27.46	27.34	71.0	95.7	101	68	61.1	57	69.0	26	S	4	SE	7			Few cu., s	1 a. s., w	
21	27.37	27.35	74.5	86.6	103	74	60.1	47	69.0	42	SW	5	SE	13		0.07	Few s. cu., sw	5 s., nw	⊓
22	27.38	27.33	73.3	96.0	105	72	62.5	50	73.0	34	W	6	NE	11			Few a. cu., sw	Few a. s., w	
23	27.43	27.42	68.2	89.0	96	68	68.0	99	72.5	46	NE	12	E	13			10 s., ne	2 ci. s., nw	≡ᵒa.
24	27.46	27.39	68.1	88.0	95	67	68.1	100	74.0	53	E	8	E	10			D. fog, e	10 ci. s., w	∞ᵒp.
25	27.47	27.45	70.9	87.7	92	68	69.0	95	69.0	40	SE	7	SE	12			10 s., se	Few ci. s., nw	∞ᵒ
26	27.55	27.46	69.0	87.0	92	67	65.2	82	65.0	30	E	3	SE	12			Few s., 0 (?)	0	∞ᵒa.
27	27.50	27.33	68.6	85.6	90	66	64.1	79	67.0	38	SE	5	SE	12			Few s., se	2 ci. s., s	
28	27.32	27.29	69.8	90.8	95	67	63.9	73	69.0	34	S	6	SE	11			5 a. s., w	Few s., se	
29	27.33	27.31	70.8	77.0	94	68	63.8	69	70.0	71	NE	9	E	13		.01	2 ci., s., sw	10 s., w	⊓
30	27.45	27.42	63.1	68.9	76	59	61.2	90	63.9	77	N	9	E	10	.25	.13	9 n., sw	9 a. s., sw	⊓
31	27.41	27.15	58.8	85.0	88	59	57.0	90	68.0	42	SE	12	SE	30			10 s., se. (?)	2 s., w	
Mn.	27.40	27.32	68.9	85.8	92.7	65.8	63.5	76.1	68.0	42.8	S	9.0	SE	15.5	.38	.21	3.8 s., nw	3.2 s., w	

AUGUST, 1903.

1	27.36	27.41	62.8	78.2	80	62	60.2	87	69.3	65	E	25	SE	8	T.		10 s., e	5 s. cu., sw	⊓
2	27.53	27.47	69.8	87.9	92	66	65.8	82	69.8	42	SE	8	S	24			3 ci. s., sw	Few a. s., sw	
3	27.53	27.38	73.8	88.0	93	71	67.0	71	68.2	37	SE	15	S	26			Few a. s., w	Few ci., w	
4	27.35	27.24	72.9	91.8	97	71	67.0	75	70.0	34	S	18	S	18			0	0	
5	27.28	27.27	72.0	96.0	103	69	65.0	70	71.8	32	SE	5	SE	13			0	Few cu., se	
6	27.50	27.53	69.1	78.0	83	63	65.0	79	68.0	61	NE	8	NE	4		1.29	8 s., w	5 ci. s., w	⊓
7	27.50	27.26	66.4	80.2	97	66	64.9	93	68.8	57	SE	15	SE	6		.09	8 s., w	8 s., nw	⊓
8	27.39	27.36	67.2	81.0	87	67	67.2	100	63.0	37	N	9	NE	7			8 s., n	8 ci. s., w	⊓≡ᵒa.
9	27.43	27.30	66.1	78.7	84	64	61.4	77	65.0	49	W	2	SE	9			8 a. s., nw	1 a. s., sw	
10	27.41	27.37	64.9	79.0	86	62	62.0	86	67.0	54	SE	4	E	9	0.02	T.	1 a. s., w	9 s., w	⊓
11	27.45	27.34	62.6	82.0	86	61	59.1	82	69.8	55	SW	3	SE	8	.03		Few a. s., sw	1 cu., sw	
12	27.37	27.25	65.8	87.0	93	61	64.5	94	71.0	46	SE	4	S	17			0	5 s., w	⊓
13	27.35	27.28	67.8	82.7	88	61	65.0	86	72.9	64	E	3	E	10	.37		3 s., w	3 cu., sw	⊓
14	27.38	27.35	68.0	82.2	91	66	66.1	91	73.0	65	SE	10	SE	8			10 s., s	9 s., nw	⊓
15	27.46	27.42	67.7	85.0	92	67	65.1	88	70.8	51	E	5	SE	4	.03		4 s., nw	4 a. s., w	⊓
16	27.47	27.41	69.2	76.1	93	68	68.9	99	69.0	71	SE	5	E	26		T.	8 s., w	10 a. s., w	∞ᵒa.⊓
17	27.49	27.45	65.2	78.0	82	65	63.9	94	69.0	64	E	12	E	8	.09		10 s., sw	2 s. cu., e	
18	27.47	27.46	63.0	63.9	88	60	63.0	100	61.8	89	SW	3	NE	30		.03	1 s., sw	9 cu. n., w	≡ᵒa.⊓
19	27.49	27.45	59.8	79.2	84	58	58.7	94	66.8	53	NW	5	E	5	.21		Few s., nw	0	
20	27.48	27.34	64.6	85.0	90	63	61.8	87	66.0	37	S	4	S	17			0	Few ci., sw	
21	27.38	27.24	66.5	89.0	94	65	57.1	57	66.2	30	S	12	S	22			0	Few s., 0 (?)	
22	27.27	27.20	69.8	88.4	97	67	58.0	50	65.0	28	SE	8	S	22			0	0	
23	27.28	27.18	66.5	85.0	91	64	59.0	65	68.0	42	S	6	S	28			Few s., s	9 a. s., sw	
24	27.22	27.18	72.2	89.0	93	69	67.0	77	71.9	44	S	26	S	18		.03	8 a. s., sw	1 cu., nw	⊓
25	27.33	27.29	70.9	87.0	96	69	65.9	77	71.0	46	SE	3	S	15			Few a. s., 0	8 a. s., sw	
26	27.29	27.13	74.0	90.0	94	73	68.0	74	71.9	43	S	12	S	22			5 a. cu., w	Few s. cu., s	
27	27.16	27.30	73.9	80.5	87	67	66.1	67	63.0	38	W	10	N	8			1 s. cu., w	0	
28	27.44	27.45	63.5	80.7	85	61	56.0	64	61.5	34	N	4	N	7		T.	7 s., sw	Few cu., 0	⊓
29	27.59	27.44	55.0	77.0	83	54	52.9	87	61.5	42	N	4	SE	12			0	1 s., w	
30	27.51	27.46	58.0	73.1	77	55	56.5	93	64.8	65	SE	8	SE	8	.02	T.	9 n., w	Few s., nw	
31	27.56	27.46	64.1	80.0	86	59	63.0	94	66.0	49	SE	4	SE	9			10 s., s	0	∞ᵒa.
Mn.	27.41	27.34	66.9	82.6	89.4	64.3	63.0	81.9	67.8	49.2	SE	8.4	S	13.8	.77	1.44	3.9 s., w	3.2 s., sw	

DODGE CITY, KANS.

[$\varphi = 37° 45'$ N; $\lambda = 100° 0'$ W; barometer above sea, 2,509 feet; gravity correction applied −.02.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.51	27.43	62.1	84.0	92	60	60.5	92	65.0	36	SE	4	SE	12			0	Few s., nw	
2	27.49	27.37	64.5	85.0	93	62	59.7	76	62.1	27	SE	11	SE	18			Few a. s., sw	3 s., w	
3	27.38	27.35	65.8	81.0	93	65	58.1	64	65.0	43	SE	6	N	12		T.	2 s., w	10 s., sw	
4	27.41	27.41	66.2	85.6	95	65	57.2	59	62.1	27	S	4	SE	10			Few s., w	Few s., 0	
5	27.48	27.31	62.1	85.1	92	57	56.1	70	61.2	25	SW	1	SE	20			0	1 s., w	∞°a.
6	27.29	27.07	68.3	85.0	92	67	58.1	55	65.0	34	S	20	S	31			1 a. s., s. (?)	7 s., w	∞°
7	27.07	27.16	71.5	76.8	84	64	62.8	63	58.0	32	SW	7	NE	5			9 s., sw	Few cu., 0 (?)	
8	27.27	27.26	60.0	83.7	89	56	54.9	73	66.0	40	N	8	NE	9			Few s. cu., n	7 ci. s., sw	
9	27.26	27.48	61.2	62.0	73	54	59.0	89	53.8	60	NE	18	N	11		T.	10 s., ne	3 s., sw	∞°a.
10	27.52	27.26	41.1	75.5	79	40	41.1	100	61.0	44	W	6	SE	17	T.		0	Few s. cu., w	≡°a.
11	27.21	27.08	69.0	81.9	88	65	66.0	86	67.0	47	SE	24	S	36			9 ci. s., sw	10 s., se	⊓⊕
12	27.07	27.22	67.7	72.0	80	64	65.9	91	67.0	78	S	20	SE	7	0.14		9 s., sw	0	
13	27.24	27.20	66.9	55.3	92	44	65.2	92	51.0	76	SE	13	N	12			1 s. cu., se	1 a. s., s. (?)	∞°p.
14	27.44	27.39	40.2	50.0	55	40	40.2	100	45.0	69	N	15	NE	9	T.	T.	10 n., n	8 s., ne	≡°a.
15	27.58	27.60	42.4	52.4	58	40	41.2	91	44.1	52	N	10	N	9	.01		10 s., n	Few s., s	
16	27.72	27.65	41.4	58.2	64	40	38.0	75	47.8	47	NW	4	N	3			9 s., s	Few cu., w	
17	27.73	27.56	34.4	65.7	74	32	32.0	78	53.0	43	W	3	SE	8			0	Few cu., w	
18	27.53	27.38	48.2	73.8	81	44	43.0	67	57.0	36	S	5	SE	20			0	1 ci. s., w	
19	27.40	27.33	55.2	74.0	82	55	47.1	40	60.0	45	SE	12	S	15			Few cu., sw	Few a. s., 0 (?)	
20	27.42	27.42	56.1	75.9	85	56	52.3	78	62.5	48	S	6	SE	6			0	Few a. s., w	
21	27.53	27.48	54.8	79.2	88	55	53.7	93	62.0	38	SE	9	S	10			Few s., se	8 s., sw	∞°a.
22	27.55	27.52	60.1	75.0	82	60	56.0	78	59.0	39	S	5	S	15			9 ci. s., w	9 s. cu., nw	
23	27.64	27.62	58.0	67.2	75	54	53.0	73	53.9	42	N	5	NE	6			2 s. cu., ne	Few a. s., e	
24	27.60	27.36	45.1	76.2	81	44	42.0	78	62.2	46	E	4	S	11			3 ci. s., nw	2 s. s., nw	
25	27.23	27.04	62.0	82.5	91	61	56.0	70	62.1	32	S	10	S	22			0	Few a. s., w	
26	27.27	27.56	54.0	58.0	74	47	47.5	63	45.2	37	N	22	NE	8			Few s. cu., nw	0	∞°a.
27	27.64	27.55	41.0	60.8	71	39	37.0	70	45.8	30	W	4	SE	7			Few ci. cu., nw	9 a. s., sw	
28	27.53	27.45	54.1	62.1	73	47	44.0	45	55.0	65	SE	9	SE	14			10 s., sw	10 s., se	
29	27.36	27.17	61.0	74.1	81	59	59.9	94	63.2	56	S	17	SE	23	T.		10 s., s	1 s., s	⊓
30	27.31	27.37	52.0	73.3	84	52	52.0	100	60.0	47	S	1	N	8			0	Few s. cu., w	≡°a.
Mn	27.42	27.37	56.2	72.4	81.4	53.0	52.0	76.8	58.1	44.7	S	9.4	SE	13.1	.15	T.	3.5 s., sw	3.0 s., w	

OCTOBER, 1903.

1	27.46	27.38	54.2	79.8	88	54	53.8	98	65.0	46	NE	6	S	17			10 s., ne (?)	2 cu., sw	∞°a.
2	27.42	27.24	66.0	80.5	89	65	64.1	91	66.5	49	S	17	SE	33			9 s., sw	8 s., sw	
3	27.28	27.39	59.2	69.0	78	57	49.0	48	52.0	31	W	8	N	6	0.02		Few cu., sw	Few s., n	
4	27.46	27.48	47.2	65.4	76	46	46.0	92	51.1	37	N	14	NE	8			2 a. cu., sw	Few s., ne	
5	27.50	27.24	46.7	70.0	74	45	44.0	80	59.0	53	E	1	SE	13			10 s., se	2 s., nw	
6	27.00	26.80	66.9	78.0	88	62	62.9	81	55.0	21	S	16	N	13			8 s., sw	5 s., nw	
7	27.38	27.60	43.4	58.0	69	43	38.8	68	42.0	19	NW	11	NW	6			1 s., w	0	
8	27.71	27.58	35.1	62.0	73	33	29.0	47	45.9	27	W	5	SE	10			0	0	
9	27.56	27.49	50.1	68.5	79	49	41.0	46	51.2	29	SE	12	SE	16			Few ci., w	0	
10	27.42	27.24	52.7	69.8	79	52	44.8	54	54.2	36	SE	14	SE	12			9 s., w	0	
11	27.12	27.21	51.7	68.0	78	51	46.1	67	56.2	49	SE	15	NW	12		T.	Few s., se	10 n., sw	
12	27.38	27.47	51.0	50.1	56	49	49.8	93	47.8	85	NW	12	N	6	.07	0.04	10 n., n	9 s., n	
13	27.48	27.44	39.9	48.4	51	39	39.6	98	48.4	100	NW	7	NW	5	T.	.22	10 n., nw	10 n., nw (?)	
14	27.34	27.29	49.2	54.5	62	45	49.2	100	51.0	80	NW	9	NE	4	.19	T.	10 n., nw	1 s., ne	≡°a.
15	27.48	27.49	46.8	49.9	59	41	44.0	81	41.2	48	NW	10	NW	5			10 s., nw	0	
16	27.51	27.40	28.2	61.0	73	28	27.0	87	47.0	34	W	7	NW	4			Few ci., w	Few s., nw	⊥²
17	27.75	27.69	39.2	56.1	65	38	35.5	71	45.0	42	NW	6	NE	3			Few ci., nw	0	
18	27.64	27.47	39.0	66.0	82	38	36.0	76	50.9	35	S	4	S	4			0	0	
19	27.47	27.41	41.0	71.0	90	40	34.2	50	52.0	26	W	9	SW	2			0	0	
20	27.48	27.52	49.6	67.2	81	47	40.9	47	53.0	39	N	10	NE	8			Few a. s., n. (?)	1 s., 0 (?)	
21	27.54	27.49	39.0	63.5	81	36	38.0	92	48.0	30	N	2	SE	4			2 ci. s., 0 (?)	4 s., s	
22	27.69	27.79	48.5	49.4	60	43	40.8	53	39.0	38	N	14	NE	5			9 s., nw	Few s., ne	
23	27.82	27.72	30.0	49.4	63	27	27.8	77	38.5	35	NW	5	SE	5			1 s., nw	1 ci. s., nw	⊓
24	27.69	27.58	35.4	58.2	75	35	30.0	54	44.1	31	SW	5	SE	5			Few a. s., sw	Few s., 0	
25	27.54	27.57	38.0	67.8	81	37	32.0	53	48.9	26	W	5	NE	8			0	0	
26	27.75	27.74	38.6	54.5	65	38	37.0	87	44.0	24	NE	9	E	10			2 ci. s., w	Few s., e	
27	27.69	27.59	34.2	57.5	70	34	33.0	89	46.0	42	E	4	E	7			2 ci. s., e	9 s., nw	
28	27.58	27.50	49.0	52.2	65	47	47.0	87	47.2	70	E	6	SE	8	.02		9 s., sw	Few s., sw	⊓
29	27.39	27.25	41.7	56.2	66	40	40.0	87	51.0	71	SE	6	SE	15			1 s., se	8 s. cu., sw	∞°a.
30	27.26	27.39	52.2	49.8	57	45	52.2	100	49.0	95	E	8	N	12	.02	.08	10 n., e	10 n., n. (?)	⊓
31	27.41	27.40	44.0	40.7	46	39	42.0	86	40.7	100	N	15	NW	17	.20	.47	10 n., n	10 n., nw. (?)	
Mn	27.49	27.44	45.4	61.1	71.6	43.3	41.8	75.5	49.4	46.7	NW	8.7	SE	9.1	.52	.76	4.4 s., sw., nw.	2.9 s., nw	

DODGE CITY, KANS.

[$\varphi = 37^\circ 45'$ N; $\lambda = 100^\circ 0'$ W; barometer above sea, 2,509 feet; gravity correction applied, −.02.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.38	27.48	43.9	49.5	52	42	43.9	100	48.0	90	NW	18	N	6	0.17	0.11	10 n., nw (?)	10 s., n	
2	27.46	27.49	49.2	52.5	54	48	49.2	100	51.7	95	NW	12	NW	8	.05	.14	10 n., nw	10 s., nw	
3	27.47	27.52	49.6	50.8	58	48	49.5	99	50.0	92	NW	3	N	3	.24	.29	9 s., nw	2 cu., nw	
4	27.52	27.52	42.2	50.0	61	40	42.0	98	47.0	81	W	4	N	5			9 s. cu., w	Few s., n	
5	27.57	27.61	33.0	46.8	54	33	32.7	97	41.5	65	NW	6	NE	2			Few s., nw	Few s., 0 (?)	
6	27.50	27.42	35.7	46.8	59	35	35.7	100	45.8	93	SE	5	SE	10			D. fog, se	Few ci., sw	
7	27.36	27.33	41.0	57.0	68	40	40.8	98	51.0	61	SE	8	SE	10			0	0	∞a.
8	27.26	27.16	44.2	62.4	74	43	44.0	99	55.0	63	SE	13	S	21			Few s., se	0	
9	27.54	27.48	40.0	41.9	57	37	34.0	55	35.9	57	NW	18	SE	7			3 s., w	Few a. s., 0	
10	27.05	27.10	37.4	45.0	68	37	33.8	71	36.0	41	S	24	NW	30			1 a. s., w	9 s., nw	
11	27.34	27.05	22.2	47.0	53	22	20.0	71	35.0	26	W	8	S	19			Few s., w	8 s., w	
12	27.03	27.29	47.8	46.0	55	38	38.2	41	35.0	30	NW	24	NE	9			4 s., w	10 a. s., w	
13	27.22	27.46	34.1	47.1	56	30	30.2	65	40.0	54	E	4	NE	6			0	Few a. s., w	
14	27.57	27.34	31.8	47.0	56	30	30.7	89	41.0	61	SE	3	SE	14			6 a. s., w	0	
15	27.10	27.17	36.3	47.0	77	31	33.0	73	42.1	68	SW	3	N	10			Few s., sw	1 s., n	
16	27.48	27.57	22.6	32.0	38	22	21.0	79	26.9	51	NW	13	NE	9			0	10 s., w	
17	27.83	27.91	14.4	17.0	27	11	12.9	74	15.0	69	N	12	NW	8		.01	8 s., n	0	*
18	27.98	27.80	5.0	24.0	36	5	4.8	95	20.0	51	W	5	SE	9			0	Few s., W. (?)	
19	27.68	27.61	23.2	31.0	41	21	20.0	60	24.8	39	SE	15	SE	13			9 s., w	4 s., w	
20	27.66	27.62	22.4	35.6	42	22	19.1	57	28.7	42	SE	8	SE	12			Few s., 0 (?)	10 a. s., nw	∞p.
21	27.66	27.55	24.0	48.1	69	22	22.0	75	38.0	38	W	5	S	4			3 s., w	Few s., sw	
22	27.48	27.96	31.2	52.5	71	30	27.9	67	42.0	42	W	4	S	3			7 a. s., w	7 a. s., sw	
23	27.52	27.52	36.8	43.0	54	35	34.0	77	36.7	56	N	9	E	5			8 a. s., sw	1 s., sw. (?)	
24	27.42	27.50	29.8	36.9	47	26	29.0	92	33.6	73	E	8	N	3			10 s., e. (?)	3 a. s., w	
25	27.67	27.68	21.0	37.8	50	20	20.9	99	33.1	63	W	8	NE	3			Few s., w	Few s., nw	
26	27.76	27.61	21.0	35.2	48	20	20.9	99	31.8	71	S	2	SE	6			1 a. s., nw	Few s., se	
27	27.54	27.38	33.1	38.0	68	30	30.9	79	41.0	34	W	12	SW	3			2 s., nw	7 a. s., w	
28	27.47	27.51	41.1	45.9	59	32	32.1	35	36.2	38	NW	10	N	9			Few s., nw	Few s., nw	
29	27.56	27.55	26.0	37.3	44	25	24.0	77	31.1	50	NW	10	N	5			1 a. s., nw	10 a. s., nw	☋
30	27.58	27.34	28.5	45.0	57	23	23.0	94	44.0	93	SE	6	NW	4		.02	1 s., nw	10 n., nw	
Mn.	27.49	27.46	32.1	43.7	55.1	29.9	30.0	80.5	37.9	59.6	NW	9.3	SE	8.5	.46	.57	3.4 s., nw	3.7 s., w., nw	

DECEMBER, 1903.

1	27.51	27.44	27.5	31.2	41	26	27.1	96	30.8	96	N	10	SE	6	0.04		10 s., n	Few s., w	
2	27.21	27.27	24.2	47.0	62	24	24.0	98	41.0	61	SE	15	E	5			Few s., se. (?)	0	
3	27.49	27.57	33.0	36.1	48	23	28.1	55	30.2	67	NW	10	NW	10			9 s., w	3 ci. s., nw	
4	27.68	27.68	22.0	30.8	39	20	20.0	73	26.0	52	W	13	NW	4			Few s., w	0	
5	27.74	27.71	13.0	33.0	43	13	12.8	96	27.0	45	W	8	SE	1			0	0	
6	27.72	27.52	21.2	43.3	62	19	18.0	54	33.0	30	W	9	S	4			0	0	
7	27.46	27.49	29.8	37.4	49	25	25.0	51	30.5	45	NE	12	N	11			Few s., ne. (?)	1 s., w	
8	27.53	27.47	26.0	28.1	43	23	25.0	88	22.0	86	NW	10	W	5		T.	2 s., nw	Few s., w	*
9	27.33	27.44	36.0	36.4	47	27	34.0	83	29.8	46	NW	11	N	9			3 s. cu., nw	0	
10	27.38	27.39	27.1	44.9	59	20	25.9	87	36.0	42	W	10	N	9			Few s., nw	0	
11	27.30	26.84	27.4	55.9	62	25	26.2	87	42.5	30	SE	13	S	28			Few a. s., 0 (?)	7 s., sw	
12	27.26	27.56	20.4	19.0	49	11	20.0	94	15.5	50	NW	24	NE	5	T.		10 n., nw	0	*
13	27.56	27.62	13.1	21.1	30	10	11.0	62	17.8	56	SE	17	NE	6		T.	1 s., se	Few s., ne	
14	27.85	27.85	8.5	19.0	26	8	8.1	91	16.8	68	N	6	E	2			1 s., sw	0	
15	27.68	27.48	15.0	40.0	56	14	14.0	88	31.8	39	SW	7	S	4			0	Few s., s	
16	27.52	27.46	21.7	40.0	60	20	19.8	74	33.0	48	W	9	SE	5			0	Few s., 0	
17	27.43	27.30	23.9	36.7	55	23	22.4	81	31.0	53	SE	4	SE	11			Few s., se	Few a. s., 0	
18	27.12	27.12	28.9	42.0	59	28	25.0	59	31.0	24	S	9	NW	3			Few s., s	2 a. s., sw	
19	27.29	27.52	32.4	33.6	45	25	30.0	76	26.9	40	NW	20	NW	10			6 s., nw	0	
20	27.53	27.28	17.8	43.2	55	17	17.0	87	33.9	37	W	7	SE	6			0	Few a. s., s	
21	27.37	27.52	33.0	40.7	55	28	29.0	63	33.1	44	NW	9	N	7			Few s., nw	1 s., n	
22	27.58	27.47	20.1	39.0	52	19	18.9	83	33.0	54	W	1	SE	5			Few s., 0 (?)	1 a. s., s	
23	27.32	27.31	34.6	36.2	42	30	32.0	77	36.2	100	E	5	N	6		T.	10 s., sw	10 n., n. (?)	
24	27.55	27.50	30.1	31.2	41	23	29.0	89	27.4	62	NW	9	W	12	.01	T.	10 s., nw	0	*
25	27.49	27.64	23.0	36.3	54	19	22.0	87	33.1	78	W	14	N	7			7 s., nw	10 s. cu., nw	
26	27.62	27.53	24.0	43.0	62	18	25.8	98	35.0	45	SW	8	W	9			0	Few a. s., w	
27	27.62	27.63	30.0	40.5	58	25	25.7	56	31.1	32	NW	3	SE	2			0	0	
28	27.51	27.68	31.8	33.9	48	22	26.1	43	26.8	37	SW	12	W	3			0	4 ci., w	
29	27.67	27.59	19.0	42.2	57	16	18.2	88	33.0	36	W	7	NW	1			0	1 ci. s., nw	
30	27.64	27.57	22.1	48.8	66	20	20.9	84	37.1	30	W	10	W	1			0	1 a. s., w	
31	27.36	27.21	29.9	49.0	61	27	24.0	41	36.0	24	S	8	W	4			0	0	
Mn.	27.49	27.47	24.7	37.2	51.0	20.9	22.7	76.9	30.6	50.1	W	10.0	SE	6.5	.05	T.	2.2 s., nw	1.3 s., w	

SAN ANTONIO, TEX.

[φ=29° 27′ N; λ=98° 28′ W; barometer above sea, 701 feet; gravity correction applied, −.04.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.21	29.13	40.0	48.0	50	38	40.0	100	45.2	81	NW	6	NW	5	0.32	0.19	10 n., nw	1 ci. s., w	
2	29.23	29.29	37.0	47.1	56	36	35.5	87	48.4	75	W	5	NW	12			0	2 ci. s., w	
3	29.33	29.28	42.0	55.0	60	39	39.5	81	45.4	46	W	8	NW	4			10 s., 0 (?)	0	
4	29.22	29.22	40.0	59.0	67	38	37.0	76	47.0	39	W	7	NW	21			0	0	
5	29.49	29.50	43.2	58.0	68	42	37.7	60	45.6	36	NW	9	W	4			0	0	
6	29.54	29.37	39.0	63.0	69	37	36.5	80	49.2	35	0	0	SW	6			0	0	
7	29.36	29.54	50.0	54.4	62	45	43.5	59	49.6	25	W	6	N	4			Few ci. s., 0 (?)	0	
8	29.69	29.44	36.0	48.3	54	35	33.3	77	37.9	33	NW	5	SE	6			0	2 ci. s., sw	⊖
9	29.29	29.14	38.2	61.5	66	35	34.7	71	54.9	66	SE	3	S	5			4 s. cu., se	10 s. cu., s	⊖
10	28.99	28.95	55.0	65.0	69	54	55.0	100	56.2	58	E	4	S	3	T.	.01	D. fog, e	Few ci. s., 0 (?)	
11	29.31	29.44	41.0	44.0	54	37	38.6	81	35.8	42	N	1	N	10			1 a. s., 0 (?)	0	
12	29.75	29.77	28.5	43.0	46	27	25.5	66	35.4	45	N	10	SE	3			0	10 s., se	
13	29.65	29.55	38.2	41.7	42	36	33.7	63	41.7	100	SE	2	NE	8		.57	10 s., 0 (?)	10 n., ne	
14	29.62	29.61	39.1	44.0	47	38	37.6	88	44.0	100	NE	11	N	12	.13	.13	10 s., ne	10 n., n	
15	29.56	29.46	43.1	45.4	48	41	41.6	88	45.3	99	N	13	N	6	.27	.25	10 s., n	10 n., n	
16	29.38	29.23	45.4	50.2	54	43	44.9	96	48.3	88	N	5	S	4	.43	T.	10 s., n	4 ci. s., sw	
17	29.26	29.31	38.0	53.0	63	37	38.0	100	47.8	69	S	3	N	12			D. fog, s	Few ci. s., 0 (?)	
18	29.42	29.36	41.7	52.7	58	40	40.2	88	47.0	66	N	2	NE	10			10 s., n	10 s., ne	
19	29.40	29.29	45.5	50.5	52	44	44.5	96	47.3	80	NE	5	SE	4	.01	T.	10 s., ne	9 s. cu., se	
20	29.17	29.15	45.5	53.0	60	43	45.0	96	48.9	47	S	6	W	18			D. fog, s	1 s. cu., w	
21	29.42	29.43	42.0	52.3	56	41	38.0	70	43.0	45	NW	14	W	4			10 s., nw	2 ci. s., 0 (?)	
22	29.42	29.23	37.6	59.2	65	35	35.0	78	47.7	41	SW	3	SE	7			0	0	
23	29.22	29.32	44.0	61.5	71	42	42.3	87	49.4	40	S	5	NW	11			0	Few ci. s., 0 (?)	
24	29.38	29.26	41.7	61.3	66	40	39.2	81	50.0	44	0	0	SE	4			0	3 ci. s., sw	
25	29.27	29.13	44.3	65.5	69	41	41.8	82	59.0	68	SE	5	SE	5			Few ci. s., 0 (?)	4 ci. s., sw	
26	29.14	29.18	60.4	70.5	74	60	60.4	100	62.3	63	SE	5	SW	7	.02	.01	D. fog, se	1 ci. s., sw	
27	29.24	29.18	52.3	71.0	78	50	50.9	92	64.0	69	SW	5	SE	4			2 ci. s., 0 (?)	0	
28	29.25	29.15	58.5	68.0	73	56	58.3	99	63.0	76	S	4	S	4	.02	.01	D. fog, s	5 ci. s., w	
29	29.16	29.17	58.5	76.5	81	54	58.5	100	65.3	55	S	3	NW	4	.01	T.	D. fog, s	5 ci. s., w	
30	29.60	29.54	43.5	56.8	59	42	35.5	44	48.3	80	NE	20	E	6			7 s., 0 (?)	8 s. cu., s	⊕
31	29.38	29.21	48.8	58.0	60	48	47.2	89	58.0	100	SE	5	SW	2	T.	.01	10 n., se	10 n., sw	
Mn	29.36	29.32	43.8	56.0	61.0	41.7	41.6	83.1	48.6	61.7	n se s	6.2	SE	6.9	1.21	1.18	3.7 s., s	3.8 ci. s., sw	

FEBRUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.17	29.14	62.8	69.9	71	57	61.8	95	65.4	79	SE	5	SE	7	T.	T.	10 s., 0 (?)	9 a. s., sw	
2	29.14	29.01	66.0	70.0	71	65	66.0	100	68.0	90	SE	2	SE	5	T.	0.02	10 n., se	10 s. cu., se	≡a.
3	28.90	29.04	68.4	61.6	71	59	66.4	90	51.0	47	SE	4	N	7	T.		10 s., se	9 a. s., sw	
4	29.31	29.46	47.3	50.4	59	43	43.0	71	39.3	33	NW	9	NE	6			3 s., nw	8 ci. s., sw	
5	29.56	29.44	42.1	41.6	46	38	36.0	54	37.2	66	NE	14	E	14		T.	10 s., 0 (?)	10 n. sw	
6	29.31	29.17	40.0	44.4	45	37	39.8	98	44.3	99	NE	7	N	8	0.37	.10	10 n., ne	10 n., n	
7	29.26	29.30	43.1	59.0	65	41	41.6	88	45.7	33	NW	9	NW	5	.03		10 s., 0 (?)	8 ci. s., sw	
8	29.36	29.32	45.6	61.0	66	43	39.6	59	47.6	34	W	5	SE	4			6 a. s., sw	Few ci. s., 0 (?)	
9	29.33	29.17	45.7	57.0	59	44	43.2	82	56.6	98	SE	3	E	17		.07	7 a. s., 0 (?)	10 n., e	
10	29.12	29.14	48.9	59.2	65	44	45.9	80	48.8	46	NW	7	W	12	.88		6 s. cu., nw	2 a. s., w	⊓
11	29.27	29.17	45.2	65.3	73	44	40.7	68	52.0	47	W	6	S	5			0	Few ci. s., 0 (?)	
12	29.17	29.08	49.5	68.2	75	47	44.0	64	62.8	74	SW	5	SE	15			0	Few s. cu., se	
13	29.16	29.23	61.8	47.0	64	43	61.1	96	45.0	86	SE	5	N	16	.01	.02	10 n., se	10 s., n	
14	29.27	29.26	41.3	47.0	48	40	39.8	88	46.5	96	NE	13	N	7	T.	.09	10 s., ne	10 n., n	
15	29.13	29.01	45.0	38.7	46	33	45.0	100	38.7	100	NE	3	N	17	.54	.18	10 n., 0 (?)	10 n., n	⊓
16	29.34	29.48	24.0	33.3	37	23	21.0	61	31.8	85	NW	20	NW	7	.15		0	0	→s⊓
17	29.61	29.52	20.6	40.1	44	19	19.1	78	33.8	51	N	3	SE	5			2 ci. s., 0 (?)	9 a. s., sw	→s⊕
18	29.51	29.53	33.7	45.7	47	32	30.7	72	45.7	100	NE	4	NE	12		.11	8 a. s., sw	10 n., ne	
19	29.60	29.62	41.0	38.0	46	36	41.0	100	37.3	94	N	19	N	15	.49	.41	10 n., n	10 s., n	
20	29.64	29.61	39.1	50.1	51	37	37.6	88	47.5	83	N	10	NE	8	.24	.03	10 s., n	10 s., ne	
21	29.66	29.67	46.4	51.5	55	44	44.4	86	48.5	81	E	5	NE	10			10 s., e	10 s., ne	
22	29.71	29.68	38.3	55.0	59	37	35.8	79	49.1	66	NE	3	SE	4			6 a. cu., 0 (?)	4 s. cu., se	
23	29.66	29.55	43.0	59.0	62	42	43.0	100	50.0	53	E	2	SE	4			D. fog, e	10 s., se	
24	29.47	29.33	51.5	50.7	59	50	48.0	78	49.0	89	E	4	NE	3		.18	10 s., e	10 n., ne	
25	29.24	29.06	49.4	55.0	56	48	49.4	100	55.0	100	NE	12	NE	12	.72	.95	10 n., ne	10 n., ne	⊓
26	29.04	29.08	52.0	56.0	64	50	49.7	86	51.5	74	W	8	NW	12	2.27		10 s., w	7 ci. s., sw	⊓
27	29.10	29.12	48.6	53.8	56	47	46.1	83	49.4	74	NW	7	SW	4		.02	10 s., nw	2 s. cu., sw	
28	29.33	29.48	43.6	54.0	62	42	41.1	82	47.0	59	NW	6	N	14			2 a. s., 0 (?)	2 ci. s., sw	
Mn	29.34	29.31	45.9	52.9	57.9	42.3	43.6	83.1	48.0	72.8	NE	7.1	n se	9.1	5.70	2.18	7.1 s., se	7.1 n., sw	

SAN ANTONIO, TEX.

[φ=29° 27′ N; λ=98° 28′ W; barometer above sea, 701 feet; gravity correction applied, −.04.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.73	29.63	36.9	41.0	45	35	34.4	79	36.4	65	N	12	NE	9	.....	.....	10 s., 0 (?)	10 a. s., sw	
2	29.60	29.49	38.8	45.0	47	37	35.3	72	42.5	82	NE	7	NE	8	.....	T.	10 a. s., 0 (?)	10 s., 0 (?)	
3	29.40	29.32	47.8	56.0	58	44	47.5	98	56.0	100	NE	8	NE	6	0.02	0.06	10 n., ne	10 n., ne	
4	29.36	29.50	55.8	64.0	65	54	54.3	91	62.0	90	NE	2	SW	1	.02	T.	10 s., ne	10 s. cu., s	
5	29.28	29.28	63.0	72.0	74	59	61.7	93	68.0	82	SE	7	SE	9	.....	.....	10 s., se	10 s. cu., se	
6	29.24	29.12	65.3	72.0	75	64	62.5	87	67.0	78	SE	4	SE	12	.....	.....	10 s., se	10 s. cu., se	
7	29.17	29.21	66.2	72.0	75	65	64.7	92	69.0	86	SE	4	SE	3	.....	.10	10 s., se	8 s. cu., se	
8	29.39	29.33	52.5	56.0	68	52	46.0	60	51.1	72	N	17	E	9	.....	T.	10 s., n	10 s., ne	
9	29.23	29.17	52.2	61.0	62	51	52.2	100	60.4	96	E	9	W	6	.01	.05	D. fog, e	10 s., s	
10	29.33	29.49	60.3	63.8	68	58	58.8	92	57.0	67	N	9	N	13	.....	.....	3 s., n	2 ci. s., sw	
11	29.62	29.51	52.0	65.0	69	51	49.0	81	58.2	67	N	10	NE	12	.....	.....	7 a. s., sw	9 a. s., sw	
12	29.48	29.35	54.8	61.0	63	54	51.8	82	58.0	84	N	7	SE	8	.....	.02	8 a. s., sw	10 a. s., sw	
13	29.27	29.18	51.6	70.5	75	51	49.1	84	61.0	58	W	5	N	6	.....	.....	Few a. s., 0 (?)	0	
14	29.26	29.21	52.0	72.1	76	50	50.0	88	61.4	54	N	4	N	6	.....	.....	0	8 s. cu., n	
15	29.27	29.20	57.1	69.8	72	55	55.0	88	63.0	69	NE	6	E	4	.....	.....	8 s., ne	10 s. cu., e	
16	29.25	29.19	59.0	70.0	73	56	57.1	90	63.0	68	SE	2	SE	6	.....	.....	10 s., se	8 ci. s., sw	
17	29.21	29.13	62.1	68.9	72	60	59.0	83	63.8	76	SE	8	SE	8	.....	.....	10 s. cu., se	10 s. cu., se	
18	29.12	29.05	63.5	71.7	75	63	61.7	91	67.2	80	SE	4	SE	10	.....	T.	10 s. cu., se	10 s. cu., se	
19	29.12	29.20	68.5	60.2	69	53	66.5	90	57.3	84	SE	2	N	9	.....	.82	10 s. cu., se	1 s. cu. (?)	
20	29.43	29.36	48.8	52.9	58	46	44.8	74	48.0	70	N	18	NE	12	.....	.....	8 a. s., sw	10 a. s., sw	
21	29.34	29.18	46.5	59.9	65	45	43.0	76	52.0	59	N	9	E	7	.....	.....	8 a. s., 0 (?)	10 a. s., w	
22	29.14	29.02	49.3	69.4	72	49	47.8	90	61.0	62	SE	1	S	4	.....	.....	3 a. s., sw	1 ci. s., sw	
23	29.26	29.37	49.0	55.0	61	47	44.0	67	48.3	61	N	16	NE	15	T.	.....	10 s., n	8 a. s., sw	
24	29.54	29.49	49.1	54.4	55	48	40.1	43	46.8	57	NE	12	N	6	.....	.....	10 a. s., sw	9 a. s., sw	
25	29.51	29.43	49.2	64.0	68	48	42.2	55	54.0	52	NE	8	SE	7	.....	.....	5 a. s., 0 (?)	9 a. cu., sw	
26	29.38	29.29	52.9	54.0	58	52	49.4	78	54.0	100	SE	7	E	7	.....	.19	8 a. s., sw	10 n., e	
27	29.26	29.30	54.3	58.7	73	51	53.8	97	55.0	80	E	2	NW	20	T.	.....	D. fog, e	2 s. cu., nw	
28	29.46	29.46	48.0	55.7	62	47	44.6	76	50.4	70	NW	11	N	8	.....	.....	3 s. cu., nw	1 s. cu., n	
29	29.45	29.30	42.5	65.5	70	42	40.5	85	58.0	64	NW	5	NE	4	.....	.....	0	8 ci. s., nw	
30	29.27	29.15	51.5	70.6	74	50	48.0	78	60.2	55	NE	3	SE	4	.....	.....	Few a. s., 0 (?)	3 ci. s., nw	
31	29.16	29.17	56.0	76.7	79	55	54.7	92	67.3	61	SE	5	SE	6	.....	.....	10 s., se	3 ci. s., w	≡a.
Mn	29.34	29.28	53.4	62.9	66.9	51.4	50.6	82.3	57.3	72.5	SE	7.2	SE	7.7	.05	1.24	6.8 a. s., s.; se.	7.4 s. cu., sw	

APRIL, 1903.

1	29.24	29.12	64.5	79.0	85	63	62.0	87	70.0	64	S	8	SE	7	.....	.....	10 s., s	5 ci. s., nw	
2	29.10	28.86	64.2	80.0	85	63	62.2	90	73.0	72	SE	5	SE	15	.....	.....	10 s. cu., se	9 ci. s., sw	
3	29.20	29.43	66.0	65.0	75	56	51.0	33	58.1	44	NW	12	N	8	.....	.....	Few a. s., 0 (?)	2 a. s., sw	
4	29.54	29.35	44.5	62.0	66	44	40.0	68	52.7	54	N	4	SE	7	.....	.....	6 ci. s., sw	9 ci. s., w	
5	29.30	29.22	50.5	67.5	71	49	47.5	81	59.8	64	SE	4	SE	13	.....	.....	10 a. s., sw	10 s. cu., se	
6	29.22	29.14	58.9	74.2	77	57	57.0	90	66.6	68	SE	3	SE	6	.....	.....	10 s., se	7 ci. s., sw	≡a.
7	29.18	29.10	67.2	77.3	80	66	65.2	90	69.7	69	SE	6	S	5	T.	.....	10 s., se	3 ci. s., sw	
8	29.21	29.19	68.0	80.4	82	67	67.8	99	78.2	71	S	5	SE	5	.....	.....	D. fog, s	1 ci. s., sw	
9	29.29	29.16	64.9	74.0	79	63	62.8	89	69.0	78	SE	5	SE	12	.....	.....	10 s. cu., se	9 a. s., sw	
10	29.21	29.10	67.7	74.0	78	65	65.7	90	70.0	82	SE	5	SE	10	.....	.....	10 s. cu., se	10 s., se	
11	29.08	29.03	68.0	77.2	79	67	65.5	88	72.3	79	SE	5	SE	4	.....	T.	10 s. cu., se	5 s. cu., se	
12	29.04	28.96	69.1	74.0	76	68	68.2	95	71.5	89	SE	4	SE	3	T.	T.	10 s., se	10 a. s., w	
13	29.17	29.23	59.0	64.0	70	55	55.0	78	55.0	56	N	19	N	12	T.	.....	8 a. s., w	8 a. s., sw	
14	29.35	29.20	53.0	69.2	72	52	48.0	58	56.1	40	NW	5	N	4	.....	.....	7 a. s., sw	2 ci. s., sw	
15	29.26	29.21	50.5	65.5	70	49	45.0	66	54.5	48	N	1	NE	5	.....	.....	8 a. s., sw	8 a. s., sw	
16	29.31	29.27	52.0	72.8	77	51	49.3	83	57.3	39	SE	2	SE	6	.....	.....	8 a. s., sw	8 a. s., sw	
17	29.31	29.17	52.0	69.2	76	51	47.5	72	57.0	46	S	4	SE	8	.....	.....	9 ci. s., sw	7 ci. s., sw	
18	29.06	28.98	64.0	75.0	77	59	61.0	85	65.0	59	SE	12	SE	7	.....	T.	10 s., se	Few ci., 0	
19	29.10	29.08	66.5	82.5	89	64	64.0	88	59.0	22	SW	5	NW	7	.....	.....	10 s. cu., sw	5 ci. s., sw	
20	29.30	29.28	63.2	80.0	85	58	51.7	45	62.4	36	N	7	NE	4	.....	.....	6 a. cu., w	4 ci. s., w	
21	29.38	29.32	63.5	65.6	72	62	54.0	54	56.4	56	NE	12	N	5	.....	T.	7 a. cu., sw	9 a. s., w	
22	29.39	29.30	55.9	76.0	80	53	50.4	69	57.7	31	N	8	NE	4	.....	.....	1 a. s., 0 (?)	0	
23	29.38	29.29	56.1	75.7	80	51	50.1	66	59.4	37	NE	4	SE	5	.....	.....	Few a. s., 0 (?)	0	
24	29.35	29.22	53.4	74.6	80	52	50.9	85	66.0	64	SE	3	SE	15	.....	.....	Few cu., se	7 a. s., sw	
25	29.30	29.31	65.0	71.0	81	64	62.0	85	66.4	79	SE	6	NE	10	.....	0.01	8 s., se	10 a. s., sw	
26	29.39	29.25	57.4	72.2	75	57	53.5	77	61.4	54	NE	15	E	7	.....	.....	7 a. s., sw	Few a. s., 0 (?)	
27	29.29	29.22	61.0	71.7	75	60	58.7	87	64.2	67	SE	7	E	18	.....	T.	10 s. cu., se	7 a. s., sw	
28	29.25	29.21	66.5	70.4	71	64	64.0	88	66.3	79	SE	9	SE	15	.....	.05	10 s. cu., se	10 s., e	
29	29.26	29.25	58.0	60.0	68	57	58.0	100	60.0	100	SE	4	NE	4	0.80	.88	10 n., se	8 s., sw	
30	29.63	29.56	44.9	61.4	64	44	39.4	61	51.8	52	N	17	N	8	.....	.....	4 a. s., sw	2 ci., sw	⊕
Mn	29.27	29.20	59.8	72.0	76.5	57.7	55.8	78.2	62.5	60.0	SE	6.9	SE	8.0	.80	.94	7.3 a. s., se.	5.8 a. s., sw	

SAN ANTONIO, TEX.

[φ=29° 27′ N; λ=98° 28′ W; barometer above sea, 701 feet; gravity correction applied, −.04.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.60	29.36	45.0	65.4	68	44	41.0	71	55.2	52	N	9	SE	5			2 ci., sw	0	⊕
2	29.33	29.23	48.9	76.2	79	48	46.4	83	64.0	51	0	0	SE	6			0	Few ci. s., 0 (?)	
3	29.41	29.37	61.5	67.4	72	58	54.0	62	58.5	59	N	13	NE	6			8 a. cu., se	10 ci. s., sw	
4	29.36	29.25	58.5	67.0	75	57	53.0	70	64.7	89	NE	5	SE	5		0.02	7 ci. s., w	10 a. s., sw	
5	29.23	29.08	63.0	70.6	74	61	61.7	93	64.7	73	0	0	NE	5	0.07	T.	10 n., se	5 a. s., sw	
6	29.12	29.08	60.9	64.0	80	57	60.7	99	59.2	76	N	1	N	5		.06	D. fog, n	8 a. s., nw	☐
7	29.19	29.11	60.4	76.8	80	58	58.3	88	64.0	44	W	1	NW	4			2 s. cu., nw	Few ci. s., 0 (?)	☐
8	29.11	29.00	60.5	82.0	87	57	56.4	78	68.0	49	NW	1	S	5			4 ci. s, sw	8 ci. s., w	
9	29.10	29.02	64.0	78.0	86	62	60.0	79	69.0	64	NE	6	SE	16			5 ci. s., w	9 a. s., sw	
10	29.11	28.99	61.0	72.0	73	59	61.0	100	65.0	69	NW	11	SE	8	.92	.20	10 n., nw	10 s. cu., se	☐
11	29.05	29.03	64.7	81.0	84	62	62.7	90	70.1	58	NE	3	N	4	.08		10 s., ne	8 cu., n	☐
12	29.20	29.20	64.9	76.2	79	63	61.4	82	63.8	51	N	8	NW	5			2 cu., n	3 ci. s., sw	
13	29.24	29.18	60.6	75.0	77	57	54.1	66	62.0	48	NW	12	NW	8			3 a. s., w	3 cu., nw	
14	29.19	29.10	61.2	79.0	84	57	57.7	81	65.2	48	NW	5	N	6			0	2 ci. s., sw	
15	29.18	29.08	64.0	79.8	83	61	58.5	72	67.4	52	N	4	SE	4			7 ci. s., sw	3 ci. s., sw	
16	29.16	29.08	66.3	77.0	85	62	62.0	79	67.3	61	SE	3	SE	17			2 a. cu., sw	3 cu., se	
17	29.17	29.12	68.0	71.4	74	61	62.9	99	68.0	84	E	10	SE	9	.54	.01	9 a. s., sw	10 s., se	☐
18	29.15	29.05	68.5	77.0	80	67	67.0	93	73.0	83	SE	4	SE	8	T.	.01	10 n., se	10 s., se	
19	29.16	29.10	73.2	79.0	84	71	71.2	91	73.2	76	SE	4	SE	12	T.	.02	10 s. cu., se	10 a. s., w	
20	29.18	29.13	71.9	77.0	81	70	70.0	91	72.0	79	SE	6	SE	16	T.	T.	10 s., se	9 s. cu., se	
21	29.15	29.08	74.0	79.0	82	72	70.0	82	73.8	78	SE	12	SE	12	T.	T.	10 s. cu., sw	5 ci. s., sw	
22	29.15	29.14	78.5	78.0	81	72	70.0	84	69.2	65	SE	8	SE	15	T.	.01	10 s. cu., se	6 ci. s., sw	
23	29.20	29.17	78.0	76.2	79	71	70.3	88	70.3	75	SE	9	SE	9	T.	T.	10 s., se	9 s. cu., se	
24	29.20	29.17	71.3	78.0	83	69	68.8	88	70.0	67	SE	7	SE	13			10 s. cu., se	8 a. s., sw	
25	29.23	29.20	70.0	79.5	85	69	67.7	89	71.0	66	SE	4	SE	16			10 s. cu., se	6 ci. s., sw	
26	29.22	29.10	70.0	82.2	88	68	68.0	90	75.0	72	SE	7	SE	14			10 s., se	10 ci. s., sw	
27	29.21	29.15	72.7	78.8	84	72	71.0	90	71.7	71	E	6	SE	12		T.	10 s. cu., e	10 a. s., sw	☐
28	29.15	29.07	73.3	82.3	85	72	70.8	89	71.4	59	E	8	SE	7	T.		10 s. cu., e	4 ci. s., sw	☐
29	29.16	29.16	73.7	84.0	88	71	71.2	89	75.2	67	SE	6	SE	4			10 s. cu., se	5 a. s., nw	☐
30	29.29	29.22	68.5	85.0	88	66	66.0	88	66.8	38	NE	3	NW	7	.01		Few cu., ne	0	
31	29.31	29.19	62.0	81.3	83	59	56.0	69	63.0	35	NW	5	NW	7			Few ci. s., 0 (?)	2 ci. s., sw	
Mn	29.21	29.14	65.3	76.7	81.0	63.0	62.3	84.3	67.5	63.2	SE	5.8	SE	8.7	1.62	.33	6.5 s. cu., se	6.0 ci. s., sw	

JUNE, 1903.

1	29.29	29.21	60.5	80.1	83	56	54.0	66	64.7	43	N	7	E	12			4 a. s., sw	4 ci. s., sw	☐
2	29.33	29.32	60.0	65.0	72	59	59.2	95	62.1	85	N	12	NE	13	0.55	0.19	10 n., n	10 s., ne	☐
3	29.34	29.24	62.9	77.0	80	61	60.2	86	65.2	53	N	8	E	7			4 a. cu., 0 (?)	4 s. cu., e	
4	29.34	29.26	63.5	81.4	86	61	60.0	82	66.5	45	E	4	SE	6			0	Few cu., se	
5	29.38	29.30	65.5	84.4	88	62	62.0	82	69.0	61	E	3	E	5			Few ci., 0 (?)	2 cu., e	
6	29.41	29.31	68.5	84.7	88	65	65.0	83	69.5	46	0	0	SE	6			8 s. cu., sw	3 ci. s., sw	
7	29.37	29.21	68.9	86.0	90	67	66.4	88	70.1	45	S	3	S	5			3 ci. s., sw	2 ci. s., sw	
8	29.26	29.14	69.0	87.8	92	66	66.0	86	69.0	39	SW	5	SE	3			2 ci. s., sw	6 a. s., nw	
9	29.21	29.18	74.0	74.0	89	69	69.0	78	71.5	89	NE	3	W	3		.04	2 ci. s., sw	10 a. s., sw	
10	29.27	29.27	69.7	77.8	86	68	66.6	86	70.0	68	NW	8	N	8	.06		10 s., nw	8 cu., n	
11	29.34	29.28	71.0	76.0	78	68	69.0	82	65.5	76	NE	14	NE	13			10 s., ne	10 a. s., w	
12	29.28	29.19	67.5	67.0	72	61	65.0	88	60.0	85	NE	14	NE	17		.01	10 a. s., w	10 a. s., w	
13	29.21	29.22	55.7	60.0	61	54	55.7	100	57.0	84	NE	14	NE	12	.76	.78	10 n., ne	10 s., ne	
14	29.24	29.21	59.0	68.0	69	58	56.5	86	62.0	67	N	6	N	3			10 s., n	10 s., n	
15	29.25	29.19	64.9	80.2	83	63	62.4	87	68.0	54	NE	1	SW	4			1 a. s., 0 (?)	Few cu., sw	
16	29.25	29.19	70.1	83.0	87	65	66.1	81	70.4	54	0	0	NE	4			1 a. s., 0 (?)	Few cu., ne	
17	29.26	29.21	69.0	86.0	90	67	65.1	81	68.6	41	N	3	N	4			0	0	
18	29.21	29.13	70.2	87.8	92	66	65.1	77	69.6	41	N	3	SW	4			0	Few cu., sw	
19	29.14	29.07	72.3	87.4	91	67	66.3	73	70.3	43	S	2	SE	6			Few ci. s., 0 (?)	1 ci. s., w	
20	29.12	29.05	72.0	87.2	90	68	68.0	82	71.0	46	SE	8	SE	4	T.		4 ci. s., w	Few cu. n., 0 (?)	☐
21	29.10	28.98	72.0	89.6	93	70	70.1	91	74.0	48	SW	2	SE	4			9 s., sw	7 ci. s., sw	
22	29.10	29.07	66.0	90.0	92	65	64.0	90	72.0	42	E	3	NE	5	.07		8 a. s., w	Few ci. s., 0 (?)	☐
23	29.13	29.01	74.0	91.9	94	69	69.5	80	75.0	45	NE	3	SE	6			0	3 ci. s., sw	
24	29.00	28.92	73.1	94.5	99	71	69.6	84	77.5	46	SE	2	SE	8			1 cu., se	1 ci. s., sw	☐
25	29.04	29.08	74.4	88.8	93	73	71.0	84	76.1	56	E	9	SE	7			1 ci. s., 0 (?)	4 cu., se	☐
26	29.20	29.09	70.4	87.0	91	67	68.1	89	75.0	58	N	4	E	6	1.17		7 cu., n	3 ci. s., nw	☐
27	29.19	29.09	69.4	81.1	84	68	67.9	93	75.8	78	N	9	E	5	T.	1.12	8 a. s., w	10 a. s., w	☐
28	29.11	29.04	74.0	88.0	91	70	71.0	86	75.0	55	N	6	SE	5			Few a. s., 0 (?)	2 cu., se	
29	29.11	29.10	75.5	85.3	90	73	73.0	89	75.0	62	SE	3	SE	7			10 s. cu., se	2 ci. s., nw	
30	29.19	29.14	74.5	79.0	84	73	72.5	91	71.4	70	SE	6	E	4		T.	10 s. cu., se	8 a. s., nw	
Mn	29.22	29.16	68.6	81.9	85.9	65.7	65.5	84.9	69.6	57.5	N	5.5	SE	6.5	2.61	2.14	4.8 a. s., sw	4.3 ci. s., sw	

SAN ANTONIO, TEX.

[φ=29° 27′ N; λ=98° 28′ W; barometer above sea, 701 feet; gravity correction applied, −.04.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.08	29.00	72.0	77.1	87	70	70.7	94	71.4	76	0	0	SE	6	0.13	.....	10 s. cu., se	9 a. s., w	
2	28.98	28.97	71.1	82.5	85	70	70.7	98	78.0	82	NE	8	SE	12	1.43	T.	10 s., ne	7 s. cu., se	
3	29.07	29.10	78.0	85.0	90	76	73.5	81	78.0	74	SE	12	SE	12	.....	.....	9 s. cu., se	8 cu., se	
4	29.23	29.20	75.5	85.2	90	65	73.0	89	77.0	70	SE	8	SE	12	.....	.....	10 s. cu., se	4 a. s., sw	
5	29.33	29.32	70.8	76.0	86	65	70.8	100	75.4	98	SE	4	NE	5	2.02	0.14	10 n., se	10 n., ne	
6	29.35	29.28	71.0	84.2	87	70	70.7	99	78.3	59	SE	2	SE	4	.79	.....	D. fog, se	Few cu., se	
7	29.31	29.23	72.0	86.6	88	70	69.0	86	74.7	57	SE	2	SE	4	.....	T.	8 s. cu., se	2 cu., se	
8	29.32	29.26	75.0	83.5	89	72	72.0	87	76.0	71	SE	1	NE	4	.....	.16	6 cu., se	2 ci. s., w	
9	29.36	29.25	74.5	85.8	89	72	72.0	89	75.0	61	SE	2	SE	7	.....	.....	10 s. cu., se	2 ci. s., nw	
10	29.32	29.24	74.5	85.4	88	73	72.1	89	74.3	60	SE	2	SE	7	.....	.....	9 s. cu., se	2 ci. s., nw	
11	29.27	29.16	74.2	84.0	90	72	72.1	91	75.8	69	SE	3	SE	8	.....	.....	2 cu., se	4 ci. s., sw	
12	29.25	29.18	74.5	87.5	91	73	72.0	89	75.0	56	SE	4	SE	5	.....	.....	2 s. cu., se	1 cu., se	
13	29.30	29.24	77.1	89.4	93	74	73.0	83	76.2	55	SE	2	SE	4	.....	.....	2 a. s., 0 (?)	2 a. s., n	
14	29.31	29.20	74.5	87.4	91	72	71.0	84	76.0	60	E	5	SE	6	.....	.....	1 cu., e	Few cu., se	
15	29.30	29.21	74.8	87.3	91	72	72.8	91	73.8	53	SE	5	SE	7	.....	.....	8 s. cu., se	Few cu., se	
16	29.29	29.20	74.8	87.2	90	73	72.3	89	74.0	54	SE	2	SE	9	.....	.....	10 s. cu., se	1 cu., se	
17	29.24	29.14	75.9	87.5	92	74	72.4	85	75.0	56	SE	5	SE	12	.....	.....	7 s. cu., se	Few cu., se	
18	29.26	29.21	76.5	89.0	92	74	73.0	85	73.2	42	SE	7	SE	6	.....	.....	5 s. cu., se	0	
19	29.31	29.24	75.0	88.9	94	72	73.0	91	73.8	50	S	2	SE	8	.....	.....	3 s. cu., s	Few cu., se	
20	29.31	29.24	74.8	90.9	96	73	71.3	84	76.0	51	SE	3	SE	4	.....	.....	1 cu., se	6 a. s., n	
21	29.33	29.24	75.7	90.8	95	74	72.2	85	74.0	45	SE	1	SE	8	.....	.....	2 cu., se	1 cu., se	
22	29.33	29.25	72.8	89.0	93	71	70.1	88	72.0	44	SE	1	SE	6	.....	.....	0	1 ci., nc	
23	29.32	29.26	75.5	89.0	93	74	73.0	89	72.0	44	SE	3	SE	6	.....	.....	5 s. cu., se	Few ci., 0 (?)	
24	29.30	29.20	71.3	89.3	92	68	68.8	88	74.4	50	SE	2	E	6	.....	.....	7 s. cu., se	Few ci. s., 0 (?)	
25	29.28	29.20	73.5	81.2	84	69	70.6	87	71.3	62	S	3	SE	4	.....	.05	Few cu., 0 (?)	2 ci. s., n	
26	29.30	29.25	69.7	80.0	87	69	67.2	88	71.0	64	E	3	E	5	.....	.....	2 ci. s., n	6 cu., e	
27	29.28	29.20	73.4	68.0	80	66	71.4	91	68.0	100	NE	3	SE	5	.06	1.15	4 a. s., sw	10 n., se	
28	29.18	29.10	69.0	80.8	82	67	67.0	90	74.2	74	SE	1	SE	6	.21	.07	9 a. s., nc	7 s. cu., se	
29	29.12	29.10	76.8	82.0	84	67	74.8	91	76.4	78	SE	5	E	7	.01	.62	10 s. cu., se	8 s. cu., e	
30	29.19	29.18	70.5	77.0	81	69	70.1	98	74.0	87	NW	5	E	8	.47	.21	10 s. cu., nw	9 a. s., sw	
31	29.25	29.19	70.5	80.0	82	70	69.0	93	76.0	83	SE	4	SE	6	T.	.....	9 a. s., w	9 a. s., sw	
Mn	29.26	29.20	73.7	84.4	88.8	70.8	71.3	89.4	74.4	64.0	SE	3.2	SE	6.7	5.12	2.40	5.8 s. cu., se	3.6 cu., se	

AUGUST, 1903.

1	29.24	29.25	76.0	81.1	88	74	73.7	90	76.2	80	SE	9	SE	8	.....	0.05	10 s. cu., se	7 a. s., sw	
2	29.38	29.38	76.0	75.8	89	72	75.0	96	73.2	91	SE	4	NE	7	.....	.07	5 s. cu., se	8 a. s., sw	
3	29.42	29.33	73.0	78.0	87	71	70.8	90	75.2	88	NE	3	NE	3	.....	T.	10 s. cu., ne	7 ci. s., sw	
4	29.32	29.22	73.6	82.3	88	72	72.1	93	75.2	72	E	2	SE	7	.....	.....	10 s., e	3 ci. s., sw	
5	29.25	29.20	74.0	85.0	88	73	72.6	89	74.0	60	SE	2	SE	6	.....	.....	3 s. cu., se	1 cu., se	
6	29.34	29.29	74.0	86.5	90	72	71.7	90	75.0	59	SE	3	SE	5	.....	T.	10 s. cu., se	2 ci., sw	
7	29.34	29.26	75.0	86.4	89	72	71.7	85	73.5	54	SE	1	SE	4	0.01	.....	1 cu., se	2 ci., sw	
8	29.26	29.12	73.0	86.1	90	72	69.7	85	75.0	60	SE	2	SE	8	.....	.....	0	1 cu., se	
9	29.20	29.13	75.5	85.0	90	74	72.0	84	74.0	60	SE	1	SE	11	.....	.....	2 s. cu., se	3 cu., se	
10	29.22	29.17	74.5	78.9	89	73	71.5	86	73.0	73	SE	3	SE	7	.....	T.	10 s. cu., se	3 ci. s., sw	
11	29.28	29.18	74.5	86.0	90	71	71.1	84	75.0	60	E	2	SE	7	.....	.....	10 s. cu., e	1 ci., sw	
12	29.25	29.15	74.8	86.5	90	74	72.3	89	75.4	60	SE	5	SE	8	.....	.....	10 s. cu., se	1 cu., sc	
13	29.20	29.11	73.0	85.0	90	72	70.5	89	73.2	57	S	3	SE	8	.....	.....	4 s. cu., s	0	
14	29.23	29.17	72.3	83.0	91	70	70.1	90	74.5	68	E	3	SE	7	.....	.....	10 s., e	4 ci. s., w	≡0a.
15	29.24	29.23	74.0	82.6	90	73	71.0	86	76.4	76	E	8	E	6	.....	.01	2 a. s., 0	7 a. s., nw	
16	29.31	29.20	74.3	89.0	94	72	73.5	96	77.3	59	E	3	SE	5	.....	.....	6 s. cu., e	3 ci. s., sw	
17	29.27	29.17	75.0	90.3	96	74	72.0	87	76.1	53	SE	3	SE	6	.....	.....	2 ci. s., sw	Few ci., 0 (?)	
18	29.16	29.09	75.4	78.0	95	73	71.9	84	72.8	78	SE	3	SE	7	.....	.01	1 a. s., 0	8 a. s., w	
19	29.13	29.10	71.4	84.9	91	69	69.0	89	71.0	50	0	0	NE	6	.....	.....	0	0	
20	29.21	29.16	71.3	85.5	91	70	66.3	77	71.1	50	N	7	NE	6	.....	.....	0	0	
21	29.24	29.16	70.0	87.0	92	69	65.8	80	71.8	48	NE	5	SE	7	.....	.....	0	4 ci. s., w	
22	29.22	29.18	72.0	85.0	89	69	68.6	84	73.0	56	SE	3	SE	6	.....	.....	8 s., sc	8 a. s., sw	
23	29.21	29.16	75.0	83.0	85	73	72.6	89	75.0	70	SE	3	E	10	.....	.03	9 a. s., sw	4 cu., e	
24	29.21	29.16	74.5	84.5	91	74	72.4	91	76.3	70	SE	3	SE	10	.....	.02	8 s. cu., se	3 ci. s., sw	≡0a
25	29.29	29.22	74.9	86.3	92	73	72.4	89	76.0	62	SE	4	SE	12	.....	.....	8 s. cu., se	3 ci. s., sw	
26	29.30	29.19	73.5	86.4	92	62	72.0	93	75.4	60	SE	3	SE	12	.....	.....	10 s., se	3 ci. s., sw	≡0a.
27	29.27	29.18	72.9	84.6	92	62	70.4	89	75.3	65	S	5	SE	12	.....	.....	8 s. cu., se	1 cu., se	
28	29.28	29.22	72.6	86.3	92	71	70.2	89	74.1	56	S	5	SE	8	.....	.....	10 s., s	1 cu., se	
29	29.30	29.22	72.4	88.0	93	71	71.0	93	78.0	49	SE	2	SE	6	.....	.....	10 s., se	1 ci. s., 0(?)	≡0a.
30	29.26	29.17	71.5	88.8	94	69	70.0	93	74.0	50	SE	2	SE	6	.....	.....	0	1 ci. s., sw	
31	29.26	29.27	71.6	77.4	91	70	69.0	87	69.3	67	E	2	W	7	.....	T.	6 s. cu., e	8 a. s., sw	
Mn	29.26	29.20	73.6	84.3	90.6	71.8	71.1	88.3	74.2	63.3	SE	3.4	SE	7.4	.01	.19	5.9 s. cu., se	3.2 ci. s., sw	

SAN ANTONIO, TEX.

[$\varphi = 29° 27'$ N; $\lambda = 98° 28'$ W; barometer above sea, 701 feet; gravity correction applied, −.04.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R.H.	Wet.	R.H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	29.31	29.28	70.7	84.0	89	68	68.2	88	70.4	51	N	4	E	7	.....	.....	Few cu., n	Few cu. n., 0(?)	
2	29.36	29.27	68.5	85.0	91	67	65.0	83	69.2	45	SE	3	SE	5	.....	.....	3 a. cu., ne	Few cu., se	
3	29.35	29.24	66.7	84.1	89	65	64.0	87	68.4	45	SE	2	SE	4	.....	.....	1 a. s., 0(?)	4 a. s., sw	
4	29.31	29.25	67.2	83.6	90	66	64.7	88	68.6	47	SE	3	E	7	.....	.....	1 a. s., sw	4 a. s., sw	
5	29.33	29.20	64.8	82.8	89	63	61.3	82	66.3	42	NE	4	E	5	.....	.....	1 cu., ne	Few cu. n., 0(?)	
6	29.25	29.10	67.4	86.0	91	66	65.2	89	70.0	45	E	3	SE	9	.....	.....	10 s., e	Few cu., se	
7	29.18	29.11	73.4	85.7	92	72	71.4	91	73.4	57	SE	5	SE	12	.....	.....	10 s. cu., se	5 a. s., sw	
8	29.24	29.17	72.1	87.4	92	71	70.2	91	73.0	51	SE	2	SE	8	.....	.....	8 s. cu., se	3 ci. s., sw	
9	29.27	29.19	75.5	79.2	91	73	72.5	87	74.0	78	SE	2	SE	7	.....	.....	6 s. cu., se	9 a. s., sw	
10	29.23	29.17	72.0	74.0	82	69	71.6	98	73.0	95	E	5	E	7	0.60	1.57	10 n., e	10 a. s., sw	☐
11	29.18	29.04	74.0	83.2	88	72	73.1	96	74.0	65	SE	6	SE	7	T.	.....	10 s., se	5 ci. s., sw	
12	29.15	29.09	74.0	84.8	90	72	71.7	90	77.0	71	SE	3	SE	6	.....	.....	10 s., se	7 a. s., sw	
13	29.20	29.13	76.5	85.3	90	74	74.5	91	75.0	62	SE	4	SE	12	T.	.....	10 s. cu., se	4 ci. s., sw	
14	29.22	29.12	73.5	86.3	91	72	71.5	91	74.0	56	SE	2	SE	4	.....	.....	7 s. cu., se	4 ci. s., sw	
15	29.26	29.18	73.3	85.5	92	72	71.3	91	73.3	56	S	3	SE	4	.....	.....	9 s. cu., s	8 a. s., w	
16	29.29	29.44	71.0	60.0	79	59	68.5	88	56.0	78	NE	7	N	12	.....	.04	10 s. cu., se	8 a. s., sw	
17	29.57	29.48	56.4	70.5	77	56	50.9	60	53.5	30	N	8	NE	6	.....	.....	8 a. s., sw	0	☐
18	29.52	29.40	50.5	73.3	80	50	45.0	66	56.4	34	NE	6	E	6	.....	.....	0	0	
19	29.43	29.33	57.2	77.2	82	56	53.7	80	64.5	50	E	3	SE	6	.....	.....	0	Few ci. s., 0(?)	
20	29.38	29.32	61.5	78.5	84	60	58.0	81	65.0	48	E	5	SE	5	.....	.....	Few a. s., 0	8 ci. s., sw	
21	29.41	29.35	62.2	80.5	86	61	60.2	89	67.0	50	E	4	E	6	.....	.....	4 a. s., sw	10 ci. s., sw	
22	29.44	29.35	65.8	80.6	86	65	64.0	91	66.0	46	E	3	SE	6	.....	.....	3 ci. s., w	3 ci. s., w	
23	29.40	29.31	61.7	81.0	89	61	59.2	87	64.1	39	E	4	E	2	.....	.....	3 ci. s., w	9 a. s., nw	
24	29.36	29.27	68.0	82.2	90	66	59.2	60	62.3	31	E	6	E	5	.....	.....	4 a. cu., w	0	
25	29.27	29.17	61.0	80.0	86	60	56.0	74	65.0	44	NE	4	SE	6	.....	.....	Few ci. s., 0(?)	2 ci. s., sw	
26	29.20	29.18	64.0	83.9	89	62	61.0	85	69.0	47	SE	2	SE	4	.....	.....	3 ci. s., sw	3 ci. s., sw	
27	29.32	29.29	73.9	79.3	86	71	71.5	89	69.2	62	SE	3	NE	7	.....	T.	10 s., se	10 a. s., nw	
28	29.32	29.28	72.2	72.3	79	70	70.7	93	72.3	100	E	8	NE	12	T.	.25	10 a. s., w	10 n., ne	☐
29	29.29	29.19	70.8	81.5	89	70	69.3	93	72.0	63	E	3	SE	7	.50	.....	10 s., e	9 a. s., nw	
30	29.28	29.25	74.1	83.0	90	73	71.0	86	72.0	58	SE	5	SE	12	.....	.....	7 s. cu., se	2 ci. s., sw	
Mn.	29.31	29.24	68.1	80.7	87.3	66.1	65.1	85.5	68.5	54.9	SE	4.1	SE	6.9	1.10	1.86	5.6 s. cu., se.	4.6 ci. s., a. s., sw.	

OCTOBER, 1903.

1	29.36	29.32	73.5	83.2	89	72	71.0	89	71.0	55	SE	3	SE	2	.....	.....	8 s. cu., se	2 ci. s., sw	
2	29.37	29.27	73.8	83.2	89	72	71.3	89	73.3	63	SE	5	SE	6	.....	.....	7 s. cu., se	2 ci., s., w	
3	29.28	29.20	73.6	82.1	88	72	72.0	93	74.0	55	SE	5	SE	6	T.	T.	10 s. cu., se	8 a. s., sw	
4	29.27	29.23	74.8	77.3	86	74	72.3	89	70.3	71	SE	5	SE	5	.....	.....	8 cu., se	8 a. s., sw	
5	29.26	29.22	72.2	72.1	88	67	71.7	98	70.0	91	SE	7	E	6	0.34	0.14	10 n., se	9 s. cu., e	☐
6	29.17	28.99	68.4	81.0	87	66	67.1	94	70.5	60	E	3	SE	8	.....	.....	10 s. cu., e	3 ci. s., sw	
7	29.06	29.16	71.0	83.5	94	70	70.5	90	66.6	41	SE	4	NW	12	.....	.....	10 s. cu., se	3 s. cu., nw	
8	29.44	29.44	68.9	74.6	82	65	52.9	32	55.4	27	NE	14	NE	6	.....	.....	4 cu., ne	Few ci. s., 0(?)	
9	29.47	29.39	61.0	75.0	82	57	49.0	40	56.4	30	NE	12	SE	6	.....	.....	3 a. cu., w	3 ci. s., sw	
10	29.39	29.21	62.0	74.3	82	60	52.0	50	58.0	34	NE	5	SE	5	.....	.....	8 a. s., sw	0	
11	29.17	29.07	54.8	77.0	84	53	50.0	71	64.0	49	NE	4	SE	6	.....	.....	0	0	
12	29.13	29.20	59.6	72.0	80	58	57.7	90	68.3	83	E	3	NW	4	.....	.01	3 a. s., n	9 a. s., w	☐
13	29.35	29.30	52.1	73.4	80	52	49.5	84	66.6	70	0	0	W	4	.....	.....	0	Few ci. s., 0(?)	
14	29.32	29.14	51.5	75.2	82	50	47.0	72	63.4	52	NE	5	SE	6	.....	.....	1 a. s., 0(?)	8 a. s., sw.	
15	29.14	29.06	65.2	72.0	87	64	63.0	89	66.0	73	E	4	N	14	.....	.....	10 s. cu., se	5 a. s., sw	☐
16	29.29	29.28	56.2	65.0	71	54	51.2	71	53.0	44	NW	12	NW	7	.....	.....	Few a. cu., 0(?)	0	
17	29.10	29.48	51.4	69.2	76	49	45.4	63	54.0	35	NW	7	N	7	.....	.....	0	0	
18	29.62	29.50	46.0	64.7	72	45	41.0	65	51.2	38	N	5	N	4	.....	.....	0	0	
19	29.49	29.36	44.0	69.1	79	42	40.0	71	52.3	30	N	4	SE	6	.....	.....	0	5 ci. s., sw	
20	29.36	29.33	50.5	68.3	77	48	45.6	69	55.5	44	SE	4	SE	6	.....	.....	5 a. s., w	9 a. s., sw	
21	29.38	29.32	53.2	70.0	78	53	50.1	81	56.3	41	E	5	E	6	.....	.....	3 a. cu., sw	0	
22	29.40	29.38	51.5	72.0	81	50	47.0	72	56.8	38	NE	5	NE	5	.....	.....	3 ci. s., sw	Few ci. s., 0(?)	
23	29.48	29.49	66.5	67.0	74	55	51.0	69	53.1	38	N	9	N	7	.....	.....	3 ci. s., sw	2 ci. s., sw	
24	29.63	29.54	47.0	65.8	74	46	40.5	57	49.0	26	N	9	NE	2	.....	.....	0	0	
25	29.56	29.60	44.0	67.8	77	40	38.2	59	50.0	25	NE	3	SE	7	.....	.....	0	1 ci. s., sw	—
26	29.58	29.52	46.0	68.0	74	44	41.4	68	57.0	51	E	5	SE	6	.....	.....	3 ci. s., sw	7 a. s., w	
27	29.56	29.49	51.4	61.6	74	50	48.9	84	61.0	96	E	5	N	4	.....	.03	3 a. s., sw	10 n., n	
28	29.42	29.35	57.4	64.0	70	56	56.3	93	60.3	81	NE	6	E	8	.05	.40	8 cu., s	1 ci. s., sw	
29	29.33	29.19	57.0	68.6	73	56	57.0	100	61.4	67	E	4	SE	6	.....	.....	D. fog, e	8 ci. s., sw	
30	29.22	29.11	64.9	74.2	81	60	63.0	90	67.5	72	SE	3	SE	10	.....	.....	10 s., se	3 a. s., sw	
31	29.17	29.28	67.4	64.0	72	57	67.4	100	56.3	62	W	18	NW	7	.43	.21	10 n., w	0	☐
Mn.	29.36	29.30	58.9	72.1	80.1	56.7	54.9	75.9	60.9	53.0	{ne se}	53.0	SE	6.3	.82	.79	4.5 s. cu., se.	3.3 ci. s., sw	

SAN ANTONIO, TEX.

[φ=29° 27′ N; λ=98° 28′ W; barometer above sea, 701 feet; gravity correction applied, −.04.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.37	29.33	48.8	68.0	76	47	46.2	82	56.0	47	NW	5	S	3			1 ci. s., 0 (?)	2 ci., sw	
2	29.38	29.36	51.5	66.4	73	50	48.0	78	57.2	78	SW	5	S	2			2 ci. s., sw	9 a. s., sw	
3	29.40	29.36	51.5	68.8	79	50	48.0	78	57.5	50	S	5	SE	6			3 cu., s.	3 ci. s., sw	
4	29.36	29.27	54.6	72.5	80	53	52.1	85	63.0	60	SE	5	SW	2			8 s. cu., sw	1 ci. s., sw	
5	29.34	29.32	55.3	65.0	74	54	52.0	86	53.0	44	N	3	N	6			0	1 ci. s., sw	
6	29.40	29.38	48.0	65.2	74	47	45.0	80	55.0	52	NW	5	E	5			3 ci. s., sw	0	
7	29.43	29.35	47.0	68.0	76	45	44.6	84	58.4	57	NE	5	SE	6			0	0	
8	29.37	29.33	52.0	70.3	78	51	52.0	100	62.0	65	SE	4	SE	7			0	0	
9	29.35	29.29	61.9	71.3	79	60	61.4	97	63.3	61	SE	3	E	6			D. fog, se	3 ci. s., sw	
10	29.24	29.05	69.4	72.4	80	59	59.2	99	62.3	57	SE	2	SE	5			D. fog, se	3 ci. s., sw	
11	29.16	29.22	64.7	61.8	69	52	59.2	73	48.2	34	NW	10	N	4			6 cu., nw	2 ci. s., sw	
12	29.19	29.09	47.0	73.0	79	43	41.5	63	57.0	36	N	3	S	3			1 ci. s., 0 (?)	2 ci. s., sw	
13	29.16	29.16	66.0	80.4	87	61	65.8	100	69.3	57	SE	3	S	2			D. fog, se	Few ci., 0 (?)	
14	29.31	29.30	70.0	75.9	82	68	68.6	93	69.5	72	SE	4	E	6		T.	10 s., se	Few ci. s., 0 (?)	
15	29.26	29.11	71.3	79.4	87	70	68.8	88	68.9	59	SE	5	SE	11			10 s. cu., se	0	
16	29.13	29.14	71.0	74.2	81	59	68.0	86	62.8	53	SE	3	N	12			10 s. cu., se	4 a. s., sw	
17	29.39	29.58	45.0	49.0	59	43	39.0	58	37.3	27	N	13	N	27	T.	T.	10 n., n	8 a. s., sw	
18	29.86	29.82	32.5	42.0	44	31	25.0	28	31.5	24	N	20	N	10			7 a. cu., w	10 a. s., sw	[2]
19	29.79	29.65	37.2	46.6	50	37	29.2	33	35.1	32	NE	10	SE	7			8 a. s., sw	10 a. s., sw	
20	29.61	29.57	43.2	51.8	52	42	37.1	52	44.0	53	E	5	E	5			10 s., 0 (?)	10 s., s	
21	29.60	29.54	48.2	58.3	63	48	38.7	39	46.2	38	NE	9	NE	5			10 s., 0 (?)	10 s., 0 (?)	D. smoke.
22	29.52	29.39	51.2	64.8	69	50	41.0	40	56.3	59	NE	4	SE	5			10 s., 0 (?)	4 s., 0 (?)	D. smoke.
23	29.35	29.27	50.0	70.2	75	50	49.5	96	60.2	56	SE	3	SE	5			Lt. smoke, 0	0	
24	29.31	29.17	54.0	78.0	78	51	54.0	100	62.0	54	SE	3	SE	6			D. fog, se	Few a. s., 0 (?)	
25	29.29	29.43	58.2	56.2	64	48	55.0	82	46.7	48	N	9	N	6			3 a. cu., w	Lt. smoke, 0	Lt. smoke a.
26	29.65	29.62	39.5	53.7	60	38	37.0	80	44.2	46	N	12	N	6			Lt. smoke, 0	0	
27	29.63	29.44	34.9	59.0	66	34	33.0	82	47.0	39	NE	5	S	9			0	0	[3]
28	29.35	29.21	43.2	72.1	79	42	38.2	63	54.0	28	SW	10	SW	3			0	0	
29	29.37	29.32	47.1	59.7	68	46	40.0	54	46.0	32	N	6	E	8			0	0	
30	29.43	29.31	44.8	55.0	61	43	40.6	70	44.0	39	NE	7	E	5			3 a. s., w	0	
Mn	29.40	29.35	51.6	64.8	71.4	49.1	47.9	74.8	58.9	48.7	SE	6.2	SE	6.4	T.	T.	3.8 ci. s., a. s., sc.	2.8 ci. s., sw	

DECEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.31	29.30	51.1	62.2	70	48	44.0	56	49.0	36	NE	8	N	4			3 ci. s., 0 (?)	Few ci. s., 0 (?)	
2	29.38	29.19	37.0	57.2	64	37	33.0	66	45.5	38	NE	6	S	5			0	0	
3	29.17	29.20	41.5	63.5	72	40	41.0	96	58.0	72	SE	4	N	10			D. fog, se	9 s., s	
4	29.37	29.52	50.0	51.8	59	48	45.1	69	40.4	33	N	19	N	18	T.		10 s., n	10 s., sw	
5	29.65	29.70	44.7	51.5	53	44	35.2	35	39.0	28	N	12	NE	2			8 a. s., sw	10 a. s., sw	[4]
6	29.76	29.64	45.0	53.2	63	44	38.0	52	42.7	40	N	4	S	5			9 a. s., sw	0	
7	29.51	29.30	40.1	58.6	63	37	35.7	65	44.8	30	SW	3	S	3			Few ci. s., 0 (?)	9 a. s., sw	
8	29.20	29.37	48.2	55.0	65	46	45.2	80	41.1	25	SW	5	NW	10			8 a. s., sw	2 a. s., w	
9	29.39	29.33	38.0	61.0	69	36	34.0	67	45.5	58	NW	5	W	6			1 a. s., 0 (?)	0	
10	29.44	29.39	41.2	60.0	67	40	35.0	53	45.0	27	NW	8	SE	5			0	2 a. s., sw	
11	29.36	29.14	44.5	61.3	65	43	42.0	82	60.0	93	E	5	SE	10		0.01	8 ci. s., sw	10 s., sc	
12	29.06	29.38	61.0	67.0	72	47	59.5	89	46.0	41	SW	8	NW	11	0.65		8 s. cu., sw	0	
13	29.60	29.50	34.5	51.0	56	33	30.5	63	42.0	45	N	12	E	4			1 ci. s., 0 (?)	3 a. s., sw	
14	29.50	29.59	42.3	53.0	55	42	39.3	77	47.3	66	NE	5	NE	9			10 s., 0 (?)	10 a. s., sw	
15	29.73	29.61	42.0	47.5	50	41	37.0	62	43.0	70	N	12	NW	2	T.	.01	10 s., 0 (?)	10 a. s., w	
16	29.52	29.41	40.7	53.8	59	38	39.0	86	47.0	60	NW	2	SW	2		T.	10 s., 0 (?)	10 a. s., sw	
17	29.41	29.35	51.0	56.4	60	47	48.6	85	55.0	81	0	0	SW	4	.04		10 s., 0 (?)	10 a. s., sw	
18	29.30	29.21	58.3	65.5	67	55	58.3	100	62.0	80	SW	2	SE	4	.02	.01	D. fog, sw	8 a. s., sw	
19	29.20	29.30	63.5	68.2	77	56	61.0	87	49.0	20	S	8	NW	10		T.	10 s., s	1 ci. s., sw	
20	29.57	29.47	48.7	56.0	63	41	39.7	71	48.0	31	N	2	S	3			0	1 a. s., 0	
21	29.38	29.35	42.8	61.0	68	39	37.3	60	51.0	50	SW	2	S	4			5 a. s., w	2 ci. s., sw	
22	29.41	29.35	48.0	64.5	66	46	45.5	83	60.0	78	SE	5	E	7			5 cu., se	10 s., e	
23	29.30	29.18	63.0	68.0	76	61	61.5	92	63.5	78	SE	9	SE	8	T.	T.	10 s., se	10 s., se	
24	29.18	29.18	64.0	50.5	69	49	62.0	90	47.5	81	SE	8	N	16		.01	10 s., 0 (?)	10 s., s	
25	29.37	29.45	47.5	52.1	58	45	41.0	67	42.0	41	N	11	NW	7	.01		10 s., 0 (?)	0	
26	29.61	29.61	44.5	56.2	64	41	38.0	54	46.0	45	NW	9	N	5			0	0	
27	29.58	29.48	40.0	60.5	68	38	36.0	68	48.0	38	NE	4	SW	4			0	0	
28	29.49	29.44	41.8	64.1	70	38	39.3	81	49.1	31	W	2	S	3			0	1 ci. s., 0	
29	29.57	29.56	45.0	58.8	68	42	41.6	76	47.2	40	NW	7	NE	8			1 ci. s., 0 (?)	1 ci. s., w	
30	29.63	29.55	42.9	62.5	69	41	38.4	67	51.0	44	NE	7	E	5			Few ci. s., 0 (?)	2 ci. s., sw	
31	29.50	29.31	53.9	61.5	62	52	49.0	71	61.0	97	SE	3	SE	6		.06	10 s., 0 (?)	10 s., se	
Mn	29.43	29.40	46.8	58.2	64.7	43.7	42.9	72.3	48.8	51.4	N	6.4	S	6.3	.72	.10	5.1 s., sw	4.9 a. s., sw	

HAVRE, MONT.

[φ=48° 34′ N; λ=109° 40′ W; barometer above sea, 2,505 feet: gravity correction applied, +.01.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.04	27.48	19.0	18.0	34	10	18.0	85	17.0	85	NE	1	W	2			0	4 s. cu., w	
2	27.38	27.28	7.0	27.5	39	4	6.8	95	25.5	78	NW	1	W	10			10 s., 0	10 s., w	
3	27.06	27.24	43 0	37.6	43	31	38.0	65	33.1	64	SW	22	SW	10			10 s., 0 (?)	10 s., 0	
4	27.44	27.47	31.0	37.0	40	27	28.0	70	33.0	67	SW	18	SW	9			0	9 s., sw	☾
5	27.38	27.28	44.0	49.0	50	28	37.0	52	39.0	40	SW	16	SW	26			10 s., 0 (?)	4 s. cu., sw	
6	27.14	27.69	35.0	22.0	51	18	32.0	74	20.0	73	NW	26	NW	9		0.10	6 s. cu., n	0	*
7	27.85	27.57	12.2	15.0	26	8	11.8	92	14.6	93	W	6	NE	5			0	1 s., 0	☾
8	27.42	27.49	0.5	9.5	20	0	0.8	94	9.1	92	N	6	NE	4			0	1 s., 0	
9	27.38	27.27	4.8	20.0	25	3	4.6	95	19.8	97	NE	4	W	12		.06	Few s., 0	10 n., 0	*
10	27.58	27.56	5.0	6.0	22	1	4.8	95	5.8	95	NW	8	NW	12	T.	T.	9 s., 0 (?)	10 n., nw	*
11	27.51	27.47	4.8	3.0	11	− 5	4.6	95	2.8	95	W	2	NE	5	T.		10 s., 0	Few s., 0	
12	27.43	27.52	22.0	32.0	33	− 5	20.0	73	29.0	71	SW	18	SW	24			Few s., 0	10 s., 0	
13	27.63	27.60	29.0	37.0	38	22	26.0	68	32.5	63	SW	24	SW	18			0	10 s., 0	
14	27.48	27.40	34.0	28.0	38	18	31.0	73	25.0	67	SW	14	W	7			1 s., 0	0	
15	27.28	27.30	26.0	24.8	36	16	24.0	77	23.3	82	W	10	0	0			10 s., w	0	
16	27.39	27.46	8.8	18.2	26	7	8.4	91	17.8	94	W	6	W	1			0	0	
17	27.42	27.40	5.8	16.6	18	2	5.6	95	16.0	91	W	3	NE	7		T.	10 s., 0	10 s., 0	≡n. *
18	27.40	27.17	9.0	31.0	40	8	8.6	91	27.9	69	W	9	SW	14			2 ci. s., w	10 a. s., 0	
19	27.02	27.28	32.0	27.0	41	17	30.0	80	25.0	77	SW	14	SW	4		T.	8 a. s., 0	6 a. cu., w	*
20	27.28	27.05	11.0	38.0	42	8	10.6	92	33.4	64	NE	4	SW	18			0	10 s., 0	
21	26.89	27.21	38.5	10.0	43	9	33.0	58	9.6	92	W	28	NW	4	T.	T.	10 s., 0	Few s., 0	*
22	27.10	27.21	9.8	19.0	35	8	9.6	96	17.6	79	NE	4	W	3			10 s., 0	10 s., 0	
23	27.16	26.96	32.2	38.0	46	20	29.2	71	34.0	68	SW	14	SW	26			5 a. s., 0	Few s. cu., 0	
24	27.02	26.67	30.0	35.2	50	24	27.0	69	33.7	87	W	3	NE	9			6 s., 0 (?)	10 s., 0	
25	26.70	27.01	39.0	30.0	50	24	33.0	54	29.0	90	SW	24	W	12		T.	1 s., 0	10 n., 0	*
26	27.30	27.10	10.0	12.0	24	2	10.0	100	11.6	92	W	9	E	13	0.15	T.	10 n., 0	10 s., 0	*
27	27.14	27.08	5.2	0.8	9	− 2	5.0	95	0.6	94	E	13	NE	13	.01	T.	10 n., 0	6 s., 0	* ☿
28	27.09	27.17	0.0	1.5	5	− 8	− 0.2	94	1.3	94	W	7	W	3	T.	T.	10 n., 0	0	*
29	27.27	27.15	− 0.6	24.5	29	−11	− 0.8	93	21.5	64	W	13	SW	11			0	Few s., 0	
30	27.05	26.92	29.5	23.0	36	17	26.5	68	21.0	74	SW	24	NE	6			Few s., 0	8 s., 0	
31	26.86	26.92	19.6	24.0	26	12	19.4	97	22.0	75	NE	5	NW	5	.01	T.	10 n., 0	10 s., 0	*
Mn.	27.26	27.27	19.3	23.1	33.1	10.1	17.5	82.2	21.0	79.5	W	11.5	SW	9.7	.17	.16	5.1 s., w	5.8 s., w	

FEBRUARY, 1903.

1	27.12	27.35	2.0	5.5	11	− 1	1.8	94	5.1	90	W	7	NE	5		T.	0	Few s., 0	*
2	27.39	27.28	− 9.8	− 2.5	4	−10	−10.0	91	− 2.7	93	N	6	NE	8			0	0	
3	27.20	27.17	−11.0	3.0	8	−13	− 11.2	90	2.8	95	E	3	NE	8			0	0	
4	27.23	27.53	− 1.8	21.0	23	− 9	− 2.0	93	19.0	73	W	10	W	9		T.	0	10 s., 0	*
5	27.64	27.50	8.8	13.0	23	3	8.6	96	12.6	93	W	1	NE	4			6 s., 0	0	
6	27.42	27.24	− 5.5	10.0	15	− 6	− 5.7	92	9.6	92	NE	3	NE	7			0	Few s., 0	
7	27.15	27.10	27.0	27.0	35	8	26.0	89	25.0	77	SW	23	NE	8			0	Few s., 0	
8	26.90	26.93	32.2	41.0	44	12	30.2	80	36.2	64	SW	26	SW	21			3 s., 0 (?)	3 s. cu., sw	
9	27.01	26.81	32.7	40.5	46	25	30.2	76	36.0	66	SW	22	SW	23			4 s. cu., sw	Few s. cu., 0	
10	26.97	27.17	34.0	29.4	39	24	31.0	73	28.6	91	SW	20	NW	15		T.	3 s. cu., sw	10 n., 0	*
11	27.45	27.52	14.0	18.8	24	10	13.6	93	18.4	94	W	10	NW	10	T.		0	1 s., 0	
12	27.52	27.39	2.0	21.2	27	− 1	1.8	94	19.2	73	W	7	W	12			0	10 s., w	
13	27.72	27.50	−10.8	− 1.0	0	−11	−11.0	90	− 1.2	93	NW	7	SW	4	0.02	T.	10 n., 0	6 s., sw	*
14	27.74	27.72	−15.8	−10.0	0	−19	−16.0	87	−10.2	91	E	1	NE	10	T.		0	Few s., 0	*
15	27.67	27.59	−24.0	−12.0	− 6	−27	−24.2	79	−12.2	89	NE	1	NE	5			0	2 s., 0	
16	27.53	27.27	−23.0	3.0	19	−24	−23.2	80	2.8	95	W	3	NE	5		T.	0	10 n., 0	* ⊕
17	27.19	27.43	24.8	5.0	28	0	22.3	70	5.0	100	W	5	NE	21	T.	0.02	10 s., 0	10 n., 0	*
18	27.49	27.46	3.2	27.8	32	− 1	3.0	95	25.3	73	SW	5	W	9	.06	T.	10 n., sw	9 s. cu., nw	*
19	27.47	27.52	11.2	31.0	35	8	11.0	96	29.0	80	W	4	W	5			0	8 a. s., w	
20	27.74	27.62	14.8	22.0	31	9	14.2	90	20.0	73	W	9	NE	7			0	10 a. s., 0	
21	27.58	27.49	5.5	39.0	43	3	5.1	90	35.0	69	NW	1	W	9			0	0	
22	27.47	27.74	33.0	29.8	40	22	30.0	72	28.3	84	SW	15	NE	10		.01	6 s. cu., sw	Few s. cu., 0	*
23	27.72	27.71	16.0	22.0	22	15	15.8	97	21.5	94	NE	4	SW	2			D. fog, 0	10 s., 0	≡p.
24	27.67	27.56	23.0	26.0	28	21	22.5	94	26.0	100	SW	10	SW	6	T.		10 s., 0	D. fog, 0	*
25	27.55	27.58	16.0	32.0	33	15	16.0	100	30.0	80	W	5	W	3			D. fog, 0	0	
26	27.40	27.15	11.2	29.0	48	9	10.8	92	27.5	84	NE	6	NE	6			0	8 s. cu., sw	
27	27.50	27.33	28.0	19.4	31	15	27.0	89	19.0	94	NW	13	NE	2	.10	T.	10 s., 0	9 a. s., w	*
28	27.77	27.36	17.0	29.2	30	11	16.6	94	27.7	84	W	3	SW	24			10 s., 0	0	
Mn.	27.44	27.41	9.1	18.6	25.5	3.0	8.4	88.4	17.3	85.1	W	8.2	NE	9.3	.18	.03	2.9 s., sw	4.1 s., sw., w	

HAVRE, MONT.

[$\varphi = 48° 34'$ N; $\lambda = 109° 40'$ W; barometer above sea, 2,505 feet; gravity correction applied +.01.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.33	27.22	31.2	34.0	36	27	30.2	90	31.0	73	SW	12	NE	5	.....	.....	10 s., 0	6 s. cu., sw	
2	27.28	27.57	21.2	18.4	27	11	20.2	86	18.0	94	SW	20	N	7	.....	0.01	10 s., 0	8 s. cu., nw	*
3	27.63	27.65	6.8	12.2	15	2	6.6	95	12.0	96	NE	3	E	5	.....	T.	2 s., 0	10 n., 0	**
4	27.66	27.52	1.0	14.2	17	− 1	0.8	94	13.8	93	E	2	SW	7	0.01	.....	0	0	*
5	27.26	27.00	−0.2	17.0	20	− 1	− 0.4	94	16.6	94	NE	2	NE	5	.....	.....	0	8 s., 0	
6	27.01	27.16	20.2	34.0	39	11	19.2	86	31.2	75	SW	23	SW	12	.....	.....	0	2 s., sw	
7	27.17	27.20	31.8	25.0	42	14	29.3	75	24.0	88	SW	20	NW	9	.....	.....	6 s., 0	1 s. cu., 0	
8	27.08	26.85	13.8	30.0	34	9	13.4	93	28.0	70	NE	12	NE	6	.....	.....	10 s., 0 (?)	10 s., 0	
9	27.31	27.30	1.2	36.0	38	1	1.0	94	30.0	50	SW	2	SW	14	.....	.....	Few s., 0	7 s. cu., w	
10	27.25	27.10	39.4	54.4	56	37	35.4	69	43.0	38	SW	16	SW	22	.....	.....	10 s., 0	10 s., sw	
11	27.27	27.28	7.8	12.8	53	6	7.6	95	12.6	96	W	8	NE	16	.....	T.	Few s., 0	10 n., 0	*
12	27.58	27.68	0.0	2.0	8	− 1	− 0.2	94	1.8	94	NW	7	W	6	.24	.10	10 n., 0	10 n., 0	**
13	27.75	27.68	−3.6	2.8	7	− 5	− 3.8	93	2.6	95	NE	6	NE	9	.01	.01	10 n., 0	10 s., sw	*
14	27.59	27.37	−3.8	16.5	19	− 7	− 4.0	93	16.1	94	0	0	E	10	.....	.....	8 a. cu., sw	3 s., 0	
15	27.33	27.36	−0.6	18.2	21	− 4	− 0.8	93	17.8	94	W	6	W	6	.....	T.	10 a. s., 0	6 a. cu., nw	*
16	27.43	27.22	0.0	21.0	21	− 3	− 0.2	94	20.0	86	W	4	E	4	.....	.....	Few s., 0	Few s., 0	
17	27.19	27.44	5.0	22.0	22	3	4.8	95	21.0	87	W	8	N	6	.....	T.	D. fog, 0	10 s., 0	**
18	27.70	27.76	4.5	19.0	20	− 1	4.3	95	18.0	85	W	2	SE	5	.....	T.	Few s., 0	0	*
19	27.78	27.65	−5.0	12.5	15	− 6	− 5.0	100	12.1	92	0	0	E	6	.....	.....	D. fog, 0	0	
20	27.46	27.11	−8.0	36.7	39	−10	− 8.2	91	33.2	71	0	0	SW	20	.....	.....	4 s., 0	10 s., 0	
21	27.40	27.41	24.0	29.0	32	20	23.0	87	26.0	68	NW	8	SW	11	T.	T.	10 s., 0	10 s. cu., nw	*
22	27.47	27.52	13.0	29.8	33	11	12.8	96	27.3	74	W	6	SE	7	.....	.....	1 s., 0	0	
23	27.45	27.24	5.8	32.0	32	5	5.6	95	30.0	80	E	5	N	6	.....	.....	0	Few ci. s., 0	
24	27.16	27.35	19.0	24.0	26	13	18.6	94	22.0	75	SW	2	NE	13	.....	T.	3 s., 0	10 s., 0	*
25	27.60	27.60	10.2	14.0	17	7	9.8	92	13.6	93	E	3	N	8	.02	T.	10 s., 0	8 s. cu., sw	**
26	27.60	27.52	7.0	18.0	20	6	6.8	95	17.6	94	NE	10	E	10	.....	T.	6 a. cu., w	8 a. cu., w	*
27	27.54	27.48	13.8	27.0	31	11	13.4	93	25.0	77	E	4	NE	14	.....	.....	8 a. cu., w	Few ci. s., w	
28	27.35	27.07	18.2	40.0	45	17	17.8	94	36.0	69	NE	4	E	6	.....	.....	6 s. cu., 0 (?)	8 s. cu., sw	
29	27.12	27.25	41.2	45.2	55	32	37.2	70	40.2	66	SW	24	E	7	.....	.....	8 s. cu., sw	4 ci. s., sw	
30	27.20	27.03	28.6	49.0	55	28	26.1	73	45.0	74	W	3	E	9	.....	.....	10 s., 0	10 s., 0	
31	26.90	26.93	44.8	51.5	56	38	42.0	80	40.0	84	SW	24	SW	30	.12	.....	10 s., sw	4 s. cu., sw	
Mn.	27.38	27.34	12.5	25.7	30.9	8.7	11.7	89.9	23.4	79.9	SW	7.9	E	9.8	.40	.12	5.2 s., sw	5.9 s., sw	

APRIL, 1903.

1	27.06	27.12	29.4	39.0	41	28	26.4	68	34.0	62	W	7	NE	6	.....	.....	6 s., w	Few s. cu., w	$\frac{1}{2}$
2	27.18	27.26	25.8	48.0	49	24	23.3	71	38.4	41	0	0	W	8	0.01	.....	8 s., w	3 cu., w	*
3	27.34	27.12	35.4	55.3	56	32	32.4	74	47.3	56	SW	13	W	13	.....	.....	4 s., sw	4 s. cu., w	
4	27.13	27.23	35.0	37.0	44	31	33.0	82	32.0	69	W	4	NE	18	.....	.....	10 s., 0	10 s. cu., 0	
5	27.31	27.22	24.0	44.0	45	22	22.0	75	36.0	46	NE	8	SW	12	.....	.....	10 s., 0	0	
6	27.03	26.90	34.3	49.2	50	32	31.0	71	37.2	29	SW	20	W	30	.....	T.	10 s., sw	8 s. cu., w	*☂
7	27.07	26.87	36.4	56.0	58	31	33.0	72	41.0	24	W	9	SW	36	.....	.....	6 s. cu., nw	6 s. cu., sw	
8	27.17	27.17	35.0	53.5	54	33	33.0	82	45.0	52	W	11	NW	2	.....	.....	4 s., 0	8 s. cu., w	
9	27.22	27.09	40.4	45.4	49	40	37.9	81	42.4	79	0	0	E	8	.....	0.06	10 s. cu., w	10 s., e	
10	26.94	27.05	40.6	36.8	41	34	40.0	96	35.0	85	NE	5	NW	14	.12	.01	10 s., sw	10 n., nw	
11	27.25	27.29	28.0	36.0	41	28	26.0	78	33.0	75	W	13	S	3	T.	.01	10 s., w	7 s. cu., w	*
12	27.45	27.49	26.0	44.0	45	26	24.0	77	37.5	55	SW	11	NW	16	.....	.....	2 s., 0	1 s. cu., w	$\frac{1}{2}$
13	27.51	27.28	26.4	57.5	59	26	24.4	77	41.0	20	W	5	SE	13	.....	.....	0	Few ci. s., 0	$\frac{1}{2}$
14	27.23	27.11	28.8	65.0	66	28	26.3	73	45.0	16	NE	6	SE	8	.....	.....	0	3 ci., sw	
15	27.18	27.14	35.5	60.8	63	35	32.0	70	45.3	28	NE	9	E	6	.....	.....	3 s., 0	8 s., 0	
16	27.17	27.19	43.0	46.8	58	40	39.0	71	44.0	81	SW	6	N	2	.....	.41	10 s., 0	10 s., 0	
17	27.18	27.07	32.5	61.0	62	31	31.5	90	49.0	42	W	6	E	5	.....	.....	0	4 ci. s., sw	$\frac{1}{2}$
18	27.14	27.22	41.3	51.0	62	41	40.0	90	46.0	70	0	0	NW	20	.....	.05	10 s. cu., ne	10 s. cu., nw	
19	27.38	27.40	41.0	56.0	67	38	40.0	92	47.0	52	SW	13	SW	9	.11	.17	10 n., 0	3 cu., sw	
20	27.54	27.47	32.0	64.0	65	32	31.0	90	52.0	45	W	8	NE	7	.....	.....	0	0	$\frac{1}{2}$
21	27.50	27.41	37.5	69.5	72	37	35.5	84	54.0	36	NE	5	SW	6	.....	.....	6 s. cu., 0	4 ci. s., 0	
22	27.34	27.23	46.5	61.5	75	46	44.0	83	50.0	44	E	4	NW	12	.....	.....	9 ci. s., sw	8 s. cu., nw	
23	27.32	27.36	43.5	55.0	62	43	40.0	75	43.0	36	W	18	NW	18	.....	.....	4 s. cu., w	6 s. cu., nw	
24	27.61	27.52	37.5	61.5	63	35	35.0	80	50.0	44	W	9	E	5	.....	.....	8 s. cu., nw	Few ci., 0	
25	27.43	27.18	35.0	72.0	73	34	34.0	91	53.0	27	W	3	E	4	.....	.....	6 ci. s., 0	0	$\frac{1}{2}$
26	26.94	26.96	41.0	62.0	70	40	37.0	70	52.0	52	E	7	NW	26	.....	T.	6 ci. s., sw	10 s., 0	
27	27.32	27.47	33.0	40.0	46	32	32.0	91	32.0	41	NW	12	NE	16	.....	.....	10 s. cu., nw	10 s., 0	
28	27.70	27.70	23.2	37.2	39	23	22.2	87	30.7	47	NE	7	E	8	.....	.....	10 s., 0	10 a. s., 0	$\frac{1}{2}$
29	27.73	27.64	17.5	47.0	48	17	16.9	91	34.0	20	0	0	SW	10	.....	.....	Few s., 0	0	$\frac{1}{2}$
30	27.54	27.20	28.0	47.5	58	28	26.0	78	44.0	77	NE	1	W	10	.....	T.	0	8 s. cu., w	
Mn.	27.30	27.24	33.8	52.0	55.7	32.2	31.6	80.3	42.4	48.0	W	7.0	NW	11.7	.24	.71	6.1 s., sw., w	5.4 s. cu., w	

HAVRE, MONT.

[φ=48° 34′ N; λ=109° 40′ W; barometer above sea, 2,505 feet; gravity correction applied +.01].

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.46	27.54	35.0	45.0	46	34	32.0	74	40.0	66	N	16	W	4	0.01	T.	10 s., n	8 s. cu., nw	⊙
2	27.58	27.37	32.2	57.8	59	32	31.2	90	43.3	29	NW	5	W	12			Few s. cu., 0	8 s. cu., nw	⊕
3	27.40	27.22	39.0	64.4	66	39	36.0	76	46.4	22	W	7	W	19			0	9 s. cu., nw	
4	27.32	27.27	38.4	57.8	63	35	36.4	84	47.3	46	SW	2	NE	12		T.	6 a. cu., nw	10 s. cu., 0	
5	27.36	27.43	45.2	61.0	64	45	41.2	72	51.0	51	W	3	NE	9	.01		4 s. cu., 0	Few s., 0	
6	27.38	27.05	38.6	79.0	80	37	36.1	80	54.0	17	NE	9	S	9			Few ci., 0	Few s. s., 0	
7	27.08	27.18	50.4	52.0	70	43	39.8	38	37.5	21	SW	23	SW	34			10 s. cu., sw	9 s. cu., sw	
8	27.16	27.15	42.0	55.0	59	38	35.0	50	39.0	18	SW	10	NW	24			10 s. cu., 0	4 s. cu., sw	
9	27.31	27.25	34.0	65.5	59	31	32.0	82	45.0	44	E	4	W	8			Few s. cu., 0	8 s. cu., w	⊓
10	27.32	27.24	33.2	59.0	62	32	32.2	91	44.0	28	NE	3	SW	10			Few ci. s., 0	10 s. cu., sw	⊓
11	27.48	27.40	35.0	67.0	68	32	32.0	74	50.0	29	W	10	SW	12			0	2 cu., sw	⊓
12	27.39	27.30	41.8	80.0	82	40	39.3	82	55.4	19	0	0	SW	8			7 a. s., w	6 ci. s., 0	
13	27.26	27.14	59.0	81.5	92	56	50.0	54	58.0	23	N	5	SE	18		T.	Lt. smoke, 0	10 s. cu., sw	
14	27.03	27.20	58.0	63.0	81	53	48.0	49	50.0	40	SW	3	NW	24			6 s. cu., sw	10 s. cu., s	
15	27.30	27.05	41.2	64.4	70	41	37.7	74	47.4	26	W	12	NW	22	T.		Few ci. s., sw	6 s. cu., sw	
16	27.05	27.05	49.0	49.8	60	46	43.0	63	46.8	78	W	4	NW	12		0.03	10 s. cu., se	10 n., nw	
17	26.97	27.04	49.0	41.0	50	38	48.0	93	39.5	89	N	12	NE	12	.06	.90	10 n., 0	10 n., ne	
18	27.06	26.98	33.0	30.2	38	28	33.0	100	30.2	100	NW	5	NW	14	.05	.40	10 n., 0	10 n., 0	✱✱
19	26.87	27.00	29.0	35.0	36	28	29.0	100	34.0	91	W	15	W	19	.50	.14	10 n., 0	10 s., w	
20	27.07	27.13	34.0	51.5	54	33	33.0	91	40.0	34	W	8	NW	18			6 s. cu., w	2 s. cu., nw	
21	27.18	27.25	35.5	45.0	51	32	34.0	87	44.0	93	NE	5	E	12		.06	5 s., 0	10 n., e	
22	27.16	27.13	40.0	34.0	42	33	39.0	92	34.0	100	N	24	NW	20	.20	.70	10 n., 0	10 n., 0	
23	27.19	27.31	33.5	42.0	42	32	33.0	95	39.5	82	NW	18	NW	16	.26	.02	10 s., nw	10 n., nw	✱✱
24	27.34	27.30	40.4	54.0	58	37	39.0	89	48.0	66	W	11	N	6	.05	.01	6 a. cu., n	4 s. cu., n	⊓
25	27.24	27.10	39.4	63.0	63	37	38.4	92	50.0	40	W	6	SW	8			0	6 s. cu., nw	⊓
26	27.10	27.08	51.0	74.5	75	47	46.0	70	58.0	37	SW	14	W	3			6 s. cu., nw	6 s. cu., w	
27	27.17	27.23	52.0	59.0	63	48	50.0	88	53.5	71	SW	22	SW	7			8 s. cu., 0	8 s. cu., 0	
28	27.36	27.40	47.0	62.0	65	44	46.0	93	53.0	56	W	4	SW	6	.01	.05	6 s. cu., sw	6 s. cu., sw	
29	27.56	27.60	50.0	70.2	70	47	45.0	69	57.2	46	SW	18	SW	4		.01	0	0	
30	27.67	27.54	47.5	84.0	84	43	45.0	84	65.0	36	E	3	S	2			0	6 ci. s., n	
31	27.54	27.43	55.0	80.0	82	53	51.0	77	58.0	26	NE	12	SE	18			Few ci. s., 0	0	
Mn	27.27	27.24	42.2	58.6	63.0	39.2	39.1	79.1	47.0	49.2	W	9.5	{sw / nw}	13.0	1.15	2.32	4.8 s. cu., sw	6.7 s. cu., sw., nw.	

JUNE, 1903.

1	27.51	27.42	51.0	71.5	74	50	47.0	76	52.0	24	NE	18	SE	18			0	6 ci. s., 0	
2	27.38	27.27	55.0	76.4	77	53	50.0	72	58.9	35	NE	9	SE	16			0	0	
3	27.29	27.33	54.0	76.5	79	53	51.7	86	59.0	36	E	3	SW	14			6 s. cu., s	Few cu., 0	
4	27.46	27.46	51.2	76.0	82	48	47.2	76	66.0	60	W	7	NW	14			0	4 s. cu., 0	
5	27.63	27.58	49.0	77.0	78	48	46.0	81	55.0	23	W	4	W	10			4 ci. s., 0	1 ci. s., 0	
6	27.66	27.57	51.5	78.0	82	48	47.5	76	60.0	35	W	10	NW	11			3 s. cu., 0	5 ci. s., 0	
7	27.64	27.54	56.4	77.0	82	54	51.4	72	59.0	34	0	0	NE	10		T.	6 s. cu., w	Few s. cu., 0	
8	27.76	27.71	53.0	61.0	66	52	50.0	82	51.0	51	NW	9	NE	16	0.02		10 s. cu., 0	1 cu., n	
9	27.78	27.65	40.0	63.5	66	38	37.0	77	49.5	36	W	6	NE	9			2 s. cu., n	Few ci. s., 0	
10	27.63	27.45	49.5	77.0	77	38	45.0	72	61.0	40	E	6	S	9			0	1 ci. s., 0	
11	27.36	27.28	49.0	88.0	88	45	46.0	81	60.0	18	E	3	W	3			0	0	
12	27.35	27.26	55.2	81.0	84	48	51.7	80	64.0	40	0	0	NE	16			0	1 s. cu., 0	
13	27.32	27.26	54.4	68.0	82	51	50.0	75	61.0	68	E	6	NE	9		0.01	Few ci. s., 0	10 s., 0	
14	27.32	27.42	60.4	61.8	67	58	58.0	87	58.0	80	E	7	E	10	.06	.12	10 s. cu., 0	10 s. cu., e	⊓
15	27.49	27.47	53.8	72.0	72	50	50.3	80	59.0	47	E	5	E	12	T.		1 s. cu., e	3 cu., 0	
16	27.42	27.24	53.0	86.2	87	50	50.0	82	68.2	40	NE	7	NE	3			0	Few ci. s., 0	
17	27.28	27.21	58.0	87.0	90	54	54.0	78	65.0	39	E	2	NW	36			Few s. cu., 0	9 s. cu., w	⊓
18	27.31	27.33	62.2	77.5	80	61	56.7	72	59.0	34	SW	22	NW	12	.13		8 s. cu., sw	2 cu., w	
19	27.44	27.39	57.2	69.0	72	56	54.2	83	57.0	49	W	6	N	9		T.	6 s. cu., w	6 s. cu., nw	
20	27.41	27.32	53.0	68.0	68	51	50.0	82	57.0	52	NE	3	SW	15			6 s. cu., 0	10 s., 0	
21	27.39	27.27	56.0	74.0	75	53	53.0	83	60.0	45	W	4	SE	5	T.		6 s. cu., 0	6 s. cu., se	
22	27.15	27.08	56.2	64.0	84	53	52.0	76	60.0	80	NE	5	SW	5		.03	4 ci. s., nw	10 n., 0	
23	27.13	27.29	56.8	58.0	68	52	51.3	70	50.0	58	SW	20	NW	22	.10		10 s. cu., sw	8 s. cu., nw	
24	27.38	27.35	50.2	72.0	73	49	48.0	86	59.8	49	W	14	SE	4	.05		10 s., 0	2 cu., 0	
25	27.29	27.26	48.2	75.0	81	45	47.0	92	63.0	52	E	1	SW	6			9 s., 0	2 s. cu., 0	
26	27.27	27.27	60.4	64.0	65	56	57.0	82	60.5	83	E	9	NE	10	T.	.99	10 n., 0	6 s., ne	
27	27.30	27.18	52.2	77.5	81	49	51.2	94	68.0	46	E	1	NW	13			4 s., 0	6 s. cu., nw	
28	27.15	27.12	65.0	77.0	78	62	59.0	71	57.0	28	W	10	N	3			10 s., 0	8 s. s., sw	
29	27.14	27.05	55.5	72.0	76	51	53.0	86	55.0	33	0	0	W	8			4 s. cu., sw	8 s., 0	⊓
30	27.15	27.07	55.0	73.0	75	53	50.0	72	53.0	25	SW	8	NW	6			5 s. cu., sw	8 s. s., sw	
Mn	27.39	27.34	54.1	73.3	77.0	51.0	50.5	79.4	58.7	44.4	E	6.8	{ne / nw}	11.1	.86	1.15	4.5 s. cu., sw	4.4 s. cu., nw	

HAVRE, MONT.

[φ=48° 34′ N; λ=109° 40′ W; barometer above sea, 2,505 feet; gravity correction applied, +.01.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.12	27.04	58.0	68.5	74	56	48.0	49	53.0	36	W	16	NW	16			1 s. cu., sw	10 s., 0	
2	27.17	27.17	51.4	56.0	64	51	49.0	86	53.5	86	W	7	NE	9	T.	0.40	10 s., 0	10 n., ne	
3	27.37	27.44	53.2	64.0	65	52	52.2	94	55.0	57	W	7	NW	15	0.14	.03	10 s., w	7 ci. s., nw	
4	27.42	27.21	49.7	73.0	74	48	48.7	94	54.0	28	W	4	SW	10			2 s., 0	4 ci. s., 0	
5	27.07	27.09	54.0	72.5	74	52	51.0	82	56.0	36	E	8	SW	9			10 s. cu., 0	3 s. cu., sw	
6	27.11	27.13	55.0	66.6	67	55	54.0	94	55.1	49	W	5	SW	12	.01	.01	10 n., 0	8 ci. s., sw	
7	27.09	27.35	53.0	62.0	63	45	52.0	94	52.0	52	NE	13	NW	18	T.	1.60	10 n., 0	4 s. cu., nw	
8	27.41	27.32	46.0	69.5	70	43	45.0	93	59.0	54	W	5	W	7	T.		0	8 cu., w	
9	27.35	27.37	52.5	71.0	71	52	50.0	85	59.5	52	SW	14	W	2	.05	.02	Few s. cu., 0	4 cu., 0	
10	27.43	27.40	51.0	73.5	75	50	49.0	88	57.0	36	W	10	W	12			0	4 s. cu., w	
11	27.47	27.41	51.8	77.0	82	50	50.8	94	61.0	40	0	0	SE	10			Few s. cu., 0	2 s. cu., 0	
12	27.42	27.29	54.9	83.2	86	53	52.0	83	62.7	32	E	10	SE	13			Few s., 0	6 ci. s., sw	
13	27.22	27.09	58.0	90.4	90	56	56.0	89	69.4	35	E	13	NW	3			Few s. cu., 0	3 s., 0	
14	27.35	27.33	61.0	75.0	75	59	53.0	60	65.0	59	W	4	W	10	.32		6 s. cu., w	0	
15	27.41	27.32	48.8	78.0	78	47	46.3	84	60.0	35	NW	6	SW	8			0	0	
16	27.45	27.39	51.5	79.0	81	49	49.0	84	61.0	36	E	4	N	8			0	3 cu., n	
17	27.48	27.44	52.5	74.2	80	52	50.0	85	60.0	45	0	0	SW	10			4 s. cu., sw	6 s. cu., nw	
18	27.47	27.31	53.0	85.0	85	52	51.0	88	62.0	27	W	1	SW	10			0	1 cu., 0	
19	27.31	27.23	54.0	81.5	90	52	51.0	82	62.0	33	NW	5	NW	10			2 ci., nw	Few s. cu., 0	
20	27.47	27.30	54.0	85.0	85	51	50.0	77	66.0	37	SE	4	E	4			5 s. cu., nw	0	
21	27.28	27.19	57.4	92.0	95	56	54.4	83	68.0	29	NW	5	S	7			0	1 ci. s., w	
22	27.32	27.33	64.8	92.0	92	60	57.3	64	69.0	32	W	13	NW	2			1 ci., w	Few ci. s., 0	
23	27.28	27.17	70.0	92.0	94	68	66.0	82	68.0	29	E	6	SW	7	T.		4 s. cu., s	4 ci. s., s	
24	27.37	27.39	62.0	83.0	83	60	59.0	84	66.0	42	SW	10	NW	14			8 s. cu., 0	6 s. cu., s	
25	27.49	27.35	58.4	84.6	86	57	56.0	87	69.0	47	SW	2	SE	18	T.		4 s. cu., 0	3 cu., s	
26	27.39	27.24	64.0	82.2	86	61	59.0	75	71.0	59	SE	10	SE	9	1.77		Few s. cu., w	10 s. cu., sw	
27	27.39	27.39	58.0	73.0	75	57	56.0	89	57.5	39	W	10	NW	7	.06		7 s. cu., nw	7 s. cu., nw	
28	27.39	27.41	52.8	71.5	74	51	51.3	91	58.0	45	W	6	NW	11			6 s. cu., w	5 ci. s., nw	
29	27.43	27.37	51.0	72.2	75	50	50.0	94	61.2	54	NE	6	NE	7			Few s. cu., 0	10 s., 0	
30	27.39	27.28	54.2	63.2	73	53	52.7	91	58.2	75	E	6	SE	9	.08	.04	4 ci. s., w	10 n., 0	
31	27.32	27.35	52.0	58.4	58	51	51.0	94	56.4	89	NE	12	SE	9	.34	.36	10 n., 0	10 n., 0	
Mn	27.34	27.30	55.1	75.8	78.1	53.2	52.3	84.5	60.8	45.3	W	7.2	NW	9.4	2.77	2.46	3.7 s. cu., w	4.6 s. cu., nw	

AUGUST, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.36	27.36	58.0	61.2	66	52	52.0	94	57.7	82	E	12	SE	8	0.13	0.08	10 n., e	10 n., 0	
2	27.37	27.31	51.0	67.5	70	49	50.0	94	60.0	66	E	11	SE	13	.10		3 s. cu., s	8 s., 0	
3	27.28	27.30	56.8	66.0	70	56	55.3	91	62.5	83	NE	12	NE	7	.16	.18	10 n., ne	10 s., 0	
4	27.35	27.35	54.0	71.2	73	52	52.0	88	58.2	46	SW	12	NW	8	.56		0	1 cu., 0	
5	27.51	27.54	51.0	75.0	75	49	50.0	94	65.0	59	SW	2	NW	5			0	Few cu., 0	
6	27.53	27.38	52.2	79.8	84	51	50.2	88	66.3	50	NE	6	SW	3		T.	7 ci. s., sw	6 s. cu., sw	
7	27.48	27.50	59.2	74.0	79	58	56.0	83	63.0	55	SW	13	N	10	.01	T.	0	Few s. cu., 0	
8	27.53	27.41	54.5	78.8	80	53	53.5	94	62.3	40	W	2	W	10		T.	Few s. cu., 0	Few cu., 0	
9	27.42	27.37	54.0	73.4	76	54	52.0	88	60.4	48	W	9	E	10			0	4 ci. s., 0	
10	27.41	27.40	52.2	64.0	68	52	50.2	88	56.0	62	E	9	E	12	.01	T.	10 n., 0	9 a. s., 0	Lt. smoke p. ∞p
11	27.29	27.33	50.1	66.7	71	49	48.1	87	57.0	56	NE	8	W	14		.15	6 s. cu., sw	2 s. cu., w	
12	27.36	27.26	53.8	76.0	76	53	51.8	88	64.0	53	SW	7	SW	4			9 s. cu., 0	Few s., w	
13	27.19	27.16	49.4	74.0	85	49	49.0	97	64.0	59	0	0	NE	4			0	8 s. cu., ne	
14	27.44	27.31	50.0	75.8	76	49	48.0	87	60.3	41	E	4	SE	15			2 s. cu., 0	0	
15	27.25	27.25	59.0	83.0	86	58	56.0	84	67.0	44	E	9	NE	14	.01		4 s. cu., sw	0	
16	27.39	27.35	57.0	80.0	80	56	55.0	89	67.0	52	SW	6	W	6			Few s. cu., 0	0	
17	27.44	27.41	58.0	84.0	84	56	57.5	97	67.0	42	NW	2	W	5			D. fog, 0	1 s. cu., w	
18	27.52	27.42	58.0	86.0	88	57	56.0	89	65.0	33	E	4	W	6			2 s. cu., w	1 cu., w	
19	27.40	27.07	63.0	94.0	96	52	51.0	88	67.0	24	0	0	S	8			0	4 s. cu., w	
20	27.16	27.12	65.0	85.0	88	63	56.0	58	60.0	22	W	6	NW	14			Few s., 0	0	
21	27.26	27.18	50.2	77.3	85	50	47.0	80	62.3	44	W	6	E	8			0	4 s. cu., w	
22	27.25	27.16	55.0	74.0	75	54	53.0	88	62.5	54	E	5	E	10		.07	1 s., 0	Few cu., 0	
23	27.19	27.15	55.0	71.0	72	54	52.5	85	58.0	46	E	8	NW	19	T.	.29	8 s. cu., w	3 cu., w	
24	27.31	27.32	47.5	64.8	65	47	46.0	90	55.3	56	SW	10	NW	8			2 s., sw	2 cu., nw	
25	27.37	27.34	49.4	57.0	59	49	48.0	91	52.2	73	NE	6	NE	18			10 s. cu., sw	10 s., 0	
26	27.24	27.28	56.0	62.0	64	54	55.0	94	57.0	75	SE	14	SW	18	.36	.24	10 n., 0	10 s. cu., sw	
27	27.37	27.48	51.0	57.0	57	50	49.0	88	55.0	89	NW	9	NW	4	T.	.17	10 s., 0	10 s. cu., nw	
28	27.50	27.38	47.0	75.0	77	46	47.0	100	64.0	56	E	5	0	0			D. fog, 0	0	
29	27.32	27.26	49.0	82.0	87	49	48.5	97	68.0	50	E	2	NE	4			0	Few cu., sw	
30	27.46	27.34	54.2	73.0	78	54	52.0	87	62.0	55	SW	3	E	9	T.		2 s., sw	0	
31	27.32	27.33	52.2	78.0	79	52	51.2	94	64.0	47	NW	7	N	5			1 s., 0	0	
Mn	27.36	27.32	53.5	73.8	76.4	52.5	51.6	89.0	61.6	53.6	E	6.5	NW	9.0	1.34	1.18	3.5 s. cu., sw	3.3 s. cu., w	

HAVRE, MONT.

[$\varphi = 48° 34'$ N; $\lambda = 109° 40'$ W; barometer above sea, 2,505 feet; gravity correction applied, +.01.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.44	27.33	50.2	76.0	77	48	46.2	75	61.0	43	NE	9	NE	3			2 s., 0	Few s. cu., 0	
2	27.38	27.38	47.8	71.0	75	47	44.3	77	56.0	39	SW	1	NE	13			Few s. cu., sw.	Few s. cu., sw	
3	27.60	27.55	44.0	60.0	61	44	42.0	86	50.0	50	0	0	E	7	T.		8 s. cu., w	3 s. cu., nw	
4	27.57	27.39	38.0	66.8	69	37	37.0	92	54.3	45	E	3	E	16			Few s., 0	Few ci., w	1
5	27.30	26.96	45.4	69.0	72	45	42.0	77	59.0	56	NE	12	SE	24			0	1 s. cu., s	
6	26.94	26.90	54.5	67.6	71	54	52.0	85	51.1	31	SW	18	SW	24	0.08		1 s., 0	Few s. cu., 0	
7	26.88	26.98	54.0	61.0	65	53	50.0	77	50.0	46	SW	24	W	18			4 s. cu., sw	10 s. cu., w	
8	27.15	27.32	48.8	57.2	60	47	45.3	78	49.2	57	W	22	NW	14	.01	T.	10 s., 0	10 s. cu., nw	
9	27.47	27.30	45.0	60.0	63	44	42.0	79	50.0	50	SW	13	W	5	.01		10 s. cu., sw	10 s. cu., w	
10	27.10	27.39	48.0	44.0	56	39	46.0	87	43.0	93	W	3	NE	10	T.	0.11	10 s. cu., w	10 n., ne	
11	27.51	27.40	36.0	46.0	49	36	34.0	83	39.0	54	W	1	SE	7	T.		10 s. cu., n	10 s. cu., ne.	
12	27.27	27.32	40.2	44.0	49	34	39.2	92	40.0	72	E	5	E	10	.02	.10	10 n., 0	10 s. cu., sw	
13	27.50	27.56	34.6	43.8	49	32	33.6	91	40.3	75	E	3	N	12			10 s. cu., 0	10 s. cu., 0	1
14	27.53	27.54	38.0	50.5	55	37	36.0	84	42.5	62	E	3	E	8			10 s. cu., 0	10 s. cu., nw	
15	27.59	27.62	35.0	50.8	53	34	33.0	82	43.0	54	SW	1	NE	2	.06	T.	10 s. cu., sw	6 s. cu., nw	1 2
16	27.63	27.53	27.0	65.0	67	27	26.0	89	56.0	58	E	4	N	3			0	6 s. cu., nw	1 2
17	27.52	27.36	43.0	73.5	76	42	40.0	78	63.5	59	W	8	W	8			0	0	
18	27.21	27.13	52.0	71.0	76	46	46.0	65	52.0	26	W	11	W	15			1 s. cu., 0	8 a. s., 0	
19	26.98	27.17	63.0	64.0	75	49	50.0	40	54.0	53	SW	35	NW	12			10 s., sw	9 s. cu., nw	
20	27.37	27.35	43.0	65.0	69	42	40.0	78	54.0	50	0	0	E	7			5 s. cu., w	10 s. cu., w	
21	27.32	27.13	43.0	77.0	83	41	42.0	92	58.0	31	0	0	S	9			3 s. cu., w	10 s. cu., sw	
22	27.58	27.64	39.2	53.4	63	38	37.7	88	44.0	52	W	10	E	12			10 s. cu., w	8 s. cu., w	
23	27.52	27.22	38.0	79.0	82	37	36.5	88	58.0	27	E	4	NW	13			3 s. cu., 0	10 s. cu., w	
24	27.26	26.94	49.8	74.0	78	49	47.3	84	58.0	38	S	2	SW	24			6 s., 0	10 s. cu., w	
25	26.99	27.29	53.8	50.0	66	44	49.3	74	45.0	57	W	12	NW	14	.06	.02	10 s. cu., w	6 s. cu., nw	
26	27.50	27.31	38.0	55.5	60	36	37.0	92	45.5	46	W	8	NW	7	.01		5 s. cu., 0	6 s. cu., w	1
27	27.32	27.21	38.0	70.0	78	37	36.5	88	57.0	46	NE	4	NW	7			10 s. cu., 0	6 s. cu., nw	
28	27.16	26.93	41.0	78.0	85	40	40.0	92	60.0	35	NE	2	SW	6			Few s., 0	5 ci. s., sw	
29	27.22	27.34	46.0	58.0	66	45	42.0	73	49.0	53	NW	6	SW	3			6 s. cu., nw	7 ci. s., 0	
30	27.40	27.38	39.8	61.5	66	40	37.3	81	50.0	44	NE	7	SE	3			8 s. cu., 0	2 s. cu., sw	
Mn.	27.34	27.30	43.8	62.1	67.1	41.5	41.0	81.6	51.0	49.7	W	7.7	{e / nw}	10.5	.25	.23	5.7 s. cu., w	6.4 s. cu.; w., nw	

OCTOBER, 1903.

1	27.31	27.11	36.0	59.0	65	35	34.7	89	54.0	74	E	9	SE	7			10 s., 0	10 s., 0	
2	27.12	27.15	45.0	56.0	63	44	43.5	90	46.0	47	SW	12	W	14	T.		10 s., 0	10 s. cu., sw	
3	27.38	27.37	33.4	38.5	48	31	32.4	91	33.0	58	NW	13	W	7	T.	T.	10 n., 0	1 s. cu., 0	
4	27.40	27.21	26.0	54.2	58	24	25.0	88	45.2	50	W	5	SW	5			0	8 s. cu., 0	1
5	27.12	26.86	47.0	56.5	63	43	44.0	80	47.0	50	SW	10	SW	18	0.02		10 s. cu., sw	2 s. cu., 0	▲
6	26.54	26.97	50.4	50.0	58	38	44.4	63	45.0	69	SW	28	W	24		0.06	10 s. cu., 0 (?)	10 s. cu., nw	▲
7	27.30	27.44	36.2	52.0	57	34	33.0	73	43.0	48	NW	8	NW	5			0	0	
8	27.51	27.35	30.0	60.0	65	29	29.0	90	50.0	50	W	4	0	0			10 s. cu., 0	Few s., 0	
9	27.28	27.07	38.5	61.5	65	36	36.0	80	52.0	54	E	6	0	0			8 ci. s., 0	10 s., 0	9
10	26.97	27.12	49.0	57.0	66	42	44.0	69	60.0	62	SW	25	NW	3	T.	.10	10 s., 0	6 s. cu., nw	
11	27.19	27.44	51.0	53.0	58	42	45.0	64	44.0	49	SW	26	NW	4			10 s., 0	3 s., 0	
12	27.52	27.53	38.0	65.4	71	36	35.0	76	58.4	46	NW	7	SW	10			10 ci. s., 0	Few s., 0	1 2
13	27.49	27.21	37.0	66.0	77	33	36.0	92	52.5	41	0	0	SW	10			1 s., 0	2 s., 0	1
14	27.53	27.66	47.0	49.0	61	36	44.0	80	40.0	45	NW	10	NW	5			10 s., 0	Few s., 0	
15	27.54	27.24	23.7	59.2	66	23	22.2	81	44.2	28	0	0	W	6			1 s., 0	10 s., 0	1
16	27.47	27.56	43.0	53.0	59	39	39.0	71	45.5	57	NW	20	W	1			1 s., 0	2 s., 0	
17	27.52	27.28	27.5	67.0	78	26	25.0	72	52.0	36	E	3	SW	12			0	3 s., 0	
18	27.34	27.23	54.8	74.0	78	50	43.3	39	51.0	17	SW	12	SW	15			0	5 s., sw	
19	27.36	27.31	50.2	58.0	70	44	43.2	57	46.0	39	W	5	NE	7			2 s., 0	2 s., 0	
20	27.54	27.41	41.0	55.4	63	35	37.2	71	46.4	51	NE	9	S	1			1 s., 0	3 s., 0	
21	27.42	27.65	49.2	47.4	59	37	43.2	63	41.0	59	NW	7	NW	2			1 s., 0	10 s. cu., nw	
22	27.77	27.60	21.2	53.2	60	20	20.2	86	47.2	65	W	3	0	0			1 s., 0	5 s., 0	
23	27.54	27.40	38.0	70.7	79	32	35.0	76	51.2	24	0	0	S	12			2 s., 0	8 s., 0	
24	27.49	27.51	40.2	62.0	70	37	36.0	68	50.0	43	NW	12	SW	4			2 s., 0	Few s., 0	
25	27.62	27.60	28.5	53.0	65	27	27.5	89	46.0	60	NW	8	E	3			0	1 s., 0	
26	27.62	27.58	30.0	52.0	64	28	28.0	79	47.5	73	E	1	NE	1			1 s., 0	0	
27	27.50	27.32	26.2	64.0	70	24	25.2	88	47.0	26	0	0	SW	10			0	10 s., 0	
28	27.27	27.06	53.3	64.0	69	51	46.3	60	51.0	41	SW	20	SW	24			2 s., 0	3 s. cu., sw	
29	27.16	27.41	47.2	44.2	58	42	41.7	64	41.7	82	W	14	W	3		.03	2 s., w	Few s., 0	
30	27.44	27.28	35.0	53.0	59	29	33.5	87	41.0	34	W	7	SW	11			0	2 s., sw	
31	27.30	27.31	46.5	60.0	68	35	40.5	60	45.0	29	W	12	SW	5			10 s., 0 (?)	6 s., 0	9
Mn.	27.37	27.33	39.4	57.0	64.8	34.9	35.9	75.4	46.7	48.6	NW	9.5	SW	7.4	.02	.19	4.4 s., sw., w	4.1 s., sw	

HAVRE, MONT.

[φ=48° 34′ N; λ=109° 40′ W; barometer above sea, 2,505 feet; gravity correction applied +.01.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a.m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.35	27.32	42.8	64.0	74	42	38.8	71	49.0	83	W	12	SW	6			0	3 s., sw	
2	27.35	27.38	42.0	64.0	75	41	40.0	85	54.0	53	NW	11	SE	2			0	Few s., 0	
3	27.43	27.75	32.0	44.0	51	29	30.5	85	40.5	75	W	8	NW	6			3 s., sw	0	
4	27.71	27.31	37.2	43.0	48	31	35.2	84	40.0	78	E	16	NE	10			10 s., 0	10 s., 0	
5	27.33	27.19	32.0	49.0	56	32	31.0	90	44.0	69	W	6	SW	4			10 s., 0	5 s., sw	
6	27.06	26.98	44.6	57.7	66	44	40.0	68	48.2	51	W	14	SW	12			10 s., w	6 s., sw	
7	27.05	27.12	42.0	44.0	56	37	41.0	92	38.0	69	W	2	NE	5			4 a. s., w	10 s., 0 (?)	
8	27.28	27.47	35.0	32.5	41	24	32.0	74	30.5	80	W	8	NW	5	0.01		10 s., 0	0	
9	27.19	26.85	36.2	43.2	47	27	34.2	83	36.7	54	SW	12	SW	24			10 s., 0	4 s., sw	
10	26.96	27.04	31.0	34.5	41	27	30.0	90	31.0	69	W	14	W	7	.02		6 s. cu., w	6 s., w	*
11	26.93	26.78	22.0	28.0	31	17	20.0	73	26.0	78	SW	12	E	4			0	10 s., 0	
12	27.12	27.19	17.0	22.0	28	13	16.4	91	21.0	87	W	4	E	5	T.	T.	8 s., w	4 s., 0	*
13	27.47	27.55	9.8	9.4	14	4	9.4	92	9.0	91	N	7	NW	4	.02	T.	10 s., 0	Few s., 0	*
14	27.47	27.27	6.0	8.5	9	2	5.8	95	8.3	96	E	6	E	9	.14	0.16	10 n., 0	10 n., 0	*
15	27.43	27.64	−12.8	− 2.0	8	−13	−13.0	89	− 2.2	93	W	2	SW	10	.08	T.	1 s., 0	8 n., w	*
16	27.81	28.00	− 3.0	− 4.0	1	−14	− 3.2	93	− 4.2	93	W	7	W	12	.04	.02	10 n., 0	4 s., w	*⊕
17	28.07	28.00	−10.0	− 6.0	− 3	−18	−10.2	91	− 6.2	92	SW	11	SW	10			10 s., 0	0	
18	27.81	27.67	−24.2	−13.8	−10	−29	−24.4	79	−14.0	88	NE	2	W	4			0	10 s., 0	◇
19	27.41	27.27	− 3.7	5.2	10	−10	− 3.9	93	4.8	90	NE	2	NW	2			6 s., 0	7 s., 0	◇△
20	27.22	27.35	6.2	38.0	42	− 1	6.0	95	35.0	76	NW	2	SW	10		T.	10 s., 0	Few s., 0	△
21	27.49	27.30	16.0	22.2	40	11	15.6	93	21.2	87	W	5	NE	7		T.	1 s., 0	10 n., 0	
22	27.26	27.42	40.0	35.0	40	27	36.0	69	32.0	74	SW	22	SW	18	.01		1 s., 0	Few s., 0	
23	27.46	27.33	17.0	25.0	27	11	16.6	94	24.0	88	W	1	E	4			0	10 s., 0 (?)	
24	27.44	27.54	15.0	22.2	34	10	13.0	100	20.2	73	NW	7	W	6			D. fog, 0	0	
25	27.56	27.44	12.0	27.0	39	10	11.6	92	25.0	77	SE	4	NE	6			0	9 s., 0	
26	27.31	27.41	42.3	45.8	49	22	38.0	69	39.3	57	SW	18	SW	8			10 s., 0	10 s., 0 (?)	
27	27.29	27.46	43.2	40.2	52	33	37.0	57	38.2	84	SW	15	NW	12			0	3 s., 0	
28	27.69	27.63	29.8	34.0	41	25	28.3	84	31.0	73	W	4	E	6			0	10 s., 0	
29	27.51	27.34	24.4	30.5	44	22	22.4	75	29.5	90	NE	4	NE	4			0	10 s., 0	
30	27.30	27.30	41.5	43.5	52	37	38.0	74	40.0	75	SW	10	0	0			0	1 s., 0	
Mn.	27.39	27.38	22.0	29.6	36.8	16.4	20.4	84.0	26.3	76.1	W	8.3	SW	7.4	.32	.18	4.7 s., w	5.3 s., sw	

DECEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a.m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.20	26.90	42.0	50.8	63	37	39.0	78	44.8	64	W	10	W	11			Few s., 0	3 s. cu., w	
2	27.14	27.45	35.0	34.5	52	30	33.0	82	33.0	87	W	24	NW	22	0.01	T.	10 s., 0	8 s. cu., nw	
3	27.72	27.78	25.0	28.8	34	23	23.0	76	27.8	89	W	7	SW	6		T.	10 s., 0	0	*
4	27.68	27.54	14.8	32.0	39	13	14.4	93	30.0	80	NE	2	W	6			0	0	
5	27.45	27.40	35.0	47.0	49	28	33.0	82	37.0	37	W	15	SW	20			0	Few s., 0	
6	27.52	27.51	32.7	37.2	47	29	30.2	76	33.0	66	SW	13	W	6			0	4 s., w	
7	27.68	27.66	28.2	31.5	37	23	26.2	78	30.0	85	SW	15	NW	6			7 a. cu., w	0	
8	27.48	27.46	35.4	44.0	51	20	32.4	74	42.0	86	SW	27	W	10			10 s., 0	10 s., w	
9	27.57	27.35	36.8	43.0	46	29	34.8	84	38.0	65	W	6	SW	10			4 a. cu., w	8 s., 0	
10	27.46	27.30	35.0	33.2	40	29	32.0	74	31.2	81	W	7	NW	4		T.	10 s., 0	10 s., 0	*
11	27.26	27.44	19.8	7.0	29	3	19.4	94	6.8	95	E	4	NW	9	.08	T.	10 n., 0	10 s., 0	*
12	27.52	27.42	− 6.0	− 5.0	3	− 9	− 6.2	92	− 5.2	92	W	5	E	5			0	4 s., 0	
13	27.57	27.71	− 1.4	1.2	4	− 5	− 1.6	93	1.0	94	E	9	E	6		T.	10 s., 0	Few s., 0	*
14	27.69	27.47	− 8.0	3.5	8	−10	− 8.2	91	3.3	95	SE	1	NW	6			0	10 s., 0 (?)	
15	27.30	27.28	34.5	41.2	42	5	32.0	78	37.0	69	SW	18	SW	12			0	10 s., 0 (?)	
16	27.21	27.06	24.0	30.5	40	21	22.0	75	29.0	84	E	5	E	6			Few s., 0	10 a. s., 0	
17	27.11	27.13	36.4	34.8	42	27	32.0	63	32.0	75	SW	12	W	4			0	10 a. s., 0	
18	27.12	27.25	28.2	28.0	32	20	27.2	89	26.0	78	W	8	SW	14	.01		2 s., 0	Few s., 0	*
19	27.32	27.19	19.0	35.0	39	16	18.0	85	30.0	56	W	13	SW	16			0	Few s., 0	
20	27.04	27.10	36.0	37.5	43	32	33.0	75	33.5	68	SW	26	SW	20			0	Few s., 0	
21	27.26	27.36	31.8	30.2	39	28	30.3	85	29.7	95	SW	16	NW	6			0	0	
22	27.33	27.29	26.3	37.0	39	20	25.3	88	32.0	59	W	16	SW	7			0	10 s., 0 (?)	
23	27.54	27.42	28.5	30.2	37	22	22.0	80	29.2	90	W	5	W	12		T.	10 s., 0	Few s., 0	*
24	27.46	27.44	35.0	39.5	42	30	30.0	56	36.0	73	W	5	SW	14	T.	T.	10 n., 0	6 s., 0 (?)	*
25	27.52	27.51	41.0	44.0	47	39	37.0	70	38.0	59	W	13	SW	20			6 s., 0 (?)	Few s., 0	
26	27.36	27.48	48.0	41.2	49	36	38.0	89	37.2	70	SW	32	SW	10			10 s., 0	2 a. cu., w	⊕
27	27.58	27.43	23.2	41.0	46	20	21.7	80	37.0	79	W	4	NW	20			0	Few s. cu., 0	
28	27.63	27.54	24.0	29.0	35	18	22.0	75	28.0	89	SW	14	W	3			0	6 s. cu., w	
29	27.35	27.36	30.5	46.0	52	28	28.5	80	40.0	60	NW	10	SW	18			8 s., 0	Few s., 0	⊕
30	27.48	27.14	25.2	47.0	54	21	24.2	88	40.0	55	E	5	SW	19			0	8 a. s., 0	
31	27.43	27.34	32.0	22.0	43	20	30.0	80	21.0	87	NE	1	NE	8		T.	10 s., 0	10 n., 0	*
Mn.	27.42	27.38	27.2	32.3	39.5	20.6	25.0	79.1	29.3	75.9	W	11.2	SW	10.8	.10	T.	4.1 s., w	4.5 s., w	

BOISE, IDAHO.

[φ=43° 37′ N; λ=116° 8′ W; barometer above sea, 2,739 feet; gravity correction applied 0.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.14	27.36	34.0	33.0	40	32	33.2	93	33.0	100	NW	2	W	3	0.13	0.01	10 n., 0 (?)	D. fog, w	*
2	27.45	27.43	31.0	37.5	40	31	31.0	100	36.0	88	N	2	E	2	T.	T.	D. fog, w	10 s., 0 (?)	*
3	27.39	27.43	31.8	39.0	44	30	30.8	90	36.5	80	NW	2	NW	3		T.	Lt. fog, nw	10 n., nw	
4	27.56	27.59	34.0	36.5	52	31	33.0	91	35.0	88	NE	4	W	2	T.		10 s., 0 (?)	7 a. s., w	
5	27.62	27.57	28.6	31.0	32	29	28.6	100	31.0	100	NW	2	NW	2			D. fog, nw	D. fog, w	
6	27.49	27.51	27.6	29.0	30	26	27.6	100	29.0	100	W	1	W	3			D. fog, w	D. fog, w	
7	27.44	27.38	30.0	32.0	36	28	30.0	100	31.0	90	N	2	W	2			5 a. s., 0 (?)	10 s. cu., w	
8	27.36	27.34	29.0	28.5	31	27	28.3	93	28.0	95	NW	3	W	3		T.	10 s., 0 (?)	10 s., 0 (?)	=a.
9	27.33	27.25	27.8	29.0	31	27	27.5	97	28.5	95	W	2	W	4			10 s., 0 (?)	10 s., 0 (?)	=a
10	27.23	27.26	28.0	30.0	36	26	28.0	100	29.5	95	N	3	NW	2			2 s., 0 (?)	D. fog, w	
11	27.35	27.48	24.0	29.5	32	22	24.0	100	29.0	95	W	1	SW	6			D. fog, w	10 s., sw	
12	27.63	27.67	25.2	29.0	30	24	23.2	76	28.0	89	S	4	W	5			10 s., se	10 s., w	
13	27.69	27.67	25.2	29.3	30	25	24.0	86	28.0	86	SE	8	E	4		T.	10 s. s., 0 (?)	10 s. cu., se	*
14	27.63	27.50	22.0	32.5	36	21	21.0	87	27.5	53	SE	2	S	2			1 ci. s., 0 (?)	7 a. s., w	
15	27.40	27.32	20.0	23.0	30	17	20.0	100	23.0	100	NW	2	W	3			D. fog, 0	D. fog, w	
16	27.36	27.41	22.5	24.0	25	20	22.0	94	23.0	87	NW	1	NW	3		T.	10 s., 0 (?)	10 s., nw	*
17	27.46	27.49	21.8	22.5	24	20	20.2	78	21.0	80	S	4	W	4		T.	10 a. s., 0 (?)	10 s., w	*
18	27.56	27.37	21.4	30.0	31	20	21.0	95	28.0	79	SW	3	N	3			10 s., 0 (?)	10 s. cu., sw	*
19	27.32	27.35	23.3	25.0	26	21	23.0	96	24.0	88	NW	3	W	3	.12		10 s., nw	10 s., w	*
20	27.34	27.27	26.4	33.0	39	24	25.9	94	33.0	100	NW	3	N	3	.03	.07	10 n., 0 (?)	10 n., n	*
21	27.13	27.05	38.3	40.0	43	38	37.2	91	39.0	92	SE	5	SE	3	.07	.72	10 n., 0 (?)	10 n., sw	
22	27.07	27.32	35.2	38.5	43	35	35.0	98	33.0	58	NW	7	NE	4	.62	.02	10 n., 0 (?)	7 a. s., w	
23	27.22	27.16	39.5	46.0	52	37	37.3	83	41.5	70	SE	6	SE	4	.03	.08	10 n., 0 (?)	10 s. cu., sw	
24	27.02	26.77	45.9	53.2	57	42	43.9	86	46.2	60	SE	3	SE	6	.35	.02	10 n., 0 (?)	10 s. cu., sw	
25	26.88	27.07	39.2	34.5	53	29	35.2	69	29.0	52	NW	12	NW	4	.03		3 s. cu., nw	1 cu., nw	
26	26.90	26.57	31.0	39.5	41	28	25.5	46	35.0	66	E	13	SE	12		.02	10 a. s., 0 (?)	10 s. cu., sw	*
27	26.85	26.70	33.0	32.0	40	29	30.0	72	32.0	100	SE	3	NW	2	T.	.10	7 a. s., 0 (?)	10 n., 0 (?)	*
28	26.92	27.14	24.0	30.5	33	21	23.5	94	28.0	74	W	1	N	2	.07	T.	5 s. cu., w	7 a. cu., w	*
29	27.32	27.26	25.5	29.5	36	22	23.8	80	29.0	95	SE	4	E	15	T.	.01	1 ci. s., 0 (?)	10 n., 0 (?)	*
30	26.97	26.79	38.2	38.2	41	34	31.7	49	32.2	53	SE	10	SE	10	T.	T.	10 s., 0 (?)	10 s. cu., sw	*
31	26.78	26.87	31.8	31.5	37	29	30.0	82	30.0	85	NE	3	E	3	.01	.01	8 s. cu., 0 (?)	9 s. cu., sw	*
Mn	27.28	27.27	29.5	32.8	37.1	27.3	28.2	87.7	30.9	83.6	NW	8.9	W	4.1	1.46	1.06	6.5 s., nw	7.7 s., s. cu., w	

FEBRUARY, 1903.

1	26.84	26.93	31.5	27.5	32	24	27.0	56	27.0	95	SE	4	NW	4		0.04	10 s., 0 (?)	10 n., nw	*
2	27.06	27.08	15.0	27.5	31	11	15.0	100	23.0	50	SW	3	NW	11	0.03		7 s. cu., sw	0	*
3	27.11	27.16	11.2	24.0	26	10	10.2	80	21.5	69	S	4	SE	5			1 ci. s., 0 (?)	10 s. cu., w	
4	27.28	27.34	18.2	24.3	29	17	16.2	70	22.8	81	SE	2	W	3			7 a. s., 0 (?)	4 ci. cu., nw	
5	27.36	27.31	20.0	26.0	28	18	18.5	79	24.0	77	W	2	W	5			10 a. s., 0 (?)	0	
6	27.35	27.28	10.9	26.5	30	10	10.1	84	23.0	60	S	2	SW	2			0	2 a. s., w	
7	27.30	27.09	18.2	33.0	36	16	17.0	82	30.0	72	NW	3	SE	9			9 a. s., 0 (?)	10 s., 0 (?)	
8	27.06	27.20	27.0	34.0	36	26	27.0	100	30.0	64	S	8	S	8	.10	.04	10 n., 0 (?)	9 a. cu., nw	*
9	27.27	27.20	33.3	40.2	41	28	30.0	69	33.7	51	E	4	SE	11			10 s., 0 (?)	10 s., sw	
10	27.28	27.22	42.7	33.2	45	31	37.2	61	33.2	100	W	2	N	1		.16	8 ci. s., ne	10 n., 0 (?)	*
11	27.20	27.18	17.4	27.0	31	12	16.9	92	24.0	66	N	2	W	5	.12		8 ci. s., sw	6 a. cu., w	*
12	27.28	27.24	17.8	25.0	28	12	14.8	55	22.5	70	N	3	SW	4			0	0	
13	27.30	27.30	7.8	19.0	21	5	7.2	87	16.0	57	SE	2	NW	3			0	Few cu., 0 (?)	
14	27.30	27.39	8.0	21.0	23	4	7.0	78	18.9	59	SE	3	W	3			10 a. cu., nw	3 a. cu., w	
15	27.49	27.48	6.5	19.0	20	5	6.0	88	16.8	68	SE	2	W	3			Few ci.s., 0 (?)	10 a. cu., n	
16	27.50	27.42	12.8	28.5	34	11	12.0	85	25.4	66	S	2	W	4			7 a. cu., nw	0	
17	27.42	27.37	13.5	28.0	32	12	13.0	91	25.0	67	SE	2	W	4			Few ci.s., 0 (?)	0	
18	27.45	27.47	15.5	29.5	34	13	15.0	92	26.5	68	S	3	W	5			0	0	
19	27.54	27.55	15.5	32.0	35	15	15.0	92	30.0	80	NE	1	W	3			1 ci. s., 0 (?)	5 ci. cu., w	
20	27.61	27.59	18.0	34.5	37	16	17.0	83	31.0	69	SE	1	NW	2			0	4 ci. s., w	
21	27.62	27.57	20.0	34.5	40	18	19.2	89	31.0	69	S	2	NW	4			Few ci.s., 0 (?)	10 a. s., nw	
22	27.50	27.33	25.0	36.0	41	22	24.5	94	32.0	66	S	4	W	3			0	10 a. s., 0 (?)	
23	27.35	27.41	29.3	38.0	42	27	28.4	90	35.0	76	W	2	NW	3			5 a. s., 0 (?)	9 a. cu., nw	
24	27.42	27.36	26.3	42.5	45	26	25.8	94	37.0	60	S	3	W	3			0	0	
25	27.32	27.28	32.2	39.5	41	31	30.5	83	34.5	62	S	1	SE	3			10 a. s., 0 (?)	4 a. cu., w	
26	27.32	27.24	27.8	40.5	43	27	27.0	91	35.5	62	SE	3	N	4			4 ci. s., sw	9 a. cu., n	
27	27.22	27.28	28.1	42.5	46	27	27.8	97	36.0	54	SW	2	NW	6			8 s., sw	0	
28	27.50	27.57	30.0	35.0	37	28	28.0	79	26.0	24	SE	6	SE	6			6s, cu., ne	0	
Mn	27.33	27.32	20.7	31.0	34.4	17.9	19.4	83.6	27.5	66.5	s, sc	2.8	W	4.4	.25	.24	4.6 ci. s., sw	4.8 a. cu., w	

BOISE, IDAHO.

[φ=43° 37′ N; λ=116° 8′ W; barometer above sea, 2,739 feet; gravity correction applied, 0.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.40	27.20	26.3	32.0	38	21	21.8	49	29.5	75	SE	8	SE	7	.....	.....	1 a. s., 0 (?)	8 a. cu., nw	
2	27.10	26.98	31.5	35.5	39	30	28.0	66	33.9	86	NW	1	SE	7	.....	0.02	9 a. s., 0 (?)	10 n., se	
3	26.91	26.94	38.5	35.5	45	35	35.5	76	35.0	96	SE	12	NW	6	0.01	.08	10 n., 0 (?)	10 n., se	
4	27.04	27.09	31.2	37.0	37	31	31.0	98	35.0	84	W	2	NW	3	.01	.01	10 s., 0 (?)	10 s. cu., sw	
5	26.86	26.95	30.0	37.0	38	29	29.8	98	31.0	51	W	4	NW	4	.01	.08	10 s., 0 (?)	10 s. cu., w	
6	27.19	27.25	24.0	38.2	41	23	23.0	87	33.0	60	SE	3	E	5	.....	T.	1 ci. s., 0 (?)	9 s. cu., w	
7	27.24	27.07	35.2	43.0	45	34	29.7	53	33.0	32	SE	8	SE	12	.....	.....	1 ci. s., 0 (?)	9 a. s., sw	
8	26.94	26.98	37.0	34.5	42	29	32.2	61	34.0	96	SE	8	NW	3	T.	.16	10 n., 0 (?)	9 s. cu., w	
9	27.27	27.32	19.8	38.2	39	18	18.2	77	30.7	41	SE	2	SE	8	.....	.....	Few ci. s., 0 (?)	7 ci. s., w	
10	27.30	27.20	42.8	53.5	55	37	35.0	46	40.8	31	E	16	SE	22	.....	.....	10 s., 0 (?)	10 a. s., sw	
11	27.15	27.09	52.5	55.5	58	52	41.0	36	42.5	32	SE	10	SE	15	.....	.....	10 s. cu., w	10 s. cu., w	
12	27.09	27.05	50.5	52.8	56	44	40.5	42	42.0	40	SE	5	N	7	.....	T.	10 s., 0 (?)	10 s. cu., sw	
13	27.02	26.98	35.2	54.6	57	34	34.0	89	45.3	49	SE	3	SW	2	.....	.....	10 a. cu., sw	9 a. s., sw	
14	26.98	26.95	36.2	50.0	55	34	35.0	90	43.0	57	NW	2	E	10	.....	T.	10 a. s., s	8 s. cu., sw	
15	27.01	27.03	40.5	51.0	55	39	38.2	82	41.8	46	W	2	W	3	.20	.02	10 n., s	9 s. cu., sw	
16	26.99	26.97	34.0	47.0	49	32	33.5	95	39.0	49	E	3	W	8	.....	.....	10 s., 0	8 ci. s., sw	
17	27.03	27.06	29.5	43.3	45	29	29.5	100	34.8	42	SE	2	NW	9	.....	T.	10 s., 0 (?)	8 s. cu., nw	
18	27.11	27.19	30.7	46.0	48	30	28.4	77	36.5	39	W	6	NW	7	.....	.....	6 a. cu., n	Few cu., 0 (?)	
19	27.41	27.43	27.8	45.4	48	26	26.3	83	36.0	39	SW	2	W	3	.....	.....	Few a. cu., 0 (?)	Few a. cu., 0 (?)	
20	27.46	27.82	30.2	50.0	52	27	27.2	69	39.0	35	E	3	N	2	.....	.....	Few ci. s., 0 (?)	Few ci. s., nw	
21	27.19	27.13	32.0	52.0	54	30	29.8	78	40.5	35	E	2	NW	8	.....	.....	0	8 ci. s., nw	
22	27.22	27.22	31.0	55.2	56	30	29.2	82	42.0	31	SW	3	SE	3	.....	.....	Few ci. s., 0 (?)	0	
23	27.22	27.09	35.8	59.0	60	31	32.0	68	45.0	32	E	3	SE	5	.....	.....	0	0	
24	27.03	26.84	36.0	61.0	63	33	32.2	68	44.7	25	SW	2	E	7	.....	.....	0	5 ci., se	
25	26.86	27.00	52.0	50.0	59	47	42.2	44	47.5	84	E	10	NW	3	.....	.04	5 s. cu., se	10 n., s	
26	27.18	27.25	44.0	59.0	62	42	42.0	86	47.7	44	SW	1	W	3	T.	T.	8 s. cu., w	6 s. cu., sw	
27	27.25	27.22	53.0	56.7	62	45	44.0	49	48.0	54	E	7	SE	11	.....	T.	10 s. cu., s	10 s. cu., s	
28	27.08	26.99	61.0	60.4	62	48	48.3	39	50.4	50	SE	10	SE	16	.01	.08	10 n., se	7 s. cu., sw	
29	27.11	26.99	40.3	61.8	65	38	39.0	90	47.8	35	S	2	SW	16	.06	T.	Few a. cu., nw	9 n., sw	
30	26.91	26.80	47.8	67.8	68	46	43.0	69	51.3	31	W	4	W	7	.02	.02	10 n., sw	6 s. cu., sw	
31	27.02	26.94	46.0	50.4	55	44	40.0	60	39.4	36	SW	1	N	3	.....	.....	10 s. cu., sw	10 a. s., sw	
Mn.	27.11	27.08	37.5	48.8	51.9	34.5	33.5	71.2	40.0	49.6	SE	4.7	SE	7.3	.32	.51	6.2 s., s, w	7.3 s. cu., sw	

APRIL, 1903.

1	26.90	26.98	40.5	48.5	52	38	37.0	74	37.5	34	NW	8	W	11	T.	T.	10 n., nw	1 a. cu., nw	
2	27.20	27.36	32.8	49.0	50	30	29.5	69	39.0	40	W	5	NW	10	.....	.....	Few a. cu., 0 (?)	2 a. cu., nw	
3	27.36	27.04	38.2	60.0	62	34	33.2	61	44.4	27	S	5	SE	10	.....	.....	6 a. cu., w	10 s. cu., sw	
4	27.05	27.08	33.8	35.8	57	32	29.0	56	31.0	59	W	9	NW	4	T.	T.	10 s., nw	10 s. cu., w	
5	27.15	27.20	24.0	47.0	48	24	23.9	88	36.0	32	W	2	NW	5	.....	.....	Few a. cu., nw	0	
6	27.16	27.18	36.3	39.5	42	34	30.0	48	37.2	82	SE	5	E	2	.....	0.09	10 a. s., 0 (?)	10 n., 0 (?)	
7	27.20	27.10	38.2	57.0	58	38	36.3	85	47.0	48	SE	4	E	8	0.05	T.	10 s. cu., w	10 s. cu., w	
8	27.15	26.97	45.4	68.5	70	41	40.0	64	50.5	26	NE	4	SE	5	T.	.....	Few a. cu., w	8 ci. cu., sw	
9	26.91	26.84	43.8	45.0	66	40	40.8	79	44.2	95	SE	1	N	7	.....	.12	4 a. cu., w	10 n., sw	
10	26.98	27.13	32.0	37.5	43	32	32.0	100	32.0	56	NW	7	NW	8	.18	.01	10, n, 0 (?)	10 n., nw	
11	27.27	27.29	26.5	40.0	42	25	25.0	82	32.0	41	N	2	NW	6	T.	T.	6 a. cu., nw	7 s. cu., nw	
12	27.43	27.39	29.0	48.0	48	28	26.8	77	36.0	27	N	2	SE	7	T.	.....	0	Few ci. s., 0 (?)	
13	27.26	26.99	33.0	57.5	60	31	28.0	54	41.0	20	N	1	E	12	.....	.....	Few ci. cu., sw	2 a. cu., sw	
14	26.95	26.87	40.0	61.0	63	37	33.0	48	42.0	14	NE	5	SW	2	.....	.....	6 a. cu., sw	2 a. cu., w	
15	26.95	26.93	37.1	59.0	62	36	33.2	68	45.0	32	S	6	NW	8	.....	.....	10 a. s., w	9 ci. s., nw	
16	27.05	26.95	35.8	61.0	65	36	33.8	83	44.0	22	SE	2	E	8	.....	.....	Few ci. s., sw	10 a. s., nw	
17	26.84	26.86	48.5	54.5	65	47	41.0	54	46.0	53	S	3	NW	10	.....	T.	10 s. cu., sw	10 n., nw	
18	27.08	27.10	37.5	56.0	58	36	35.0	80	41.0	24	NW	2	NW	6	T.	.....	5 a. cu., nw	9 a. cu., w	
19	27.23	27.15	40.0	61.5	64	38	36.0	69	45.0	28	E	1	SE	3	.....	.....	1 a. cu., sw	Few a. cu., 0 (?)	
20	27.13	27.19	54.5	61.5	70	46	42.8	37	50.0	44	E	5	W	5	.....	.20	10 a. cu., sw	8 s. cu., s	
21	27.30	27.17	48.3	72.7	75	45	42.8	65	51.7	22	SE	5	SE	6	.....	.....	6 ci. s., nw	10 s. cu., sw	
22	27.23	27.20	51.1	63.8	66	51	44.2	59	48.4	31	W	1	NW	6	T.	T.	10 n., sw	3 a. cu., w	
23	27.25	27.19	38.2	65.5	67	38	35.0	74	47.0	22	S	3	W	6	.....	.....	1 ci. s., nw	1 ci. s., nw	
24	27.25	27.19	43.0	71.2	73	41	37.0	58	49.7	19	W	1	W	6	.....	.....	Few ci. s., 0 (?)	0	
25	27.12	26.87	46.1	73.5	79	46	39.6	57	53.0	24	W	1	SE	10	.....	T.	5 ci. s., sw	10 s. cu., sw	
26	27.01	26.97	49.0	51.0	64	48	44.3	70	41.0	42	NW	7	NW	7	T.	T.	10 n., nw	10 n., nw	
27	26.94	26.96	42.2	53.6	58	42	38.2	71	45.8	56	NW	10	SE	5	T.	.04	10 n., nw	9 s. cu., nw	
28	27.10	27.17	36.9	56.0	58	37	32.3	62	39.0	15	NW	5	NW	12	.....	.....	1 a. cu., w	1 a. cu., nw	
29	27.41	27.38	30.8	59.4	59	30	27.8	70	41.4	16	S	1	SE	8	.....	.....	Few a. cu., sc	2 ci. s., w	
30	27.27	27.18	51.8	67.0	68	47	39.3	30	49.7	28	SE	12	W	2	.....	T.	10 s. cu., w	7 ci. s., w	
Mn.	27.14	27.10	39.5	56.0	60.4	37.6	34.9	66.4	43.0	36.0	sc w nw	4.2	NW	6.8	.23	.46	5.4 a. cu., nw.	6.0 a. cu., nw	

BOISE, IDAHO.

[φ=43° 37′ N; λ=116° 8′ W; barometer above sea, 2,739 feet; gravity correction applied, 0.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.32	27.32	40.3	60.0	62	40	35.1	61	43.0	21	NE	4	NW	11	.....	.....	Few a. cu., nw.	6 ci. s., nw	
1	27.42	27.29	36.4	65.2	66	36	31.1	57	45.4	17	SE	3	W	9	.....	.....	1 ci. s., 0 (?)	0	
3	27.28	27.16	39.0	70.0	72	39	35.0	69	49.8	21	SW	1	W	7	.....	.....	3 ci. s., 0 (?)	Few ci. s., w	
4	27.18	27.06	42.8	73.0	75	42	38.0	66	50.7	18	SW	1	NW	6	.....	.....	0	Few ci. s., 0	
5	27.16	27.08	43.9	74.7	77	43	38.9	60	51.2	16	SE	2	W	8	.....	.....	0	0	
6	27.03	26.88	63.0	75.0	83	54	45.2	21	54.0	24	SE	4	NW	7	.....	T.	6 a. cu., sw	10 s. cu., sw	
7	27.22	27.13	37.3	62.6	64	37	33.2	66	44.9	21	W	3	S	5	.....	.....	Few s., w	7 ci. s., w	
8	27.15	27.11	45.1	63.3	66	44	39.1	60	48.3	32	SE	4	NW	6	.....	.....	10 a. s., w	8 a. cu., nw	
9	27.13	27.11	44.9	62.5	63	44	40.4	69	46.0	26	E	3	W	6	.....	0.02	10 s. cu., w	1 a. cu., nw	
10	27.11	27.10	50.2	63.8	67	46	42.0	51	50.3	39	SE	5	W	4	.....	T.	10 a. cu., w	9 s. cu., w	
11	27.25	27.14	39.3	73.4	74	39	37.5	86	50.4	16	S	3	SE	6	.....	.....	Few a. cu., 0 (?)	Few ci. s., 0 (?)	
12	27.11	27.01	50.5	82.8	88	50	43.0	54	57.8	20	NW	5	SE	8	.....	.....	4 ci., sw	10 a. s., sw	
13	27.07	26.88	59.0	81.2	84	57	49.0	49	54.8	15	SE	5	E	3	.....	.....	9 s. cu., sw	9 a. s., s	
14	27.15	27.20	50.8	62.0	70	49	44.0	59	44.8	22	NW	6	W	12	.....	.....	9 a. s., sw	Few a. cu., 0 (?)	
15	27.19	26.84	41.0	66.0	76	40	36.0	63	48.0	24	SW	2	NW	10	.....	.....	1 ci. s., w	9 s. cu., sw	
16	26.97	26.88	37.8	52.7	57	37	34.8	76	40.0	30	W	8	NW	12	0.08	T.	4 s. cu., nw	4 cu., nw	
17	26.97	27.00	39.5	46.5	53	39	35.3	68	42.0	70	W	10	NW	7	T.	T.	9 s. cu., n	10 n., nw	
18	27.05	27.06	41.0	49.8	54	41	37.2	72	41.3	49	NW	8	SW	10	.20	T.	9 n., w	8 s. cu., nw	
19	27.08	26.95	33.8	55.6	57	34	31.8	82	40.6	24	NE	2	N	4	T.	.....	Few ci. s., 0 (?)	2 ci. s., w	
20	26.97	26.85	39.1	60.5	63	36	34.4	64	45.0	28	NE	2	W	6	.....	.....	9 a. cu., w	4 a. s., w	
21	26.76	26.79	40.3	63.8	68	40	36.0	67	46.8	26	W	3	NW	18	.....	.....	4 s. cu., n	4 ci. s., ne	
22	27.01	27.03	40.3	62.2	63	39	35.3	62	45.4	24	W	2	NW	7	.....	.....	Few a. cu., w	5 a. cu., w	
23	27.13	27.02	37.6	65.5	68	37	34.0	71	49.0	28	SE	5	W	6	.....	T.	Few a. cu., se	4 a. cu., nw	
24	27.08	26.99	42.0	70.0	72	41	37.1	65	49.8	21	SE	4	W	8	.....	.....	4 ci. s., 0 (?)	2 a. cu., s	
25	27.08	27.01	47.0	73.3	74	44	41.0	61	51.8	21	NW	1	W	5	.....	.....	5 a. cu., n	3 a. cu., n	
26	27.03	27.06	52.9	66.0	70	51	45.0	54	53.0	83	NW	4	S	4	.....	.15	9 a. cu., nw	10 n., w	
27	27.15	27.16	45.8	61.4	63	46	44.0	88	48.0	37	NW	5	NW	5	.08	.....	9 a. s., 0 (?)	Few a. cu., nw	
28	27.23	27.25	51.3	70.0	71	51	47.3	76	52.0	28	SE	2	NW	6	T.	.....	8 s. cu., nw	6 ci. s., sw	
29	27.33	27.28	50.3	80.5	83	48	44.3	63	56.0	20	SW	2	NW	2	.....	.....	Few ci. s., w	4 ci. s., w	
30	27.36	27.20	56.2	88.0	90	56	48.8	60	60.0	18	E	1	E	7	.....	.....	0	Few a. cu., 0 (?)	
31	27.12	26.92	75.0	92.2	94	71	54.0	24	61.0	13	SE	5	SE	8	.....	.....	Few ci. s., 0 (?)	3 a. s., w	
Mn	27.13	27.06	45.6	67.2	70.5	44.2	39.6	62.7	49.1	27.5	SE	3.7	NW	7.0	.36	.17	4.3 a. cu., w	4.5 a. cu., ci. s., w	

JUNE, 1903.

1	26.96	26.89	64.1	76.4	92	63	54.5	55	58.4	34	SW	2	N	6	T.	T.	1 a. cu., 0 (?)	10 s. cu., s	
2	26.97	27.01	70.2	67.0	84	62	56.0	41	54.5	45	E	7	NE	12	.....	0.01	9 a. cu., sw	10 s. cu., sw	
3	27.24	27.16	50.2	77.3	79	50	48.3	88	55.0	22	E	1	NW	5	T.	.....	1 s. cu., nw	5 ci. s., w	
4	27.28	27.27	52.2	75.2	79	50	46.0	64	56.2	30	W	3	W	7	.....	.....	Few ci. s., 0 (?)	8 a. s., w	
5	27.40	27.32	49.2	81.0	81	48	45.0	73	59.0	26	SW	3	W	9	.....	.....	0	Few cu., 0 (?)	
6	27.45	27.31	55.2	84.7	85	54	47.2	56	61.2	26	SW	2	W	8	.....	.....	0	Few cu., 0 (?)	
7	27.34	27.20	57.9	86.4	88	57	48.4	51	60.9	22	SE	3	W	5	.....	.....	0	1 ci. s., nw	
8	27.22	27.10	59.7	88.0	92	59	51.5	58	62.0	22	SW	3	NW	4	.....	.....	Few a. cu., 0 (?)	6 ci. s., nw	
9	27.21	27.03	66.2	85.8	89	65	53.5	43	64.8	31	SE	6	NW	4	.....	.....	1 a. cu., 0 (?)	7 ci. s., sw	
10	27.16	27.02	63.5	88.5	91	62	51.5	44	59.0	15	SE	2	SE	8	0.04	.....	8 ci. s., sw	2 ci. s., w	
11	27.09	27.15	73.2	62.5	84	61	55.0	31	59.5	84	SE	5	E	5	.....	.18	1 a. cu., ne	10 n., se	
12	27.15	26.99	61.0	77.8	84	58	58.0	84	60.5	37	N	4	NW	6	.04	T.	8 a. cu., sw	5 s. cu., sw	
13	27.04	26.92	57.1	73.6	79	55	52.1	72	56.3	34	W	1	E	14	T.	T.	5 a. cu., sw	8 s. cu., sw	
14	26.97	26.78	56.5	87.3	89	56	51.0	70	58.8	16	NW	2	NE	12	T.	.....	4 ci. s., sw	10 s. cu., sw	
15	26.94	26.82	58.8	90.0	92	59	55.3	81	59.7	14	W	3	E	14	.04	.....	7 ci. s., sw	10 s. cu., se	
16	27.00	27.04	72.0	77.6	82	69	55.0	33	57.5	28	SE	7	NW	6	.....	.....	Few a. cu., sw.	2 a. cu., se	
17	27.18	27.16	59.0	80.5	82	55	49.0	49	55.5	18	NW	4	NW	4	.....	.....	0	3 ci. s., sw	
18	27.28	27.17	51.8	81.2	83	50	45.3	62	59.0	26	SE	4	W	6	.....	.....	Few ci. s., 0 (?)	3 ci. s., w	
19	27.16	27.01	57.8	85.7	91	58	49.0	54	60.7	23	SE	1	W	3	.....	.....	4 ci. s., sw	10 a. s., w	
20	27.14	27.06	58.3	80.3	82	56	52.8	70	58.0	25	W	1	W	7	T.	.....	1 a. cu., sw	6 ci. s., w	
21	27.07	26.87	59.8	83.0	86	58	51.9	56	59.0	23	W	1	NE	8	.....	.....	2 ci., nw	10 a. s., se	
22	27.02	27.02	57.9	76.5	77	58	54.9	83	58.0	32	W	2	W	4	T.	.....	5 a. cu., s	3 a. cu., w	
23	27.16	27.14	52.3	73.4	74	50	48.0	74	51.4	19	SW	1	N	9	.....	.....	8 s. cu., sw	2 ci. s., nw	
24	27.24	27.12	51.3	83.0	84	48	44.5	60	57.0	18	SW	2	NW	2	.....	.....	5 ci. s., w	6 ci. s., w	
25	27.04	26.94	63.2	84.5	87	59	51.0	48	63.5	32	SE	2	NW	1	.....	.....	6 ci., w	9 a. s., w	
26	27.07	27.07	61.3	84.0	86	61	56.0	73	59.5	22	W	2	NW	6	T.	.....	10 a. s., sw	7 ci. s., w	
27	27.22	27.05	60.3	88.9	92	58	51.3	55	64.4	26	SE	2	NW	6	.....	.....	Few ci. s., sw	6 a. cu., sw	
28	27.14	27.11	64.8	60.0	76	59	57.3	64	57.0	84	NW	1	SE	6	.....	.07	9 s. cu., sw	10 n., nw	
29	26.97	26.92	58.5	76.0	76	57	56.0	86	60.6	38	SE	1	NW	5	.08	.02	9 s. cu., nw	6 s. cu., w	
30	27.03	26.93	55.0	81.6	83	54	52.0	82	59.1	25	SE	3	NW	4	T.	.....	1 cu., sw	1 a. cu., w	
Mn	27.14	27.05	59.3	79.9	84.3	57.0	51.5	61.8	58.8	29.9	SE	2.7	NW	6.5	.15	.28	3.5 a. cu., sw	5.9 ci. s., w	

BOISE, IDAHO.

[φ=43° 37′ N; λ=116° 8′ W; barometer above sea, 2,739 feet; gravity correction applied 0.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.02	27.04	52.7	66.5	72	51	48.4	74	49.0	26	S	3	NW	14	.....	.....	Few ci. s., 0 (?)	1 a. cu., w	
2	27.25	27.23	47.7	66.0	68	46	43.0	70	50.0	31	NW	2	NW	10	.....	.....	8 s. cu., nw	4 a. cu., nw	
3	27.30	27.27	45.0	75.0	76	44	41.0	72	53.7	23	S	3	W	7	.....	.....	0	Few a. cu., w	
4	27.22	26.90	56.3	81.5	86	51	46.1	46	55.5	16	S	5	SW	17	.....	.....	5 ci. s., sw	10 s. cu., sw	
5	27.02	26.84	51.3	66.3	71	50	47.0	74	51.0	34	SE	1	W	4	T.	.....	9 a. cu., sw	9 a. s., sw	
6	26.91	27.04	47.0	54.3	70	46	41.0	61	47.7	63	S	4	NW	5	T.	T.	10 s. cu., sw	10 n., sw	
7	27.25	27.16	45.2	72.0	72	45	43.9	91	51.5	22	S	2	NW	5	0.07	.....	Few ci. s., 0 (?)	Few a. cu., w	
8	27.14	27.13	47.8	76.0	80	46	43.0	69	54.3	23	S	3	NW	7	.....	.....	Few a. s., sw	2 a. cu., sw	
9	27.22	27.15	48.8	80.6	83	48	43.1	65	56.0	19	E	1	NW	6	.....	.....	Few a. cu., sw	Few a. cu., w	
10	27.24	27.16	55.2	86.8	88	54	45.2	46	58.3	16	SW	2	W	4	.....	.....	0	Few cu., 0 (?)	
11	27.15	27.02	60.3	92.6	95	57	47.3	37	62.1	16	SE	2	NW	4	.....	.....	0	Few a. cu., sw	
12	27.07	26.95	57.3	88.5	93	56	48.3	52	63.5	24	SW	2	NW	4	.....	.....	7 ci. s., sw	5 ci. s., sw	
13	27.08	27.03	56.3	85.0	86	55	48.0	55	57.0	15	SW	1	NW	5	.....	.....	3 ci. s., sw	Few ci. s., sw	
14	27.29	27.19	50.2	79.4	81	50	44.1	63	54.0	16	SW	2	W	6	.....	.....	Few ci. s., 0 (?)	Few ci. s., 0 (?)	
15	27.20	27.10	51.6	82.0	83	52	42.6	48	60.0	27	S	3	NW	2	.....	.....	2 a. cu., sw	8 a. s., sw	
16	27.09	27.18	63.0	74.3	80	60	51.2	45	57.0	34	N	6	N	12	.....	T.	10 s. cu., sw	2 ci. s., w	
17	27.28	27.17	51.0	84.0	84	50	47.1	77	60.0	24	SE	1	SW	6	.....	.....	0	0	
18	27.18	26.99	64.3	93.8	94	62	52.5	46	60.8	13	SE	5	E	6	.....	.....	Few a. cu., sw	2 ci. s., w	
19	27.06	27.00	63.0	94.6	95	61	53.0	52	64.3	18	S	4	W	2	.....	.....	4 a. cu., sw	1 cu., w	
20	27.03	26.96	64.8	98.7	99	63	52.3	44	63.7	13	SE	1	SE	5	.....	.....	Few ci. s., sw	6 ci. s., s	
21	27.04	27.03	84.3	94.5	97	79	59.0	21	65.0	20	SE	15	NW	3	.....	.....	9 s. cu., e	1 cu., w	
22	27.10	27.02	71.3	85.2	99	70	59.0	49	61.0	24	SE	6	E	16	.....	T.	3 cu., se	10 s. cu., s	[illegible]
23	26.99	27.02	66.4	83.3	89	66	56.2	54	58.0	20	NE	3	NW	4	T.	.....	1 a. cu., se	7 a. cu., s	[illegible]
24	27.26	27.16	57.0	82.0	84	56	50.8	66	57.5	21	NW	3	W	6	.....	.....	1 a. cu., sw	0	
25	27.14	27.02	55.9	89.0	90	55	46.5	49	62.5	22	S	2	W	5	.....	.....	Few a. cu., sw	Few cu., 0 (?)	
26	27.16	27.09	54.4	88.0	90	54	48.3	65	62.0	22	SW	4	NW	6	.....	.....	1 a. cu., sw	Few cu., nw	
27	27.23	27.13	55.0	88.0	90	55	47.0	56	61.0	20	SE	3	NW	5	.....	.....	Few a. cu., 0 (?)	1 ci. s., nw	
28	27.20	27.08	56.0	87.3	88	56	47.0	52	60.0	19	SW	3	NW	6	.....	.....	Few a. cu., 0 (?)	Few ci. s., w	
29	27.14	27.05	57.8	88.2	89	57	48.0	50	60.2	18	SE	3	NW	4	.....	.....	Few ci. s., 0 (?)	Few ci. s., 0 (?)	
30	27.08	27.04	60.2	78.0	82	59	49.0	45	57.0	26	NE	3	NW	10	.....	.....	6 a. s., sw	1 a. cu., w	
31	27.24	27.12	52.5	78.9	80	52	47.5	70	57.8	27	SW	2	W	7	.....	.....	Few ci. s., 0 (?)	Few a. cu., w	
Mn.	27.15	27.07	56.4	81.9	85.0	55.0	47.9	56.9	57.8	23.0	S, SE	3.2	NW	6.5	.07	T.	2.5 a. cu., sw	2.6 a. cu., w	

AUGUST, 1903.

1	27.12	26.99	56.4	87.2	88	52	47.9	54	57.5	14	S	1	NW	2	.....	.....	0	1 ci. s., w	
2	27.02	26.91	54.8	86.7	87	54	45.0	47	58.2	16	S	3	NW	5	.....	.....	Few a. cu., sw	Few ci. s., w	
3	27.15	27.13	52.0	78.2	79	51	44.0	53	53.2	16	NW	2	NW	4	.....	.....	Few ci. s., 0 (?)	Few cu., 0 (?)	
4	27.17	27.05	49.0	86.0	86	48	40.0	45	56.0	12	NE	1	NW	3	.....	.....	0	Few ci., sw	
5	27.09	26.92	58.0	93.6	97	54	44.2	32	60.1	12	NW	2	W	7	.....	.....	3 a. cu., sw	1 a. cu., sw	
6	27.22	27.22	62.0	86.0	88	61	49.0	39	59.0	18	NW	3	W	3	.....	.....	0	0	
7	27.29	27.19	57.0	92.0	94	56	47.0	48	61.0	15	SW	1	W	4	.....	.....	0	0	
8	27.22	27.08	60.8	93.2	95	60	48.1	39	63.0	17	NW	2	NW	4	.....	.....	Lt. smoke, nw	0	
9	27.12	26.98	59.0	91.0	92	59	48.0	45	60.0	14	NW	4	W	4	.....	.....	Few ci. s., 0 (?)	0	Lt. smoke a.
10	27.06	26.98	59.0	90.6	92	57	46.5	38	59.6	14	S	2	N	5	.....	.....	Few ci. s., 0 (?)	0	Lt. smoke a.
11	27.10	27.04	59.2	89.2	91	58	49.0	48	61.2	19	NE	3	NW	4	.....	.....	Lt. smoke, ne.	0	
12	27.12	26.99	59.7	88.0	90	58	47.5	40	59.2	16	S	3	NW	6	.....	.....	1 a. cu., 0 (?)	Few a. cu., 0 (?)	Lt. smoke a.
13	27.03	26.95	59.3	89.4	90	58	47.3	40	61.4	19	NW	4	W	2	.....	.....	1 a. cu., s	2 ci. s., sw	Lt. smoke a.
14	27.01	26.88	57.3	95.0	95	57	48.3	52	64.0	17	W	1	W	2	.....	.....	Few ci. s., 0 (?)	1 a. cu., s	Lt. smoke a.
15	27.06	26.96	58.2	88.5	92	57	47.0	43	62.0	21	W	2	W	4	.....	.....	4 a. cu., sw	4 ci. s., sw	Lt. smoke a.
16	27.13	27.10	54.4	90.0	91	54	45.9	53	60.6	16	W	1	W	3	.....	.....	Few ci. s., 0 (?)	Few ci. s., 0 (?)	Lt. smoke a.
17	27.19	27.12	61.1	93.0	94	58	48.1	38	65.0	22	W	2	W	2	.....	.....	2 a. cu., sw	4 a. cu., sw	Lt. smoke a.
18	27.17	27.01	65.0	101.8	104	63	52.0	42	66.6	14	NE	2	N	4	.....	.....	2 a. cu., sw	3 a. cu., sw	Lt. smoke a.
19	27.04	26.98	66.1	94.3	97	63	54.1	46	64.3	18	NW	2	NW	3	.....	.....	4 a. cu., sw	5 a. cu., sw	
20	27.06	26.97	67.0	90.9	92	64	56.0	51	61.6	17	W	4	NW	4	T.	.....	8 s. cu., w	Few cu., 0 (?)	
21	27.01	26.90	70.0	90.0	92	67	58.0	32	60.4	16	0	0	NW	4	.....	.....	9 s. cu., sw	Few a. cu., w	
22	27.00	26.90	56.0	83.0	85	55	45.4	44	58.3	21	SE	3	NW	4	.....	.....	Few a. cu., 0 (?)	Few a. cu., 0 (?)	
23	27.07	26.99	52.8	73.3	75	52	47.5	69	54.0	27	NW	2	W	7	.....	.....	Few ci. s., 0 (?)	Few a. cu., 0 (?)	
24	27.02	26.86	49.3	82.0	83	49	43.3	63	57.4	21	SE	2	NW	3	.....	.....	0	1 ci. s., w	
25	26.87	26.96	55.1	62.3	76	53	46.9	51	53.8	58	E	3	SE	3	.....	0.01	9 a. cu., sw	9 s. cu., s	
26	27.20	27.26	51.5	58.6	66	51	50.2	92	53.6	74	SW	2	N	5	0.11	.01	10 s. cu., sw	10 s. cu., nw	
27	27.31	27.21	54.1	76.1	77	53	52.9	93	59.4	38	0	0	W	4	.....	.....	6 s. cu., n	Few a. cu., nw	
28	27.22	27.04	54.5	88.8	91	54	50.0	74	59.0	15	SE	2	SW	3	.....	.....	0	Few a. cu., 0 (?)	
29	27.18	27.13	64.3	84.2	86	58	49.1	32	59.0	21	E	4	NW	4	.....	.....	Few a. cu., sw	0	
30	27.20	27.08	57.2	86.0	88	56	50.2	62	65.2	33	E	1	NW	4	.....	.....	0	0	
31	27.21	27.13	58.0	84.0	86	52	48.0	71	59.8	23	SE	2	W	5	.....	.....	0	1 ci., sw	
Mn.	27.12	27.03	57.8	86.2	88.4	56.2	48.1	50.8	59.8	21.7	NW	2.1	NW	3.9	.11	.02	1.9 a. cu., sw	1.4 a. cu., sw	

BOISE, IDAHO.

[φ=43° 37′ N; λ=116° 8′ W; barometer above sea, 2,739 feet; gravity correction applied 0.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.19	27.11	52.8	86.0	89	52	44.0	50	60.0	21	N	1	N	5	.....	.....	Few a. cu., sw	0	
2	27.22	27.12	54.3	85.8	87	54	45.3	50	58.8	18	SE	2	N	3	.....	.....	0	0	
3	27.18	27.07	53.2	85.2	88	52	43.7	47	59.5	21	SE	2	W	4	.....	.....	3 a. cu., sw	Few a. cu., 0 (?)	
4	27.07	26.88	53.0	90.3	95	53	47.0	65	64.8	25	N	2	NW	2	.....	.....	Few ci. s., 0 (?)	7 ci. s., sw	
5	26.80	26.94	71.0	66.6	86	56	55.5	38	52.0	37	S	4	W	13	.....	T.	8 s. cu., s	7 s. cu., sw	
6	27.09	27.00	45.3	68.0	69	45	42.3	79	51.0	30	S	2	NW	4	.....	.....	2 a. cu., sw	2 cu., sw	
7	27.07	27.10	46.2	64.3	66	44	41.0	65	59.3	75	N	1	NW	5	.....	T.	8 s. cu., sw	4 s. cu., nw	
8	27.26	27.31	44.8	63.0	65	43	41.1	74	47.0	28	S	2	NW	8	T.	T.	9 s. cu., w	2 cu., nw	
9	27.19	27.39	39.0	68.0	69	38	35.1	70	48.0	20	E	1	N	3	.....	.....	Few ci. s., ne.	6 ci. s., nw	
10	27.17	27.09	52.1	63.0	68	51	43.9	53	46.2	25	W	2	NW	12	.....	.....	9 s. cu., sw	2 ci. s., nw	
11	27.10	26.96	42.8	60.9	64	41	38.8	74	47.1	35	NW	10	W	4	.....	.....	1 cu., nw	9 a. s., w	
12	26.70	26.91	50.0	45.3	57	44	45.0	69	43.5	88	NE	5	NW	4	0.05	0.24	10 n., sw	10 n., nw	
13	27.08	27.15	43.9	52.3	54	43	43.1	94	46.3	65	W	3	NW	5	.11	.14	10 n., w	4 s. cu., nw	
14	27.27	27.28	37.7	59.7	61	36	36.2	88	47.0	38	SE	2	W	6	.....	.....	Few ci. s., 0 (?)	1 a. cu., nw	
15	27.41	27.41	40.0	62.4	64	39	37.0	77	47.4	31	S	1	W	5	.....	.....	1 s. cu., sw	Few ci., 0 (?)	
16	27.44	27.38	43.1	69.3	71	42	38.8	69	52.1	30	SE	2	W	5	.....	.....	Few a. cu., w	0	
17	27.38	27.26	45.9	74.0	76	44	41.0	68	55.0	29	SE	1	W	4	.....	.....	0	0	
18	27.24	27.15	48.0	76.0	78	47	42.1	63	54.0	22	SE	2	N	4	.....	.....	Few ci. s., 0 (?)	2 ci., w	
19	27.21	27.12	47.8	79.0	80	45	42.3	65	56.3	23	SE	1	W	2	.....	.....	Few a. s., 0 (?)	Few ci. s., w	
20	27.22	27.13	49.1	80.0	81	48	43.2	64	58.2	26	SE	3	W	3	.....	.....	2 ci. s., 0 (?)	3 ci. s., w	
21	27.12	27.12	49.5	76.8	78	48	43.1	61	56.1	26	NW	3	NW	3	.....	.....	1 a. s., 0 (?)	4 ci. s., w	
22	27.28	27.25	50.4	79.7	84	49	45.0	67	59.2	29	0	0	NW	3	.....	.....	Few ci. s., n	2 ci., ne	
23	27.29	27.16	55.0	80.0	85	52	46.0	51	59.8	30	N	2	NW	2	.....	.....	0	4 a. s., w	
24	27.25	27.16	52.3	74.4	77	50	45.3	59	57.4	35	SE	2	W	5	.....	.....	5 a. cu., n	6 ci. s., nw	
25	27.11	27.15	52.2	59.4	65	49	48.0	75	44.2	28	SE	3	NW	10	.....	T.	6 a. cu., n	9 a. s., nw	
26	27.34	27.27	36.2	64.5	68	36	33.2	75	48.0	28	SE	3	NW	3	.....	.....	Few ci. s., 0 (?)	0	
27	27.24	27.08	44.2	71.5	75	43	36.2	46	51.0	22	N	1	NW	4	.....	.....	0	Few ci. s., 0 (?)	
28	27.08	26.91	47.9	77.0	81	44	39.2	46	54.5	22	E	2	NW	1	.....	.....	Few a. s., s	7 ci. s., s	
29	27.14	27.13	48.3	58.3	62	46	41.3	56	45.0	34	W	4	W	4	.....	T.	9 a. cu., sw	9 s. cu., w	
30	27.17	27.02	37.8	62.0	67	36	32.5	58	49.2	40	S	2	NW	2	.....	.....	Few a. s., 0 (?)	9 a. s., sw	
Mn.	27.18	27.13	47.8	70.1	73.7	45.7	41.9	63.9	52.6	32.7	SE	2.4	NW	4.6	.16	.38	2.8 a. cu., ci. s., sw.	3.6 ci. s., nw	

OCTOBER, 1903.

1	26.99	27.05	50.0	55.5	56	46	46.8	80	48.2	60	SW	4	W	3	0.01	0.33	10 n., sw	7 a. cu., w	
2	27.14	27.12	44.5	57.4	61	43	43.5	93	46.2	43	SE	1	N	3	T.	T.	10 n., nw	7 a. s., nw	
3	27.20	27.23	44.5	54.0	57	44	41.0	76	46.7	59	SE	2	E	3	.....	T.	10 s. cu., 0 (?)	10 n., w	
4	27.22	27.19	49.5	56.1	60	49	46.0	78	51.7	75	SE	5	SE	3	.01	.26	10 n., s	9 s. cu., w	
5	27.17	27.01	48.5	56.5	59	48	48.0	97	49.6	62	SE	2	SE	5	.21	.04	10 n., 0 (?)	10 n., sw	
6	26.97	27.21	52.5	52.7	58	42	45.3	58	41.9	40	NW	12	NW	7	.02	T.	10 n., nw	6 a. cu., w	
7	27.35	27.24	35.5	58.7	60	33	33.3	81	43.2	25	SE	2	SE	6	.....	.....	0	5 a. s., sw	
8	27.17	27.07	47.3	68.6	74	44	40.2	55	54.6	41	S	5	W	2	.....	.....	10 a. s., 0 (?)	6 ci. s., sw	
9	26.98	26.85	52.8	71.5	78	49	44.8	54	53.0	28	NW	4	W	22	.....	T.	10 s. cu., sw	10 n., sw	
10	27.06	27.10	51.9	52.8	57	50	44.0	54	47.6	70	SE	4	E	6	T.	.16	7 a. cu., sw	9 s. cu., w	
11	27.37	27.51	45.4	55.6	59	44	43.9	90	48.0	59	NW	2	NW	3	.01	.....	5 a. s., nw	3 a. s., nw	
12	27.54	27.46	40.2	63.0	66	40	39.0	90	52.7	51	SE	2	W	1	.....	.....	Few ci. s., 0 (?)	1 ci. s., sw	
13	27.42	27.25	44.2	65.6	69	42	43.0	91	54.3	49	NE	2	NW	2	.....	.....	0	Few ci. s., w	
14	27.33	27.34	43.5	59.5	65	42	42.0	89	44.0	26	S	2	NW	9	.....	.....	Few ci., 0 (?)	4 ci. s., nw	
15	27.45	27.37	38.2	60.8	64	36	35.0	74	48.0	39	SE	4	W	2	.....	.....	1 ci. s., 0 (?)	Few ci. s., 0 (?)	
16	27.40	27.35	40.0	64.0	69	39	37.0	77	51.0	41	SE	1	NW	2	.....	.....	Few ci. s., 0 (?)	0	
17	27.40	27.30	48.1	67.6	72	41	41.3	57	53.6	40	SE	7	W	2	.....	.....	Few ci. s., 0 (?)	Few ci. s., 0 (?)	
18	27.38	27.34	46.3	68.2	75	42	41.0	65	52.4	34	SW	2	W	2	.....	.....	0	Few ci. s., 0 (?)	
19	27.36	27.31	45.2	66.7	73	42	40.2	66	51.7	36	SE	2	W	2	.....	.....	Few ci. s., 0 (?)	Few a. s., 0 (?)	
20	27.36	27.29	43.2	68.3	74	40	39.0	70	52.3	33	SE	3	W	2	.....	.....	Few ci. s., 0 (?)	4 a. s., w.	
21	27.33	27.31	42.3	66.0	70	41	37.8	67	51.2	36	SE	1	W	2	.....	.....	Few ci. s., 0 (?)	2 ci. s., sw	
22	27.44	27.39	40.0	66.2	73	40	37.0	77	51.2	35	N	2	NW	2	.....	.....	0	Few ci. s., 0 (?)	
23	27.46	27.35	42.4	65.1	72	40	37.8	67	51.0	38	S	1	NW	2	.....	.....	Few ci. s., 0 (?)	Few a. s., 0 (?)	
24	27.38	27.31	44.8	62.2	72	41	38.5	57	48.2	35	SE	4	NW	2	.....	.....	Few ci. s., 0 (?)	6 a. s., w	
25	27.35	27.32	43.7	63.6	70	40	37.2	55	48.1	31	SE	2	W	2	.....	.....	Few ci. s., 0 (?)	Few a. s., 0 (?)	
26	27.40	27.36	41.5	62.4	69	40	36.3	62	48.0	34	SE	1	W	2	.....	.....	Few ci. s., 0 (?)	Few ci. s., 0 (?)	
27	27.39	27.31	38.3	60.0	67	37	34.0	66	48.2	42	NE	2	W	1	.....	.....	0	8 a. s., w	
28	27.30	27.21	44.0	59.6	67	43	39.0	66	48.8	46	N	2	NW	2	.....	T.	10 a. s., 0 (?)	10 a. s., w	
29	27.33	27.36	42.6	48.6	53	36	37.0	60	39.5	44	NW	7	NW	5	.01	.....	1 s. cu., 0 (?)	Few ci. s., 0 (?)	
30	27.41	27.28	31.3	53.1	58	29	28.3	70	40.5	32	E	2	S	3	.....	.....	0	2 ci. s., sw	
31	27.32	27.29	33.3	55.8	65	32	29.2	62	48.8	37	SE	4	0	0	.....	.....	2 ci. s., 0 (?)	1 a. s., w	
Mn.	27.30	27.26	43.7	60.8	65.9	41.1	39.6	71.1	48.7	42.6	SE	3.1	W	3.5	.27	.79	3.4 ci. s., sw., nw.	3.9 ci. s., w	

BOISE, IDAHO.

[φ=43° 37′ N; λ=116° 8′ W; barometer above sea, 2,739 feet; gravity correction applied, 0.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	27.34	27.25	37.3	57.5	68	32	31.0	49	44.0	32	E	2	NW	1			Few ci. s., 0	Few a. s., 0 (?)	
2	27.26	27.19	35.8	59.7	72	24	30.1	52	45.0	30	SE	4	NE	2			0	Few a. s., 0 (?)	
3	27.26	27.24	42.0	57.0	68	37	33.0	37	44.0	34	NE	2	NW	2			2 a. s., 0 (?)	6 a. s., w	
4	27.08	27.20	68.2	55.2	70	45	44.2	7	46.2	51	SE	22	E	3		T.	10 a. s., 0 (?)	10 s. cu., sw	
5	27.35	27.28	37.8	50.0	53	35	34.3	72	43.0	57	E	3	E	12	T.	T.	8 ci. s., sw	10 a. s., w	☉
6	27.18	27.03	35.3	60.0	64	33	34.3	91	45.4	31	SE	2	SE	4			5 ci. s., nw	9 a. s., sw	
7	26.89	27.07	57.8	39.5	60	37	44.0	32	36.3	75	SE	9	NW	12		T.	10 a. s., sw	10 n., sw	☉
8	27.30	27.46	30.3	41.8	46	29	29.3	90	33.8	44	N	2	N	1	T.	0.02	7 a. cu., nw	2 s. cu., nw	✱
9	27.27	27.11	40.8	34.0	42	30	31.5	33	32.3	85	SE	13	N	12		.14	10 a. cu., sw	10 s., nw	✱ ☉
10	27.26	27.21	20.5	30.9	33	20	20.0	93	28.6	77	S	3	SE	4	T.	.03	6 ci. s., w	10 a. s., nw	✱
11	26.68	26.81	38.0	44.0	50	31	35.0	76	36.3	48	SE	15	NW	11	0.12	.02	10 s., 0 (?)	8 a. cu., w	✱
12	26.97	26.89	37.1	36.2	39	34	32.5	62	35.0	90	SE	4	S	4		.02	10 a. s., 0 (?)	10 s. cu., nw	✱
13	27.06	26.95	35.0	40.3	49	35	34.0	91	37.8	81	S	4	SE	10	.01	.01	10 a. s., 0 (?)	10 n., se	✱
14	26.75	27.01	55.6	39.7	64	36	45.3	45	34.0	57	SE	10	NW	12	.06	.19	10 s. cu., s	10 s., nw	✱
15	27.21	27.31	35.6	32.3	41	31	30.0	52	31.8	95	N	3	E	3	T.	.07	10 s. cu., 0 (?)	10 n., w	✱
16	27.43	27.52	30.0	31.8	36	26	30.0	100	28.8	71	NW	4	N	4	.04	T.	10 n., 0 (?)	Few ci. s., 0 (?)	✱
17	27.55	27.48	22.5	32.3	37	22	21.5	87	27.8	57	S	1	E	7			Few ci. s., 0 (?)	4 ci. s., w	
18	27.38	27.17	25.8	36.8	41	24	22.3	60	31.8	59	SE	2	SW	5			3 a. s., 0 (?)	10 n. cu., sw	
19	27.13	27.03	32.0	43.2	50	31	27.4	56	37.2	58	SW	2	W	2		T.	10 s., 0 (?)	10 s. cu., sw	
20	27.19	27.26	41.5	51.4	57	41	39.3	84	46.1	68	NW	8	NW	2	.02	T.	10 s., 0 (?)	10 n., sw	
21	27.27	27.25	49.3	58.3	59	49	47.8	90	49.0	52	SE	12	SE	10	.28	.08	10 n., 0 (?)	10 s. cu., sw	
22	27.31	27.30	41.8	44.8	57	41	41.1	91	43.3	90	NW	6	NW	1	.02	.10	10 n., nw	10 n., 0 (?)	
23	27.16	27.20	42.8	45.8	48	42	42.0	94	45.0	95	NW	3	NW	2	.23	.06	10 s. cu., 0 (?)	10 s., nw	
24	27.34	27.44	42.9	47.5	52	42	41.4	89	44.0	77	SE	1	SW	3	T.		10 s., 0 (?)	10 s. cu., e	
25	27.50	27.45	37.5	46.4	52	37	36.0	88	42.4	73	NE	3	NW	2			Few ci. s., 0 (?)	6 a. s., w	
26	27.47	27.42	36.0	47.4	53	34	35.0	91	43.0	71	SE	3	S	2			Few ci. s., 0 (?)	8 a. cu., w	☉
27	27.48	27.44	35.0	42.6	50	34	34.2	93	40.0	81	SE	2	W	2			8 ci. s., 0 (?)	2 a. s., w	
28	27.43	27.39	31.9	38.0	44	30	31.9	100	36.9	91	SE	5	W	2			0	7 a. s., sw	
29	27.41	27.44	36.5	47.4	52	34	36.0	96	43.4	74	S	1	W	1		T.	10 s., 0 (?)	Few ci. s., 0 (?)	
30	27.47	27.41	34.8	47.6	55	34	34.0	93	44.2	78	SE	1	W	2			Few a. s., 0 (?)	Few ci. s., 0 (?)	
Mn	27.25	27.24	38.2	44.6	52.1	34.0	34.8	73.1	39.2	66.1	SE	5.1	NW	4.7	.78	.74	6.5 ci. s., sw, nw	7.1 s. s., sw., s	

DECEMBER, 1903.

1	27.34	27.22	33.1	43.2	54	31	33.0	99	41.2	86	NW	1	NW	8			Lt. fog, nw	9 s. cu., w	
2	27.48	27.48	33.3	35.0	42	29	29.0	60	30.5	61	W	8	NW	4	T.		Few ci. s., 0 (?)	0	
3	27.56	27.61	26.3	35.6	41	22	25.9	85	31.0	61	SE	1	SW	1			0	Few ci. s., 0 (?)	
4	27.67	27.59	22.6	35.5	40	22	22.0	93	31.2	63	NW	2	0	0			0	Few ci. s., 0 (?)	
5	27.62	27.61	22.7	33.0	38	21	21.7	87	31.7	88	SE	2	W	2			0	Few ci. s., 0 (?)	
6	27.64	27.56	23.0	32.4	37	20	22.0	87	29.0	67	NW	3	NW	2			0	Few ci. s., 0 (?)	
7	27.55	27.54	21.0	35.8	41	20	20.5	93	31.0	59	S	1	W	1			6 a. cu., nw	Few ci. s., 0 (?)	
8	27.61	27.56	27.1	35.0	44	26	26.1	89	31.2	67	W	1	NW	2			4 ci. s., 0 (?)	Few ci. s., 0 (?)	
9	27.55	27.50	24.8	37.7	44	24	23.8	88	33.0	62	SE	2	W	1			0	Few ci. s., 0 (?)	
10	27.42	27.14	28.8	35.4	43	22	28.0	90	31.9	70	W	1	SW	3			0	10 a. s., w	
11	27.03	27.08	30.2	36.3	39	29	30.2	100	34.0	81	W	1	NW	1	0.15	T.	10 n., 0 (?)	10 s. cu., nw	✱
12	27.12	27.15	35.2	39.5	44	31	33.2	82	35.8	71	SE	2	SW	8		T.	9 s. cu., w	10 n., w	
13	27.27	27.44	36.7	34.2	37	30	35.1	87	34.0	98	E	2	S	2	.11		10 s. cu., w	D. fog., s	
14	27.55	27.53	26.4	33.4	37	25	26.4	100	32.1	88	NW	2	NW	3	T.	T.	10 n., 0 (?)	9 a. s., w	≡ᵖa.
15	27.41	27.28	32.9	37.6	40	30	31.1	83	35.0	79	NW	2	S	4			7 a. s., 0 (?)	10 s. cu., w	
16	27.11	27.06	38.8	42.0	50	37	35.0	70	39.2	80	SE	8	SE	11	.01	0.02	10 s. cu., 0 (?)	10 n., sw	
17	27.09	26.98	35.5	37.0	42	34	34.0	87	35.7	90	N	2	W	3	T.	.01	10 n., 0 (?)	10 n., se	✱
18	27.10	27.22	31.0	36.0	42	30	31.0	100	32.0	66	SW	1	N	2	.12		10 s., 0 (?)	4 a. s., nw	≡ᵖa. ✱
19	27.34	27.32	36.2	38.7	45	30	32.2	66	36.7	84	SE	7	SE	8		.06	10 s., 0 (?)	10 n., 0 (?)	✱
20	27.23	27.35	41.3	40.4	47	35	38.0	75	36.9	73	SE	5	N	5	.06	T.	10 s., 0 (?)	9 s. cu., nw	
21	27.36	27.41	38.0	40.0	44	32	31.0	81	36.0	69	SE	3	SW	2		T.	3 ci. s., 0 (?)	7 a. cu., nw	
22	27.40	27.35	28.7	33.2	37	29	28.0	93	32.0	89	SW	2	SW	2		.16	1 ci. s., 0 (?)	10 s. cu., nw	✱
23	27.50	27.61	26.3	30.8	34	20	26.3	100	29.3	95	NW	3	S	2	.04		10 s., 0 (?)	6 a. s., n	≡ᵖa. ✱
24	27.64	27.63	21.3	34.0	40	20	21.0	96	30.8	71	S	1	SW	3			Few ci. s., 0 (?)	5 ci. s., nw	
25	27.70	27.75	23.7	33.2	39	22	22.7	87	31.7	86	SE	2	S	3			0	Few ci. s., 0 (?)	
26	27.78	27.66	19.1	29.0	32	18	19.0	98	27.3	82	NW	1	NE	3			Few ci. s., 0 (?)	1 ci. s., nw	
27	27.66	27.62	19.3	27.0	31	18	18.6	90	25.2	79	E	2	NW	4			Few ci. s., 0 (?)	9 a. s., nw	
28	27.62	27.65	20.3	27.6	29	18	19.8	93	25.3	75	S	2	W	2			Few ci. s., 0 (?)	9 s., ne	
29	27.64	27.60	18.0	27.2	32	16	17.0	85	25.0	75	S	2	W	2			0	2 a. s., w	
30	27.56	27.38	19.6	25.0	30	14	18.1	78	23.0	76	SE	6	W	2			0	1 a. s., nw	
31	27.17	27.10	21.2	25.4	27	18	20.2	86	23.9	82	S	1	NW	2			2 ci. s. 0 (?)	7 s. cu., w	☉
Mn	27.44	27.42	27.5	34.4	39.4	24.9	26.3	87.4	31.7	76.2	SE	2.5	NW	3.2	.49	.25	3.9 ci. s., w, nw	5.1 ci. s., nw	

SALT LAKE CITY, UTAH.

[φ=40° 46′ N; λ=111° 54′ W; barometer above sea, 4,366 feet; gravity correction applied, −.02.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p m.	
1	25.57	25.73	26.5	29.1	31	22	25.3	87	27.9	88	S	2	NW	7	T.	0.07	10 n., 0 (?)	10 s. cu., nw	*
2	25.87	25.88	24.0	33.0	37	21	23.8	98	28.9	63	SE	3	SE	2			D. fog, 0	10 a. cu., nw	
3	25.87	25.81	30.0	34.6	42	26	27.2	72	32.0	78	SE	3	NW	3			0	10 s. cu., w	
4	25.90	25.96	32.5	42.2	48	28	30.5	82	36.1	58	SW	4	NW	2			0	10 s., 0 (?)	
5	26.04	26.06	34.7	41.9	48	31	32.0	77	36.1	60	SE	3	SE	2			0	1 s., 0 (?)	
6	25.89	25.88	32.0	40.6	45	31	29.0	72	36.8	72	NW	7	NW	9			0	3 cu., nw	
7	25.84	25.75	29.2	34.1	40	27	27.7	85	31.6	79	SE	2	W	3			0	4 cu., w	
8	25.74	25.66	27.0	33.8	42	26	25.5	84	31.8	83	SE	2	NW	4			Lt. fog, 0	2 s., 0 (?)	
9	25.60	25.55	29.5	32.0	35	26	28.8	88	29.2	74	SE	1	NW	3			Lt. fog, 0	2 s., 0 (?)	
10	25.52	25.60	29.2	31.8	33	28	29.0	98	29.6	79	S	1	SE	2	0.05	.06	10 n., 0 (?)	3 cu., w	*
11	25.65	25.80	31.0	31.1	36	28	28.3	74	28.6	76	SE	1	NW	10			10 s., 0 (?)	0	
12	25.94	25.95	26.5	31.0	34	21	24.2	75	27.8	69	E	3	NW	4			0	0	
13	25.96	25.93	23.3	27.4	30	19	21.5	78	24.4	68	0	0	NW	4			0	2 s., 0 (?)	
14	25.92	25.87	18.2	27.3	31	17	16.8	80	24.8	73	SE	2	NW	4			0	0	
15	25.77	25.68	19.8	28.4	30	17	18.7	85	25.2	67	SE	2	W	3			0	0	
16	25.70	25.72	19.5	27.8	31	16	18.0	79	25.3	74	SE	4	NW	4			0	0	
17	25.75	25.76	17.3	27.5	36	16	16.3	85	25.0	74	SE	2	NW	4			0	0	
18	25.81	25.84	21.0	26.9	31	15	19.5	80	24.8	77	SE	2	SE	2			0	0	
19	25.66	25.66	25.3	34.0	37	20	22.0	63	30.1	66	SE	6	SE	2		.01	10 s., 0 (?)	5 cu., e	*
20	25.74	25.76	26.3	32.2	35	25	21.8	83	31.7	95	SE	3	SE	2		.02	10 s., 0 (?)	10 n., se	*
21	25.67	25.56	38.5	39.7	41	33	36.0	81	37.9	87	NE	5	S	2	.05	.20	10 n., 0 (?)	10 n., se	*
22	25.39	25.71	44.0	35.8	44	33	40.8	78	30.1	54	S	4	NW	7	.34	.02	10 s., 0 (?)	8 cu., nw	
23	25.74	25.73	32.0	38.0	42	30	27.0	54	33.2	63	S	5	SE	3			10 s., 0 (?)	10 s., se	
24	25.62	25.49	42.0	50.0	52	36	36.3	61	41.8	52	SE	5	SE	6	T.	T.	10 n., 0 (?)	10 n., e	
25	25.25	25.32	51.0	36.0	52	30	41.0	44	34.6	89	SE	8	NW	19	T.	.04	10 s., 0 (?)	10 n., nw	*
26	25.42	25.11	29.0	48.0	49	25	27.0	80	37.7	39	E	3	SE	20	.06	T.	10 s., 0 (?)	10 s. cu., se	*
27	25.30	25.15	35.5	50.7	53	33	35.0	96	40.2	41	SE	6	SE	18	.49	.09	10 n., 0 (?)	8 s., se	
28	25.19	25.50	36.0	27.3	49	25	34.5	88	24.8	73	SE	3	NW	9	.23	.35	10 n., 0 (?)	8 ci., sw	*
29	25.74	25.83	22.0	23.8	28	15	19.2	65	20.3	59	W	3	SE	6			1 s., se	2 ci., w	
30	25.60	25.35	20.5	32.9	41	15	17.0	54	27.4	51	N	4	N	7			0	7 s., nw (?)	
31	25.28	25.34	33.5	31.5	39	28	31.7	84	25.0	40	E	10	NW	9	.01	T.	10 n., 0 (?)	10 s., nw	*
Mn.	25.67	25.68	29.8	34.2	39.4	24.6	26.9	77.7	30.3	68.4	SE	3.5	NW	5.6	1.25	.86	4.6 s., se	5.3 s., nw	

FEBRUARY, 1903.

1	25.31	25.26	20.5	31.8	33	18	18.0	68	26.0	47	SE	2	S	5	T.		0	10 s, 0	*
2	25.21	25.32	23.2	22.0	31	20	21.7	82	21.5	94	W	3	NW	10		0.03	0	10 n., nw	**
3	25.44	25.55	12.6	18.0	22	9	11.8	86	16.0	72	E	4	SW	6	0.06	T.	0	1 s., 0	*
4	25.64	25.66	7.6	20.2	25	4	7.2	92	17.0	58	S	3	NE	4			0	0	
5	25.62	25.35	8.2	19.8	20	5	7.0	75	16.0	50	SE	4	NW	7			0	0	
6	25.05	25.68	10.7	18.0	23	8	9.9	85	15.0	58	SE	4	S	4			0	2 a. cu., n	
7	25.72	25.66	7.8	22.0	27	4	6.8	79	18.0	50	SE	4	W	3			0	8 a. cu., w	
8	25.51	25.62	18.9	23.8	26	14	16.3	64	23.0	90	NW	4	W	5		.02	10 s., 0 (?)	10 n., 0 (?)	D
9	25.75	25.76	15.8	27.8	34	13	15.4	94	24.8	69	SE	3	NW	4	.02	T.	10 n., 0 (?)	0	**
10	25.78	25.66	25.2	38.8	42	20	22.4	68	31.5	46	SE	2	SE	4	T.	T.	10 n., se	6 s. cu., nw	*
11	25.48	25.41	33.6	20.4	41	18	30.1	70	20.4	100	NE	5	NW	18		.60	10 a. cu., nw	10 n., nw	**
12	25.41	25.49	13.0	15.2	20	6	11.8	79	11.8	47	NW	4	NE	5	.02		4 ci. s., w	0	**
13	25.56	25.56	8.2	12.0	14	2	5.4	43	9.5	56	NE	4	SW	2			0	0	
14	25.59	25.69	− 1.3	11.3	13	− 4	− 2.1	76	9.0	58	SE	5	N	7			0	0	
15	25.77	25.78	− 0.8	12.0	15	− 2	− 1.2	88	10.2	68	SE	3	W	4			0	Few s., 0 (?)	
16	25.84	25.82	0.4	18.0	21	0	− 0.4	77	15.2	60	SE	3	S	4			7 ci., nw	4 a. cu., sw	
17	25.81	25.76	10.2	22.2	26	8	8.0	58	20.0	73	E	2	SW	3			0	Few s., 0 (?)	
18	25.82	25.88	18.1	24.3	29	9	11.9	79	22.2	75	SE	3	W	3			0	Few s., 0 (?)	
19	25.92	25.90	16.1	25.1	28	12	15.0	84	23.0	76	SE	2	W	3			0	0	
20	25.96	25.97	17.0	25.6	28	12	16.4	91	23.8	80	SE	1	W	3			0	Few s., 0 (?)	
21	25.98	25.98	17.1	29.5	32	15	17.1	100	26.6	71	SE	3	SE	2			Lt. fog, 0	Lt. fog, 0	
22	25.91	25.78	18.0	29.0	35	15	17.5	92	27.2	82	E	6	NW	4			Lt. fog, 0	10 s., 0 (?)	
23	25.73	25.75	25.0	31.6	35	23	24.0	88	28.8	74	SE	1	N	4			Lt. fog, 0	6 s., 0 (?)	
24	25.73	25.68	27.0	34.2	34	26	26.2	91	31.2	74	S	2	NW	4	.02	.01	10 n., 0 (?)	7 s. cu., ne	*
25	25.62	25.57	22.6	33.0	36	19	21.6	88	29.2	66	NW	3	NW	4			Lt. fog, 0	2 s., nw	
26	25.58	25.58	24.5	32.3	37	23	23.0	82	28.8	68	NW	3	W	9			Lt. fog, 0	Few cu., nw	
27	25.54	25.60	23.3	28.2	30	22	21.8	82	27.1	88	SE	3	NW	12		.03	Lt. fog, 0	10 n., n	*
28	25.74	25.88	20.7	28.1	28	19	18.2	68	23.9	57	W	2	NW	9	.01		Lt. fog, 0	0	
Mn.	25.66	25.67	15.6	24.1	28.0	12.1	14.3	79.6	21.3	68.1	SE	3.1	NW	5.4	.13	.69	2.2 n., nw	3.4 s., nw	

SALT LAKE CITY, UTAH.

[φ=40° 46′ N; λ=111° 54′ W; barometer above sea, 4,366 feet: gravity correction applied, −.02.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	25.88	25.66	15.8	30.0	35	14	14.0	73	24.0	42	SE	2	NE	4	.....	.....	Lt. fog, 0	7 cl., w	
2	25.58	25.50	20.6	33.0	39	16	18.1	68	28.8	62	S	2	SW	6	.....	.....	Lt. fog, 0	10 s. s , w	
3	25.45	25.45	35.8	37.5	45	31	29.0	45	35.1	82	SE	3	SE	5	.....	T.	10 s., 0 (?)	10 s., s	
4	25.45	25.48	41.0	42.2	47	35	35.5	61	37.2	65	SE	7	S	3	T	.....	10 s., 0 (?)	8 ci. s., sw	
5	25.31	25.31	37.5	33.2	44	29	35.0	81	32.0	89	SE	7	NW	20	0.03	0.09	10 n., se	10 n., 0 (?)	✱⌐◪
6	25.51	25.68	26.5	34.8	35	15	25.0	84	28.3	46	NE	3	SW	5	.38	T.	0	4 cu., w	✱
7	25.74	25.61	23.3	41.2	42	22	20.8	70	31.0	30	SE	2	SE	2	.....	.....	0	1 a. s., w	
8	25.46	25.39	36.8	37.0	42	30	28.3	34	33.0	69	E	11	SE	3	.....	T.	0	10 n., sw	✱
9	25.52	25.79	32.0	33.5	38	27	32.0	100	27.0	44	NW	4	W	4	.11	.13	10 n., nw	8 ci. s., nw	✱
10	25.91	25.84	26.6	45.8	50	24	23.0	61	36.0	39	E	5	S	4	.....	.....	Lt. fog, 0	7 ci., w	
11	25.78	25.70	40.3	55.0	59	37	31.8	40	42.0	34	S	4	S	8	.....	.....	0	10 a. s., w	
12	25.66	25.56	45.8	56.0	61	43	36.3	41	42.2	32	SE	5	SE	5	.....	.....	1 s., 0 (?)	10 s., sw	
13	25.50	25.37	52.0	61.0	65	46	40.5	37	45.3	29	SE	12	S	11	.....	.....	10 s., 0 (?)	9 a. cu., sw	
14	25.40	25.39	47.5	51.4	59	44	36.5	34	40.7	41	SE	4	NW	6	.....	.....	3 s., se	9 s., sw	
15	25.43	25.44	46.5	51.0	54	43	39.0	54	39.5	36	SE	9	N	3	T.	.....	10 s., se	8 ci., sw	
16	25.38	25.38	47.3	45.0	52	41	38.8	48	36.8	48	SE	7	NE	11	.....	T.	10 cu., se	8 s., sw	✱⌐◪
17	25.31	25.29	41.2	40.0	48	36	33.2	45	36.0	79	SE	5	SW	7	.....	T.	4 cu., se	10 s., 0 (?)	
18	25.33	25.52	29.0	34.0	36	28	29.0	100	30.0	65	NW	18	NW	11	.02	.37	10 n., nw	10 s., nw	✱
19	25.71	25.80	26.5	37.0	40	26	20.5	36	30.2	47	NE	5	SW	6	.....	T.	0	6 cu., nw	✱
20	25.86	25.77	26.5	39.0	42	24	24.0	72	31.0	42	SE	2	S	8	.....	.....	0	Few cu., s	⌐
21	25.63	25.50	28.0	47.5	51	26	25.0	69	35.5	30	SW	2	SW	7	.....	.....	Lt. fog, 0	10 s , nw	⌐
22	25.55	25.62	36.6	45.0	48	35	31.6	61	35.2	38	NE	2	NW	10	.....	.....	0	Few ci. s., w	
23	25.65	25.56	33.5	50.0	52	29	27.0	44	39.0	38	SE	3	W	8	.....	.....	0	0	⌐
24	25.51	25.39	36.0	57.4	68	35	29.5	48	40.4	20	SE	2	E	7	.....	.....	0	8 ci. s., s	⌐°
25	25.43	25.45	45.0	51.2	58	41	37.2	50	43.4	55	SE	6	NW	13	.....	T.	6 s., se	4 s., w	
26	25.61	25.69	42.0	54.0	55	39	37.5	68	43.0	42	SE	1	N	6	T.	.....	10 s., se	9 ci. s., w	
27	25.77	25.73	38.5	60.5	64	38	35.0	73	45.0	30	SE	4	S	7	.....	.....	Few s., se	9 s., w	
28	25.69	25.54	51.0	62.0	63	46	40.0	39	47.6	33	SE	4	SE	6	.....	.....	10 s., 0 (?)	10 s., w	
29	25.54	25.48	55.1	61.2	63	50	43.1	38	47.7	38	E	3	E	10	T.	T.	10 s. cu., e	10 s., w	◪
30	25.49	25.41	45.5	63.0	64	44	42.0	77	48.5	36	SE	7	SE	6	.22	T.	1 s., s	Few cu., 0 (?)	≡≈
31	25.43	25.35	56.0	59.0	62	53	45.2	45	46.0	38	SE	11	SE	14	.....	.....	10 s. cu., sc	10 s., w	
Mn.	25.56	25.54	37.6	46.7	50.8	33.8	31.7	57.9	37.3	45.5	SE	5.2	SE	7.3	.76	.59	4.4 s., se	7.3 s., w	

APRIL, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	25.24	25.34	47.0	42.8	55	39	44.0	81	36.6	58	SE	8	SW	7	0.02	0.07	10 n., se	10 s., nw	
2	25.44	25.69	34.0	41.0	43	33	31.0	74	33.0	45	N	5	N	13	.....	T.	1 cu., ne	8 s., nw	✱—°◪
3	25.83	25.67	36.3	52.1	54	35	32.8	72	39.0	30	SE	4	SE	7	.....	.....	10 s. cu., se	Few cu., 0 (?)	
4	25.40	25.32	45.0	44.2	59	28	36.2	44	34.5	88	SE	8	N	20	.....	T.	3 s., sc	9 s., 0	✱
5	25.45	25.61	27.8	37.2	39	26	27.8	100	27.8	28	SE	2	N	9	.11	.01	10 n., se	Few cu., nw	✱
6	25.66	25.58	27.0	47.7	49	26	25.2	80	34.5	23	SE	2	S	9	.....	.....	0	10 s., n	⌐°
7	25.61	25.62	42.0	57.0	58	41	34.8	51	41.8	27	S	2	N	3	.....	.....	10 s. cu., s	4 ci., w	
8	25.61	25.51	41.7	67.0	70	40	36.2	62	46.7	20	SE	4	SE	5	.....	.....	1 s., 0	Few cu., 0 (?)	
9	25.44	25.29	51.9	66.2	71	50	41.0	40	46.2	20	SE	6	SE	15	.....	.....	1 s., se	8 s., w	
10	25.28	25.44	53.0	35.5	58	32	42.8	45	34.5	92	SE	18	SW	4	.....	.21	3 cu., sc	10 n., n	✱
11	25.58	25.63	30.0	36.2	36	28	25.5	56	26.0	20	NW	5	N	10	.07	.....	10 s., nw	2 cu., n	⌐°
12	25.75	25.82	26.8	38.6	40	25	23.3	63	28.5	26	NE	1	NW	8	.....	.....	7 a. s., w	Few cu., nw	⌐°
13	25.77	25.52	27.3	56.3	57	27	23.3	58	40.0	21	NW	3	SW	3	.....	.....	0	0	⌐
14	25.45	25.28	42.0	61.3	64	40	31.2	28	41.8	15	SE	8	SE	9	.....	.....	0	10 s., sw	
15	25.36	25.37	50.0	57.5	62	48	39.0	38	37.8	9	SE	7	SW	16	.....	.....	3 cu., se	8 s., sw	
16	25.50	25.42	41.8	59.0	63	38	38.0	40	40.1	14	E	3	N	6	.....	.....	Few s., 0	10 a. s., s	
17	25.24	25.32	51.4	45.2	55	38	38.9	82	39.4	62	SE	5	N	5	.....	.01	10 s., s	10 s., sw	
18	25.48	25.52	42.0	53.8	54	40	39.0	79	40.0	29	NE	1	NW	8	.05	.02	10 n., se	4 cu., w	
19	25.62	25.60	42.0	58.8	61	38	34.8	51	44.0	31	SE	2	NW	10	.....	.....	1 s., 0	3 cu., se	
20	25.65	25.63	48.8	64.5	66	43	36.3	39	46.5	22	S	4	SE	11	.....	T.	10 s., s	9 s., sw	
21	25.75	25.71	46.9	66.2	70	44	39.4	54	47.3	23	SE	2	N	10	T.	.....	0	1 cu., 0 (?)	
22	25.68	25.52	48.5	74.5	76	46	39.0	44	49.0	13	N	3	NW	4	.....	.....	Few s., 0	3 a. cu., w	
23	25.61	25.57	49.0	66.3	69	46	41.0	52	46.0	19	SE	3	NW	12	.....	.....	5 a. cu., nw	7 ci. s., nw	
24	25.62	25.61	50.0	69.0	72	46	39.5	40	49.0	23	N	8	NW	8	.....	.....	Few s., 0	8 ci., w	
25	25.61	25.40	52.5	76.3	80	48	42.5	46	52.3	18	NW	2	NW	5	.....	.....	3 a. cu., w	5 ci. s., w	
26	25.33	25.25	59.1	57.0	66	49	45.0	34	47.8	53	NW	6	NW	22	.....	.....	6 s. cu., s	10 s., sw	
27	25.37	25.38	37.0	45.6	49	36	35.7	90	41.0	70	W	2	SE	3	.49	.01	10 n., w	10 s., w	◪
28	25.47	25.54	38.6	48.0	48	35	35.1	73	38.0	40	NW	8	SW	4	.01	.03	10 n., w	7 s., nw	⌐
29	25.78	25.85	34.0	47.2	49	33	32.0	83	35.6	31	0	0	W	6	T.	.....	7 a. cu., ne	0	✱—°
30	25.86	25.63	39.0	62.0	69	34	30.3	36	44.3	23	NE	2	NE	7	.....	.....	0	9 s., w	⌐
Mn.	25.54	25.52	42.1	54.5	58.7	37.7	35.3	56.2	40.3	31.4	SE	4.3	{n nw}	8.6	.75	.86	4.7 s., se	5.8 s., w	

SALT LAKE CITY, UTAH.

[φ=40° 46′ N; λ=111° 54′ W; barometer above sea, 4,366 feet, gravity correction applied, —.02.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	25.61	25.63	49.2	59.0	61	48	42.2	58	43.0	26	SW	2	NW	12	.....	.....	8 a. s., w	1 cu., w	
2	25.80	25.71	39.4	58.5	61	38	35.0	67	42.8	27	NE	1	NW	9	.....	.....	0	1 ci. s., w	
3	25.69	25.59	45.3	63.3	65	41	35.4	38	44.3	20	E	2	N	10	.....	.....	0	2 ci., nw	
4	25.60	25.58	47.0	65.2	66	44	36.7	38	45.2	18	SE	3	NW	8	.....	.....	1 s., 0	7 ci., w	
5	25.56	25.56	47.2	67.0	68	45	37.2	39	47.2	21	SE	2	NW	6	.....	.....	0	0	
6	25.62	25.48	56.5	74.0	78	52	41.0	44	49.0	14	E	5	NW	2	.....	.....	0	0	
7	25.48	25.57	58.6	60.0	62	52	47.1	44	41.0	16	W	16	NW	8	.....	.....	10 s. cu., sw	Few ci., w	
8	25.58	25.50	43.5	66.3	68	43	33.5	35	45.1	16	SE	4	W	3	.....	.....	Few s., se	3 ci. s., w	
9	25.53	25.50	48.8	54.5	64	44	38.5	40	45.5	52	E	2	N	15	.....	.....	Few s., 0 (?)	9 s., n	
10	25.58	25.50	44.0	63.0	65	42	37.7	58	47.0	30	E	4	0	0	T.	.....	0	10 s., w	⌐
11	25.64	25.64	50.0	64.2	65	49	40.2	44	45.5	22	N	2	NW	8	.....	.....	0	0	
12	25.70	25.62	47.0	78.5	81	47	39.5	54	52.5	16	SE	4	NW	4	.....	.....	0	0	
13	25.63	25.44	56.0	84.3	86	56	44.3	41	56.0	16	S	6	SE	5	.....	.....	0	2 s., s	
14	25.40	25.45	67.8	69.0	74	58	48.8	25	52.0	32	SE	9	NW	20	.....	T.	9 s. cu., se	8 s., s	⌐◹
15	25.62	25.36	45.8	68.0	69	45	39.8	62	49.2	25	N	1	NW	8	.....	.....	0	0	
16	25.28	25.21	51.3	45.0	62	41	41.8	47	38.0	55	NW	12	E	6	.....	0.06	10 s. cu., nw	10 s., s	
17	25.27	25.33	35.0	47.5	50	33	34.0	92	38.0	42	E	5	S	2	0.10	.14	10 n., e	8 ci., nw	*⌐◹
18	25.44	25.45	36.8	48.0	49	36	35.3	88	40.8	56	S	2	SE	3	.10	.04	10 n., s	5 s., nw	⌐◹
19	25.51	25.36	39.2	57.7	60	37	35.7	73	43.0	30	W	3	S	4	.03	T.	6 a. s., w	8 s., w	⌐
20	25.38	25.30	47.2	53.0	58	45	42.0	67	45.2	57	E	9	S	5	T.	T.	10 s. cu., e	10 n., s	
21	25.19	25.27	47.0	42.2	52	41	43.0	74	41.5	95	SE	5	NE	6	.25	.76	10 n., se	10 n., w	▲⌐◹
22	25.34	25.50	39.9	52.0	52	36	39.9	100	44.8	59	N	6	S	3	.30	.40	10 n., n	5 ci., w	
23	25.50	25.47	41.8	47.0	58	39	37.5	70	43.8	79	NW	4	SE	5	.....	.22	7 ci. s., s	10 n., 0	▲⌐◹
24	25.46	25.52	43.0	52.0	52	40	41.5	89	45.0	60	NW	1	NE	4	.09	.40	10 n., 0 (?)	6 ci. s., w	
25	25.55	25.51	40.5	62.5	62	40	37.7	80	47.0	32	NE	4	N	6	.....	.....	0	1 cu., 0	⌐
26	25.54	25.49	45.1	68.5	70	43	39.2	62	51.0	30	E	2	S	8	.....	.....	0	2 cu., w	
27	25.50	25.56	52.0	54.0	59	43	48.0	77	47.5	64	W	2	N	5	T.	.66	10 n., w	8 s. cu., w	
28	25.69	25.71	46.8	63.0	64	44	44.0	82	49.5	40	N	2	N	8	.....	.....	8 s. cu., n	1 cu., 0 (?)	
29	25.80	25.77	50.5	70.0	70	48	44.0	62	55.5	42	SE	2	NW	10	.....	.....	0	Few cu., 0	
30	25.85	25.72	53.2	76.1	78	52	46.0	60	59.0	38	NE	4	NW	10	.....	.....	0	1 cu., 0	
31	25.69	25.60	64.9	81.4	83	61	48.0	29	57.2	24	E	4	NW	9	.....	.....	0	Few cu., 0	
Mn	25.55	25.51	47.8	61.8	64.9	44.6	40.5	58.7	46.8	37.2	E	4.2	NW	6.7	.87	2.68	4.2 n., se., w	4.1 cu., w	

JUNE, 1903.

1	25.49	25.42	66.5	81.0	86	62	50.0	32	58.0	26	E	15	N	13	.....	.....	0	7 s., 0	
2	25.54	25.52	62.3	71.8	79	59	51.3	49	57.3	43	E	3	SE	6	.....	T.	8 a. s., sw	9 s., sw	⌐◹
3	25.65	25.63	59.2	69.7	74	56	51.9	63	57.0	48	S	2	W	4	.....	.....	0	10 s., sw	
4	25.70	25.65	56.0	76.5	78	54	46.0	49	54.0	23	E	2	NW	11	.....	.....	2 ci., nw	2 cu., 0	
5	25.75	25.73	58.6	77.2	79	56	49.6	56	56.0	27	NE	2	NW	10	.....	.....	0	3 ci. s., w	
6	25.82	25.76	60.5	71.6	78	57	48.5	44	56.0	39	NE	5	E	6	.....	.....	1 ci., e	10 a. s., 0	
7	25.77	25.67	66.5	71.2	80	58	54.0	46	58.0	47	NW	4	E	2	.....	T.	6 ci. s., se	10 s., ne	⌐◹
8	25.67	25.54	60.5	80.3	84	58	51.0	54	57.0	24	NE	2	NW	16	.....	.....	4 cu., ne	4 cu., ne	
9	25.61	25.53	66.0	71.8	79	64	52.0	40	56.8	42	E	16	NE	5	.....	0.53	0	10 s., ne	▲⌐◹
10	25.64	25.64	61.0	69.0	75	60	49.0	44	56.0	46	E	16	SE	6	.....	.....	2 ci., s	9 ci. s., sw	
11	25.68	25.58	59.3	74.5	79	58	50.8	58	57.0	36	E	5	E	7	.....	.....	5 a. cu., sw	9 s., s	⌐◹
12	25.61	25.50	57.0	73.8	78	55	50.5	66	56.5	36	SE	3	N	6	T.	.....	10 s., se	9 ci. s., s	
13	25.51	25.42	58.0	79.2	81	57	51.0	64	55.2	21	SE	2	NW	8	.....	.....	0	7 ci. s., w	
14	25.47	25.45	59.4	70.5	84	58	50.4	56	53.5	34	NW	3	SE	3	.....	T.	1 ci. s., sw	10 s., nw	⌐◹
15	25.49	25.47	62.5	80.8	85	59	52.0	51	58.8	28	S	7	E	11	.....	.....	2 a. cu., s	8 s., sw	⌐◹
16	25.59	25.53	65.2	84.0	85	63	51.7	41	57.2	19	SE	2	SE	4	0.21	.....	0	Few cu., 0	▲
17	25.64	25.58	66.2	82.8	85	60	48.2	26	56.2	18	SE	5	S	3	.....	.....	0	2 ci. s., w	
18	25.64	25.59	65.5	82.3	83	58	48.5	30	54.5	15	SW	4	NW	8	.....	.....	3 ci., 0 (?)	Few cu., 0	
19	25.61	25.51	66.7	86.5	86	59	50.0	31	57.0	15	N	2	NW	6	.....	.....	Few ci., 0 (?)	2 s., sw	
20	25.49	25.47	62.8	79.8	82	61	51.0	46	57.0	25	SE	3	N	11	.....	.....	9 s. cu., s	8 ci. s., w	
21	25.56	25.44	57.0	81.5	85	56	48.0	54	58.0	25	SE	5	NE	6	.....	.....	10 ci. s., 0 (?)	9 ci. s., w	
22	25.40	25.39	72.0	81.8	82	67	53.0	29	57.8	24	SE	3	N	6	.....	.....	8 s. cu., s	4 a. cu., w	
23	25.57	25.53	56.0	76.0	77	56	49.4	65	55.0	26	N	1	NW	4	.....	.....	3 ci., 0 (?)	8 ci. s., w	
24	25.65	25.62	55.5	75.5	76	55	46.0	50	52.5	20	NE	7	NW	7	.....	.....	0	0	
25	25.62	25.54	57.0	83.1	87	56	45.0	40	58.0	22	SE	4	NW	5	.....	.....	0	9 ci. s., nw	
26	25.52	25.52	64.8	88.3	89	64	51.0	40	58.5	16	SE	7	NW	4	.....	.....	9 a. s., w	5 ci. s., nw	
27	25.60	25.61	67.4	86.1	87	62	51.9	36	59.2	20	NE	6	W	4	.....	.....	2 ci., 0	4 ci. s., w	
28	25.55	25.39	67.0	89.4	91	64	51.3	35	59.4	16	SE	5	NW	7	.....	.....	3 ci. s., s	1 s. cu., nw	
29	25.38	25.42	63.1	71.6	78	63	55.0	52	55.6	38	NE	1	NW	21	.....	.....	10 a. s., se	10 s. cu., w	
30	25.51	25.48	61.0	79.5	81	59	52.3	58	57.0	26	NE	5	NW	2	.....	.....	1 a. s., sw	Few s., 0 (?)	
Mn	25.59	25.54	62.0	78.2	81.8	59.1	50.3	47.2	56.7	28.2	SE	4.9	NW	7.1	.21	.53	3.3 ci., s	5.9 ci. s., w	

SALT LAKE CITY, UTAH.

[φ=40° 46′ N; λ=111° 54′ W; barometer above sea, 4,366 feet; gravity correction applied, −.02.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	25.48	25.26	65.5	88.8	91	61	52.0	42	58.2	15	E	4	W	16			0	2 cu., sw	
2	25.59	25.60	53.7	62.0	67	52	39.2	26	43.2	19	N	13	NW	13			3 s. cu., n	1 cu., 0	
3	25.68	25.74	50.0	67.5	68	46	40.8	47	48.5	24	E	2	NW	6			8 a. s., n	Few cu., 0	
4	25.78	25.56	48.5	77.1	78	48	42.0	60	51.4	15	SE	5	SE	5			0	1 a. cu., w	
5	25.44	25.24	66.5	87.0	88	66	48.0	24	55.5	12	SE	13	S	24			8 ci. s., 0 (?)	7 s., w	
6	25.31	25.30	77.5	74.5	87	64	55.0	24	54.5	28	S	19	NW	22		T.	0	9 s., s	
7	25.67	25.58	50.5	70.5	71	49	41.0	46	50.2	23	NE	5	NW	9	T.		0	0	
8	25.54	25.50	53.0	80.5	82	52	44.0	51	52.0	12	S	3	NW	11			0	Few cu., 0	
9	25.62	25.56	56.5	83.0	85	52	42.5	32	52.2	9	E	4	NW	5			0	Few cu., 0	
10	25.66	25.61	59.2	85.8	87	56	44.7	32	55.0	12	NE	3	N	8			1 a. s., s	0	
11	25.64	25.56	68.0	89.5	91	62	49.3	26	57.0	12	E	4	N	7			0	2 ci., w	
12	25.59	25.46	69.0	94.3	95	63	48.4	21	61.5	15	E	3	S	9			0	4 cu., sw	☐
13	25.58	25.44	77.0	89.2	96	76	56.8	30	58.0	14	SE	6	NW	7	T.		7 a. cu., sw	8 s., s	
14	25.63	25.56	68.0	86.0	88	67	50.6	30	58.2	18	NE	4	NW	11			0	1 ci. cu., w	
15	25.62	25.54	64.5	87.0	92	63	49.0	34	59.8	20	SE	2	SE	4			3 ci. s., sw	10 a. s., sw	
16	25.60	25.55	64.0	71.0	84	60	57.3	68	59.0	51	E	7	E	8	0.02	0.12	10 n., e	9 s., sw	☐
17	25.68	25.65	61.0	78.2	79	60	54.0	66	53.3	18	E	4	N	9			0	Few cu., 0 (?)	
18	25.70	25.60	60.8	87.0	88	58	49.0	45	58.8	18	SE	3	W	3			0	1 cu., w	
19	25.63	25.53	67.3	91.2	92	67	53.0	40	61.0	17	SE	7	SE	6			3 s. cu., s	1 cu., sw	
20	25.63	25.58	71.9	85.7	92	69	54.4	33	60.2	23	SE	7	SE	8			2 ci. s., sw	10 a. s., s	
21	25.70	25.64	69.1	85.3	86	69	59.0	57	62.5	29	E	4	NE	2	T.	T.	10 n., s	Few ci. s., s	
22	25.71	25.60	70.5	81.5	90	69	56.0	42	61.8	34	SE	2	SE	10			3 ci. s., sw	9 s. cu., s	☐
23	25.65	25.63	67.8	76.5	81	66	58.3	59	61.0	43	SE	6	E	6	T.		2 s. cu., s	6 a. cu., s	
24	25.67	25.61	68.0	87.2	89	66	56.0	49	59.0	18	SE	9	SW	2			1 cu., s	3 ci. cu., s	
25	25.63	25.60	65.4	81.7	90	64	54.4	51	61.0	22	SE	6	E	5			7 ci. s., s	7 s., w	
26	25.67	25.58	69.5	90.5	93	67	55.5	43	60.0	16	SE	2	S	7	T.		5 cu., s	7 ci. s., sw	
27	25.67	25.60	73.7	89.8	91	69	53.2	26	56.5	10	SE	4	NW	8			0	5 ci. s., w	
28	25.62	25.57	68.0	87.0	88	62	50.0	28	55.0	10	NE	7	NW	6			2 ci. s., sw	8 a. s., w	
29	25.60	25.52	62.2	89.0	89	61	47.7	35	56.8	12	E	7	W	5			0	1 ci. s., w	
30	25.56	25.37	68.7	90.0	91	61	50.7	29	57.0	11	E	2	N	5			0	2 cu., w	
31	25.61	25.60	60.7	72.5	74	59	47.2	38	51.5	24	E	3	NW	9			1 cu., ne	0	
Mn	25.62	25.54	64.4	82.8	85.9	61.4	50.3	39.8	56.4	19.5	SE	5.5	NW	8.3	.02	.12	2.5 ci. s., s	3.7 cu., w	

AUGUST, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	25.62	25.51	55.0	84.0	87	55	45.0	48	55.0	16	SE	4	NW	6			0	0	
2	25.52	25.46	67.0	87.2	94	64	50.2	31	58.0	16	E	2	SE	23			3 ci. s., s	7 s., sw	
3	25.52	25.46	74.8	89.7	94	74	52.3	21	58.2	14	SE	7	SE	8			1 ci. s., 0	3 cu., sw	
4	25.61	25.51	68.0	87.2	89	61	47.7	33	57.5	15	SE	3	N	3			0	0	
5	25.56	25.53	74.3	89.4	92	70	52.3	22	57.5	13	SE	6	SE	6			0	0	
6	25.63	25.63	70.0	89.5	90	68	50.0	24	56.2	10	SE	5	NW	9			1 s. cu., s	0	
7	25.72	25.68	65.0	88.0	90	59	48.0	29	57.0	13	E	4	NW	8			0	0	
4	25.70	25.58	65.0	89.7	90	61	48.5	31	55.0	8	SE	2	NW	5			0	0	
9	25.57	25.48	70.5	88.0	90	63	49.5	22	57.2	13	SE	4	NW	6			3 a. s., sw	Few cu., 0	
10	25.54	25.48	67.2	88.8	91	63	48.2	24	59.0	16	NE	4	NW	5			1 cu., se	1 cu., 0	☐
11	25.57	25.51	69.0	89.8	92	67	55.0	43	58.0	13	S	2	N	8			3 cu., sw	1 ci. s., w	
12	25.56	25.48	68.5	87.4	89	66	53.0	37	56.6	13	S	3	N	5			0	2 ci. cu., w	
13	25.52	25.49	65.0	88.0	89	65	52.2	44	59.0	24	SE	3	SE	5			1 a. cu., s	7 s., w	
14	25.56	25.48	65.2	82.8	90	63	51.2	39	59.4	26	SE	4	SE	16		0.03	1 s. cu., se	9 n., sw	☐
15	25.56	25.50	67.0	85.6	91	66	51.0	34	59.6	22	SE	5	SE	6	0.08		0	4 cu., sw	
16	25.64	25.59	68.0	91.2	94	63	54.8	43	60.0	15	SE	6	NW	9			0	Few cu., w	
17	25.68	25.62	71.0	92.5	97	67	54.0	34	60.0	14	SE	2	NW	9			1 s., s	2 cu., w	
18	25.68	25.60	75.2	92.0	94	71	54.2	26	61.8	18	SE	3	NW	11			3 s. cu., se	1 cu., 0	
19	25.62	25.50	71.4	94.0	98	66	55.4	37	61.8	16	S	5	SE	2			0	4 cu., w	☐
20	25.63	25.51	70.7	89.0	92	70	50.2	23	65.3	29	NE	2	SE	2	.15	.02	1 cu., 0	9 s. cu., w	☐
21	25.57	25.45	71.4	88.0	90	70	60.0	53	61.8	23	SE	5	SE	9	.06	.03	9 s. cu., se	7 s. cu., sw	☐
22	25.50	25.36	69.5	87.7	89	66	60.0	60	67.0	36	NE	3	SE	2		.06	Few cu., e	3 cu., sw	☐
23	25.37	25.33	71.5	82.5	84	69	58.0	46	57.2	21	N	3	NW	15			1 cu., n	1 cu., w	
24	25.46	25.39	57.7	84.0	85	56	48.2	52	57.0	18	E	4	NW	8			0	Few cu., w	
25	25.45	25.33	70.5	85.8	89	68	53.0	32	56.2	15	SE	8	S	22			Few cu., e	Few cu., w	
26	25.60	25.62	55.0	66.0	78	55	46.0	58	49.5	31	NE	2	NW	12			0	Few cu., 0	
27	25.73	25.71	50.0	69.5	70	48	42.5	56	51.8	31	SE	2	NW	11			0	0	
28	25.74	25.62	53.1	80.0	84	51	43.6	49	52.5	14	NE	1	NW	10			0	0	
29	25.68	25.62	71.0	85.0	88	65	53.5	33	57.0	17	E	10	NW	7			10 s. cu., e	1 cu., s	
30	25.66	25.60	64.0	86.2	93	60	48.0	31	56.2	14	SE	8	NW	12			0	Few cu., 0	
31	25.64	25.58	63.2	87.3	92	62	48.2	34	57.8	16	SE	5	NW	12			0	3 ci., w	
Mn	25.59	25.52	66.4	86.2	89.5	63.6	51.1	36.9	58.0	18.1	SE	4.1	NW	8.8	.29	.14	1.3 cu., se	2.1 cu., w	

SALT LAKE CITY, UTAH.

[φ=40° 46′ N; λ=111° 54′ W; barometer above sea, 4,366 feet; gravity correction applied, −.02.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	25.64	25.58	65.8	88.3	92	63	48.8	30	57.5	14	SE	3	N	8	.....	.....	1 a. cu., sw	7 ci. s., w	
2	25.65	25.60	70.4	86.8	88	66	50.4	24	55.0	11	NE	1	NW	4	.....	.....	0	1 ci. s., w	
3	25.65	25.56	64.1	89.4	92	63	47.6	30	57.2	12	SE	6	NW	3	.....	.....	0	1 cu., w	
4	25.57	25.53	72.0	74.5	92	63	52.3	27	60.0	45	SE	2	SE	8	.....	0.03	Few s. cu., se.	10 s., sw	[illegible]
5	25.46	25.25	70.0	85.4	88	68	56.5	45	58.6	20	SE	9	S	14	T.	.01	4 a. cu., w	8 cu., sw	[illegible]
6	25.46	25.46	56.6	62.5	68	55	44.1	38	45.5	26	E	2	N	12	T.	.....	10 s., e	8 ci. s., sw	
7	25.53	25.50	48.5	64.0	67	48	41.5	58	46.8	27	SE	3	NW	13	T.	.....	9 s. cu., w	2 s. cu., w	
8	25.65	25.66	48.8	62.1	64	43	38.8	42	45.6	27	NE	3	N	8	.....	.....	0	9 ci. s., w	
9	25.85	25.86	45.0	60.1	63	43	35.5	40	43.6	25	E	4	NW	6	.....	.....	0	8 ci., nw	
10	25.70	25.37	47.5	74.1	77	45	37.0	38	50.6	18	SE	3	NW	9	.....	.....	0	8 ci. s., w	
11	25.44	25.44	45.2	52.0	61	43	43.2	87	41.0	40	NW	9	N	6	0.03	.09	10 n., 0	10 s., w	
12	25.37	25.42	44.0	47.0	63	41	37.0	54	40.5	59	SE	7	N	12	.05	T.	3 s. s., sw	10 n., nw	
13	25.50	25.52	41.5	63.0	55	40	38.0	75	42.2	42	NE	2	NW	8	.13	.....	2 cu., c	8 ci. s., sw	
14	25.58	25.69	39.2	51.5	54	38	38.2	92	40.8	41	SW	2	NW	6	.....	T.	Lt. fog, 0	5 s. cu., n	[illegible]
15	25.78	25.83	41.0	55.8	57	38	35.5	61	39.0	19	NE	4	NW	4	.....	.....	0	Few s. cu., 0	[illegible]
16	25.91	25.84	41.0	63.5	66	37	32.7	43	44.8	21	SE	3	W	4	.....	.....	0	0	
17	25.84	25.72	47.8	69.8	72	44	37.8	40	48.3	19	SE	5	NW	10	.....	.....	0	0	
18	25.70	25.65	47.6	70.8	73	46	37.1	38	48.2	17	SE	5	NW	5	.....	.....	0	Few ci. s., w	
19	25.67	25.62	49.0	75.2	77	48	40.0	47	50.5	16	SE	6	NW	2	.....	.....	0	5 ci. s., w	
20	25.68	25.62	50.8	77.0	80	51	40.3	41	51.0	14	SE	6	NW	10	.....	.....	0	0	
21	25.64	25.58	53.0	78.5	87	52	40.8	35	53.0	17	SE	5	NW	12	.....	.....	0	Few cu., w	
22	25.71	25.73	57.4	77.2	80	54	43.4	32	52.0	17	SE	5	W	8	.....	.....	0	0	
23	25.77	25.66	57.8	74.9	81	51	43.3	31	53.7	25	S	2	W	2	.....	.....	0	2 ci. s., w	
24	25.72	25.61	56.2	77.2	79	54	44.7	42	54.0	22	SE	5	NW	4	.....	.....	0	Few cu., w	
25	25.56	25.43	58.4	74.0	77	54	48.4	50	52.2	28	N	3	N	6	.....	.....	0	7 ci. s., nw	
26	25.70	25.69	46.0	63.0	65	44	39.0	56	46.0	26	E	2	NW	9	.....	.....	0	0	
27	25.71	25.56	48.0	65.5	72	43	36.7	44	49.2	32	N	3	W	1	.....	.....	0	10 s. s., w	
28	25.57	25.50	58.7	65.5	69	56	51.2	82	54.0	50	E	4	S	10	T.	T.	10 s., se	9 s. cu., sw	[illegible]
29	25.52	25.50	58.0	65.4	71	56	50.2	80	54.2	51	S	3	SE	2	.48	.....	10 a. cu., s	2 ci. s., w	
30	25.55	25.54	56.0	57.0	64	54	50.0	68	49.6	61	S	4	S	10	.02	.....	10 s., s	10 s., s	
Mn	25.64	25.58	52.8	68.7	78.1	50.0	42.7	47.7	49.5	27.9	SE	4.0	NW	7.2	.71	.13	{2.3 a. cu., s., e., se., s., sw., w.}	4.7 ci. s., w	

OCTOBER, 1903.

1	25.54	25.50	53.9	56.0	62	51	47.9	67	49.2	64	E	13	SE	2	0.02	T.	8 s. cu., s	10 s. cu., s	
2	25.52	25.58	49.2	42.8	53	42	44.7	72	40.5	87	S	2	SE	3	.05	0.54	10 s., s	10 n., w	△
3	25.69	25.71	46.0	56.0	58	43	42.0	74	45.2	45	E	3	NW	3	.02	T.	10 s. cu., s	1 cu., sw	
4	25.72	25.64	50.0	63.2	67	45	41.0	48	48.6	36	SE	4	S	4	.....	.....	0	8 s. cu., w	
5	25.61	25.54	53.0	51.7	57	47	44.5	53	48.0	78	E	2	SE	2	T.	.10	10 n., s	10 s. cu., w	
6	25.37	25.56	55.0	52.3	60	46	47.5	60	42.8	45	NW	2	N	13	T.	.....	8 cu., s	7 s., w	
7	25.76	25.74	41.0	53.8	58	36	33.2	46	41.0	34	E	3	W	7	.....	.....	0	0	[illegible]
8	25.73	25.64	39.5	61.0	68	40	35.0	66	48.0	40	N	3	0	0	.....	.....	0	7 ci. s., sw	[illegible]
9	25.62	25.46	56.0	73.5	77	55	45.5	46	49.0	14	SE	9	SE	14	.....	.....	0	0	
10	25.52	25.53	61.8	58.5	68	47	45.3	27	47.0	44	SE	8	SW	36	.....	T.	10 s., 0	10 n., w	
11	25.72	25.84	47.4	54.4	57	45	44.4	81	45.1	51	E	2	N	5	.07	.....	10 s. cu., s	1 s. cu., 0	
12	25.92	25.89	41.5	56.2	58	38	37.2	69	46.4	50	SE	2	W	5	.....	.....	Few ci. s., 0 (?)	1 s. cu., 0 (?)	[illegible]
13	25.86	25.72	46.0	60.4	63	42	41.0	68	49.2	47	SE	3	W	4	.....	.....	0	Few s. cu., 0 (?)	[illegible]
14	25.69	25.69	45.8	59.8	64	42	38.0	51	48.5	45	SE	5	N	2	.....	.....	0	Few ci. s., 0 (?)	[illegible]
15	25.80	25.80	45.8	58.0	60	44	37.3	47	43.6	31	0	0	W	4	.....	.....	0	2 s. cu., 0 (?)	[illegible]
16	25.83	25.82	42.8	59.4	63	41	35.3	50	44.8	32	SE	5	NW	8	.....	.....	0	0	[illegible]
17	25.88	25.83	46.5	68.8	70	42	36.0	48	46.3	27	SE	3	W	5	.....	.....	0	0	
18	25.90	25.84	51.1	64.1	72	44	38.8	33	48.4	32	E	2	W	1	.....	.....	0	0	
19	25.84	25.78	49.0	63.4	69	44	38.2	37	49.0	37	SE	4	W	2	.....	.....	0	0	
20	25.78	25.74	49.0	60.4	67	45	38.0	36	47.2	39	SE	6	NW	2	.....	.....	0	0	
21	25.74	25.74	47.8	60.8	68	44	39.0	47	47.0	37	E	1	N	3	.....	.....	0	0	
22	25.86	25.86	47.3	60.5	67	45	38.0	44	47.6	40	E	1	NW	4	.....	.....	0	0	
23	25.93	25.87	49.2	61.6	69	44	39.2	42	47.2	35	SE	2	W	1	.....	.....	0	0	
24	25.89	25.82	48.5	59.6	69	43	38.0	38	45.1	33	E	2	SW	2	.....	.....	0	0	
25	25.83	25.80	47.0	58.3	67	44	36.2	35	46.0	40	SE	4	W	2	.....	.....	0	Few ci. s., w	
25	25.84	25.83	45.7	59.0	67	43	35.0	34	44.0	30	SE	4	NW	2	.....	.....	0	0	
27	25.86	25.78	49.0	59.8	66	41	37.0	31	44.0	28	SE	4	SE	2	.....	.....	0	0	
28	25.74	25.62	47.5	57.9	64	43	36.0	32	43.4	31	SW	3	NW	3	.....	.....	0	5 a. cu., nw	
29	25.61	25.66	49.2	47.2	55	41	39.0	41	36.8	38	NW	1	N	12	.....	.01	2 s., 0 (?)	4 s. cu., n	△
30	25.79	25.79	35.2	45.0	49	32	29.2	50	35.0	37	W	1	NW	3	.....	.....	0	0	[illegible]
31	25.83	25.80	34.1	47.0	52	32	29.1	57	37.0	39	E	5	NW	3	.....	.....	0	0	[illegible]
Mn	25.75	25.72	47.4	57.6	63.4	42.9	39.0	49.4	45.2	40.8	SE	3.5	W	5.1	.16	.65	2.2 s., s. cu., s.	2.5 s. cu., w	

SALT LAKE CITY, UTAH.

[φ=40° 46′ N; λ=111° 54′ W; barometer above sea, 4,366 feet; gravity correction applied, −.02.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	25.84	25.76	36.0	49.2	54	34	29.7	50	37.2	31	SE	2	NW	3			0	0	
2	25.77	25.74	36.1	50.0	55	32	29.0	43	40.0	43	SE	4	NE	1			0	0	
3	25.78	25.80	35.3	51.0	57	33	29.8	55	39.1	34	SE	4	0	0			0	2 ci. s., n	
4	25.80	25.64	41.0	47.0	61	36	32.0	38	39.6	55	SE	1	N	7			0	10 s., sw	
5	25.78	25.73	39.0	51.5	58	38	33.2	57	41.0	42	SE	5	SE	2			0	5 ci. s., nw	
6	25.71	25.56	40.0	53.3	67	38	33.8	55	43.0	44	SE	7	W	1			0	0	
7	25.52	25.37	51.0	65.0	70	47	38.5	32	45.5	20	SE	5	SE	8			0	8 s., sw	
8	25.54	25.84	38.0	38.0	63	31	37.0	92	31.0	47	W	10	SE	2	0.19	0.25	10 n., n	4 s. cu., nw	*
9	25.84	25.41	28.2	48.2	50	26	24.7	64	34.5	22	E	3	SE	3			0	10 s., w	
10	25.58	25.62	27.0	26.8	46	23	26.5	95	23.2	61	SW	2	SE	2	.43	.01	10 n., n	3 s., n	*
11	25.44	25.22	33.0	51.0	56	28	27.0	47	42.0	49	SE	6	S	9		T.	10 s., 0 (?)	10 s., w	*
12	25.38	25.23	32.8	39.2	54	31	32.0	92	37.0	83	SE	2	SW	6	.14	.26	10 n., 0 (?)	10 s., w	*
13	25.49	25.49	39.0	41.6	50	36	37.2	87	40.8	94	E	10	NW	5	.71	.11	10 n., e	10 s. cu., w	▲
14	25.47	25.36	37.4	61.2	64	29	46.9	47	45.0	27	SE	13	SE	13			10 s., s	10 s., sw	
15	25.56	25.70	38.5	34.5	58	30	35.0	73	29.0	54	NW	8	N	3	.01	.05	10 s., nw	9 s., w	*
16	25.71	25.83	31.8	26.5	34	25	26.3	50	26.0	95	SW	2	SW	2		.03	0	10 n., 0 (?)	*
17	25.93	25.87	20.0	30.6	36	17	16.4	53	24.4	41	E	4	N	3	.01		0	0	
18	25.81	25.64	22.5	32.0	34	21	19.5	68	29.2	74	N	6	W	3			0	10 s., w	
19	25.61	25.62	27.0	37.2	43	25	24.2	70	32.2	61	E	2	NW	3			0	0	
20	25.73	25.80	36.0	45.0	57	34	33.0	76	41.0	73	SE	6	S	1			10 s., 0 (?)	2 s., 0 (?)	
21	25.79	25.82	42.7	46.0	58	38	36.2	56	42.0	74	NW	4	NW	3			0	10 s., nw	
22	25.74	25.68	49.0	48.2	58	44	40.4	49	44.0	74	W	2	0	0			0	7 ci. s., 0 (?)	
23	25.65	25.62	39.7	47.2	56	36	36.7	78	43.0	73	SE	4	SE	4		T.	0	10 s., w	
24	25.70	25.80	37.3	46.0	52	36	35.8	88	43.0	81	E	2	NW	1	.01		Lt. fog, 0	0	
25	25.89	25.89	38.5	44.5	50	35	36.0	81	41.2	78	SE	4	W	2			0	Few ci. s., nw	
26	25.93	25.91	35.4	42.6	52	33	33.9	87	39.6	79	SE	4	NW	5			0	2 ci. s., nw	
27	25.94	25.88	35.2	39.2	49	32	31.7	71	37.2	85	SE	2	0	0			0	0	
28	25.90	25.82	29.9	31.2	35	27	29.4	95	30.2	90	N	1	S	2			10 s., 0	10 s., 0	
29	25.82	25.85	29.0	34.0	35	28	26.5	75	32.0	83	SE	1	0	0			10 s., 0	8 s., nw	
30	25.90	25.89	30.5	37.1	42	25	29.5	90	35.5	87	SE	3	W	3			Lt. fog, 0	3 ci. cu., n	
Mn	25.72	25.68	35.9	43.2	51.8	32.3	31.6	67.0	36.9	61.8	SE	4.3	SE	3.2	1.50	.71	3.3 s., n	5.4 s., w	

DECEMBER, 1903.

1	25.89	25.73	28.4	34.2	35	28	28.4	100	33.6	94	SE	3	SW	3			D. fog, 0	10 s., 0	
2	25.75	25.76	32.0	35.0	41	31	32.0	100	30.2	60	N	2	NW	3			10 s., 0	0	≡a.
3	25.87	25.90	23.8	32.2	35	22	22.3	82	27.0	53	SE	2	NW	2			0	1 cu., nw	
4	25.98	25.96	26.0	31.0	34	22	22.2	58	26.5	57	NW	4	N	3			0	0	
5	26.02	26.01	22.8	32.6	38	19	19.8	64	27.6	55	SE	4	N	5			0	0	
6	26.03	25.91	24.5	31.0	38	19	22.5	76	28.0	71	SE	2	NW	2			0	0	
7	25.87	25.88	22.5	31.5	34	20	20.0	70	27.2	66	SE	3	N	4			1 ci. s., nw	0	
8	25.94	25.93	24.5	33.3	39	21	23.0	82	30.0	71	SE	8	NE	1			0	0	
9	25.91	25.85	25.0	33.0	38	22	22.0	66	29.0	64	SE	5	NW	2			0	0	
10	25.81	25.64	25.2	33.2	42	21	22.2	66	29.0	63	SE	3	NW	1			0	Lt. haze	
11	25.33	25.43	25.0	33.2	35	24	22.1	67	32.0	89	NW	10	SE	4		0.16	10 s., nw	10 n., 0	*
12	25.55	25.60	34.4	40.0	42	32	29.9	61	33.0	50	SE	2	0	0	0.01		10 s., 0	10 s., 0	*
13	25.66	25.80	40.0	34.7	42	33	32.5	47	34.0	94	NW	3	N	10		.02	10 s., 0 (?)	10 s., 0	*
14	25.97	25.96	26.0	34.2	40	21	24.5	83	31.2	74	SE	5	SW	1	T.		0	2 ci. s., w	*
15	25.91	25.81	26.0	32.5	38	23	24.5	83	29.8	76	SE	3	NW	2			0	0	
16	25.73	25.61	22.3	25.5	29	19	22.3	100	25.0	94	NW	1	NW	4			D. fog, 0	10 s., 0	
17	25.55	25.40	27.5	33.2	45	22	26.2	86	30.7	78	SW	4	E	5			10 s., 0 (?)	10 s., w	
18	25.50	25.60	31.9	30.5	37	27	31.2	93	27.0	66	NE	4	N	4	.22	T.	10 n., 0 (?)	1 s., n	*
19	25.82	25.87	24.0	34.0	38	23	23.0	88	28.0	49	SE	4	SE	3		T.	0	4 s., w	*
20	25.70	25.72	36.0	37.2	40	30	30.0	52	34.0	75	SE	4	SE	5		.02	7 s., se	10 s., w	*
21	25.73	25.75	34.3	35.3	42	31	31.8	79	33.3	83	E	2	NW	1			10 s., 0	10 s., w	
22	25.78	25.68	29.2	33.7	38	27	27.2	80	31.5	81	E	2	NE	4			10 s., 0	9 s., w	
23	25.67	25.84	27.0	28.7	33	22	27.0	100	26.0	73	NW	10	NE	6	.08	T.	10 n., 0 (?)	Few s., ne	*
24	25.98	25.99	23.5	29.0	31	16	21.0	70	26.0	70	E	1	NW	3		T.	10 s., 0 (?)	10 s., n	*
25	26.06	26.12	20.2	30.2	35	18	19.2	87	26.8	67	SE	3	W	1			0	1 ci. s., 0	
26	26.13	26.04	21.0	28.0	34	16	18.8	72	26.0	79	SE	3	SE	1			0	0	
27	26.00	25.93	24.0	26.8	33	14	22.0	76	24.2	72	SE	2	SW	1			0	Few ci. cu., nw	
28	25.91	26.94	20.6	27.5	34	18	19.1	80	25.0	74	SW	2	NW	2			0	0	
29	25.98	25.95	19.4	26.7	33	16	18.2	83	25.2	84	E	3	NW	2			0	0	
30	25.96	25.80	18.5	26.5	34	16	17.3	83	24.3	76	SE	5	NW	2			0	0	
31	25.65	25.42	19.4	26.8	38	15	18.2	83	25.2	83	E	6	S	4			0	2 s., sw	
Mn	25.83	25.80	26.0	31.7	36.9	22.2	23.9	78.0	28.6	72.3	SE	3.7	NW	2.9	.31	.20	3.5 s., nw	3.5 s., w	

DENVER, COLO.

[φ=39° 45′ N; λ=105° 00′ W; barometer above sea, 5,291 feet; gravity correction applied, −.01.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	24.58	24.62	13.2	31.6	39	13	11.0	62	27.5	62	S	8	E	6	.....	.....	0	0	
2	24.78	24.70	21.2	31.0	39	16	18.7	68	28.0	71	S	6	SE	3	.....	.....	10 a. s., w	10 ci. s. (?)	
3	24.67	24.56	30.2	48.3	52	23	26.0	59	37.3	35	S	12	NW	24	.....	.....	2 s., s	6 s. cu., nw	
4	24.70	24.85	37.1	38.0	50	33	31.6	57	32.0	55	NW	6	SE	3	.....	.....	10 s., nw	1 s. cu., n	
5	24.85	24.86	41.8	49.6	54	37	32.6	38	37.6	32	N	8	W	18	.....	.....	0	6 a. s., n. w	
6	24.76	24.75	51.5	53.8	66	35	36.0	18	37.8	19	NW	6	NW	24	.....	.....	0	2 s., nw	
7	24.90	24.96	25.0	32.1	39	23	24.5	94	25.6	41	SE	6	SE	8	.....	.....	0	7 a. s., nw	⊖
8	24.70	24.65	21.8	43.2	56	22	20.2	80	34.2	41	S	4	E	4	.....	.....	0	8 s., w	
9	24.68	24.59	27.2	38.7	41	26	24.2	68	27.7	48	S	5	N	8	.....	.....	0	10 a. s., nw	⊖
10	24.41	24.59	25.2	19.0	30	12	28.0	75	17.6	80	S	6	E	12	.....	0.07	10 s., s	10 n., e	*
11	24.60	24.65	10.2	22.2	28	10	9.8	92	19.2	62	SW	8	S	3	0.03	T.	10 n., sw	5 s. cu., n	*
12	24.88	24.82	10.0	25.0	38	9	9.0	81	22.0	66	SE	2	SW	3	.....	.....	0	7 s. cu., nw	
13	24.90	24.94	20.2	30.8	40	19	17.2	60	25.8	53	SW	6	S	6	.....	.....	0	2 s. cu., n	
14	24.95	24.90	20.2	34.4	45	19	18.2	73	26.4	33	S	10	SE	5	.....	.....	0	0	
15	24.77	24.61	24.0	38.0	46	23	20.0	53	30.5	44	S	8	N	2	.....	.....	0	4 ci. s., nw	
16	24.61	24.73	23.2	42.2	49	22	19.7	58	33.2	39	S	12	S	4	.....	.....	0	0	
17	24.79	24.67	22.0	35.6	48	21	19.8	72	31.6	68	S	8	N	4	.....	.....	0	0	
18	24.72	24.79	20.2	33.0	39	19	18.7	80	26.5	43	SW	6	SE	6	.....	.....	0	0	
19	24.54	24.55	24.0	37.0	44	21	19.5	48	32.0	61	S	12	NW	18	.....	.....	2 a. s., w	8 s. cu., nw	
20	24.73	24.73	24.0	31.6	36	21	22.0	76	24.6	36	SW	3	W	16	T.	.....	2 s., sw	3 ci. s., nw	*
21	24.58	24.49	37.5	46.0	51	22	28.5	32	35.0	33	S	8	NW	22	.....	.....	9 s., s	9 s., nw	
22	24.52	24.46	23.8	34.0	39	23	22.3	82	31.5	79	S	7	N	5	.....	T.	0	10 s. cu., n	*
23	24.71	24.61	24.0	47.0	50	21	22.0	76	35.0	29	SW	10	NW	8	.....	.....	0	5 a. s., nw	
24	24.57	24.51	45.2	50.4	60	34	33.2	26	38.4	33	NW	8	S	8	.....	.....	8 s., nw	9 s. cu., nw	
25	24.36	24.25	42.0	49.2	62	39	33.9	45	38.2	36	S	8	SE	4	.....	.....	10 s., s	10 s. cu., se	
26	24.50	24.45	35.5	30.0	40	28	32.0	72	28.5	85	E	12	N	4	.....	.....	0	10 s., n	
27	24.32	24.42	53.5	41.4	56	27	38.0	21	35.4	58	NW	14	N	6	.....	.....	3 s., nw	10 s., n	
28	24.32	24.19	44.8	49.2	60	31	34.0	32	38.2	36	SW	14	SW	10	.....	.....	0	10 s. cu., sw	*
29	24.62	24.80	23.0	26.8	31	18	21.5	82	24.8	78	NW	30	NW	5	.02	.....	0	0	*
30	24.71	24.45	18.8	42.8	56	15	16.0	62	32.8	34	SW	10	W	5	.....	.....	0	3 s., w	
31	24.34	24.27	36.2	44.8	54	35	26.2	22	32.8	26	SW	10	SW	20	.....	.....	0	2 cu., sw	
Mn	24.64	24.62	28.3	37.8	46.4	23.1	23.5	60.1	30.6	48.9	S	8.8	n / nw / sc	8.8	.05	.07	2.5 s., s	5.4 s. cu., nw	

FEBRUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	24.30	24.53	25.8	27.2	36	25	23.3	72	24.7	73	N	16	E	8	.....	T.	0	4 s., e	*
2	24.53	24.36	22.8	26.0	33	22	21.0	78	25.0	89	S	15	NW	16	T.	0.01	10 n., s	10 n., nw	*
3	24.33	24.48	13.3	12.2	23	0	12.9	93	11.2	82	NE	6	SW	4	0.10	T.	10 n., ne	4 s., sw	*
4	24.57	24.67	8.0	13.0	33	0	6.6	71	11.6	76	S	12	N	4	.....	.....	0	0	
5	24.80	24.63	2.0	16.8	24	1	1.6	90	14.8	71	S	8	SE	6	.....	.....	0	0	
6	24.64	24.63	4.8	10.8	18	1	4.0	81	9.8	81	N	2	NE	4	T.	T.	10 n., n	4 a. s., w	*
7	24.56	24.54	− 0.6	26.8	36	− 1	− 0.8	94	23.8	68	S	7	N	1	.....	.....	0	0	
8	24.49	24.50	19.6	29.8	46	18	17.0	65	26.8	70	S	10	NE	4	.....	.....	0	0	
9	24.61	24.54	21.0	39.0	44	18	19.0	74	32.0	49	S	9	S	6	.....	.....	0	0	
10	24.57	24.52	39.8	49.2	53	26	29.3	26	37.2	31	W	10	NW	12	.....	.....	0	6 s. cu., nw	
11	24.39	24.56	44.0	20.0	50	14	33.5	33	19.0	87	W	26	NE	12	.....	.04	2 s., w	10 n., ne	*
12	24.60	24.63	10.0	8.2	14	6	9.8	96	7.2	79	NE	7	NE	8	.10	.06	10 n., ne	10 n., ne	*
13	24.67	24.65	− 4.8	3.0	6	− 5	− 5.0	93	2.0	75	NW	2	N	5	.03	.....	0	2 s., n	*
14	24.63	24.70	− 9.0	10.0	18	−10	− 9.2	92	9.0	81	S	1	NE	6	.....	.....	0	6 ci. s., w	
15	24.75	24.71	− 8.8	6.0	10	−10	− 9.0	92	5.2	82	SW	4	W	3	T.	.....	0	3 ci., w	*
16	24.59	24.55	7.4	23.4	25	− 7	5.4	58	18.4	41	SW	12	NW	16	.....	.....	8 s. cu., sw	4 a. s., n	
17	24.56	24.51	14.7	40.6	44	11	12.2	60	33.6	51	SW	8	NW	8	.....	.....	3 ci. s., w	6 s. cu., nw	
18	24.80	24.80	20.8	25.0	39	20	20.0	89	21.0	55	SW	5	NE	5	.....	T.	1 s. cu., sw	3 ci. s., w	
19	24.84	24.86	18.0	35.0	51	14	16.8	83	29.0	50	S	8	NE	6	.....	.....	2 s., s	0	
20	24.91	25.04	30.0	39.0	47	28	25.5	56	31.0	42	S	10	E	4	.....	.....	10 s., s	3 ci. s., w	
21	24.99	24.94	25.4	40.8	51	25	23.0	72	35.8	64	NW	2	NE	4	.....	.....	0	0	
22	24.93	24.84	35.5	49.0	55	30	27.5	85	40.0	47	SW	12	SE	3	.....	.....	0	3 a. s., nw	
23	24.99	24.86	30.8	28.8	35	27	28.0	73	26.8	80	N	6	NW	8	.....	T.	2 s., n	10 s. cu., nw	*
24	24.81	24.82	25.6	24.6	28	23	25.0	94	23.1	83	N	8	NE	10	T.	.02	10 n., n	10 n., ne	*
25	24.78	24.76	17.0	25.0	26	16	16.6	94	22.0	88	S	2	NE	10	.01	.02	10 s., s	10 n., ne	*
26	24.76	24.56	18.0	25.8	27	15	17.5	92	23.3	72	NE	2	N	6	.03	.....	10 s. cu., ne	3 ci. s., w	*
27	24.35	24.56	25.0	29.2	38	16	22.5	71	26.2	70	SW	4	NE	26	.....	.....	10 s., sw	6 ci. s., n	
28	24.84	24.90	15.5	18.8	24	12	14.0	76	15.8	59	NE	10	S	9	.....	.....	2 s., ne	0	
Mn	24.66	24.67	16.8	25.0	33.4	12.0	14.6	75.1	21.6	67.7	S	8.0	NE	7.6	.27	.15	3.9 s., ne., s	4.2 n., ci. s., w	

DENVER, COLO.

[$\varphi = 39° 45'$ N; $\lambda = 105° 00'$ W; barometer above sea, 5,291 feet; gravity correction applied, −.01.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	24.80	24.67	14.0	39.0	47	13	11.0	51	30.0	34	S	15	NE	6			0	0	
2	24.59	24.63	27.5	34.6	53	26	24.0	64	29.6	56	S	10	N	12			Few s., s	4 s. s., nw	
3	24.68	24.69	28.0	32.2	40	26	25.5	74	29.2	72	N	2	N	8			10 s., n	8 a. s., sw	
4	24.65	24.72	23.0	26.2	26	22	22.5	94	24.2	78	NE	6	NE	6	T.	T.	10 n., ne	10 s., ne	
5	24.65	24.47	23.1	29.0	31	22	23.0	99	28.5	95	NE	3	SE	4	0.01	T.	10 s., ne	10 s., se	
6	24.45	24.55	22.4	38.8	48	21	21.9	94	31.8	49	NW	6	SW	7	T.		1 s., nw	10 s. cu., sw	
7	24.74	24.73	29.2	42.0	48	28	23.0	40	32.0	33	SW	8	S	8			0	0	
8	24.64	24.45	26.0	40.6	50	26	24.4	64	30.6	30	S	6	N	3			9 s. cu., s	5 s., sw	
9	24.54	24.76	33.3	41.0	50	31	28.8	60	34.0	51	SW	6	NE	9			0	6 s., w	
10	24.94	24.94	29.0	48.2	61	28	27.0	80	42.2	63	S	3	N	6			0	2 a. s., ne	
11	24.92	24.82	33.8	58.4	70	33	29.8	65	46.4	41	N	2	NE	6			0	3 s., nw	
12	24.79	24.70	38.2	61.8	72	36	31.1	47	47.8	37	S	6	N	10			4 s., s	4 a. s., sw	
13	24.70	24.74	34.7	37.0	55	33	29.7	58	35.0	84	SW	8	N	8			2 s., sw	10 s. cu., n	
14	24.69	24.61	31.5	35.2	39	31	30.0	86	33.2	83	N	3	NE	8			10 s., n	10 s., ne	
15	24.61	24.55	30.0	50.0	61	30	29.5	95	45.0	59	SW	4	N	7			10 s., sw	5 s., w	
16	24.64	24.48	31.9	52.0	64	30	29.0	72	43.0	50	S	6	N	8			2 s., s	6 s., sw	
17	24.48	24.44	34.8	42.0	44	32	34.8	100	38.0	72	N	6	NE	4			D. fog, 0	10 s., ne	
18	24.34	24.65	34.5	22.3	42	20	34.0	96	21.8	94	NE	5	NE	8	.09	0.60	10 n., ne	10 n., ne	
19	24.82	24.90	11.1	19.0	22	10	10.0	97	18.0	86	SE	5	E	2	T.	T.	10 s., se	4 s. cu., e	
20	24.75	24.65	12.0	37.2	40	10	10.5	74	28.2	31	S	8	W	15			0	0	
21	24.58	24.51	39.4	38.0	46	30	27.2	14	33.0	62	W	14	E	12			2 s., w	6 s. cu., w	
22	24.64	24.72	17.2	25.0	30	16	17.0	97	24.0	88	NE	7	N	5	.12	.04	10 n., ne	10 s., n	
23	24.78	24.75	11.6	31.0	36	10	11.2	93	26.0	53	SW	4	SW	4	.01		2 s., sw	0	
24	24.70	24.67	18.3	42.8	45	17	17.1	83	35.8	53	SW	6	N	6			0	0	
25	24.66	24.57	29.6	46.0	48	29	28.6	90	38.0	50	S	4	N	6			6 s., sw	8 s., s	
26	24.68	24.78	30.4	36.0	43	30	30.4	100	33.5	80	NW	4	NE	8		T.	D. fog, 0	10 s., ne	
27	24.84	24.86	28.0	54.8	60	28	28.0	100	42.8	38	SW	8	E	6			D. fog, 0	4 a. s., nw	
28	24.89	24.74	35.0	62.0	66	34	32.0	75	52.0	53	S	12	S	10			0	6 a. s., nw	
29	24.69	24.64	42.5	58.0	65	42	38.0	68	47.0	46	S	8	N	4			10 s. cu., w	10 s. cu., n	
30	24.64	24.59	42.4	55.9	57	40	38.9	75	46.9	53	S	6	S	12		T.	10 s., s	1 s. cu., s	
31	24.59	24.55	41.9	62.5	70	38	36.0	59	45.0	24	SW	10	W	18			1 s., sw	2 s. cu., w	
Mn	24.68	24.66	28.6	41.9	49.3	26.5	25.9	76.3	35.2	56.1	S	6.3	N	7.6	.23	.64	4.2 s., s., sw	5.6 s., ne	

APRIL, 1903.

1	24.46	24.33	52.4	56.0	68	49	40.4	85	46.0	49	S	10	SW	10		T.	8 s. cu., w	10 s. cu., w	
2	24.45	24.57	38.0	35.0	49	32	36.5	88	33.0	83	E	12	NW	10	0.01	0.26	10 n., e	8 s., n	
3	24.81	24.75	24.0	47.2	48	23	23.0	88	39.7	54	S	8	SW	4	.02		3 s. cu., nw	0	
4	24.60	24.36	30.8	58.8	61	29	25.8	53	42.8	26	S	4	NE	3			7 ci. s., w	3 ci. s., sw	
5	24.32	24.42	40.0	46.6	62	36	33.0	50	39.6	57	SW	8	NE	18			8 s. cu., sw	8 cu., ne	
6	24.59	24.50	33.2	50.5	54	30	26.2	39	35.0	16	W	14	NW	8	T.		2 ci., w	7 a. s., w	
7	24.60	24.62	42.0	57.9	60	38	32.0	33	40.0	17	NW	12	NW	8			3 cu., nw	5 s. cu., nw	
8	24.65	24.67	50.4	68.6	71	48	36.9	26	47.0	18	W	24	NE	8			2 ci. s., w	0	
9	24.69	24.47	41.0	59.0	65	41	35.0	58	47.0	42	SW	3	SW	10		T.	6 a. s., sw	8 a. s., w	
10	24.44	24.31	53.0	67.4	71	49	41.0	36	47.0	19	SW	2	NE	6			8 s., sw	4 a. s., w	
11	24.48	24.51	42.9	52.1	61	40	36.9	59	41.0	40	E	13	N	24			2 s. cu., s	6 cu., s	
12	24.65	24.82	29.2	33.0	40	28	28.7	95	30.5	78	N	24	NW	10	.04	.19	10 n., n	5 s., nw	
13	24.93	24.80	18.0	40.0	44	18	17.0	86	32.0	43	S	8	S	6			0	0	
14	24.73	24.61	26.6	52.1	55	27	24.1	73	42.0	45	S	3	NW	10			0	0	
15	24.68	24.60	36.0	51.0	56	36	33.0	76	44.0	60	NW	1	NW	12		T.	8 s., s	10 s., se	
16	24.66	24.65	40.8	58.0	62	36	35.8	64	45.5	39	E	7	NE	12		T.	10 s. cu., sw	3 s. cu., ne	
17	24.60	24.28	35.2	58.2	68	35	32.7	79	43.7	31	S	3	W	18			0	8 s. cu., w	
18	24.26	24.36	46.0	50.6	52	41	34.0	27	42.1	52	W	12	NW	12			8 s. cu., w	9 s. cu., nw	
19	24.67	24.78	42.0	49.2	58	41	36.0	59	44.1	69	N	3	NE	10		T.	1 s. cu., n	10 s. cu., ne	
20	24.90	24.84	33.6	61.3	65	34	31.6	83	45.3	28	S	3	NE	14			0	10 s., ne	
21	24.87	24.88	44.0	58.0	64	44	38.0	30	46.1	41	W	3	N	18			6 s., w	8 a. s., w	
22	24.86	24.70	38.8	67.8	71	39	35.8	77	47.3	20	S	4	SE	5			0	8 a. cu., w	
23	24.09	24.62	45.1	72.8	75	44	38.1	56	48.8	15	S	11	NW	10			1 s. cu., s	5 ci. cu., w	
24	24.87	24.84	44.8	62.0	64	45	37.3	52	46.0	29	N	8	E	9			5 a. s., w	2 cu., e	
25	24.92	24.71	37.0	67.0	68	37	33.0	69	49.5	29	N	6	S	14			0	1 cu., w	
26	24.59	24.39	42.5	65.1	75	42	38.6	68	48.0	29	S	5	NW	5		T.	7 a. s., w	9 a. s., sw	
27	24.40	24.33	52.0	69.0	73	49	39.0	30	50.0	26	S	10	N	8			2 s., s	4 s., n	
28	24.65	24.64	38.0	38.2	49	30	37.0	92	37.2	92	NE	12	NE	10	.02	.06	10 n., ne	10 n., ne	
29	24.82	24.99	22.8	27.8	30	23	21.8	88	27.3	95	N	12	NE	3	.12	.08	10 n., n	10 n., ne	
30	25.01	24.76	22.0	59.0	62	21	20.0	75	45.5	36	SW	8	NE	4	.01		0	2 ci., w	
Mn	24.66	24.60	38.1	54.6	60.0	36.2	32.6	62.4	42.4	42.6	S	8.5	NE	10.0	.22	.59	4.4 s. cu., w	5.8 s. cu., w	

DENVER, COLO.

[φ=39° 45′ N; λ=105° 00′ W; barometer above sea, 5,291 feet; gravity correction applied, —.01.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	24.69	24.64	44.0	55.5	69	32	36.0	48	46.0	50	S	12	NE	24	.....	.....	6 a. s., w	9 s. cu., w	—
2	24.91	24.87	32.0	48.2	50	32	31.0	90	38.7	43	NE	6	SE	8	0.14	.....	7 s., ne	8 s. cu., n	✳
3	24.82	24.73	37.0	60.3	64	37	33.0	69	44.3	27	SW	3	SE	5	.....	.....	2 a. s., w	10 s., n	☽
4	24.70	24.60	39.9	66.2	69	39	34.9	64	46.2	20	S	2	NE	10	.....	.....	0	6 ci. s., w	—
5	24.66	24.67	41.7	55.1	70	39	36.7	65	44.0	43	S	3	NE	24	T.	.....	4 a. s., s	4 a. s., n	
6	24.85	24.82	42.8	52.0	55	42	39.3	75	47.0	71	N	6	NE	10	.02	T.	10 s. cu., n	10 s. cu., ne	
7	24.75	24.60	37.0	64.5	73	35	35.0	84	48.0	30	E	2	NE	14	.....	T.	Lt. fog, 0	10 s., ne	—
8	24.64	24.55	51.0	70.6	74	49	42.0	49	49.6	22	N	3	NW	6	.....	.....	8 a. s., w	7 a. s., nw	
9	24.64	24.47	48.0	70.0	73	48	42.0	63	50.0	24	S	4	SW	8	.....	.....	0	3 cu., sw	
10	24.64	24.62	45.0	53.4	57	44	43.5	90	46.0	54	NE	12	NE	12	.06	0.08	10 s. cu., ne	8 cu., n	
11	24.67	24.84	40.0	47.1	57	38	38.5	89	43.0	74	S	6	NW	5	T.	.08	3 s. cu., s	10 n., nw	▲
12	24.92	24.91	38.8	64.2	65	39	36.8	85	45.7	22	S	4	NE	9	.02	.....	0	0	—
13	24.93	24.79	39.8	74.0	76	38	34.8	64	49.5	15	S	6	E	8	.....	.....	0	0	—
14	24.71	24.54	43.5	78.0	84	42	37.8	60	52.0	15	S	4	S	16	.....	.....	0	3 ci. cu., w	
15	24.64	24.55	58.2	68.1	74	52	46.2	71	53.6	40	NW	4	W	8	.....	.....	2 ci., w	10 s. cu., s	
16	24.41	24.21	52.6	74.0	74	51	46.6	66	54.5	29	SW	7	NE	8	T.	T.	4 a. s., se	3 cu., w	⌐◪
17	24.26	24.23	48.0	69.1	77	48	44.0	75	49.0	23	SW	3	W	6	T.	T.	0	9 s., sw	
18	24.42	24.45	43.4	55.3	58	41	37.9	62	38.8	19	E	3	NW	9	.01	.....	1 s. cu., e	9 a. s., w	
19	24.52	24.46	42.8	66.5	69	41	38.8	41	44.0	12	SW	12	SW	16	.....	.....	0	5 ci. cu., w	
20	24.59	24.38	41.4	72.4	76	39	34.4	51	50.0	19	S	7	N	8	.....	.....	2 ci. s., w	8 s. cu., sw	
21	24.35	24.24	44.0	59.8	73	42	37.0	54	48.3	25	SW	4	W	16	.....	T.	0	4 a. s., s	
22	24.41	24.48	48.8	57.6	62	44	37.8	36	40.6	20	SW	18	W	20	.....	T.	0	4 a. s., w	
23	24.68	24.52	40.0	65.2	68	39	32.0	43	42.7	11	S	6	NE	11	T.	.....	0	10 s. cu., sw	
24	24.61	24.61	47.0	58.0	60	44	40.0	57	48.0	30	N	8	N	12	.....	.....	8 s., n	10 s. cu., n	
25	24.71	24.56	47.2	59.9	64	46	45.2	87	50.9	56	E	4	NW	14	.01	T.	10 s. cu., s	8 s. cu., w	⌐◪
26	24.56	24.58	48.0	65.0	66	47	45.0	81	49.5	34	NW	7	NE	4	T.	T.	8 s., s	4 cu., nw	⌐◪
27	24.67	24.56	45.8	67.2	72	43	38.8	56	48.7	25	S	9	SW	5	.....	.....	0	10 s., sw	
28	24.62	24.74	51.0	55.2	64	50	44.0	60	49.2	67	S	5	NE	10	T.	.01	9 s. cu., s	10 s., ne	
29	24.87	24.95	45.0	60.8	66	45	42.0	80	50.3	50	N	4	NW	9	.01	.03	0	3 cu., nw	—
30	25.09	25.01	45.0	67.2	68	42	42.5	83	51.2	34	NE	2	NE	12	.....	.....	2 s. cu., ne	3 a. cu., n	
31	24.97	24.93	40.9	46.0	69	39	36.9	71	44.0	87	S	5	SW	8	.....	.28	0	10 s., sw	
Mn	24.67	24.62	44.0	62.1	67.6	42.2	88.9	66.7	47.0	35.8	S	5.8	NE	10.8	.27	.48	3.1 s. cu., w., s.	6.5 s. cu., w	

JUNE, 1903.

1	24.88	24.84	42.0	58.0	59	42	39.5	82	45.5	39	N	7	N	7	0.11	.....	5 s. cu., n	5 s. cu., sw	
2	24.89	24.84	45.0	61.0	62	44	41.0	73	49.5	46	E	2	N	5	.....	.....	10 s., e	3 ci. s., w	
3	24.85	24.78	47.4	68.1	68	46	44.9	84	44.6	12	N	5	NW	4	.....	.....	10 s., n	6 ci. cu., w	
4	24.84	24.84	52.0	58.2	71	52	48.0	77	53.7	76	N	3	SW	5	.....	0.18	10 s., n	10 s., w	⌐◪
5	24.95	24.96	54.0	57.0	69	54	52.0	88	54.0	84	N	3	NW	10	.06	.32	10 s. cu., n	10 s., nw	⌐◪
6	25.02	24.98	52.0	56.5	71	51	49.5	85	53.5	84	NW	5	N	6	.....	.01	5 s. cu., se	10 s., n	
7	24.98	24.94	50.2	55.6	70	50	47.7	85	52.6	83	N	3	W	12	T.	.04	4 ci. s., n	10 s., w	⌐◪
8	24.89	24.93	48.4	56.5	70	47	46.4	87	52.5	78	S	3	N	15	.01	.....	6 a. s., sw	10 s. cu., n	
9	24.94	24.97	52.0	47.6	54	44	50.5	91	46.0	90	NE	7	NE	9	.32	.12	10 s., ne	10 n., ne	
10	25.02	24.99	44.9	55.0	55	44	42.9	87	49.0	67	E	5	E	6	.21	.01	10 n., e	10 s. cu., e	
11	24.95	24.82	41.4	67.8	70	41	39.9	89	53.8	42	S	6	S	8	.....	.....	0	1 cu., s	—
12	24.80	24.67	49.4	65.8	73	49	48.4	94	57.3	62	N	10	W	5	.....	T.	10 s., n	10 n., sw	⌐◪
13	24.65	24.62	56.0	68.2	69	56	53.0	83	53.7	40	NW	2	N	4	.....	.02	8 a. s., se	9 a. cu., w	⌐◪
14	24.68	24.62	58.0	69.0	69	53	51.5	91	61.0	65	NE	6	NE	6	T.	.04	10 n., ne	8 cu., ne	
15	24.74	24.76	52.2	68.5	71	52	50.7	91	57.0	52	NE	2	N	8	.....	T.	4 a. s., n	5 cu., n	⌐◪
16	24.90	24.85	52.4	67.8	78	52	50.9	91	57.3	55	NE	2	S	5	.11	.02	10 s., ne	9 cu., s	⌐◪
17	24.82	24.74	52.8	81.8	87	51	49.3	80	57.8	24	S	4	SE	4	T.	.....	0	8 a. s., w	⌐◪
18	24.76	24.75	59.7	77.2	86	58	51.7	61	56.2	27	S	10	NW	11	.....	T.	0	6 s. cu., nw	
19	24.76	24.68	57.0	80.2	82	55	48.0	54	56.2	22	S	6	N	7	.....	.....	0	7 a. s., sw	
20	24.75	24.62	58.6	70.0	71	54	52.1	67	56.0	43	N	8	W	11	.....	T.	0	6 a. s. nw	
21	24.67	24.78	53.2	62.4	72	53	49.2	77	51.4	49	SW	5	NE	15	T.	T.	3 ci., w	10 s., ne	
22	24.73	24.62	52.2	69.5	73	51	48.7	80	59.5	58	E	2	N	14	.....	T.	4 ci. s., nw	7 a. s., sw	
23	24.65	24.59	51.2	76.0	80	51	49.2	88	67.5	33	S	5	SE	6	.....	.04	7 s. cu., w	8 s. cu., nw	▲⌐◪
24	24.75	24.80	53.0	60.4	68	52	48.5	74	50.4	52	NE	14	NE	10	T.	.....	3 s. cu., ne	6 s. cu., nw	
25	24.79	24.76	49.2	73.0	74	49	46.2	81	55.0	33	S	4	NE	5	T.	.....	3 s. cu., n	5 a. s., n	
26	24.80	24.72	50.3	81.5	85	48	46.3	76	58.5	26	S	3	W	6	.....	.....	1 a. s., n	8 a. s., w	
27	24.76	24.72	61.8	83.5	89	60	51.8	53	60.5	28	NE	4	NE	5	.....	.....	8 s. cu., nw	6 a. s., n	
28	24.74	24.60	58.4	90.0	95	58	52.4	69	70.0	39	S	4	N	5	.....	.....	3 ci. s., w	0	
29	24.59	24.48	64.0	83.5	85	64	54.0	54	66.0	42	NE	5	NW	8	T.	.....	5 ci. s., sw	1 s. cu., 0 (?)	
30	24.56	24.57	61.2	81.5	92	61	48.7	42	60.5	31	SW	5	SE	18	.....	.....	7 a. s., sw	0	
Mn	24.80	24.76	52.5	68.4	78.6	51.4	48.4	77.8	55.2	49.4	S	5.0	N	8.0	.82	.80	5.5 s. cu., n	6.8 a. s., s. cu., w	

DENVER, COLO.

[φ=39° 45′ N; λ=105° 00′ W; barometer above sea, 5,291 feet; gravity correction applied, −.01.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	24.69	24.43	59.0	89.0	94	57	53.0	69	60.0	18	SW	8	S	18	....	T.	0	5 s. cu., w	
2	24.41	24.54	68.8	70.0	80	65	50.8	29	54.0	37	SW	8	SE	14	....	T.	2 a. s., sw	10 n., sw	
3	24.70	24.83	49.0	54.0	65	47	46.0	81	46.0	57	SW	2	N	4	0.34	0.13	10 s. cu., sw	7 s. cu., w	
4	24.92	24.81	43.2	70.4	74	42	40.2	79	51.4	27	S	8	E	12	....	....	2 s. cu., s	2 s. cu., w	
5	24.77	24.58	49.2	85.1	90	48	44.2	69	58.1	19	S	4	NW	7	....	....	0	7 a. s., w	
6	24.67	24.56	64.0	86.2	93	60	49.0	35	59.2	20	SW	12	N	6	....	....	0	7 a. s., sw	
7	24.69	24.68	69.1	81.0	90	68	54.1	39	60.0	30	S	9	W	10	....	T.	7 a. s., sw	6 s. cu., w	
8	24.81	24.67	59.7	82.8	84	58	51.7	61	66.8	45	SW	2	NW	10	T.	....	0	3 s. cu., nw	
9	24.76	24.81	70.3	72.0	94	68	55.3	40	59.0	48	SW	6	SW	16	....	T.	6 a. s., w	10 n., sw	
10	24.81	24.82	59.8	74.3	93	58	52.8	65	59.3	43	S	8	S	8	T.	T.	2 a. s., w	8 s. cu., s	
11	24.85	24.80	58.0	76.0	85	58	53.0	74	63.0	51	S	8	E	20	....	T.	4 s. cu., w	2 s. cu., w	
12	24.87	24.79	57.2	84.1	86	57	54.2	84	64.0	35	SE	3	NW	8	....	....	0	1 cu., nw	
13	24.77	24.80	67.2	78.0	91	66	57.2	56	61.5	41	S	6	NW	12	....	T.	9 a. cu., w	10 s., w	
14	24.77	24.78	70.8	75.5	92	68	55.8	41	62.0	48	SW	7	W	7	T.	.02	3 s. cu., w	8 s. cu., w	
15	24.80	24.78	62.2	76.0	91	62	55.2	66	58.5	36	N	2	W	24	....	....	7 ci. cu., w	10 s., w	
16	24.73	24.62	66.0	76.5	87	65	57.0	60	62.0	46	SW	2	NE	5	....	.11	8 a. s., w	8 cu., nw	
17	24.81	24.80	58.1	71.2	74	58	55.1	84	59.7	53	NE	7	SW	10	T.	....	10 s. cu., nw	5 cu., w	
18	24.90	24.86	56.6	75.2	78	57	54.6	89	60.8	45	S	3	E	14	.43	T.	10 s. cu., s	3 cu., w	
19	24.90	24.81	57.0	87.0	88	57	53.0	78	59.5	20	SW	4	SE	6	....	....	0	1 cu., w	
20	24.85	24.81	64.0	85.5	92	64	54.0	54	61.5	27	SW	6	N	24	....	....	0	10 s. cu., w	
21	24.87	24.78	63.0	78.8	92	62	52.0	49	60.3	36	S	8	NW	10	....	T.	4 ci. s., s	9 a. s., w	
22	24.86	24.82	59.1	87.0	91	59	52.6	67	60.5	22	S	8	N	10	....	....	5 ci. s., sw	7 s. cu., sw	
23	24.88	24.77	67.0	81.2	95	67	58.0	60	65.2	45	S	10	N	13	.02	T.	2 a. s., w	7 cu., n	
24	24.88	24.84	64.0	74.1	89	62	58.0	72	62.6	55	W	4	NW	8	T.	.31	0	10 s., nw	
25	24.90	24.78	62.8	91.7	95	62	55.8	67	60.7	16	S	8	S	24	....	....	6 a. s., s	2 a. s., w	
26	24.91	24.81	65.0	85.2	93	65	55.5	57	61.7	27	SW	5	W	6	....	T.	2 s. cu., sw	8 s. cu., s	
27	24.82	24.77	62.6	76.8	89	62	53.6	58	60.8	42	S	5	SW	12	....	T.	0	10 s., sw	
28	24.74	24.64	61.0	87.5	90	61	51.0	52	59.0	18	S	8	SW	12	T.	T.	1 s. cu., s	3 cu., sw	
29	24.85	24.67	56.6	83.2	89	56	51.6	78	60.2	27	N	3	SW	10	....	....	4 s. cu., n	2 cu., nw	
30	24.85	24.67	57.4	76.5	80	57	53.4	78	62.0	46	N	13	NE	6	....	T.	9 s. cu., n	5 a. s., w	
31	24.59	24.59	57.0	77.8	79	57	55.0	89	57.3	29	N	4	E	8	....	T.	0	0	
Mn	24.79	24.73	60.8	79.0	87.2	59.8	53.0	63.7	59.9	35.8	S	6.2	NW	11.4	.79	.57	3.6 s. cu., w	6.0 s. cu., w	

AUGUST, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	24.79	24.71	50.0	85.0	86	50	46.0	76	58.0	19	S	5	NW	4	....	....	0	0	
2	24.82	24.77	58.2	84.0	92	68	50.2	59	58.0	21	NW	4	NW	14	....	....	0	5 cu., sw	
3	24.80	24.68	55.0	91.2	94	55	49.5	70	61.2	18	SW	6	NE	11	....	....	0	4 cu., nw	
4	24.75	24.65	65.0	92.3	95	62	49.0	32	58.8	12	S	10	N	10	....	....	0	3 cu., s	
5	24.78	24.81	59.0	85.1	89	59	48.0	46	63.1	30	SW	3	E	6	....	....	0	7 cu., w	
6	24.99	24.85	64.8	77.0	81	64	59.3	76	62.5	46	E	2	S	10	0.02	0.02	10 s. cu., e	9 s. cu., s	
7	24.82	24.79	68.0	86.9	92	67	56.0	49	60.4	22	SW	7	NE	12	T.	....	4 s. cu., sw	0	
8	24.88	24.75	61.1	74.7	84	60	55.1	70	58.7	40	N	11	E	12	....	....	0	5 cu., w	
9	24.80	24.71	63.0	77.7	78	58	49.5	80	58.2	31	S	5	S	5	.01	....	0	4 cu., nw	
10	24.78	24.72	52.8	78.6	81	52	48.8	71	60.1	36	SW	3	W	8	T.	....	1 s. cu., sw	3 cu., w	
11	24.80	24.74	59.4	74.8	82	59	54.9	77	62.8	53	N	12	NE	5	T.	.02	4 s. cu., n	5 cu., n	
12	24.73	24.74	60.6	74.2	87	61	50.1	50	52.2	22	S	10	W	10	....	T.	6 s. cu., sw	10 s. cu., w	
13	24.74	24.66	55.5	82.9	90	56	52.5	88	58.9	24	SW	6	N	6	....	....	0	7 s. cu., w	
14	24.79	24.75	59.8	84.0	86	59	51.3	58	61.0	28	E	4	NE	9	T.	....	1 s., e	3 s. cu., w	
15	24.83	24.82	60.8	69.3	85	61	56.3	77	62.0	69	SW	4	W	6	....	.24	8 a. cu., sw	10 s., w	
16	24.88	24.84	62.0	79.8	83	61	60.0	90	64.8	47	N	7	NE	4	T.	....	10 s., n	9 s., ne	
17	24.88	24.81	57.5	86.0	91	58	54.0	81	62.5	28	SW	8	S	6	....	....	0	4 s. cu., w	
18	24.92	24.85	60.7	82.0	89	57	52.2	59	60.0	29	S	8	S	6	....	T.	3 a. cu., n	8 s. cu., nw	
19	24.92	24.84	58.1	84.3	89	58	53.6	76	56.8	17	S	5	SE	8	.20	....	2 s. cu., s	1 s., 0 (?)	
20	24.77	24.74	60.9	80.2	91	60	53.4	54	64.2	44	SW	3	SW	8	....	T.	1 s., sw	8 s. cu., w	
21	24.76	24.70	67.2	81.2	97	67	56.2	52	64.2	42	S	10	S	6	....	.10	1 a. s., w	6 s. cu., sw	
22	24.72	24.66	61.6	69.2	85	62	57.6	80	61.7	67	S	8	SW	6	T.	.62	5 a. cu., sw	8 s., sw	
23	24.64	24.55	64.8	71.2	87	64	61.8	86	59.7	53	SW	3	W	16	.02	.09	10 s., sw	10 n., sw	
24	24.59	24.72	60.3	74.8	85	60	55.8	77	58.8	40	S	8	S	13	T.	T.	7 s. cu., s	5 s. cu., nw	
25	24.76	24.68	58.0	70.5	81	57	52.5	76	59.5	54	S	6	SW	18	....	.01	3 s., s	10 s., sw	
26	24.67	24.64	54.6	76.8	87	53	50.1	75	59.8	39	S	3	E	2	....	T.	0	5 s. cu., sw	
27	24.73	24.73	55.2	76.2	80	53	51.2	78	53.7	22	SE	2	SE	8	....	....	0	0	
28	24.88	24.87	50.7	75.2	78	51	45.2	68	54.2	26	SW	3	E	7	....	....	0	0	
29	24.91	24.81	48.8	76.0	83	48	44.3	72	56.0	29	S	4	NE	9	....	....	0	8 s., w.	
30	24.86	24.82	55.1	83.2	86	54	52.1	83	55.7	17	S	7	NE	6	T.	....	0	4 s. cu., nw	
31	24.88	24.82	61.3	86.0	91	60	50.8	50	56.0	14	SW	8	E	5	....	....	0	2 s. cu., 0 (?)	
Mn	24.80	24.75	58.7	79.7	86.6	58.0	52.5	68.7	59.5	33.5	S	6.0	NE	8.3	.25	1.10	2.5 s. cu., sw	5.3 s. cu., w	

DENVER, COLO.

[φ=39° 45′ N; λ=105° 00′ W; barometer above sea, 5,291 feet; gravity correction applied, —.01.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R.H.	Wet.	R.H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	24.83	24.80	62.4	84.8	90	61	58.9	83	64.8	35	S	8	NE	2	....	....	2 s. cu., s	5 s., ne	
2	24.80	24.80	61.6	79.9	91	61	58.1	83	67.9	56	S	10	NW	6	....	T.	3 ci. s., w	10 s., nw	
3	24.76	24.74	61.2	80.8	89	60	51.7	54	56.8	29	S	8	S	14	T.	T.	5 s. cu., s	8 s., n	⌐2
4	24.83	24.84	56.2	70.0	71	55	53.2	83	60.0	60	E	3	SE	14	....	T.	1 a. s., w	10 n., se	—⌐2
5	24.78	24.63	58.0	76.0	82	53	52.5	97	58.5	36	N	3	N	3	T.	T.	10 n., n	9 s., n	⌐2
6	24.56	24.45	64.2	70.1	84	59	53.2	50	58.6	52	SW	4	NE	20	....	T.	8 s. cu., sw	8 s., w	
7	24.57	24.57	58.0	64.8	71	52	45.0	37	50.3	37	NW	14	N	10	0.07	T.	10 s. cu., nw	0	
8	24.71	24.66	42.4	73.6	77	42	38.4	72	55.1	32	SW	4	S	6	....	....	0	0	
9	24.93	24.84	51.2	64.6	68	51	41.2	44	52.1	45	N	2	SE	8	....	T.	10 a. s., sw	0	
10	24.74	24.50	46.2	80.6	84	46	39.2	56	54.1	17	S	10	NE	10	....	....	5 a. s., w	0	—
11	24.61	24.39	46.0	55.8	66	46	42.0	74	50.3	71	N	9	N	12	....	T.	4 ci. s., sw	10 s., n	
12	24.52	24.49	47.0	65.2	72	45	36.0	34	49.2	32	W	24	NE	12	.21	....	0	7 ci., w	
13	24.59	24.72	44.0	49.5	56	44	40.0	73	45.0	72	NW	7	N	10	....	T.	4 s. cu., w	10 n., n	
14	24.78	24.77	37.3	39.3	46	36	36.3	92	38.3	92	NE	9	NE	6	.03	0.08	10 n., ne	10 n., ne	
15	24.92	24.95	32.1	42.1	47	32	30.1	81	38.1	72	NE	3	SW	8	.04	.....	10 s. cu., ne	10 s. cu., n	* —2
16	24.97	24.96	34.2	57.8	61	34	31.7	79	44.3	35	S	5	NE	5	T.	.....	4 s. cu., nw	0	
17	24.99	24.87	34.1	66.0	71	34	32.1	83	47.5	24	S	2	E	12	....	.....	0	0	
18	24.85	24.72	42.0	72.1	76	40	36.0	59	49.6	18	S	11	N	6	....	.....	0	0	
19	24.77	24.71	47.1	75.6	79	46	37.1	39	50.1	14	S	11	NE	2	....	.....	0	3 ci., s	
20	24.81	24.80	48.9	76.7	81	49	38.9	42	54.2	25	S	12	NE	6	....	.....	0	0	
21	24.88	24.75	46.4	77.5	85	45	37.9	47	51.5	14	S	10	S	6	....	.....	0	1 s., s	
22	24.82	24.92	52.2	72.5	82	52	42.7	48	52.0	18	S	4	N	15	....	.....	7 s. cu., s	1 s., n	
23	25.10	24.90	42.7	72.0	78	43	39.7	79	53.0	29	S	6	S	14	....	.....	0	0	
24	24.83	24.71	49.2	74.5	83	49	43.2	64	54.0	26	SW	3	N	4	....	.....	5 ci. s., w	5 cu., n	
25	24.62	24.48	54.0	75.5	81	54	44.0	47	53.0	22	S	10	NW	20	....	.....	0	1 s., nw	
26	24.83	24.87	44.8	66.8	57	43	42.3	83	44.3	38	E	6	S	3	T.	.....	10 s. cu., e	0	
27	24.86	24.77	36.8	72.2	78	36	33.3	73	48.2	14	S	6	SE	10	....	.....	6 ci. s., w	6 ci. s., sw	
28	24.74	24.60	51.0	71.0	77	49	42.0	49	52.0	28	S	3	N	12	....	.....	9 s. cu., s	5 s. cu., sw	
29	24.59	24.60	50.0	65.2	73	50	44.0	64	49.7	34	S	4	N	6	T.	.....	8 s. cu., s	3 s. cu., n	
30	24.78	24.76	48.1	58.3	70	47	44.1	75	53.3	74	S	2	N	10	T.	.18	2 s. cu., s	10 n., n	
Mn	24.78	24.72	48.1	68.0	74.2	47.1	42.2	64.8	51.9	38.2	S	7.1	N	9.1	.35	.21	4.4 s. cu., s., w.	4.4 s., n	

OCTOBER, 1903.

1	24.79	24.68	46.0	63.0	67	46	45.0	93	53.0	54	N	4	NW	8	0.02	.....	1 s. cu., s	1 cu., nw	
2	24.66	24.49	45.0	70.2	78	41	43.0	87	51.2	27	S	4	SW	18	....	.....	10 s., s	3 s., sw	
3	24.66	24.74	51.0	60.1	63	51	41.0	44	45.1	31	W	15	NE	12	T.	.....	2 s. cu., w	10 s., ne	
4	24.87	24.78	36.4	63.1	68	36	31.9	64	44.1	19	S	8	E	5	....	.....	1 a. s., w	1 s., c	
5	24.76	24.55	40.2	68.8	73	39	35.2	64	52.3	48	S	11	E	7	....	.....	4 ci. s., w	10 s. cu., ne	
6	24.36	24.37	47.2	60.2	71	46	37.2	39	46.7	37	S	12	NW	22	....	T.	2 s. cu., s	3 s. cu., nw	
7	24.70	24.82	40.0	59.2	61	38	34.0	57	43.2	26	S	6	E	8	....	.....	0	0	
8	24.91	24.84	33.7	64.2	68	34	29.7	65	46.2	24	S	3	N	6	....	.....	2 ci. s., w	0	
9	24.86	24.69	41.9	74.0	82	40	32.9	39	50.0	16	S	8	S	10	....	.....	0	0	
10	24.65	24.44	48.0	74.0	84	47	38.0	40	50.0	16	S	9	SE	12	....	.....	0	1 s., sc	
11	24.56	24.84	42.2	48.3	59	42	35.7	55	45.8	84	SW	7	NE	8	....	0.04	9 s. cu., sw	9 s. cu., ne	
12	24.94	24.94	40.2	53.0	58	40	37.2	78	48.5	49	N	2	NE	8	.01	.....	8 s. cu., n	10 s. cu., ne	
13	24.95	24.83	43.7	53.0	55	44	40.7	80	44.5	53	N	6	NE	5	.09	T.	10 n., n	8 a. cu., n	
14	24.72	24.73	34.0	57.8	66	34	33.0	91	47.3	48	S	4	NE	20	....	.....	0	10 s. cu., nw	*
15	24.98	24.84	35.2	45.5	49	34	32.7	79	40.5	68	W	5	SE	6	.32	.....	10 s. cu., w	0	
16	24.77	24.91	40.8	60.2	68	37	34.8	58	44.7	29	S	12	NE	5	....	.....	5 ci. s., w	0	
17	25.04	24.97	36.0	63.5	70	35	32.5	72	46.0	26	S	8	SE	6	....	.....	0	0	
18	24.94	24.90	44.9	68.2	80	44	36.9	49	48.2	22	S	12	NW	9	....	.....	0	1 ci., w	
19	24.90	24.86	45.3	70.3	79	45	36.3	43	47.8	16	S	14	E	6	....	.....	0	0	
20	24.91	24.89	41.0	64.4	75	41	33.0	45	47.9	30	SW	11	NE	8	....	.....	0	0	
21	24.84	24.86	44.4	65.2	77	44	34.9	39	46.7	23	SW	8	NE	14	....	.....	0	3 s. cu., ne	
22	25.08	25.02	35.8	55.6	62	36	31.8	68	43.6	39	S	8	N	8	....	.....	2 s. cu., s	0	
23	25.05	25.02	35.0	60.8	68	33	32.0	75	44.8	28	SW	7	NE	2	....	.....	0	0	
24	24.98	24.92	41.2	65.2	73	39	34.2	51	43.2	12	SW	7	NE	2	....	.....	4 a. s., w	0	
25	24.96	24.96	40.3	61.5	70	40	35.3	64	48.5	40	S	10	E	8	....	.....	0	0	
26	25.02	24.95	35.6	55.6	59	35	31.6	68	47.1	56	SW	2	N	4	....	.....	4 a. cu., n	2 s., sw	
27	24.94	24.93	35.8	54.7	62	33	32.3	72	45.2	50	SW	1	NE	6	....	.....	3 a. s., w	10 s., n	≡a.
28	24.86	24.71	33.4	57.0	66	32	30.4	73	41.5	25	S	8	S	4	....	.....	0	5 ci. s., nw	
29	24.57	24.55	42.6	54.7	60	41	33.6	40	43.7	43	SW	7	SE	8	....	.....	6 a. s., nw	10 s. cu., se	
30	24.78	24.89	33.0	37.0	41	30	32.0	91	34.0	77	N	10	N	4	.66	.20	10 n., n	10 s. cu., n	*
31	24.90	24.85	21.4	37.5	45	21	19.9	80	36.0	88	SW	7	SW	8	....	.....	0	0	
Mn	24.84	24.80	39.7	59.4	66.5	38.6	34.5	63.3	45.6	38.8	S	7.6	NE	8.3	1.10	.24	3.0 s. cu., w.	3.5 s. cu., nc	

DENVER, COLO.

[φ=39° 45′ N; λ=105° 00′ W; barometer above sea, 5,291 feet; gravity correction applied, −.01.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	24.87	24.88	29.2	42.5	54	29	27.2	80	36.0	56	SW	12	W	6			0	5 ci., n	
2	24.88	24.88	28.4	42.6	52	28	26.4	79	36.1	56	SW	8	SW	3			0	6 ci. s., nw	
3	24.90	24.90	32.2	47.0	53	32	29.2	72	41.5	65	SW	7	W	2			7 s., n	1 s., w	
4	24.96	24.91	34.0	47.3	58	33	31.5	79	41.8	62	SW	8	W	4			0	0	
5	24.81	24.77	30.0	51.4	55	30	28.0	80	44.4	60	W	4	S	2			7 a. s., sw	2 s., s	
6	24.74	24.69	38.3	56.1	69	37	32.3	55	45.1	44	SW	12	S	6			4 a. s., n	0	
7	24.68	24.61	40.0	61.2	72	39	34.0	57	47.5	38	SW	10	SE	4			0	0	
8	24.53	24.53	52.0	57.3	72	40	39.0	30	42.3	28	SW	10	W	10			4 s. cu., sw	0	
9	24.84	24.54	27.4	45.2	50	27	25.4	78	36.7	46	S	7	SW	4			0	3 ci. s., w	
10	24.25	24.56	41.4	30.0	48	29	32.4	38	26.0	61	SW	3	NW	20		T.	3 s. cu., w.	0	*
11	24.52	24.24	21.8	51.0	56	19	20.3	81	38.0	29	SW	6	W	18			4 a. s., n	7 s. cu., w	
12	24.47	24.46	31.3	36.8	57	31	29.8	85	33.8	77	E	5	N	8		T.	10 s., e	10 s., n	*
13	24.56	24.69	32.9	48.3	59	31	30.9	82	39.8	49	SW	13	NE	15			3 s. cu., w	3 s. cu., ne	
14	24.68	24.56	28.0	59.2	68	28	26.5	84	46.5	40	S	4	NE	4			3 a. s., sw	6 ci. s., sw	
15	24.48	24.64	37.6	38.6	65	35	30.6	47	33.1	59	S	5	NE	10			2 a. s., sw	1 s., ne	
16	24.74	24.74	25.3	32.0	37	11	28.3	77	25.0	37	S	4	NW	18	0.03		10 s. cu., s	2 s., nw	*
17	25.02	25.03	5.4	16.8	23	5	4.4	77	15.3	78	E	4	NE	6	.04		4 a. s., w	0	*
18	24.98	24.82	2.8	18.2	24	3	2.0	80	16.7	82	SW	8	NE	5			0	4 ci. s., w	
19	24.72	24.72	13.2	31.5	40	12	12.0	79	28.5	72	S	3	N	5			7 a. s., w	8 s. cu., n	
20	24.76	24.86	30.0	43.0	53	26	26.0	61	37.5	62	S	10	S	6			5 ci. s., nw	1 s., s	
21	24.90	24.84	31.8	53.0	63	30	27.8	63	42.5	43	SW	14	S	5			0	3 s., s	
22	24.75	24.73	42.9	61.8	66	37	36.9	59	46.3	32	S	11	W	14			8 s. cu., s	8 s. cu., w	
23	24.79	24.71	31.6	40.6	44	30	29.6	81	36.6	71	N	4	NE	3			8 s., n	4 a. s., w	
24	24.69	24.85	32.0	45.6	52	28	29.5	77	40.1	65	S	12	NE	5			3 a. s., nw	0	
25	24.93	24.93	25.0	45.2	55	25	24.0	88	39.2	61	S	6	NE	4			0	0	
26	24.93	24.90	31.0	52.1	63	30	28.0	71	43.1	50	S	11	SW	8			0	2 a. s., w	
27	24.89	24.81	42.0	64.6	74	42	35.0	52	50.1	38	S	12	S	4			1 s. cu., s	8 s. cu., w	
28	24.90	24.86	35.0	46.8	59	32	29.0	50	39.8	57	NE	9	E	4			2 a. s., nw	4 a. s., nw	
29	24.80	24.73	22.0	33.7	41	22	20.0	75	30.2	70	SE	2	S	3			4 a. s., w	6 ci., w	
30	24.70	24.72	34.4	51.0	57	28	30.4	66	43.0	54	SE	8	W	20			4 s. cu., n	6 s. cu., nw	
Mn.	24.76	24.74	30.3	46.0	54.6	27.6	26.7	69.4	37.4	54.7	SW	7.7	NE	7.5	.07	T.	3.4 a. s., nw	3.3 s., w	

DECEMBER, 1903.

1	24.79	24.69	37.2	54.0	62	37	35.7	88	45.5	54	E	7	W	13			6 s. cu., n	0	
2	24.50	24.65	52.1	47.4	62	30	41.1	40	41.4	62	W	6	W	12			5 a. s., s	2 a. s., w	
3	24.77	24.87	24.2	31.4	38	22	22.2	76	27.4	62	E	2	N	12			1 s. cu., w	2 s. cu., n	
4	24.97	24.92	14.2	29.0	36	13	13.2	83	25.5	65	NE	8	NE	2			2 s. cu., ne	0	
5	24.93	24.94	18.9	37.1	50	19	16.9	72	31.1	53	SE	8	SE	8			0	0	
6	24.94	24.83	31.7	48.5	61	28	24.7	36	37.5	36	SW	13	W	10			0	0	
7	24.78	24.82	22.4	35.0	39	21	19.4	63	30.0	68	NE	6	N	2			10 a. s., nw	0	
8	24.90	24.78	25.0	36.0	44	24	22.5	71	30.5	56	E	6	SW	3	0.03		5 s. cu., nw	2 s , sw	*
9	24.74	24.79	41.0	34.2	47	28	32.0	38	31.2	74	W	12	S	8			5 s. cu., w	0	
10	24.69	24.66	37.0	46.2	54	27	32.0	61	38.2	50	NW	7	N	10			0	0	
11	24.36	24.21	32.8	44.1	59	15	26.8	47	35.1	42	SW	11	NE	17			4 ci. s., w	10 s. cu., ne	*
12	24.58	24.58	3.8	20.0	25	3	2.6	71	18.0	73	S	6	SE	7	.06		0	2 s., se	*
13	24.62	24.75	35.4	41.2	49	25	31.9	71	34.2	51	SE	8	SE	2			0	10 s. cu., w	
14	24.96	24.95	15.3	34.8	45	15	13.3	69	30.8	67	S	6	SE	6			0	0	
15	24.83	24.82	28.0	47.0	56	22	24.0	59	38.5	48	S	12	NW	9			9 s. cu., s	0	
16	24.78	24.67	33.2	42.5	58	29	30.2	73	36.5	59	S	12	S	7			4 s. cu., w	0	
17	24.63	24.56	34.8	44.4	63	28	27.3	38	37.4	54	S	14	NE	2			4 a. s., w	3 a. s., w	
18	24.41	24.44	42.0	43.4	55	28	31.0	27	36.9	56	NW	4	SW	12			5 s. cu., nw	3 s. (?)	
19	24.71	24.77	27.0	36.0	38	26	25.0	78	33.0	76	S	7	NW	12			4 s. cu., s	0	
20	24.67	24.62	41.8	43.5	58	25	34.8	52	39.0	70	N	5	NW	15			0	0	
21	24.70	24.77	38.0	38.5	50	30	31.5	51	34.0	66	SW	8	S	12			0	0	
22	24.79	24.73	20.0	36.5	43	20	18.2	76	31.5	60	S	6	SE	6			1 s. cu., s	0	
23	24.65	24.78	18.0	26.5	29	18	16.6	80	26.0	95	S	1	N	9		0.12	8 s., s	8 n., n	=a. *
24	24.78	24.82	12.2	28.2	38	11	11.0	79	25.2	69	S	12	SW	6	.02		5 s. cu., s	(	*
25	24.80	24.95	24.0	44.8	49	18	21.0	65	37.3	52	SW	12	N	6			0	8 s. cu., nw	
26	24.94	24.89	36.0	46.0	58	33	30.0	52	37.0	44	W	6	W	12			0	2 a. s., w	
27	24.92	24.85	28.8	40.7	49	26	24.8	60	34.2	54	S	12	N	5			0	4 a. s., w	
28	24.82	24.92	28.8	30.6	37	22	24.8	60	28.1	76	S	8	S	9			0	0	
29	24.88	24.86	28.6	48.3	57	21	24.6	60	39.3	46	S	12	SW	7			0	9 s. cu., nw	
30	24.95	24.78	30.2	45.0	59	28	27.2	70	41.5	77	SW	11	W	6			0	0	
31	24.66	24.55	27.6	47.7	62	27	24.1	64	40.2	54	S	12	SE	7			0	4 a. s., w	
Mn.	24.76	24.75	28.7	39.6	49.4	23.2	24.5	62.3	33.9	60.0	S	8.4	se / n	8.2	.11	.12	2.5 s. cu., s	2.2 a. s., s. cu., w	

SANTA FE, N. MEX.

[φ=35° 41′ N; λ=105° 57′ W; barometer above sea, 7,013 feet; gravity correction applied, −.08.]

JANUARY, 1908.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	23.08	23.04	21.3	25.0	36	18	17.3	52	19.5	42	NE	7	S	1			0	Few a. s., 0	
2	23.14	23.24	19.0	26.0	35	18	16.0	61	20.5	43	N	9	SE	2			9 a. s., 0 (?)	0	
3	23.25	23.18	16.5	30.0	38	13	13.9	64	25.0	54	NE	4	N	2			0	Few ci. s., 0	
4	23.20	23.35	25.3	30.5	39	23	21.8	62	25.0	50	N	14	NE	4			0	0	
5	23.39	23.47	21.0	32.5	41	17	17.8	62	27.0	52	N	12	S	2			0	0	
6	23.48	23.39	29.0	35.0	49	24	23.5	48	28.0	45	NE	14	SE	4			Few ci., nw	0	
7	23.39	23.36	32.0	36.0	48	30	25.5	44	28.0	39	NE	2	0	0			0	1 ci. s., w	a
8	23.34	23.16	24.0	33.0	41	23	18.6	41	27.0	49	N	2	N	2			1 ci. s., sw	1 ci. s., sw	
9	23.14	23.02	23.5	33.5	41	23	19.5	55	26.0	38	SE	1	SE	5			0	8 ci. s., sw	
10	22.90	22.98	22.5	28.5	34	20	18.0	48	24.0	56	N	2	S	1	T.	0.02	4 s. cu., sw	7 a. s., w	*
11	23.07	23.14	22.5	28.0	34	15	20.0	70	23.6	57	NW	9	NW	4	0.01		0	0	
12	23.37	23.39	20.0	28.5	37	16	16.2	52	23.5	52	N	4	W	1			0	0	
13	23.28	23.30	24.0	30.0	38	16	19.0	45	25.5	58	NE	14	N	1			1 ci., w	1 ci. s., w	
14	23.40	23.38	16.5	28.5	34	16	14.1	66	23.0	47	NE	2	NE	3			Few ci. s., sw	Few ci. s., w	
15	23.29	23.19	21.0	26.5	29	18	19.2	77	25.5	90	SW	2	N	3		.04	9 a. s., sw	10 s., nw	*
16	23.15	23.18	25.5	29.0	33	23	23.0	73	25.0	62	N	9	NW	12	T.		8 a. s., w	2 ci. cu., nw	*
17	23.22	23.21	25.0	32.0	35	24	22.0	68	27.0	56	NE	8	N	4			7 a. cu., se	3 a. s., e	
18	23.17	23.18	20.0	28.5	34	19	17.5	69	23.5	52	NE	6	N	2			Few ci., sw	0	
19	23.20	23.02	19.0	30.0	37	16	17.2	77	25.5	58	NE	5	NW	10			0	10 s., w	
20	23.11	23.23	19.0	24.0	30	15	17.0	74	20.5	61	N	12	SW	4			0	Few a. s., 0	
21	23.23	23.16	18.5	30.0	37	14	14.3	45	25.5	58	N	12	NW	6			0	Few ci. cu., nw	
22	23.15	23.04	25.0	36.5	43	23	21.5	62	32.5	70	N	6	NW	14		T.	Few a. s., 0	2 s., nw	*
23	23.25	23.25	24.0	34.5	39	23	19.5	50	26.0	33	N	16	NW	15	.02		0	9 a. s., w	
24	23.25	23.18	19.5	38.0	45	18	16.9	64	32.0	57	NE	6	NE	2			Few a. s., w	1 ci. s., w	
25	23.07	22.96	28.0	41.0	47	26	23.5	56	33.0	47	NE	9	SE	4			1 a. s., sw	5 ci. s., w	
26	23.02	23.14	30.0	37.0	45	30	26.5	67	31.5	59	S	2	SW	4	.02	T.	8 s., 0	4 ci. s., w	*
27	23.13	23.18	34.0	39.5	46	33	29.0	59	33.0	54	NW	2	NW	1			4 a. s., nw	7 ci. s., w	
28	23.17	23.04	33.5	46.5	49	33	27.5	50	33.5	26	SE	5	SW	8			2 ci. s., w	5 a. s., w	
29	23.08	23.32	32.0	28.0	40	23	27.5	60	23.0	51	N	12	NE	7			9 a. s., sw	Few ci. s., w	
30	23.32	23.16	23.0	38.0	41	18	19.1	55	33.5	67	S	6	SE	9			3 ci. s., w	9 a. s., w	
31	23.04	22.96	36.0	42.5	48	30	29.5	50	29.5	19	E	7	W	6			7 a. s., w	Few a. s., 0	
Mn	23.20	23.19	24.2	32.5	39.5	21.2	20.4	58.9	26.6	51.7	N	7.1	NW	4.6	.05	.06	2.4 a. s., sw	2.7 ci. s., w	

FEBRUARY, 1908.

1	22.94	22.97	31.0	35.5	37	28	23.5	34	31.5	68	S	2	NE	4		T.	6 a. s., sw	7 s., sw	*
2	22.96	22.77	33.0	37.0	47	22	27.0	49	32.0	63	SE	9	SW	10		0.01	0	8 s., sw	*
3	22.81	22.95	14.0	18.5	27	12	12.8	78	15.0	54	N	2	W	12	0.03		1 ci. s., w	Few s., w	
4	23.12	23.15	10.0	26.0	34	7	8.6	74	20.0	38	NW	9	N	2			0	0	
5	23.13	22.99	24.5	28.5	38	14	19.5	46	23.5	52	N	1	E	20			1 ci. s., w	8 s., sw	*
6	22.97	23.00	20.0	20.5	26	15	17.5	69	18.5	75	NE	3	NW	4	.04	.28	7 s., 0	1 s., nw	*
7	23.06	23.14	6.0	19.0	25	5	4.8	75	16.5	68	NE	2	NW	8			1 s., nw	0	
8	23.12	23.09	9.0	24.5	33	8	7.6	74	21.0	62	NE	10	SE	4			0	1 a. s., 0	
9	23.05	23.09	21.0	26.5	29	20	17.5	57	23.0	64	N	8	SW	4		.09	7 ci. s., w	3 s., sw	*
10	23.12	23.18	21.0	36.5	42	16	17.0	52	29.0	44	N	25	SW	4			0	0	
11	23.16	23.04	20.0	38.5	45	19	17.5	69	31.0	47	0	0	SW	5			0	0	
12	22.94	22.88	34.0	44.0	46	31	27.0	43	35.5	47	SE	4	SW	17			2 ci., w	6 a. s., sw	
13	22.95	22.98	31.0	32.5	37	28	24.5	42	28.5	66	S	9	SE	10			5 a. s., sw	9 a. s., sw	
14	23.00	22.97	32.0	37.0	41	27	27.0	56	32.0	63	S	12	SE	7		T.	3 ci. cu., sw	7 a. s., sw	*
15	22.95	23.02	25.0	9.0	34	5	23.5	84	8.0	81	SE	8	S	16	.31	.04	4 s. cu., sw	10 n., s. (?)	*
16	23.02	23.11	− 3.0	17.5	19	− 4	− 3.4	88	15.5	72	SE	4	N	13	T.		Few s., nw	0	
17	23.17	23.17	13.0	25.0	29	8	10.8	64	19.5	42	N	10	NW	5			0	Few a. s., 0	
18	23.23	23.29	19.0	30.5	38	16	16.6	69	27.0	68	NE	8	S	4			0	Few a. s., 0	
19	23.37	23.38	20.0	37.5	42	17	17.5	69	29.5	42	NE	2	NW	4			0	0	
20	23.40	23.43	24.5	39.0	43	21	20.5	56	30.5	41	NE	7	N	3			0	4 a. s., w	
21	23.47	23.42	21.0	39.0	46	21	18.5	69	30.0	37	N	1	NW	5			2 ci., nw	Few ci., w	
22	23.42	23.39	25.0	41.0	46	24	20.5	52	33.0	47	NE	9	W	2			0	5 ci., w	
23	23.38	23.27	32.0	39.5	46	31	27.0	56	32.5	52	NE	2	SE	9			6 ci., w	10 s., sw	
24	23.17	23.05	29.0	29.5	36	26	27.5	85	27.0	76	SW	2	SE	8	.03	.26	10 s., sw	8 s., sw	*
25	23.06	23.04	22.0	23.0	26	19	21.5	94	21.5	82	N	2	S	3	.02	.14	10 n., sw	10 n., s	*
26	23.08	22.96	12.0	25.0	30	11	10.8	80	22.0	68	SE	1	W	6	.02		3 s., sw	Few s., 0	
27	22.91	22.98	18.5	30.5	34	18	16.7	76	26.5	64	W	2	NE	5		T.	3 s. cu., sw	6 s. cu., nw	*
28	23.11	23.25	20.0	17.5	30	10	19.0	87	15.0	66	S	6	SE	14	.04		9 s., sw	2 a. s., w	*
Mn	23.11	23.11	20.9	29.6	35.9	17.0	17.8	66.0	24.8	58.9	NE	5.7	SE	7.4	.49	.82	2.9 s., sw	3.8 s., sw	

SANTA FE, N. MEX.

[$\varphi = 35° 41'$ N; $\lambda = 105° 57'$ W; barometer above sea, 7,013 feet; gravity correction applied, −.03.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	23.38	23.23	5.0	24.0	26	4	4.4	87	20.0	56	NE	5	NW	8			Few ci. s., 0	0	
2	23.21	23.17	16.0	36.0	38	10	13.8	68	27.0	32	NE	13	W	2			Few ci., w	Few a. s., 0	
3	23.21	23.18	29.0	43.0	48	24	24.0	52	35.0	49	NE	9	W	3			4 a. s., nw	3 a. s., w	
4	23.21	23.20	35.0	43.5	47	35	34.5	96	37.0	58	SW	4	SW	3	0.10	0.02	10 n., sw	8 a. s., sw	
5	23.19	23.12	35.0	44.5	46	33	34.0	92	38.0	60	SE	1	S	4	.12	.01	10 s., sw	2 s., sw	
6	23.10	23.06	35.0	43.0	47	35	31.0	68	33.0	37	SE	3	W	7			5 a. s., sw	2 s. cu., sw	
7	23.22	23.26	23.5	37.0	39	22	20.0	60	28.0	34	NW	8	N	4			0	Few ci. s., 0	
8	23.24	23.08	30.5	44.0	47	30	25.5	54	35.5	47	N	3	S	14			9 ci. s., sw	10 s., se	
9	23.14	23.21	27.0	39.0	43	27	23.5	64	31.0	44	SE	3	NW	7	.08	T.	1 ci. s., nw	Few s. cu., nw	
10	23.42	23.48	27.0	44.5	49	25	24.0	69	33.0	30	NE	4	NW	6			0	0	
11	23.51	23.43	28.0	49.5	54	27	23.5	56	35.5	25	SE	1	NW	5			0	0	
12	23.38	23.28	31.0	54.5	58	30	25.5	51	36.5	15	NE	8	NW	6			0	Few a. s., 0	
13	23.26	23.20	36.0	57.0	63	34	28.0	39	38.0	14	NE	8	SW	6			2 ci., nw	1 ci. s., w	
14	23.21	23.15	43.0	54.0	59	40	32.0	31	37.0	18	E	6	SE	14			8 ci. s., sw	10 s., sw	
15	23.16	23.13	40.0	58.0	67	38	34.0	58	36.0	17	SE	4	SW	4			2 ci. s., w	Few ci. s., sw	
16	23.18	23.12	31.5	53.0	57	31	26.5	56	35.5	15	E	4	S	5			Few ci., 0	2 ci. s., sw	
17	23.09	22.92	37.0	52.5	56	36	29.5	44	37.0	22	SE	6	S	24			5 ci., sw	10 s., s	
18	22.99	23.05	20.0	33.5	48	20	17.0	63	27.5	50	SE	2	N	6	.02	T.	0	8 s., w	
19	23.16	23.20	20.0	33.5	36	20	17.5	69	25.5	34	SE	2	SW	4	.05	.03	1 s., nw	4 s. cu., w	
20	23.27	23.20	20.5	36.0	40	20	17.5	63	25.0	18	SE	8	NW	14			0	0	
21	23.16	23.04	28.0	45.0	49	23	21.0	33	31.0	18	N	16	N	6			0	0	
22	23.05	23.03	27.0	47.0	52	27	21.5	45	31.5	14	SE	5	NW	12			Few ci., w	3 ci., nw	
23	23.16	23.16	17.0	47.0	50	17	15.2	75	33.0	21	N	2	S	8			0	0	
24	23.25	23.17	27.0	52.0	55	27	22.5	55	36.5	22	E	2	SW	4			0	Few a. s., sw	
25	23.24	23.14	39.0	41.0	49	38	34.0	65	39.0	86	SE	1	S	16		.34	10 s., sw	10 n., s	
26	23.10	23.13	34.0	42.5	48	32	33.5	96	38.0	70	S	6	N	15	.10	.16	10 s., sw	8 ci. s., nw	
27	23.30	23.34	34.5	50.0	52	33	34.0	96	37.0	30	N	5	NW	6	.29		6 s. cu., nw	0	
28	23.37	23.33	34.0	51.0	56	33	31.0	75	39.0	36	E	2	S	8			4 ci., nw	5 ci. s., nw	
29	23.28	23.20	38.5	52.0	53	38	33.0	90	40.5	40	E	3	N	2			4 ci. s., nw	4 ci. cu., w	
30	23.16	23.16	42.0	59.0	61	39	37.0	67	43.0	28	NE	7	NW	14			3 ci., nw	1 cu., w	
31	23.26	23.25	39.0	56.0	64	39	35.0	71	45.0	46	N	8	NW	14			7 ci. s., w	8 s. cu., w	
Mn	23.22	23.18	30.0	45.7	49.9	28.6	25.9	63.8	34.3	35.0	SE	5.1	NW	8.1	.76	.56	3.3 ci. s., sw. nw.	3.2 ci. s., sw	

APRIL, 1903.

1	23.20	23.09	48.0	53.5	57	46	42.0	65	44.0	50	SW	7	W	4	T.	T.	9 s. cu., sw	10 s., sw	
2	22.96	22.95	45.0	36.0	48	33	39.0	62	33.0	77	SE	2	W	8		0.05	9 s., sw	9 s., w	
3	23.31	23.32	27.5	46.0	50	28	24.5	70	34.0	30	SE	2	W	6	0.05		3 s. cu., nw	Few s., nw	
4	23.24	23.05	34.5	52.0	54	31	28.0	48	37.5	26	SE	4	SW	2			8 ci. s., w	4 ci. s., w	
5	23.08	23.02	44.0	54.0	59	40	36.0	50	36.0	14	S	4	SW	20		.01	9 a. s., sw	10 s., sw	
6	23.14	23.14	41.0	49.0	54	34	31.0	34	34.0	20	NW	1	W	19	T.		8 s. cu., w	Few cu., w	
7	23.18	23.21	30.5	54.0	57	29	23.0	33	38.0	22	NE	4	N	8			Few ci. s., 0	0	
8	23.27	23.25	36.0	60.0	65	36	29.0	46	41.0	18	NE	5	NW	6			0	0	
9	23.22	23.10	54.0	49.0	57	43	40.5	33	36.0	29	SE	11	N	12		.08	10 s., se	7 s. cu., sw	
10	23.18	23.05	38.0	58.5	60	37	36.0	85	39.5	14	SW	1	SW	8			Few s., w	1 ci., w	
11	23.12	23.07	35.0	52.0	57	35	29.0	52	38.0	28	SE	2	SW	12			2 ci., sw	3 ci. s., w	
12	23.11	23.16	34.5	42.0	50	32	30.0	64	28.5	15	SW	6	NW	18			2 s. cu., w	0	
13	23.28	23.20	23.5	45.0	48	22	19.0	50	32.0	28	NE	2	S	18			0	2 a. s., w	
14	23.22	23.10	35.0	52.0	55	33	26.5	34	36.0	20	E	6	S	12			1 s. cu., nw	4 a. s., w	
15	23.11	23.08	41.0	50.5	54	39	34.5	48	40.0	42	E	10	E	12	T.	T.	10 s., sw	4 cu., sw	
16	23.22	23.18	37.0	56.5	59	37	30.5	52	36.5	10	SE	4	SW	10			0	0	
17	23.14	22.96	47.0	58.0	60	42	35.5	34	37.5	23	SE	6	NW	17			4 ci., sw	8 s. cu., sw	
18	23.00	23.03	31.0	48.0	51	31	27.5	68	35.5	30	SW	10	W	16	.04	T.	2 s. cu., nw	3 s. cu., nw	
19	23.18	23.20	36.0	57.0	60	35	29.0	46	39.0	26	NW	7	W	6			0	8 ci. s., w	
20	23.36	23.32	38.5	55.0	57	38	30.5	43	40.0	28	SE	3	SE	8			2 ci., w	10 s., 0	
21	23.36	23.31	39.5	56.5	60	39	36.0	75	37.5	14	NE	8	NW	7			1 ci. s., sw	0	
22	23.40	23.27	37.3	61.0	65	37	32.3	63	42.5	21	NE	1	S	6			0	1 s. cu., nw	
23	23.28	23.24	44.5	59.5	68	44	37.5	56	45.0	34	SE	2	SW	8			2 ci., w	4 ci., w	
24	23.28	23.29	43.5	61.5	68	43	37.0	58	40.5	14	E	1	SW	8			2 ci., w	8 s. cu., sw	
25	23.38	23.27	43.0	57.5	65	42	35.5	52	44.0	36	W	2	SE	16			2 a. s., sw	5 s. cu., se	
26	23.26	23.11	46.5	42.5	59	39	33.0	23	40.5	86	SE	4	SE	6		.44	4 a. s., 0	10 s., sw	
27	23.08	22.99	44.5	60.5	68	43	41.0	78	49.0	13	SE	6	S	23			1 s., sw	6 a. s., sw	
28	23.07	23.04	46.0	52.0	60	45	34.5	33	38.0	28	SE	5	SW	18		T.	7 a. s., sw	10 s., sw	
29	23.13	23.28	40.0	50.0	52	38	31.0	39	34.0	17	NW	4	NW	14	T.		1 s. cu., sw	0	
30	23.48	23.38	27.0	55.0	56	25	25.0	79	38.5	22	SW	2	S	10			0	0	
Mn	23.20	23.16	39.0	52.6	57.6	36.5	32.1	52.4	37.9	27.8	SE	4.4	SW	11.3	.09	.58	3.3 s. cu., sw	4.1 s. cu., w	

SANTA FE, N. MEX.

[φ=35° 41′ N; λ=105° 57′ W: barometer above sea, 7,013 feet; gravity correction applied, −.03

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	23.36	23.19	38.0	61.5	66	35	31.0	49	42.5	20	SE	4	S	14	....	....	0	5 a. s., w	
2	23.27	23.28	44.5	51.5	66	42	33.0	30	32.0	4	SE	6	SE	18	....	T.	2 ci., w	4 a. s., w	
3	23.36	23.24	40.0	57.0	64	39	34.5	62	42.0	30	S	8	E	3	....	....	0	6 a. s., w	
4	23.26	23.16	50.0	52.0	62	46	39.5	42	44.0	57	NE	9	E	4	....	0.04	4 a. cu., sw	8 a. s., w	▲
5	23.16	23.10	47.5	60.0	63	42	40.0	56	44.0	29	N	6	SE	8	....	....	4 ci., w	4 a. s., w	
6	23.23	23.19	43.0	52.5	62	40	37.0	61	43.0	50	NE	4	SE	16	....	.01	Few a. s., 0	1 s. cu., se	—
7	23.27	23.15	43.2	61.0	65	43	38.2	67	44.0	27	SE	6	S	4	....	....	2 s., sw	1 s. cu., w	
8	23.21	23.12	49.0	64.0	68	47	38.0	39	43.5	18	SE	6	NW	8	....	....	1 s. cu., sw	4 s. cu., w	
9	23.18	23.07	50.0	64.5	67	46	39.0	40	45.0	22	NE	4	SW	6	....	....	Few a. s., w	3 cu., nw	
10	23.10	23.04	44.0	67.0	69	44	38.0	62	44.5	16	SE	6	NW	6	....	....	1 ci. s., nw	4 s. cu., sw	
11	23.18	23.15	47.0	68.0	68	42	43.0	75	46.0	18	S	4	NW	4	....	....	Few s. cu., se	1 cu., nw	
12	23.36	23.31	44.5	66.0	66	42	38.5	62	45.5	20	SE	1	NW	4	....	....	6 s. cu., se	0	
13	23.42	23.30	44.5	71.0	72	39	35.0	42	44.0	8	E	2	NW	2	....	....	0	0	
14	23.30	23.14	49.0	72.0	75	48	38.0	39	47.0	14	SE	1	NW	2	....	....	0	3 ci. s., 0	
15	23.21	23.14	52.5	56.5	64	47	45.0	60	43.5	38	SE	4	SW	6	T.	.08	10 s., sw	8 s. cu., sw	—
16	23.11	22.98	46.0	61.0	62	45	42.5	78	47.0	38	SW	2	SW	6	....	.01	6 a. cu., sw	8 s. cu., sw	—
17	23.04	22.92	47.0	62.0	64	45	39.5	55	43.5	23	S	3	SW	32	....	....	7 s. cu., sw	8 s. cu., sw	
18	23.11	23.12	35.2	48.0	51	34	30.2	60	32.5	16	NW	11	SW	12	....	....	2 s. cu., w	1 s. cu., sw	
19	23.17	23.12	38.5	60.0	61	38	29.5	36	40.0	15	NW	1	SW	12	....	....	0	0	—
20	23.17	23.04	46.0	67.5	72	42	35.0	35	45.5	18	SE	2	S	18	....	....	0	0	
21	23.06	23.02	49.5	56.0	59	47	37.0	32	37.5	16	SE	2	SW	18	....	T.	Few s. cu., 0	Few s. cu., , w	
22	23.07	23.12	46.0	58.0	61	43	34.0	30	38.0	12	S	11	SW	12	....	....	0	0	
23	23.20	23.08	47.0	67.0	69	40	34.0	26	42.5	10	E	3	SW	24	....	....	0	Few cu., sw	
24	23.17	23.10	47.0	68.0	70	44	34.0	26	43.5	10	SE	4	S	14	....	....	0	3 a. s., sw	
25	23.20	23.10	52.0	67.0	70	46	38.5	31	43.0	11	E	4	S	14	....	....	0	Few cu., sw	
26	23.11	23.19	43.0	58.0	62	40	38.0	67	42.0	27	S	9	NW	10	T.	.01	6 s., sw	3 cu., w	
27	23.26	23.15	47.0	64.5	67	42	36.0	37	42.5	14	SE	4	W	5	....	....	1 ci. s., 0	4 s. cu., sw	
28	23.18	23.18	47.0	60.5	64	46	39.0	53	44.0	28	SW	7	NW	10	T.	....	1 s. cu., w	1 s. cu., nw	
29	23.34	23.33	47.0	71.2	72	42	40.5	61	46.7	14	E	1	SW	3	....	....	0	1 s. cu., nw	
30	23.50	23.42	47.0	65.0	72	44	39.0	53	47.5	29	N	1	NE	12	....	....	0	10 s., w	
31	23.46	23.23	46.0	68.5	71	43	38.0	52	47.0	20	NE	1	SW	10	0.02	....	0	7 s. cu., nw	—
Mn	23.23	23.15	45.7	62.2	65.9	42.5	37.2	49.0	43.0	21.7	SE	4.4	SW	10.2	.02	.15	1.7 s. cu., sw	3.2 s. cu., sw	

JUNE, 1903.

1	23.30	23.34	48.0	45.5	60	45	43.0	70	43.5	87	SE	12	NE	7	0.05	0.08	9 s., sw	10 n., w	—
2	23.35	23.33	43.0	58.0	66	43	42.5	96	45.0	39	S	6	N	4	.30	....	10 s., 0	10 s., nw	≡
3	23.35	23.33	50.0	57.5	68	48	45.0	71	47.5	52	E	1	NW	6	....	.01	1 ci., w	10 n., w	
4	23.36	23.31	51.0	66.5	70	47	45.0	66	48.0	28	E	4	N	6	T.	.01	2 ci. s., w	8 cu., 0	—
5	23.41	23.39	51.0	57.0	68	46	43.5	58	55.0	89	NE	3	E	12	.01	.04	8 ci. s., sw	10 n., 0	—
6	23.46	23.42	51.5	53.0	59	48	49.0	86	51.5	91	NE	2	NE	6	.10	.32	10 s., se	10 n., 0	
7	23.44	23.35	49.0	64.0	68	47	46.0	82	52.0	48	E	4	SW	7	.02	....	10 s., sw	6 cu., w	
8	23.39	23.31	50.0	60.0	65	46	47.5	85	52.0	62	SE	1	NW	10	.06	....	Few s. cu., se	4 a. cu., w	—
9	23.41	23.36	50.0	53.0	65	49	47.5	85	49.0	78	SW	2	W	12	.02	.02	10 s., sw	10 n. sw	—
10	23.39	23.42	48.0	52.0	63	46	43.5	73	47.0	72	NE	2	NW	8	T.	....	3 ci., w	10 s., nc	—
11	23.46	23.40	48.0	48.5	52	47	46.0	88	45.5	82	0	0	S	12	.09	.04	10 s., se	10 n., s	
12	23.37	23.26	45.0	51.0	54	45	44.5	97	45.0	66	W	2	SE	12	.34	.24	10 n., s	4 ci., s., sw	
13	23.24	23.16	43.0	56.0	61	42	42.5	96	50.0	69	SW	4	W	6	T.	....	10 s., 0	7 s., s	
14	23.20	23.22	49.0	49.0	64	47	47.5	91	48.0	94	SE	1	NE	5	.12	.94	10 n., sw	10 n., w	▲
15	23.26	23.27	50.0	55.0	69	45	48.0	88	52.5	86	E	1	E	8	.16	.24	Few s., nw	10 n., nw	▲
16	23.38	23.36	54.0	70.0	72	48	48.5	70	51.0	29	NE	1	SE	4	.04	....	0	2 s. s., w	
17	23.42	23.36	57.0	71.0	74	53	50.5	67	51.0	27	SE	3	NE	2	....	....	Few ci., w	3 a. s., w	
18	23.36	23.32	57.0	74.0	74	53	48.0	55	51.0	21	NE	2	NW	6	....	....	2 ci., w	1 a. s., w	
19	23.33	23.29	59.0	69.0	78	54	48.0	48	50.0	28	NE	7	NW	13	....	....	1 ci. cu., w	8 a. s., w	
20	23.31	23.22	57.5	73.0	76	54	47.0	50	50.0	20	E	1	NW	5	....	....	Few ci. s., w	5 cu., nw	—
21	23.26	23.19	56.0	77.0	81	55	45.5	48	51.0	16	SE	6	NW	7	....	....	0	2 ci., w	
22	23.31	23.22	60.0	75.0	77	54	49.0	49	50.5	18	SE	6	W	4	....	....	0	Few ci. s., w	
23	23.25	23.18	57.0	76.0	79	54	43.5	36	50.5	16	SE	4	W	10	....	....	2 a. s., sw	2 ci. s., w	
24	23.25	23.16	56.0	78.0	80	54	45.5	48	53.5	21	SE	4	W	4	....	.02	4 ci. s., w	4 cu., nw	
25	23.30	23.25	57.0	75.0	77	54	50.0	65	53.5	40	SE	5	SW	7	....	....	3 s. cu., se	Few cu., 0	
26	23.34	23.29	59.0	79.0	82	54	52.0	65	61.0	39	NE	1	SW	6	....	....	0	2 cu., nw	
27	23.37	23.27	63.0	82.0	86	59	54.0	59	61.0	33	E	6	N	6	....	....	2 ci., w	3 a. s., nw	
28	23.29	23.18	67.0	87.0	89	61	52.0	39	59.0	20	E	1	SW	6	....	....	1 ci., w	2 s. cu., w	
29	23.21	23.14	68.0	84.0	88	64	54.0	44	60.0	27	SE	4	SW	8	....	....	1 ci., w	2 ci., w	
30	23.25	23.21	64.0	83.0	85	59	47.0	30	55.0	17	SE	4	W	6	....	....	2 ci., w	0	
Mn	23.33	23.28	53.9	66.0	71.7	50.7	47.2	66.8	51.5	47.2	SE	3.3	NW	7.2	1.91	1.96	4.0 ci. s., w	5.5 n., w	

SANTA FE, N. MEX.

[φ=35° 41′ N; λ=105° 57′ W; barometer above sea, 7,013 feet; gravity correction applied, −.03]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	23.26	23.15	64.0	82.0	86	59	45.0	23	51.5	11	NE	6	SW	10			0	0	
2	23.16	23.08	60.0	82.0	84	56	46.5	39	56.5	22	E	4	W	6			0	0	
3	23.19	23.28	60.0	68.5	74	55	48.0	45	46.0	17	SW	1	NW	12			0	0	
4	23.43	23.37	52.0	73.0	75	46	36.5	22	49.0	17	N	4	S	6			0	0	
5	23.42	23.32	59.0	76.8	81	56	42.0	24	54.8	26	SE	11	S	10			0	8 cu., sw	☑
6	23.40	23.32	64.0	72.0	80	61	54.0	56	55.0	37	SE	6	S	16	T.	T.	1 s. cu., sw	8 cu., sw	☑
7	23.36	23.33	65.0	73.0	80	61	54.0	52	56.0	37	SE	3	SW	11		T.	2 s. cu., sw	7 s., sw	☑
8	23.39	23.35	67.0	74.5	84	63	55.0	50	56.0	34	E	4	SE	16		T.	3 s. cu., sw	7 s., se	
9	23.43	23.33	65.0	78.0	82	61	54.5	54	60.0	38	SE	4	NW	8			4 s. cu., sw	7 cu., 0	☑
10	23.42	23.33	65.0	82.0	84	60	54.0	52	60.0	30	SE	1	N	8			2 ci. cu., w	6 cu., w	☑
11	23.40	23.36	58.0	70.0	85	57	53.0	74	57.0	48	NE	6	N	16	0.16	T.	1 ci. cu., w	7 s. cu., nw	☑
12	23.41	23.38	66.0	72.5	82	62	55.0	53	59.5	50	NE	6	SE	15			1 ci., w	10 a. s., n	☑
13	23.49	23.37	61.5	78.0	81	62	56.5	76	56.0	27	SE	6	S	18			2 ci., w	4 ci., w	
14	23.44	23.32	61.5	80.0	83	58	53.0	60	58.0	29	NE	2	SW	6			Few ci. s., 0	3 ci. s., w	☑
15	23.39	23.30	68.0	81.0	85	62	53.0	55	61.0	34	SE	4	S	12			Few ci. s., 0	7 cu., 0	☑
16	23.36	23.28	61.0	75.0	78	60	54.0	67	58.0	39	E	5	W	4		T.	0	8 s. cu., sw	☑
17	23.32	23.28	56.0	74.0	77	54	51.5	76	57.0	38	NE	6	N	8	.06	T.	Few ci.cu., sw.	6 s. cu., sw	☑
18	23.43	23.38	54.0	75.5	79	52	51.5	86	54.5	28	E	1	S	6	.04	0.02	Few s. cu., s.	1 cu., s	☑
19	23.46	23.43	64.0	65.0	82	62	56.0	64	54.0	52	SE	6	SE	15		.04	Few ci. cu., w.	10 s. cu., ne	☑
20	23.48	23.42	59.5	75.9	83	58	52.0	64	55.0	30	SE	1	SE	12			Few ci., w	5 cu., 0	☑
21	23.48	23.40	63.0	81.0	83	61	51.0	47	57.0	24	E	5	S	4			Few a. s., 0	2 cu., 0	
22	23.46	23.39	67.0	71.0	87	62	52.5	41	62.0	63	NE	6	NE	14		.22	0	8 s. cu., s	☑
23	23.45	23.40	61.0	80.0	82	60	52.0	58	54.0	19	NE	2	E	11	.02		1 s. cu., se	0	
24	23.44	23.36	67.0	84.0	88	66	53.0	43	57.5	21	E	5	SE	8		T.	Few ci.cu., sw.	2 cu., s	
25	23.46	23.39	64.0	81.5	85	61	47.0	30	54.0	17	SE	4	SE	9			Few s. cu., 0	Few cu., e	
26	23.47	23.44	62.5	69.5	78	62	51.0	48	53.5	38	N	1	N	9		T.	1 s. cu., se	9 s., 0	☑
27	23.42	23.32	60.0	75.0	82	56	49.0	49	57.0	36	NE	6	NW	17			Few s., 0	9 s. cu., ne	☑
28	23.34	23.30	59.0	78.0	84	56	50.0	57	51.0	15	N	8	NW	18			2 a. cu., nw	9 s. cu., nw	☑
29	23.34	23.27	62.0	83.5	87	57	46.5	33	53.0	13	NE	2	NE	5			0	1 s. cu., sw	
30	23.33	23.24	64.0	84.0	87	63	47.5	32	52.0	10	SE	2	SW	9			4 a. s., sw	1 ci. s., w	
31	23.29	23.18	62.0	82.5	84	60	46.0	31	51.0	9	E	8	W	8			0	0	
Mn	23.39	23.33	61.8	76.7	82.3	59.0	50.7	50.4	55.4	29.3	SE	4.4	S	10.5	.28	.28	0.8 s. cu., sw	4.7 cu., sw	

AUGUST, 1903.

1	23.28	23.28	61.0	81.0	84	56	43.0	23	51.0	11	SE	3	SW	5			0	1 cu., 0	
2	23.39	23.38	67.0	68.0	82	63	50.0	33	52.0	37	E	12	S	19		T.	3 a. s., w	9 a. s., sw	☑
3	23.50	23.37	61.0	75.5	80	60	54.5	69	56.0	32	S	6	SE	6	0.01		2 s. cu., se,	1 ci. s., nw	☑
4	23.40	23.28	60.5	83.0	86	57	51.0	55	55.0	17	N	3	NW	4			0	Few cu., nw	
5	23.34	23.29	65.0	83.0	89	60	44.5	19	58.0	18	NE	6	SE	11			0	2 s. cu., 0	
6	23.44	23.43	66.0	77.0	82	65	51.5	40	55.0	26	E	1	SE	12			Few s. cu., sw.	2 ci., s	
7	23.50	23.40	62.0	69.0	82	61	51.0	50	54.0	41	N	4	E	14		T.	3 ci. s., w	9 s. cu., w	
8	23.41	23.29	59.0	74.0	80	58	49.5	55	55.0	32	SE	2	S	12			2 ci. cu., w	4 cu., w	☑
9	23.34	23.22	57.0	79.0	81	56	51.0	69	54.5	22	N	1	NW	2		T.	3 ci., nw	2 s. cu., nw	☑
10	23.34	23.29	61.0	74.0	81	61	51.0	54	56.0	35	S	6	SE	15			1 a. s., w	7 s. cu., nw	
11	23.39	23.31	62.0	72.0	78	62	53.0	59	55.0	37	SE	3	S	12	T.	T.	Few s. cu., 0	1 a. s., w	☑
12	23.37	23.26	58.5	70.5	81	57	50.5	61	56.5	46	E	4	NW	16		T.	Few s. cu., 0	9 s. cu., sw	☑
13	23.32	23.24	60.5	76.5	81	60	51.5	57	56.0	26	E	3	N	4	T.		Few ci. s., w	6 s. cu., nw	
14	23.33	23.35	61.0	68.0	82	61	49.0	46	56.0	47	E	2	SE	9		T.	3 ci. s., sw	8 s. cu., 0	
15	23.40	23.39	62.0	68.0	76	60	54.0	68	57.0	72	E	1	E	8		0.53	9 s. cu., sw	10 s., sw	☑
16	23.44	23.40	61.0	77.0	80	59	57.5	83	57.0	32	SE	1	SW	4			3 a. s., sw	1 cu., 0	
17	23.46	23.41	61.0	78.0	79	58	52.5	60	58.0	32	NE	2	SW	1		T.	0	4 ci. cu., w	
18	23.44	23.38	62.0	73.0	83	60	52.0	54	53.0	29	NE	3	E	4		T.	1 a. s., sw	2 a. cu., nw	☑
19	23.48	23.43	61.0	68.0	80	59	52.0	58	55.0	47	N	4	SE	10		T.	6 s. cu., nw	6 s. cu., n	☑
20	23.46	23.34	61.0	78.0	82	59	52.0	58	57.5	31	SE	5	SW	9			1 s. cu., sw	2 cu., nw	
21	23.39	23.29	61.0	81.5	84	60	51.5	56	57.0	24	SE	2	NW	2	.01		0	6 a. s., ne	☑
22	23.31	23.21	64.0	78.0	79	60	53.0	52	59.5	36	SE	2	SW	2		.56	3 s. cu., e	2 cu., se	☑
23	23.23	23.20	58.0	62.0	74	55	48.0	52	51.0	50	SE	4	E	9		.04	7 a. s., se	7 cu., s	☑
24	23.26	23.24	55.0	77.0	81	52	49.0	69	56.0	29	SE	4	W	4			1 a. s., nw	1 s. cu., 0	
25	23.30	23.29	61.0	65.0	73	60	53.0	62	57.5	66	N	1	NW	6		.01	9 s. cu., s	7 s. cu., sw	
26	23.34	23.27	58.5	72.5	77	58	57.0	92	56.0	38	SW	2	W	7			10 s., sw	2 a. s., sw	☑
27	23.32	23.29	54.0	75.0	78	54	47.5	65	49.0	14	NE	5	NW	16			0	0	
28	23.37	23.35	57.0	78.0	80	53	42.0	30	50.0	13	NE	4	W	4			0	0	
29	23.45	23.40	57.0	67.5	78	57	51.5	72	55.0	48	W	2	N	12		T.	1 a. s., nw	8 s. cu., sw	☑
30	23.41	23.36	56.0	75.0	80	56	50.0	69	56.0	33	NE	1	SE	6			1 ci. cu., w	4 s. cu., w	
31	23.46	23.42	59.0	70.5	78	59	50.0	57	54.6	37	SE	4	NE	4		.02	Few a. s., 0	6 s. cu., 0	☑
Mn	23.38	23.32	60.3	73.9	80.3	58.6	50.8	56.2	54.9	34.0	SE	3.3	SE	8.0	.02	1.16	2.2 s. cu., sw	4.2 s. cu., nw	

10676—05——10

SANTA FE, N. MEX.

[φ=35° 41′ N; λ=105° 57′ W; barometer above sea, 7,013 feet; gravity correction applied, −.03.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	23.47	23.38	59.4	74.0	79	59	49.4	53	54.0	29	E	4	S	6	....	T.	2 ci., nw	2 s. cu., 0	
2	23.43	23.37	59.0	72.5	81	58	47.5	46	56.0	38	SE	2	NE	4	0.02	T.	2 ci. s., w	8 s. cu., w	
3	23.38	23.32	58.0	73.0	78	58	51.0	65	57.0	40	SE	3	E	2	.01	0.02	Few ci., w	2 a. s., w	☐
4	23.38	23.36	58.5	74.0	82	57	50.5	61	51.5	22	NE	7	E	1	T.	.....	0	8 a. s., 0	
5	23.39	23.29	59.0	74.0	80	59	50.0	57	55.0	32	SE	3	SW	6	T.	.....	5 s. cu., sw	10 s., w	
6	23.31	23.16	55.0	71.0	73	54	52.0	84	50.0	24	NE	6	SW	8	.15	.....	10 s., s	7 s. cu., w	
7	23.22	23.20	54.0	68.0	73	51	48.0	68	50.0	30	N	8	W	8	.04	.....	9 s., sw	4 s. cu., w	
8	23.31	23.30	54.0	68.0	71	53	47.0	63	50.0	30	N	2	NW	4	.....	.....	3 ci. s., sw	9 a. s., w	
9	23.35	23.37	54.0	70.0	75	54	49.5	76	48.0	20	SE	2	NW	8	....	T.	7 a. s., sw	Few ci. s., w	
10	23.40	23.22	45.0	72.0	75	44	40.0	68	49.0	19	E	1	SW	8	.....	.....	0	0	
11	23.18	23.07	57.5	61.0	70	55	45.0	40	50.0	50	E	3	S	14	....	.05	7 s. cu., sw	7 a. s., w	
12	23.19	23.19	45.0	65.0	68	43	37.0	51	50.0	38	N	2	S	8	.....	.....	0	1 s. cu., sw	
13	23.24	23.17	53.0	70.0	73	49	44.0	52	47.5	18	SW	1	SW	10	.....	.....	2 s. cu., w	Few s. cu., sw	
14	23.22	23.16	55.0	67.0	71	52	43.5	43	47.0	23	S	6	SW	8	.....	.....	1 s. cu., sw	Few s. cu., sw	
15	23.31	23.29	44.0	61.5	64	44	36.0	50	45.5	30	SE	2	SW	5	.....	.....	Few s. cu., w	8 s. cu., sw	
16	23.44	23.46	37.5	58.5	62	37	36.0	89	40.5	20	S	2	S	6	T.	.....	1 s., nw	0	☐
17	23.49	23.39	38.0	63.0	68	38	30.0	42	43.0	19	NE	1	S	8	....	.....	3 ci., nw	0	☐
18	23.39	23.31	47.0	67.0	71	45	37.5	45	43.0	11	E	1	W	7	.....	.....	0	0	
19	23.35	23.30	42.0	67.5	72	42	30.5	27	44.0	18	E	1	N	6	.....	.....	0	Few a. s., w	
20	23.37	23.34	45.5	68.0	78	46	34.5	34	45.0	15	NE	6	SW	5	.....	.....	0	Few s. cu., 0	
21	23.41	23.44	55.0	52.0	66	50	41.0	32	49.0	83	SE	8	NE	4	T.	.04	7 s. cu., se	9 a. s., w	
22	23.44	23.42	49.0	58.0	67	49	44.0	71	50.0	61	NE	2	SW	1	T.	.....	8 s. cu., sw	10 s., sw	
23	23.46	23.45	59.0	59.0	67	49	45.0	36	48.5	50	NE	12	NE	5	....	.02	9 s., 0	6 s. cu., sw	
24	23.46	23.35	44.5	63.0	67	44	40.0	71	48.5	38	NE	1	NW	14	.....	.....	3 a. s., w	5 a. s., sw	
25	23.31	23.18	44.5	65.0	68	44	40.0	71	46.0	24	NE	4	NW	12	.....	.....	3 ci. s., w	Few s. cu., nw	
26	23.27	23.33	50.5	60.5	73	49	41.0	48	47.0	40	N	6	SE	12	.....	.....	0	Few s. cu., 0	
27	23.42	23.40	42.5	50.5	57	42	36.5	60	45.0	68	N	2	S	8	.....	.02	2 a. cu., w	10 n., s	
28	23.35	23.26	47.0	57.5	61	47	46.0	94	48.0	54	S	12	S	6	.10	.....	10 s., s	Few a. s., w	☐
29	23.26	23.22	44.5	56.5	60	44	42.5	87	45.5	46	S	1	SW	6	.08	.....	4 a. cu., w	5 a. cu., w	
30	23.29	23.27	44.0	58.0	65	43	39.0	68	46.0	43	N	4	SW	6	.....	.....	0	2 s. cu., s	
Mn.	23.35	23.30	50.0	64.8	70.3	48.6	42.5	58.4	48.3	34.3	NE	3.8	SW	6.9	.40	.15	3.3 s. cu., w	3.8 s. cu., w	

OCTOBER, 1903.

1	23.36	23.30	45.0	63.0	67	44	38.0	57	46.0	29	SE	2	S	14	0.02	.....	1 s. cu., se	Few s. cu., sw	
2	23.30	23.16	55.0	65.0	70	51	45.0	49	46.0	24	SE	8	S	27	.....	.....	0	9 s. cu., sw	
3	23.30	23.30	39.0	53.0	59	38	32.0	51	37.0	21	N	6	SW	5	.....	.....	0	Few s. cu., 0	☐
4	23.36	23.33	38.0	57.0	65	36	30.5	46	39.0	18	NE	6	S	4	.....	.....	0	0	☐
5	23.33	23.21	45.5	57.0	66	43	34.0	32	39.5	20	E	8	SW	4	.....	.....	0	2 ci., sw	☐
6	23.14	23.05	39.0	65.0	72	38	31.5	48	44.5	19	SE	2	W	6	.....	.....	0	1 ci. s., nw	☐
7	23.24	23.32	51.0	64.5	71	48	39.0	36	44.0	18	NW	4	SW	10	.....	.....	1 ci. s., 0	1 ci., w	
8	23.46	23.41	48.5	63.5	72	48	39.0	46	46.0	28	E	4	S	4	.....	.....	0	2 ci., w	
9	23.45	23.36	47.0	65.0	73	47	39.5	55	48.0	31	NE	1	SW	6	.....	.....	0	Few a. s., 0	
10	23.35	23.20	46.5	63.0	71	46	37.0	44	43.5	20	NE	3	SW	4	.....	.....	1 ci. s., sw	0	
11	23.12	23.21	40.5	52.0	59	40	31.5	49	38.0	28	NE	1	NW	6	....	T.	0	1 s. cu., nw	
12	23.37	23.35	35.0	51.0	58	34	30.0	60	38.0	32	E	3	SW	2	.....	.....	0	Few ci. s., nw	☐
13	23.36	23.29	34.5	50.0	55	33	31.5	76	38.0	35	E	2	S	4	.....	.....	0	3 s. cu., nw	☐
14	23.26	23.17	33.5	55.0	62	34	29.5	66	41.0	32	SE	1	SW	1	.....	.....	0	2 ci., w	☐
15	23.27	23.31	37.5	45.0	54	36	30.0	45	36.0	45	SE	1	SE	10	.....	.....	Few a. s., w	3 ci., nw	
16	23.36	23.36	32.0	53.0	65	31	27.0	56	39.0	29	NE	6	S	3	.....	.....	0	Few ci. s., nw	☐
17	23.54	23.54	38.6	54.0	62	38	32.0	53	39.0	26	NE	1	S	4	.....	.....	0	0	
18	23.55	23.46	38.5	58.0	66	38	30.0	40	41.0	23	E	1	W	2	.....	.....	0	0	
19	23.46	23.38	47.0	58.0	70	40	33.0	21	39.5	18	NE	3	S	2	.....	.....	0	0	
20	23.38	23.37	42.0	61.0	69	42	32.0	36	39.5	11	SE	1	E	14	.....	.....	0	0	
21	23.40	23.34	40.0	56.0	65	39	32.5	49	38.0	17	NE	1	SE	4	.....	.....	0	0	
22	23.46	23.50	41.0	55.0	68	39	33.5	50	38.5	22	N	3	SE	5	.....	.....	1 ci., e	0	
23	23.57	23.50	35.6	51.0	63	34	28.0	45	36.5	25	SE	1	S	3	.....	.....	0	0	
24	23.52	23.45	41.0	54.5	65	40	33.0	47	38.0	21	E	2	SE	2	.....	.....	0	0	
25	23.44	23.43	38.0	54.5	66	37	29.0	36	39.0	25	NE	4	SE	4	.....	.....	0	0	
26	23.48	23.46	45.0	53.5	62	43	33.0	28	38.0	23	E	6	SE	4	.....	.....	1 s., sw	2 s., sw	
27	23.47	23.35	41.0	54.0	62	40	32.5	44	38.0	22	SE	3	NW	4	.....	.....	0	0	
28	23.38	23.28	34.0	49.5	57	33	28.0	51	37.0	32	NE	1	W	2	.....	.....	1 ci., nw	8 ci., nw	☐
29	23.19	23.09	39.0	53.5	59	39	33.0	57	37.0	20	E	6	W	8	.....	.....	4 ci. cu., w	6 a. s., sw	
30	23.10	23.21	35.5	37.5	44	32	28.0	42	32.0	60	SW	1	N	12	.....	.....	3 ci. s., w	9 s. cu., n	
31	23.31	23.30	28.0	42.5	49	27	26.0	80	32.0	34	NE	6	NW	2	.....	.....	0	0	☐
Mn.	23.36	23.32	40.4	55.3	63.3	39.0	32.5	47.9	39.6	26.1	NE	3.2	S	5.9	.02	T.	0.4 ci. s., w	1.6 s. cu., ci., nw	

SANTA FE, N. MEX.

[φ=35° 41′ N; λ=105° 57′ W; barometer above sea, 7,013 feet; gravity correction applied, −.08.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	23.34	23.33	28.5	47.0	56	28	23.5	52	33.5	24	NE	6	S	4			0	Few ci. s., nw	
2	23.34	23.31	33.5	46.0	56	33	27.0	46	32.0	20	E	2	SW	2			0	0	
3	23.34	23.35	33.5	47.0	54	32	25.5	54	33.5	24	SE	2	SE	2			0	0	
4	23.41	23.39	33.5	47.0	59	33	26.5	42	34.0	26	E	2	SE	4			0	2 ci., nw	
5	23.38	23.32	36.0	48.5	57	35	29.0	46	35.0	26	SE	3	W	1			3 ci. s., nw	8 a. s., sw	
6	23.32	23.29	37.0	49.0	61	33	27.0	27	35.0	24	NE	8	E	1			2 ci. s., nw	0	
7	23.29	23.28	39.0	50.0	65	36	28.5	27	36.0	26	NE	10	SE	2			0	Few a. s., 0	
8	23.25	23.26	40.0	51.0	61	38	30.0	32	35.0	18	E	5	NW	4			Few a. s., 0	Few ci. s., 0	
9	23.32	23.27	40.5	42.0	51	38	30.5	33	31.0	30	N	7	SE	6			6 ci. s., sw	1 ci., w	
10	23.10	23.01	33.0	47.0	54	32	27.0	49	34.0	26	NE	2	NW	14			0	2 s., n	
11	23.19	23.11	30.0	40.0	46	28	21.0	20	29.0	20	N	16	S	6			0	1 a. s., w	
12	23.12	23.12	35.0	49.0	59	33	27.0	37	37.0	34	E	4	NW	2			0	Few ci. s., 0	
13	23.20	23.30	38.0	50.0	60	35	29.0	36	39.0	40	NE	5	SE	3			0	1 ci. s., nw	
14	23.37	23.31	39.0	49.0	62	37	30.5	41	36.5	31	SE	6	SW	2			0	0	
15	23.24	23.16	33.5	51.0	61	33	26.5	42	34.5	16	SE	3	NW	4			0	0	
16	23.18	23.17	31.0	43.0	51	29	25.5	51	30.0	20	SE	4	NW	6			0	0	
17	23.29	23.37	21.8	29.0	38	19	17.4	48	21.5	30	N	3	SE	5			0	0	
18	23.46	23.35	9.0	30.0	38	8	8.0	81	22.5	32	N	2	SW	2			1 ci. s., 0	2 ci. s., nw	
19	23.30	23.29	23.5	40.0	47	22	20.0	60	29.0	26	E	3	N	1			0	4 s. s., w	
20	23.35	23.38	30.5	46.0	54	30	25.5	54	34.0	30	N	8	NW	4			0	0	
21	23.45	23.43	38.5	46.0	56	36	30.5	43	34.0	30	NE	6	E	3			0	1 ci. s., w	
22	23.38	23.35	39.5	48.0	59	37	30.5	38	37.0	38	N	9	0	0			2 ci., w	0	
23	23.35	23.29	36.5	50.5	64	34	28.0	40	36.0	24	NE	1	SE	6			0	0	
24	23.26	23.31	38.5	49.0	55	36	31.0	47	36.5	31	SE	6	SE	5			1 ci. s., w	10 s. s., w	
25	23.40	23.40	33.0	42.0	52	32	28.5	62	32.0	36	NE	3	0	0			0	0	
26	23.44	23.44	33.0	44.0	55	30	27.0	49	35.0	44	NE	5	SE	2			0	0	
27	23.47	23.42	41.0	48.0	61	36	30.0	28	38.0	43	NE	9	E	4			0	0	
28	23.38	23.36	41.0	48.5	59	39	29.5	25	37.0	36	NE	7	SE	6			0	0	
29	23.29	23.22	33.5	42.5	57	33	29.5	66	33.5	42	SE	4	SE	5			0	Few ci. s., w	a
30	23.29	23.24	26.0	43.0	52	24	21.0	48	33.0	37	N	3	N	2			0	0	a
Mn	23.32	23.29	33.5	45.4	55.8	31.6	26.3	43.5	33.5	29.7	NE	5.1	SE	3.6	0	0	0.5 ci. s., w., nw	1.1 ci. s., w	

DECEMBER, 1903.

1	23.34	23.29	28.0	42.0	53	28	22.5	46	34.5	51	0	0	SE	6			0	0	
2	23.20	23.13	29.0	47.0	56	29	25.0	62	35.5	39	N	5	NW	5			0	1 ci. s., w	
3	23.17	23.19	36.0	31.0	43	28	29.0	46	26.0	55	SE	6	SE	12			2 s. s., sw	Few s., se	
4	23.32	23.37	22.0	21.0	28	14	19.0	64	18.0	63	SE	8	S	4		T.	2 s., s.	Few a. s., sw	*
5	23.42	23.46	10.0	26.0	33	8	8.6	74	21.0	48	N	4	NE	6			0	0	
6	23.49	23.35	20.0	32.5	40	15	14.8	36	23.5	25	NE	12	N	2			0	1 ci. s., w	
7	23.29	23.21	22.5	31.0	41	20	16.5	32	26.0	55	NE	8	SE	3			Few ci. s., sw	0	
8	23.26	23.31	16.0	29.0	37	16	12.0	43	24.0	52	NE	1	SE	2			Few s., 0	0	
9	23.28	23.27	21.0	33.0	46	20	17.0	52	25.5	38	N	9	SE	3			0	0	
10	23.25	23.23	21.0	32.5	44	20	16.5	46	23.5	25	E	2	SE	3			0	0	
11	23.10	23.89	26.5	37.0	44	25	20.5	39	27.5	30	SE	3	W	6			Few ci. s., sw	4 s., w	
12	23.04	23.22	21.0	30.0	39	20	16.0	40	25.0	54	SW	5	N	2	T.		0	0	*
13	23.28	23.25	20.0	32.5	42	20	15.5	44	26.0	44	NE	7	N	2			0	0	
14	23.32	23.45	24.0	33.5	40	20	20.0	56	26.5	42	N	6	NE	5			0	0	
15	23.45	23.37	22.0	34.0	44	19	18.0	58	26.0	35	NE	9	N	3			0	0	
16	23.34	23.27	27.0	32.0	46	24	21.5	45	26.5	52	NE	8	S	1			0	0	
17	23.26	23.20	27.0	34.0	49	20	20.5	35	26.5	39	NE	12	SE	4			0	0	
18	23.14	23.08	26.0	38.0	44	28	20.5	43	30.5	46	E	2	SW	5			2 ci. s., w	5 a. s., w	
19	23.14	23.32	29.0	30.5	36	24	25.5	66	24.0	42	NW	10	NW	14	0.02	T.	10 n., nw	0	*
20	23.39	23.27	23.0	31.1	44	22	18.5	49	23.5	34	NE	8	SE	2			0	1 ci., 0	
21	23.28	23.28	25.0	35.0	48	19	20.5	52	26.5	34	NE	6	S	1			0	Few ci. s., w	
22	23.26	23.19	28.0	40.0	48	28	22.0	42	32.0	45	SE	4	SE	3			1 a. s., w	3 ci. s., w	
23	23.10	23.08	25.0	29.0	38	21	19.0	37	23.5	48	SE	5	NW	2			0	0	
24	23.25	23.28	16.6	28.0	32	14	15.4	83	21.5	37	NE	4	E	2	.01		Few s. cu., sw	3 ci. cu., nw	*
25	23.40	23.46	13.8	30.5	37	12	10.6	51	26.5	64	N	9	SW	3			0	0	
26	23.51	23.46	25.5	34.0	43	22	21.0	52	26.5	39	NE	6	S	3			0	0	
27	23.41	23.39	26.0	35.0	49	25	21.0	57	26.5	34	N	7	SW	4			0	0	
28	23.35	23.37	24.0	37.0	49	22	19.0*	45	30.0	48	NE	10	S	7			0	1 ci. s., w	a
29	23.44	23.39	22.0	31.0	41	18	18.5	59	28.0	30	NE	8	NE	2			0	0	
30	23.42	23.39	27.0	36.0	51	24	20.0	31	26.0	25	NE	9	E	4			0	0	
31	23.29	23.16	25.0	33.0	47	23	18.2	29	26.5	45	NE	6	SE	2			0	3 ci. s., w	
Mn	23.30	23.28	23.5	33.1	42.9	29.7	18.8	48.7	26.1	42.5	NE	6.4	SE	4.0	.08	T.	0.5 ci. s., sw	0.7 ci. s., w	

PHOENIX, ARIZ.

[$\varphi = 33°28'$ N; $\lambda = 112°00'$ W; barometer above sea, 1,108 feet; gravity correction applied, −.03.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 p. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 p. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.80	28.82	40.1	55.0	61	39	38.1	84	45.0	44	E	8	W	3	.....	.....	0	Few s. cu., w	
2	28.90	28.96	36.6	56.9	62	31	34.5	82	47.9	51	W	2	W	2	.....	.....	0	Few a. s., w. (?)	
3	29.06	28.96	37.0	55.5	62	32	33.8	72	45.0	42	SE	5	W	2	.....	.....	0	Few a. s., 0(?)	
4	28.97	29.00	36.0	61.0	68	33	33.0	73	49.8	44	E	3	NE	2	.....	.....	0	1 ci. s., ne	
5	29.08	29.04	41.1	67.0	75	37	35.9	60	49.8	26	S	2	S	2	.....	.....	0	Few a. s., 0(?)	
6	29.08	28.97	47.1	68.8	76	42	40.0	53	50.2	24	E	4	SW	2	.....	.....	0	0	
7	28.98	28.90	44.2	64.5	72	37	38.2	57	50.0	34	SE	2	E	3	.....	.....	0	1 ci., 0. (?)	
8	28.92	28.80	41.0	61.4	68	37	37.6	74	49.2	40	E	2	W	2	.....	.....	0	2 a. s., w	
9	28.73	28.63	40.2	58.0	68	37	36.2	68	48.1	47	E	7	W	4	.....	.....	0	Few cu., e. (?)	
10	28.65	28.73	42.0	58.2	62	36	38.0	70	45.4	34	E	3	W	2	.....	.....	0	Few a. s., n	
11	28.85	28.84	37.6	55.9	62	33	34.7	75	46.2	47	E	2	SW	2	.....	.....	1 a. s., w. (?)	3 ci. s., nw	
12	28.96	28.92	41.1	62.8	68	37	36.0	61	48.1	31	W	2	E	4	.....	.....	1 a. s., sw	3 a. s., w	
13	28.85	28.76	46.4	60.9	67	41	36.9	37	47.6	35	NW	3	NE	3	.....	.....	5 a. s., w. (?)	10 a. s., e	
14	28.82	28.82	54.9	59.2	64	48	44.3	41	46.2	34	E	12	E	6	.....	.....	8 s. cu., n	6 a. s., se	
15	28.85	28.88	52.0	58.0	61	48	44.0	52	47.5	45	SE	3	E	6	.....	.....	10 s. cu., se. (?)	1 a. s., sw	
16	28.93	28.91	41.4	56.5	62	38	38.7	79	47.0	48	NE	3	N	5	.....	.....	3 a. s., w	9 a. s., w	
17	28.95	28.91	42.5	55.5	61	38	41.0	88	45.6	45	E	1	N	3	T.	.....	0	1 a. s., ne	
18	28.93	28.90	36.1	57.4	60	34	34.5	86	45.6	38	SE	4	W	4	.....	.....	3 a. s., w. (?)	1 a. s., w	
19	28.95	28.87	37.1	55.0	58	32	34.1	74	44.0	39	SE	3	SW	1	.....	.....	0	10 ci. s., n	
20	28.94	28.98	36.1	60.1	64	33	33.2	74	45.4	28	E	4	SW	2	.....	.....	0	1 ci. s., 0(?)	
21	29.04	28.93	37.5	60.2	67	34	34.0	70	46.2	31	SE	6	S	2	.....	.....	Few s. cu., se. (?)	1 a. s., nw	
22	28.93	28.90	40.0	62.6	67	37	35.5	64	48.1	32	E	5	W	2	.....	.....	2 a. s., w. (?)	Few ci. s., 0(?)	
23	29.00	28.93	38.0	60.0	64	37	34.5	71	48.2	41	E	3	NE	1	.....	.....	0	10 a. s., nw	
24	28.92	28.80	40.1	63.5	69	37	36.9	74	49.0	32	SE	3	NW	1	.....	.....	0	8 ci. s., nw	
25	28.71	28.61	42.0	58.7	61	41	37.3	64	49.7	68	SE	4	W	2	.....	T.	0	9 s. cu., w	
26	28.71	28.71	45.9	63.2	67	40	40.2	61	51.2	42	E	8	E	3	.....	.....	1 s. cu., e. (?)	7 a. s., w	
27	28.79	28.81	46.0	65.1	71	45	42.1	73	53.2	44	E	8	NW	2	.....	.....	1 a. s., w. (?)	0 a. s., w	
28	28.80	28.72	47.7	63.8	68	45	44.0	75	52.0	44	E	6	NW	3	.....	.....	4 a. s., nw. (?)	9 a. s., w	
29	28.82	28.87	54.0	64.0	69	49	47.5	62	49.8	34	NW	3	NW	4	.....	.....	10 s. cu., nw. (?	10 ci. s., 0(?)	
30	28.80	28.72	45.0	56.8	59	42	38.5	55	45.1	38	W	2	W	2	.....	.....	4 a. s., w. (?)	10 a. s., w	
31	28.71	28.65	45.8	59.5	65	40	38.0	47	45.1	28	NW	1	N	4	.....	.....	0	1 a. s., sw	
Mn	28.88	28.85	42.3	60.1	65.3	38.4	37.8	67.0	47.8	38.5	E	4.0	W	2.8	T.	T.	1.7 a. s., w	1.0 a. s., w	

FEBRUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 p. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 p. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.60	28.57	49.5	56.5	62	47	42.5	56	51.5	72	NE	2	E	3	.....	0.04	3 a. s., nw	8 s., e. (?)	
2	28.61	28.62	43.0	43.2	55	40	42.0	92	41.0	88	NW	3	SE	8	0.26	.09	10 n., nw	7 s. cu., w	
3	28.78	28.88	36.4	47.6	50	34	35.4	91	38.3	40	W	5	SW	3	.12	.....	0	Few s. cu., sw	
4	28.86	28.73	32.8	52.0	54	31	31.0	82	42.0	41	N	1	E	4	.....	.....	0	2 a. s., sw	
5	28.74	28.79	37.8	46.2	48	35	37.0	93	40.4	60	W	2	W	3	.05	.02	10 s., w	9 s. cu., sw	
6	28.86	28.94	32.0	44.4	47	30	31.2	92	36.8	47	W	2	W	2	T.	.....	0	3 s. cu., w	
7	29.08	29.06	30.0	46.7	50	27	29.0	89	38.2	44	SE	3	NE	3	.....	.....	0	Few a. s., 0	
8	28.95	28.89	32.0	41.7	46	31	31.0	90	39.2	81	SE	2	NE	2	.....	.04	3 s., se	10 s., ne	
9	28.94	28.97	33.0	52.1	54	29	32.5	95	42.6	44	NW	2	SW	2	.02	.....	0	0	
10	29.02	28.95	33.5	55.6	59	31	32.5	90	45.3	43	E	3	N	2	.....	.....	0	0	
11	28.91	28.70	37.0	61.9	67	36	36.0	91	50.4	44	E	4	SE	2	.....	.....	Few s., e	Few a. s., 0(?)	
12	28.58	28.52	44.5	60.5	65	41	40.8	73	47.5	36	E	8	W	5	.....	.....	8 a. cu., w	9 a. s., w	
13	28.55	28.60	37.0	52.5	56	37	30.5	45	40.0	28	NW	3	NW	3	.....	.....	4 s., nw	3 a. s., sw	
14	28.64	28.64	37.5	51.7	55	36	32.0	54	40.5	34	W	3	NW	4	.....	.....	10 s., sw	1 s. cu., w	
15	28.60	28.79	37.0	52.0	55	36	33.0	66	40.0	30	SW	6	SW	12	.....	.....	0	0	
16	28.97	28.98	34.0	51.7	55	30	28.5	49	38.4	23	NE	3	W	4	.....	.....	0	Few ci. s., 0(?)	
17	28.98	28.83	30.6	59.2	63	29	27.7	70	43.8	24	S	2	NW	4	.....	.....	0	3 ci., w	
18	28.86	28.86	35.0	67.5	71	32	31.0	64	49.0	22	SE	2	W	3	.....	.....	3 ci. s., sw	Few ci., w	
19	29.01	28.99	40.0	69.2	75	38	35.5	64	50.7	24	SE	3	NW	3	.....	.....	0	Few a. s., 0(?)	
20	29.04	28.99	40.0	70.0	74	37	36.0	68	50.3	21	SE	2	N	4	.....	.....	0	Few a. s., sw	
21	29.01	28.95	42.5	72.4	75	38	37.5	62	50.4	16	SE	2	W	2	.....	.....	0	Few ci., 0.	
22	29.03	28.92	47.0	70.5	73	46	39.0	47	51.7	24	NE	3	E	3	.....	.....	2 a. s., nw	10 a. s., 0(?)	
23	28.91	28.80	53.0	72.0	75	52	44.8	52	53.4	27	E	4	NW	5	.....	.....	10 s., e	3 ci. s., w	
24	28.78	28.60	44.3	68.0	72	40	40.0	69	49.0	21	E	3	NW	10	.....	.....	1 ci. s., sw	1 s. cu., sw	
25	28.64	28.58	39.2	64.0	67	39	35.1	67	47.0	28	SE	3	SW	6	.....	.....	0	Few s. cu., w	
26	28.61	28.64	45.5	59.2	65	43	39.0	56	46.2	34	E	9	NE	4	.....	T.	10 s., ne. (?)	4 s. cu., w	
27	28.75	28.73	36.8	62.8	64	35	35.0	84	45.1	19	E	2	SW	6	.....	.....	0	1 a. s., nw	
28	28.81	28.80	39.0	65.0	68	37	34.0	60	46.0	17	E	6	SW	2	.....	.....	0	3 a. s., w	
Mn	28.83	28.80	38.6	57.7	61.4	36.3	35.0	71.8	44.8	36.5	E	3.3	sw w nw	4.1	.45	.19	2.6 s., nw	2.8 a. s., w	

PHOENIX, ARIZ.

[φ=33° 28′ N; λ=112° 00′ W; barometer above sea, 1,106 feet; gravity correction applied, −.03.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R.H.	Wet.	R.H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	28.93	28.82	40.8	64.1	66	39	33.4	44	46.0	20	W	1	SE	5			0	2 s., cu. w	
2	28.83	28.74	48.3	69.3	74	37	36.1	48	51.3	25	SE	2	N	4			1 s., se	Few s. cu., w	
3	28.77	28.73	51.0	66.2	69	48	44.6	61	50.7	31	E	5	SE	3		T.	10 s., e	7 n., w	
4	28.82	28.75	49.0	66.2	70	48	45.0	74	54.4	46	E	4	NW	5	0.02		8 s., e	9 a.s., sw	
5	28.78	28.69	50.0	70.0	72	49	49.1	94	54.2	34	NE	3	W	7	.06		2 s., ne	1 cu., sw	
6	28.74	28.79	48.6	63.0	65	45	43.8	68	45.0	18	S	2	W	8			1 s., s	Few a.s., 0	
7	28.89	28.78	40.0	65.8	70	38	33.5	49	47.0	19	E	3	N	4			Few s., e	4 ci.s., w	
8	28.79	28.74	39.9	66.5	70	38	36.0	69	46.4	15	E	3	W	5			0	1 a.s., w	
9	28.82	28.90	45.2	65.4	68	43	38.0	51	50.4	32	E	4	N	6			Few s., e	1 s. cu., nw	
10	29.06	29.00	42.0	73.3	75	39	39.0	77	50.8	15	E	1	E	3			Few s., e	0	
11	29.02	28.91	46.4	78.0	80	46	38.9	49	52.4	12	NE	2	E	5			0	0	
12	28.91	28.77	52.8	79.3	84	46	41.2	33	54.0	14	E	7	N	3			Few s., e	4 ci.s., w	
13	28.74	28.63	53.0	76.1	83	51	42.2	38	54.0	20	E	5	NW	4			2 ci.s., e	10 a.s., w	
14	28.66	28.62	54.3	69.3	72	53	42.2	33	51.0	25	E	7	NW	4			6 s., nw	7 a.s., w	
15	28.70	28.68	44.4	70.4	75	41	37.6	53	52.2	26	E	4	NW	5			2 ci.s., se	Few cu., nw	
16	28.75	28.71	47.5	68.5	70	45	41.0	57	52.0	30	E	7	NE	3			Few ci.s., sc	5 ci.s., w	
17	28.68	28.64	45.5	57.2	63	41	39.0	56	44.2	32	E	5	NW	11		T.	9 s., e	8 s., sw	
18	28.74	28.76	36.8	63.0	65	36	30.8	49	44.5	16	E	6	W	10			0	0	
19	28.88	28.86	37.0	66.0	68	36	31.0	49	46.0	15	SE	5	SW	4			0	4 ci.s., w	
20	28.94	28.81	45.3	68.6	72	41	35.8	36	47.0	18	S	2	W	4			9 a.s., w	10 a.s., w	
21	28.80	28.66	47.0	73.8	76	4	38.8	46	50.0	13	NE	1	W	9			9 a. cu., w	1 ci.s., 0 (?)	
22	28.71	28.63	42.2	74.8	77	40	38.5	72	50.3	1[illegible]	SE	5	W	4			0	0	
23	28.69	28.61	44.8	77.5	80	41	35.0	34	51.4	1[illegible]	SE	3	N	2			0	0	
24	28.64	28.64	52.1	66.3	74	5[illegible]	39.5	28	55.3	4[illegible]	E	8	W	7		0.0	2 a.s., sw	10 s. cu., sw	
25	28.69	28.71	62.4	62.0	67	54	54.4	60	54.3	64	S	9	NE	2		.14	10 s., sw	10 a.s., s	☐
26	28.87	28.88	48.0	68.4	71	4[illegible]	46.5	90	55.0	42	E	3	S	2	.16		2 s., w	Few cu., sw	☐
27	28.94	28.89	51.6	73.4	79	4[illegible]	49.2	85	58.4	40	SE	4	NW	3			0	10 ci.s., nw	
28	28.88	28.75	54.8	82.0	86	5[illegible]	50.3	74	57.0	18	E	7	SE	2			5 a.s., w	8 ci.s., nw	
29	28.71	28.65	56.2	83.6	86	54	50.2	66	58.6	20	SE	4	NW	6			1 a.s., nw	5 ci.s., w	
30	28.72	28.78	62.5	78.5	82	62	56.0	66	61.0	36	E	3	SW	6			9 s., nw	8 a.s., w	
31	28.84	28.74	60.5	79.0	82	59	55.5	74	61.5	36	E	8	NE	3		T.	5 a. cu., w	8 a. cu., sw	
Mn	28.80	28.7[illegible]	48.2	7[illegible]	73.9	45.0	41.7	57.[illegible]	[illegible]1.[illegible]	25.6	E	4.3	W	4.[illegible]	.24	.18	2.9 s., e	4.3 ci.s., w	

APRIL, 190[illegible]

1	28.72	28.56	63.0	73.9	76	61	57.0	70	60.5	45	S	2	NE	3			9 a. cu., w	10 s. cu., w	
2	28.67	28.81	52.5	67.8	71	50	44.0	50	50.0	25	SW	8	W	12			1 s., sw	Few cu., w	
3	28.95	28.80	49.7	72.7	77	45	39.7	38	50.8	17	S	3	W	5			0	6 ci.s., w	
4	28.67	28.55	54.0	75.0	77	52	43.5	41	50.5	12	NW	1	NW	1			9 a. cu., w	10 a.s., w	
5	28.60	28.60	57.4	76.6	79	55	46.2	41	52.0	13	SE	2	W	7			1 s., se	1 a.s., sw	
6	28.71	28.70	51.4	77.8	80	50	41.8	43	52.0	11	E	5	W	3			Few s., e	0	
7	28.75	28.71	48.0	79.3	83	45	40.2	49	55.0	17	SW	2	N	3			0	0	
8	28.72	28.57	53.0	82.8	89	51	44.0	47	60.3	25	SE	2	NW	4		T.	0	2 cu., w	
9	28.68	28.64	60.7	73.2	77	59	50.0	46	54.0	25	W	2	W	10	T.		1 s., sw	Few cu., w	
10	28.78	28.69	51.6	70.5	72	50	45.0	60	54.0	32	E	5	N	3			5 a. cu., sw	1 cu., w	
11	28.72	28.67	50.0	71.3	75	50	45.5	71	53.8	29	SE	3	W	8			1 a.s., s	2 ci.s., w	
12	28.77	28.75	51.0	76.4	78	48	41.0	40	51.6	13	N	1	SW	6			Few a.s., sw	0	
13	28.77	28.61	48.0	77.0	79	46	39.0	42	51.0	10	NE	2	N	3			8 a.s., sw	2 s. cu., sw	
14	28.62	28.49	48.0	76.5	83	47	39.0	42	52.5	14	E	5	NW	7			0	6 ci.s., w	
15	28.60	28.62	50.5	72.5	75	49	42.0	48	53.2	24	E	3	N	3			Few a.s., sw	2 cu., sw	
16	28.74	28.58	52.0	78.0	80	51	44.0	52	56.0	22	E	6	S	4			0	0	
17	28.74	28.69	57.0	68.5	67	52	49.0	56	52.5	48	SE	3	W	18	T.	0.45	9 s., sw	8 s., sw	☐
18	28.78	28.74	48.3	70.5	72	47	46.5	88	51.0	22	E	3	W	2			Few s., e(?)	Few cu., w	
19	28.79	28.73	48.5	76.0	80	47	44.2	72	53.0	17	E	4	N	4			Few a.s., sw	Few ci.s., w	
20	28.84	28.81	53.4	76.6	78	52	45.0	51	53.5	17	NE	4	SW	2			5 a.s., sw	2 a.s., w	
21	28.84	28.73	48.2	84.3	87	46	42.5	62	55.8	11	SE	4	SW	4			0	0	
22	28.74	28.60	52.0	88.5	94	52	45.6	61	58.0	12	E	3	NW	2			0	7 ci.s., sw	
23	28.61	28.56	62.0	92.0	94	58	48.0	33	58.0	8	SE	4	NW	4			2 ci.s., sw	1 ci., sw	
24	28.72	28.66	61.2	89.5	92	59	46.7	30	59.0	12	E	8	NW	4			0	0	
25	28.75	28.60	58.3	89.0	92	57	47.0	41	60.5	16	E	5	NW	4			1 ci.s., nw	6 ci.s., w	
26	28.61	28.45	60.0	84.5	88	60	47.0	35	56.0	12	NE	5	W	9			Few a.s., sw	0	
27	28.49	28.45	64.8	76.8	83	53	43.2	36	53.6	17	E	8	NW	9			0	0	
28	28.59	28.67	54.8	76.1	78	53	44.3	42	51.0	12	E	4	W	9			5 s., sw	Few cu., w	
29	28.85	28.81	48.6	82.9	84	49	39.0	39	54.2	10	E	5	SW	8			0	1 ci.s., w	
30	28.88	28.74	55.1	87.5	91	54	43.2	35	56.5	10	E	6	W	5			0	0	
Mn	28.72	28.65	53.4	78.0	81.0	51.6	44.4	48.7	54.3	18.6	E	3.8	W	5.5	T.	.45	1.9 a.s., s., sw	2.3 cu., w	

PHOENIX, ARIZ.

[φ=33° 28′ N; λ=112° 00′ W: barometer above sea, 1,108 feet; gravity correction applied, −.03.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.75	28.67	58.0	89.5	91	56	45.0	33	58.0	10	E	5	N	3	.....	.....	1 a. s., sw	4 ci., sw	
2	28.74	28.66	57.9	87.5	89	56	43.4	26	57.0	10	E	6	NW	4	.....	.....	0	6 a. s., w	
3	28.73	28.63	62.0	84.7	90	59	45.0	21	58.0	16	E	10	W	8	.....	.....	9 s., sw	4 ci. s., s	
4	28.70	28.54	62.0	82.2	89	61	49.5	39	58.0	20	E	6	S	9	.....	.....	1 s., s	10 a. s., w	⊓⊿
5	28.68	28.59	62.0	83.0	88	60	52.5	53	59.4	22	SW	2	SE	2	T.	.....	8 s., w	4 a. s., w	
6	28.68	28.59	61.2	91.0	92	59	51.2	50	60.0	12	SE	5	W	3	.....	.....	0	Few ci., w	
7	28.65	28.54	63.6	91.0	94	59	48.7	31	60.5	14	SE	4	NW	6	.....	.....	0	1 cu., w	
8	28.63	28.50	64.2	88.1	93	63	50.0	34	60.4	17	NE	5	SW	8	.....	.....	4 a. s., s	3 cu., e	
9	28.63	28.54	68.2	86.4	90	67	52.2	31	59.2	17	SE	3	W	6	.....	.....	7 s., sw	7 a. s., n	
10	28.64	28.54	62.2	88.5	90	61	49.0	36	59.0	14	E	6	W	12	.....	.....	Few s., sw	Few cu., w	
11	28.67	28.59	63.8	92.2	94	63	50.3	37	61.6	14	E	8	SW	8	.....	.....	0	Few cu., w	
12	28.68	28.61	64.2	97.5	100	64	51.0	38	61.0	8	SE	3	NW	3	.....	.....	0	Few cu., 0	
13	28.67	28.54	66.5	99.5	103	66	52.5	38	63.5	10	SE	2	N	5	.....	.....	0	Few cu., nw	
14	28.56	28.50	71.0	89.2	94	70	58.0	27	62.0	19	E	8	W	7	.....	T.	7 a. s., s	9 n., sw	
15	28.59	28.51	75.2	87.5	89	72	59.5	39	62.0	22	E	4	SE	2	T.	T.	8 s. cu., s	4 ci. s., 0	⊓⊿
16	28.60	28.43	66.2	86.0	89	64	55.0	52	61.0	21	E	4	W	13	.....	.....	Few s., w	1 cu., w	
17	28.55	28.62	66.0	68.5	76	62	57.5	60	50.0	24	W	10	NW	14	.....	T.	9 s., s	4 s., w	
18	28.80	28.70	44.0	76.5	78	44	37.0	51	50.0	8	N	4	W	5	.....	.....	Few s., w	0	
19	28.68	28.54	50.8	83.0	86	48	39.0	30	54.5	10	SE	5	N	4	.....	.....	0	0	
20	28.57	28.49	56.0	80.5	87	56	45.0	40	55.0	15	E	5	W	17	.....	.....	0	1 ci. s., w	
21	28.66	28.59	57.0	76.0	77	56	46.0	41	52.2	15	E	3	W	12	.....	.....	1 ci. s., w	Few a. s., w	
22	28.73	28.68	52.0	74.5	76	52	43.2	47	50.5	12	W	3	NW	5	.....	.....	Few s., w	0	
23	28.68	28.54	52.0	81.0	84	51	39.5	28	54.5	13	E	5	W	12	.....	.....	0	0	
24	28.62	28.54	56.0	82.0	84	56	43.7	34	59.0	23	E	5	W	9	.....	.....	0	0	
25	28.65	28.59	55.3	77.2	83	55	43.0	33	56.0	23	E	4	W	12	.....	.....	Few s., e(?)	4 cu., sw	
26	28.81	28.71	57.5	84.0	86	57	49.2	55	57.0	15	E	8	NW	7	.....	.....	0	Few a. s., 0 (?)	
27	28.69	28.58	58.0	87.0	90	58	47.0	42	58.0	13	E	4	SW	9	.....	.....	Few s., w	Few a. s., w	
28	28.70	28.62	60.0	92.3	94	59	47.3	36	60.0	11	E	4	SW	6	.....	.....	0	0	
29	28.72	28.64	63.4	98.0	100	60	48.9	32	61.0	7	E	3	SW	6	.....	.....	0	1 ci. s., w	
30	28.71	28.58	68.9	101.0	106	64	51.4	27	64.5	11	E	2	N	2	.....	.....	2 ci. s., w	9 a. s., sw	
31	28.57	28.46	77.5	100.5	104	76	56.0	22	63.5	10	E	3	S	2	.....	.....	4 a. s., sw	7 a. s., se	
Mn	28.67	28.58	61.3	86.6	89.9	59.8	48.4	37.5	58.3	14.7	E	4.8	W	7.1	T.	T.	2.0 s., w	2.5 a. s., w	

JUNE, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.60	28.55	73.0	95.0	98	72	54.0	26	62.4	13	E	6	W	10	.....	.....	3 s., s	Few cu., w	
2	28.73	28.64	66.5	93.4	96	66	53.0	40	60.2	10	E	3	N	4	.....	.....	0	Few cu., 0 (?)	
3	28.74	28.62	64.7	93.0	95	64	52.2	42	61.2	12	E	7	W	6	.....	.....	0	Few ci. s., 0 (?)	
4	28.66	28.58	64.0	98.0	101	62	48.0	27	62.0	9	E	5	W	6	.....	.....	1 a. cu., sw	2 ci., w	
5	28.70	28.72	74.2	86.8	101	73	57.0	33	61.8	22	SE	4	E	19	.....	.....	Few s., se	10 s., ne	⊓⊿
6	28.82	28.70	70.5	92.8	99	69	58.0	46	65.0	20	E	5	NE	19	T.	.....	Few s., sw	3 cu., ne	
7	28.76	28.63	73.0	97.0	100	68	58.2	40	64.5	14	S	3	NW	8	.....	.....	Few a. cu., s	2 s., nw	
8	28.69	28.55	68.6	98.3	100	68	57.0	49	63.0	11	W	3	W	5	.....	.....	0	1 cu., w	
9	28.62	28.51	69.0	97.2	100	68	56.0	44	64.0	13	E	3	SW	3	.....	T.	2 a. cu., w	10 ci. s., w	⊓⊿
10	28.66	28.57	78.6	98.5	100	77	57.8	26	65.5	14	SE	5	SE	4	.....	.....	7 s., sw	5 ci. s., 0 (?)	
11	28.73	28.62	78.6	84.0	96	63	62.1	39	65.0	35	E	6	SE	16	.....	T.	7 a. cu., s	9 n., se	⊓⊿
12	28.70	28.55	67.5	89.0	91	67	63.2	79	66.0	28	NE	1	E	8	0.14	.....	5 a. s., s	4 cu., w	⊓⊿
13	28.63	28.49	70.5	94.8	97	70	62.0	62	65.2	18	E	8	N	5	.04	.....	Few s., s	3 cu., w	
14	28.58	28.46	70.6	98.7	100	69	58.6	49	63.4	11	E	6	W	6	.....	.....	0	1 cu., sw	
15	28.65	28.58	69.3	96.5	99	67	49.5	20	62.0	10	NE	6	NW	5	.....	.....	0	1 ci. s., 0 (?)	
16	28.75	28.66	65.0	96.2	100	64	51.0	36	62.7	12	E	3	NW	8	.....	.....	0	Few ci., w	
17	28.73	28.63	70.5	99.2	101	70	52.0	26	63.0	10	NW	1	NW	8	.....	.....	0	1 a. s., sw	
18	28.70	28.61	70.0	100.0	102	69	53.5	32	63.0	9	NE	3	W	4	.....	.....	2 ci. s., w	1 a. s., sw	⊕
19	28.67	28.56	70.0	99.0	102	68	50.5	21	61.0	6	NE	8	W	5	.....	.....	1 a. s., sw	Few a. s., 0 (?)	
20	28.62	28.53	69.3	100.5	103	69	50.0	21	61.0	5	E	8	NW	8	.....	.....	0	0	
21	28.62	28.52	69.0	102.0	103	68	49.5	20	63.0	7	E	11	NW	4	.....	.....	0	0	
22	28.61	28.53	69.8	99.0	101	68	51.0	24	62.0	8	E	2	W	8	.....	.....	0	Few a. s., 0 (?)	
23	28.62	28.53	70.0	99.4	101	69	52.0	26	64.0	11	NE	4	W	5	.....	.....	Few a. s., sw	1 ci. s., 0 (?)	
24	28.61	28.50	69.5	100.5	103	69	52.5	30	63.5	10	E	8	W	6	.....	.....	Few a. s., 0 (?)	Few ci. s., sw	
25	28.56	28.48	72.0	105.5	108	72	55.0	32	67.0	11	E	4	W	7	.....	.....	0	0	
26	28.62	28.58	76.0	107.5	109	75	55.5	24	65.5	7	E	4	W	6	.....	.....	0	1 ci. s., w	
27	28.70	28.58	75.0	107.8	110	71	56.0	28	66.5	7	NE	4	SW	8	.....	.....	0	Few ci. s., 0 (?)	
28	28.61	28.43	78.0	109.2	111	75	56.0	22	66.0	6	E	6	W	9	.....	.....	2 ci. s., sw	1 ci. s., se	
29	28.48	28.41	78.0	104.0	108	77	55.6	21	64.0	7	E	7	W	9	.....	.....	0	7 ci. s., w	
30	28.54	28.49	74.5	102.5	106	74	53.0	20	63.0	7	E	6	NW	6	.....	.....	0	0	
Mn	28.66	28.56	71.2	98.2	101.4	69.4	54.7	33.5	63.5	12.1	E	5.0	W	7.5	.18	T.	1.0 s., s	2.1 cu., w	

PHOENIX, ARIZ.

[φ=33° 28′ N; λ=112° 00′ W; barometer above sea, 1,108 feet; gravity correction applied, −.03.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.58	28.48	71.8	102.5	106	70	53.0	26	63.5	8	NE	3	NW	8			0	0	
2	28.54	28.42	71.3	100.0	103	71	53.3	27	66.0	14	NE	6	SW	14			0	0	
3	28.64	28.60	72.2	98.2	100	71	52.1	22	66.7	17	E	4	W	8			Few a. s., nw.	Few cu., w	
4	28.78	28.61	78.6	101.0	103	71	57.0	34	63.5	9	E	2	W	7			0	0	
5	28.65	28.51	71.0	106.0	108	70	52.0	24	66.0	9	E	4	NW	4			0	Few cu., e	
6	28.60	28.49	79.3	104.5	107	79	59.0	28	71.5	18	E	8	SW	14		0.04	Few s., e	3 cu., sw	
7	28.66	28.55	77.8	102.0	105	78	63.0	44	70.0	19	E	3	W	8			Few s., sw	Few cu., w	
8	28.67	28.53	76.4	104.0	106	75	57.0	28	69.0	15	N	2	W	7			Few s., 0 (?)	1 cu., w	
9	28.64	28.57	81.8	104.0	106	81	65.8	43	68.5	14	E	3	W	7			7 s., s	1 a. s., w	
10	28.71	28.61	88.0	103.4	105	84	69.0	38	71.4	20	SE	4	W	8			4 s., s	2 a. s., w	
11	28.72	28.56	83.8	105.5	108	83	67.0	43	70.5	16	SW	3	SW	10			5 s., se	3 ci. s., e	
12	28.67	28.54	80.0	105.2	108	80	63.2	39	68.2	13	E	4	SW	9			7 s., se	4 ci. s., w	
13	28.69	28.54	83.0	106.0	108	82	67.0	44	70.0	15	E	6	NW	4	T.		1 s., sw	1 cu., e	
14	28.73	28.63	83.8	99.5	102	82	68.8	47	71.5	25	NW	2	SE	6	T.		8 s., se	7 s., e	
15	28.77	28.73	78.5	85.0	86	71	70.5	68	73.0	56	SW	2	NW	6	T.	.52	10 s., se	8 a. s., e	
16	28.76	28.68	75.5	89.0	96	75	72.0	84	73.2	47	E	5	NW	8			1 s., se	0	
17	28.72	28.61	73.5	100.4	102	73	68.5	78	70.4	21	SE	2	NW	6			0	1 cu., w	
18	28.70	28.60	77.0	102.8	106	76	64.8	52	69.2	16	E	3	NW	5			0	1 cu., w	
19	28.71	28.58	79.0	104.6	107	77	59.0	29	68.0	13	W	4	NW	6			0	3 ci., sw	
20	28.71	28.70	84.1	92.0	97	84	69.2	47	71.0	35	E	4	S	7	T.	.02	9 s., e	10 a. s., e	
21	28.79	28.67	77.2	100.5	103	77	69.2	67	72.0	24	E	2	N	5	T.		1 ci., sw	3 a. s., s	
22	28.78	28.62	74.5	101.5	103	71	71.0	84	71.0	21	W	3	W	5	0.10		5 s., sw	3 a. s., sw	
23	28.76	28.77	79.0	83.6	88	77	70.0	64	69.3	49	E	4	W	4	T.	.02	10 s., sw	10 s. cu., se	
24	28.75	28.61	71.5	101.4	103	70	64.5	69	66.8	14	SW	2	NW	3			Few ci., s	4 a. s., e	
25	28.66	28.57	79.0	105.5	106	78	63.0	41	69.5	15	NE	2	NW	2			6 a. s., s	4 a. s., e	
26	28.72	28.63	80.3	104.0	106	79	67.1	51	68.0	14	NE	1	W	6	T.		4 a. cu., se	Few s. cu., w	
27	28.74	28.62	78.8	104.8	107	76	62.8	41	67.5	12	E	2	W	11			Few s., s	1 ci., sw	
28	28.69	28.59	79.4	105.0	107	78	61.5	35	67.0	11	NE	3	SW	9			Few s., ne	Few a. s., 0 (?)	
29	28.68	28.58	76.0	106.0	107	73	56.0	26	65.0	7	NE	2	W	5			0	1 ci., n	
30	28.64	28.54	75.0	106.4	108	73	57.0	31	66.0	8	SE	4	W	8			0	Few a. s., 0 (?)	
31	28.61	28.50	76.5	104.0	107	76	58.5	32	66.0	10	NE	5	W	10			2 a. s., nw	0	
Mn	28.69	28.59	77.7	101.2	103.7	76.2	63.0	44.7	68.7	18.9	E	3.3	W	7.1	.10	.60	2.6 s., se	2.5 a. s., w	

AUGUST, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.60	28.52	79.0	103.5	106	77	59.0	29	65.5	10	E	9	NW	4			0	Few cu. n., w	
2	28.62	28.54	76.3	105.2	108	75	59.0	35	68.8	14	E	4	NW	8			0	0	
3	28.73	28.62	74.0	102.0	105	72	56.5	32	72.5	23	E	3	NW	5			0	Few cu., w	
4	28.71	28.56	82.0	103.0	105	81	63.0	34	70.0	18	W	4	SW	8			1 s., sw	1 cu. n., e	
5	28.68	28.53	82.5	104.0	105	82	66.0	42	71.0	18	W	4	W	8			1 s., sw	1 cu. n., e	
6	28.68	28.62	83.5	101.5	103	79	69.0	48	71.5	22	W	5	W	8			2 a. cu., se	1 s. cu., nw	
7	28.83	28.73	76.0	94.4	97	73	74.0	91	74.0	38	NE	2	W	6	0.24		2 a. s., se	4 cu. n., e	
8	28.77	28.58	75.5	98.5	101	67	69.0	72	72.0	27	N	4	S	5	T.		6 a. s., nw	4 a. s., e	
9	28.67	28.55	76.0	95.4	97	72	70.2	75	73.0	34	E	2	W	8	.26		8 s., nw	1 s. cu., w	
10	28.75	28.64	72.0	94.6	96	72	68.5	84	70.2	29	E	2	W	4			3 ci. s., w	1 cu. n., 0 (?)	
11	28.75	28.63	80.4	97.0	98	79	71.4	64	72.0	30	E	4	SW	7			8 a. cu., s	2 cu. n., 0 (?)	
12	28.69	28.56	78.0	100.4	103	76	68.0	60	71.0	22	NE	2	SW	5			1 a. s., ne	2 a. s., w	
13	28.64	28.54	80.5	100.3	103	80	66.5	48	71.0	23	E	6	W	8			2 ci. s., w	3 cu., w	
14	28.66	28.55	81.8	100.2	103	81	65.8	43	71.2	23	E	5	E	3			1 a. s., sw	5 ci. s., e	
15	28.63	28.54	81.7	102.5	104	81	67.5	48	71.5	20	E	2	NW	4			1 ci. s., sw	2 cu., sw	
16	28.64	28.53	84.0	105.8	107	83	69.0	47	73.0	19	E	4	SE	4			Few s., sw	4 ci. s., 0 (?)	
17	28.65	28.59	82.4	105.5	108	82	69.0	51	73.0	20	SE	3	E	4			Few s., se	3 a. s., w	
18	28.70	28.57	84.2	103.5	105	83	71.7	55	72.5	22	E	2	NW	5			7 a. cu., sw	7 a. s., sw	
19	28.64	28.54	84.7	106.8	109	84	69.0	45	73.0	19	E	3	S	2			5 a. cu., e	2 cu. n., e	
20	28.65	28.54	86.2	108.0	111	80	70.2	45	70.0	13	NE	8	SW	4	.10		2 a. s., ne	2 cu., e	
21	28.63	28.50	82.0	100.4	109	81	69.0	52	72.0	24	E	2	W	13			Few s., e	3 ci. s., 0 (?)	
22	28.55	28.37	82.0	107.0	109	80	67.2	47	70.0	14	NE	3	W	10			2 a. cu., ne	5 ci. s., sc	
23	28.49	28.40	81.5	101.0	104	80	67.0	47	71.5	22	E	4	W	8	T.		4 a. cu., w	3 cu., sw	
24	28.52	28.44	80.2	101.5	104	79	64.0	41	69.0	18	E	2	NW	5			1 a. s., sw	1 cu., e	
25	28.61	28.60	82.0	90.2	93	80	67.0	46	70.2	37	N	1	E	7		T.	9 s., s	8 s. cu., s	
26	28.70	28.61	77.8	96.5	98	76	66.0	54	71.5	29	E	4	W	5			3 a. s., sw	1 cu., w	
27	28.74	28.62	80.0	97.3	100	78	68.0	54	70.5	26	E	1	W	5			2 a. cu., sw	Few a. s., 0	
28	28.72	28.63	82.0	97.4	100	80	71.2	59	72.8	30	E	2	W	6			8 a. s., sw	2 a. s., se	
29	28.79	28.64	77.2	98.0	101	74	68.0	62	72.5	29	SE	12	N	3	.02	0.08	10 s., se	1 cu. n., w	
30	28.69	28.59	76.0	102.0	105	76	64.0	52	70.5	20	N	2	W	5			Few s., n	1 cu. n., 0 (?)	
31	28.68	28.59	82.0	103.4	106	80	67.0	46	72.2	21	E	4	W	5			2 a. cu., e	4 ci., w	
Mn	28.67	28.56	80.1	100.9	103.3	78.2	67.1	51.9	71.3	23.0	E	3.7	W	5.9	.62	.08	2.9 s., sw	2.4 cu. n., e., w	

PHOENIX, ARIZ.

[φ=33° 28′ N; λ=112° 00′ W; barometer above sea, 1,108 feet; gravity correction applied, −.03.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.71	28.58	82.0	102.3	105	80	70.0	55	72.3	22	SE	1	E	6	T.	.....	9 s., se	3 cu. n., sw	
2	28.67	28.59	83.0	104.8	108	80	70.0	52	67.4	12	SW	3	NE	1	T.	.....	3 a. s., w	3 ci. s., w	
3	28.65	28.54	78.0	106.0	109	75	60.0	34	68.5	12	SE	6	NW	3	.....	.....	0	2 ci. s., 0 (?)	
4	28.59	28.52	81.0	105.0	109	77	61.0	30	69.5	15	E	10	W	5	.....	.....	Few ci. s., sw.	5 cu., e	
5	28.65	28.63	84.0	81.5	97	73	68.0	44	70.0	56	NE	4	E	3	T.	0.23	5 s., w	10 s., sw	
6	28.70	28.54	71.0	87.4	94	71	68.0	86	74.4	55	E	5	SE	16	0.06	.04	5 a. cu., sw	5 s., sw	
7	28.62	28.56	74.0	94.0	97	73	70.5	84	73.5	38	E	3	SW	3	.....	.....	1 s., e	5 cu., w	
8	28.71	28.67	78.0	93.0	96	77	70.2	68	73.0	38	E	2	NW	4	.....	.....	5 a. s., sw	6 ci. s., sw	
9	28.79	28.71	79.3	95.5	98	77	69.0	60	71.5	30	W	3	SW	8	.....	.....	4 a. s., sw	4 a. s., w	
10	28.72	28.52	76.2	99.2	101	75	66.0	58	67.5	18	E	2	SW	5	.....	.....	Few ci. s., w	3 a. s., w	
11	28.52	28.42	76.6	92.5	96	76	65.0	54	70.0	32	NE	4	SW	16	.....	.....	Few a. cu., sw.	3 cu., sw	
12	28.60	28.52	72.2	91.1	95	71	64.0	64	67.1	28	E	4	SW	12	.....	.....	Few s., e	1 cu., sw	
13	28.61	28.55	66.0	90.4	93	65	55.0	49	65.5	25	NE	5	SW	10	.....	.....	0	Few cu., sw	
14	28.64	28.66	67.8	85.5	88	64	56.0	48	56.5	12	NE	4	W	7	.....	.....	Few s., ne	0	
15	28.77	28.75	60.0	86.4	89	59	47.6	38	57.2	12	E	5	SW	5	.....	.....	0	0	
16	28.89	28.82	61.5	90.0	95	59	48.1	35	57.5	9	W	2	SW	5	.....	.....	0	0	
17	28.85	28.74	58.6	93.0	98	57	46.0	35	60.0	10	E	3	N	3	.....	.....	0	0	
18	28.79	28.70	63.0	93.8	98	62	48.5	32	60.0	9	E	5	NW	2	.....	.....	0	Few a. s., nw	
19	28.73	28.63	69.0	93.3	98	67	50.0	22	62.8	15	E	7	NW	4	.....	.....	Few s., e	1 s. cu., w	
20	28.74	28.64	70.0	94.0	97	67	55.0	37	63.0	15	E	6	N	3	.....	.....	Few s., e	1 a. s., ne	
21	28.72	28.73	72.0	88.4	96	71	57.0	39	63.0	22	E	3	S	16	.....	.....	3 a. s., se	5 a. s., sw	
22	28.80	28.81	73.0	80.0	81	71	61.0	50	64.0	41	E	4	E	4	T.	T.	8 s., s	8 a. s., e	
23	28.81	28.69	65.6	89.3	94	64	58.2	64	66.3	29	SE	1	N	4	.....	.....	5 a. cu., se	3 cu., s	
24	28.74	28.61	68.7	94.2	98	66	57.7	51	65.8	20	S	3	W	3	.....	.....	4 a. cu., s	3 cu. n., se	
25	28.68	28.59	70.2	84.8	96	67	60.0	55	64.8	33	E	5	SE	16	.....	.....	1 cu. n., e	7 s., sw	
26	28.70	28.60	66.0	92.2	96	65	61.2	77	66.0	24	SE	2	NW	2	.04	.....	4 a. s., s	3 a. s., sw	
27	28.76	28.69	64.4	74.5	86	63	63.9	97	69.5	78	SW	5	E	4	.62	.84	10 n., sw	7 s. cu., sw	
28	28.76	28.76	63.0	72.0	75	59	61.0	90	62.0	57	E	4	E	1	.88	.43	10 s., e	6 a. s., w	
29	28.78	28.72	60.4	78.0	81	59	59.0	92	65.0	50	E	3	W	2	.....	.....	4 a. cu., sw	Few cu., w	
30	28.74	28.70	65.0	70.3	84	64	62.4	87	63.0	67	E	2	N	8	.....	.02	8 a. cu., sw	4 s. cu., w	
Mn	28.71	28.64	70.6	90.1	94.9	68.5	60.3	56.2	65.9	29.5	E	3.9	SW	6.0	1.60	1.56	3.0 s., e., sw	3.2 a. s., sw	

OCTOBER, 1903.

1	28.74	28.65	61.0	79.8	86	60	58.5	86	62.0	37	NE	6	S	5	0.18	.....	3 s. cu., s	2 s. cu., s	
2	28.75	28.82	62.1	71.5	75	60	58.1	79	54.0	30	E	4	W	4	.....	0.04	9 s. cu., sw	Few s., w	
3	28.84	28.82	50.0	74.5	78	49	48.0	87	54.0	22	E	2	SW	3	.....	.....	Few s. cu., 0 (?)	0	
4	28.82	28.74	54.0	79.9	83	52	49.5	73	58.0	24	E	3	W	4	.....	.....	0	0	
5	28.72	28.63	55.8	81.8	86	54	50.8	71	60.5	27	E	4	W	3	.....	.....	0	Few a. s., 0 (?)	
6	28.65	28.61	57.3	82.0	86	55	50.3	61	61.0	28	E	6	NW	2	.....	.....	0	1 ci. s., 0 (?)	
7	28.72	28.70	57.0	84.0	90	56	51.0	66	62.0	27	E	3	W	2	.....	.....	6 ci. s., ne	Few ci. s., 0 (?)	Φ
8	28.84	28.75	60.0	87.0	95	56	53.0	63	65.1	30	NE	2	W	3	.....	.....	0	Few a. s., 0 (?)	
9	28.84	28.76	61.0	85.0	91	59	54.0	64	62.7	27	E	5	NW	3	.....	.....	0	3 ci. s., w	
10	28.80	28.66	60.0	83.1	89	58	52.0	58	61.8	28	NE	5	NW	3	.....	.....	Few s. cu., 0 (?)	0	
11	28.67	28.64	59.0	82.8	89	54	52.0	63	60.8	26	E	4	SW	4	.....	.....	Few s. cu., 0 (?)	1 ci., n	
12	28.76	28.74	67.2	86.0	92	61	50.2	27	58.0	14	W	4	S	2	.....	.....	Few ci. s., 0 (?)	Few ci. s., 0 (?)	
13	28.79	28.67	59.0	85.1	90	56	51.0	58	59.0	18	E	3	SW	4	.....	.....	5 ci., se	Few ci. s., w	Φ
14	28.71	28.65	59.7	84.8	88	55	50.0	50	61.0	23	E	3	W	2	.....	.....	0	0	
15	28.74	28.66	56.0	84.4	90	55	48.0	55	60.6	28	E	4	W	4	.....	.....	0	0	
16	28.76	28.70	60.5	85.4	90	55	50.5	50	57.0	13	NE	2	E	2	.....	.....	Few s. cu., 0 (?)	0	
17	28.81	28.82	63.3	86.0	91	56	49.3	34	58.2	15	E	6	E	6	.....	.....	0	0	
18	28.94	28.85	72.0	85.0	91	66	52.5	23	59.5	19	NE	7	NE	2	.....	.....	0	0	
19	28.91	28.76	62.0	83.3	91	57	48.5	35	59.7	22	E	3	W	4	.....	.....	0	0	
20	28.79	28.69	54.0	83.2	92	54	46.0	54	60.1	24	NE	3	W	2	.....	.....	0	0	
21	28.73	28.67	59.5	86.0	94	54	48.0	42	59.5	18	E	3	SW	2	.....	.....	0	0	
22	28.80	28.80	59.0	84.8	94	55	48.0	43	60.0	21	NE	4	SW	4	.....	.....	0	0	
23	28.98	28.90	60.0	81.0	87	57	47.0	35	56.2	17	E	4	E	2	.....	.....	0	0	
24	28.96	28.86	55.0	81.5	88	54	48.0	60	57.0	18	S	3	N	3	.....	.....	0	0	
25	28.88	28.83	56.0	78.7	88	53	46.0	45	58.0	26	NE	3	NW	3	.....	.....	0	0	
26	28.89	28.88	53.5	80.2	88	50	44.5	48	58.6	25	E	6	W	1	.....	.....	0	0	
27	28.96	28.87	52.8	80.0	87	50	44.8	53	57.2	21	E	2	SW	2	.....	.....	0	0	
28	28.89	28.75	50.5	79.0	84	49	43.5	56	55.3	18	E	4	SW	1	.....	.....	0	Few ci. s., w	
29	28.73	28.64	52.0	76.2	83	51	43.5	49	55.2	23	E	3	W	2	.....	.....	7 ci. s., w	Few a. s., w	
30	28.72	28.76	47.0	71.7	80	46	42.0	66	48.0	10	NE	1	N	6	.....	.....	0	0	
31	28.90	28.83	47.0	71.0	78	44	38.0	41	50.5	19	NE	3	W	4	.....	.....	0	3 ci. s., w	
Mn	28.81	28.74	57.5	81.4	87.5	54.5	48.9	54.7	58.4	22.4	E	3.7	W	3.0	.18	.04	1.0 s. cu., ne., se., s., sw., w.	0.3 ci. s., w	

PHOENIX, ARIZ.

[φ=33° 28′ N; λ=112° 00′ W; barometer above sea, 1,108 feet; gravity correction applied, .08.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	28.88	28.80	45.0	69.1	74	42	41.0	71	50.1	22	E	3	NW	2	.....	.....	3 s. cu., ne	9 a. s., w	
2	28.81	28.79	52.5	74.5	80	50	44.0	50	53.0	20	E	3	W	2	.....	.....	7 a. s., ne	Few s., w	
3	28.84	28.85	47.0	74.2	81	46	40.0	54	52.8	20	E	6	W	3	.....	.....	0	Few s., w	
4	28.93	28.83	47.5	73.8	82	44	40.0	50	53.3	22	E	4	NW	2	.....	.....	Few ci. s., 0 (?)	7 ci. s., w	
5	28.86	28.77	48.8	72.7	78	45	41.3	52	52.5	22	E	3	NW	2	.....	.....	9 ci. s., w	7 ci. s., nw	
6	28.78	28.70	51.0	76.0	84	48	41.0	40	52.1	14	E	3	NW	2	.....	.....	2 ci., w	0	
7	28.76	28.68	51.0	75.0	84	49	43.0	51	54.0	22	E	4	W	4	.....	.....	0	8 ci. s., sw	
8	28.75	28.78	55.5	70.3	76	51	46.0	48	56.0	40	E	4	W	4	.....	.....	0	7 ci., nw	
9	28.88	28.72	51.0	72.5	80	49	47.0	75	56.0	34	E	2	W	2	.....	.....	9 ci. s., w	0	
10	28.74	28.72	46.0	68.3	74	46	42.0	72	51.6	30	E	3	W	4	.....	.....	0	1 ci. s., nw	
11	28.87	28.77	48.0	67.4	74	46	42.0	60	55.0	45	SE	2	NW	3	.....	.....	5 ci. s., w	5 ci. s., nw	
12	28.77	28.70	51.0	70.4	77	50	43.0	51	55.0	36	E	3	N	2	.....	.....	6 ci. s., w	Few a. s., w	
13	28.80	28.79	49.0	73.5	82	49	44.0	67	55.0	28	E	4	NE	3	.....	.....	0	Few a. s., 0 (?)	
14	28.89	28.82	47.8	74.0	82	47	41.3	57	55.0	27	E	4	W	2	.....	.....	0	0	
15	28.83	28.76	48.0	72.0	78	46	41.0	54	53.0	25	E	4	SW	2	.....	.....	0	Few a. s., w	
16	28.85	28.80	45.0	68.5	74	44	42.0	79	52.5	32	E	3	W	2	.....	.....	0	0	
17	28.88	28.81	41.0	67.8	76	40	37.0	69	48.0	18	NE	3	SW	3	.....	.....	0	0	
18	28.84	28.79	51.8	67.2	74	46	43.3	49	47.3	17	W	1	E	4	.....	.....	2 ci. s., w	6 ci. s., w	
19	28.87	28.87	49.0	66.0	74	46	40.0	43	48.0	22	E	4	W	6	.....	.....	2 s., e	4 a. s., nw	
20	28.96	28.94	47.0	70.0	79	41	39.0	47	50.8	22	E	2	N	2	.....	.....	Few s., 0 (?)	Few a. s., nw	
21	29.00	28.89	43.5	72.3	78	43	38.0	60	52.0	21	E	3	W	2	.....	.....	Few s. cu., 0 (?)	0	
22	28.87	28.77	48.0	74.6	81	44	39.0	42	55.0	25	E	5	W	2	.....	.....	0	0	
23	28.82	28.73	48.2	75.0	84	47	42.2	60	54.0	22	E	2	NW	1	.....	.....	0	1 ci. s., w	
24	28.80	28.81	50.5	68.2	77	49	43.0	54	52.6	33	E	4	NW	2	.....	.....	4 s., e	9 a. s., w	
25	28.86	28.84	52.0	71.0	78	49	44.0	52	54.0	31	E	2	W	2	.....	.....	9 ci. s., w	1 a. s., w	
26	28.91	28.88	51.0	76.2	83	44	43.0	51	54.8	22	NE	2	N	2	.....	.....	Few ci. s., 0 (?)	0	
27	28.95	28.86	56.0	74.1	86	47	44.0	35	54.0	24	E	2	NW	3	.....	.....	0	0	
28	28.89	28.79	46.0	72.0	79	42	38.0	46	52.0	22	NE	3	W	2	.....	.....	0	0	
29	28.85	28.72	45.0	69.4	77	42	38.0	52	52.0	28	E	4	W	2	.....	.....	0	Few a. s., 0 (?)	
30	28.84	28.82	44.5	71.0	78	44	39.0	61	50.2	18	E	3	W	2	.....	.....	Few s. cu., 0 (?)	0	
Mn.	28.85	28.79	48.6	71.6	78.8	45.9	41.5	55.1	52.7	25.5	E	3.2	W	2.5	0	0	1.9 ci. s., w	2.2 a. s., w	

DECEMBER, 1903.

1	28.92	28.84	43.8	67.4	76	41	36.0	45	51.2	30	E	7	N	3	.....	.....	0	0	
2	28.83	28.73	42.0	66.5	74	41	34.5	45	50.0	28	NE	5	NW	2	.....	.....	0	1 a. s., sw	
3	28.72	28.70	48.5	66.0	73	41	38.0	34	49.0	26	E	2	W	1	.....	.....	3 a. s., w	1 a. s., w	
4	28.90	28.89	46.5	58.4	66	40	33.5	16	40.2	10	N	4	N	9	.....	.....	0	0	
5	29.00	28.98	36.5	60.6	66	35	28.5	32	44.3	22	N	2	NE	4	.....	.....	1 a. s., nw	6 a. cu., sw	
6	29.09	29.01	57.2	61.3	65	51	42.0	22	47.2	32	NE	8	NE	5	T.	T.	10 n., ne.	10 s., ne	
7	29.00	28.91	49.5	61.0	67	49	48.0	96	54.2	65	W	3	SE	10	14	.....	10 s., w	1 ci. s., w	
8	28.94	28.93	46.0	61.8	69	41	45.5	96	50.2	43	NE	3	W	2	.....	.....	Few s., ne	0	
9	28.96	28.86	40.5	59.4	69	36	36.2	66	45.0	28	E	4	W	3	.....	.....	0	0	
10	28.87	28.76	37.0	61.5	67	35	32.2	60	47.0	30	NE	4	SW	3	.....	.....	0	0	
11	28.68	28.62	41.0	60.2	64	34	35.8	60	48.0	39	SE	5	SE	2	.....	.....	Few s., se	4 a. cu., n	
12	28.85	28.92	41.4	57.6	64	40	39.5	85	49.8	58	E	8	NW	2	.....	.....	0	4 ci. s., 0 (?)	
13	28.97	28.92	40.0	58.5	65	38	38.0	84	48.0	45	E	2	SW	1	.....	.....	0	4 ci. s., 0 (?)	
14	29.01	29.00	36.2	63.5	70	35	34.1	81	47.9	24	E	4	W	2	.....	.....	0	0	
15	29.04	28.91	50.0	65.0	71	44	38.0	28	45.2	14	E	2	E	4	.....	.....	0	Few ci., 0 (?)	
16	28.92	28.80	43.3	66.0	72	38	35.0	41	47.2	19	SE	2	0	0	.....	.....	0	Few ci. s., w	
17	28.82	28.71	43.8	67.2	74	39	35.0	38	49.4	24	NE	4	S	3	.....	.....	0	1 a. s., w	
18	28.78	28.79	42.4	58.2	65	34	36.0	52	46.2	38	E	4	W	4	.....	.....	0	3 a. s., w	
19	29.00	29.10	37.2	57.2	64	34	33.0	65	46.0	40	NW	2	SE	2	.....	.....	0	4 ci., sw	
20	29.02	28.86	42.1	59.5	64	37	36.2	56	43.0	20	N	4	SW	2	.....	.....	8 s., n	2 a. s., sw	
21	28.86	28.81	35.7	62.0	69	35	29.2	42	45.0	21	NE	5	NW	1	.....	.....	Few a. s., 0 (?)	8 a. s., sw	
22	28.86	28.83	43.0	58.4	66	39	35.0	43	44.7	30	E	4	W	2	.....	.....	2 s., e	5 a. s., nw	
23	28.87	28.86	33.3	56.0	63	31	29.0	58	39.2	13	E	1	NW	6	.....	.....	0	Few a. s., 0 (?)	
24	29.08	28.99	37.0	55.8	61	34	30.0	41	40.0	17	SW	5	SW	4	.....	.....	0	1 a. s., n	
25	29.13	29.12	37.0	58.0	65	32	30.0	41	42.0	20	S	2	W	3	.....	.....	0	0	
26	29.16	29.02	39.5	66.8	72	35	30.5	30	47.2	17	SE	2	E	8	.....	.....	0	0	
27	29.02	28.93	43.8	67.2	75	38	35.0	38	47.2	16	E	4	SE	2	.....	.....	0	0	
28	28.94	28.86	41.5	65.2	72	35	34.6	48	47.0	20	N	1	W	3	.....	.....	0	1 a. s., w	
29	28.95	28.89	45.5	67.0	72	39	34.2	25	46.0	13	SE	2	E	3	.....	.....	0	0	
30	28.93	28.89	43.6	68.3	75	41	34.0	33	46.8	13	SW	3	NW	2	.....	.....	0	0	
31	28.88	28.77	41.8	62.2	71	40	32.0	29	45.0	20	E	4	W	5	.....	.....	1 a. s., nw	0	
Mn.	28.98	28.88	42.1	62.1	68.6	38.1	35.1	49.4	46.4	26.9	E	3.6	W	3.0	.14	T.	1.0 s., ne., w., nw	1.8 a. s., w	

PORTLAND, OREG.

[φ=45° 32′ N; λ=122° 43′ W; barometer above sea, 154 feet; gravity correction applied, 0.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.94	29.99	40.2	45.0	48	40	39.7	96	43.5	89	NE	2	SE	5	0.07	0.04	10 s., 0 (?)	10 n., sw	
2	29.94	29.94	49.4	54.0	57	45	48.2	92	52.0	88	SW	16	S	16	.10	.05	10 n., sw	10 n., sw	
3	29.97	30.13	52.0	54.3	56	52	51.0	94	53.0	92	S	20	S	6	.12	.48	10 n., s	10 n., sw	
4	30.15	30.14	52.6	52.0	57	46	51.2	91	51.0	94	SE	8	W	3	T.	.....	10 s., 0 (?)	8 ci. s., w	
5	30.12	30.14	42.8	44.2	46	40	42.8	100	44.2	100	S	1	E	5	.....	.....	10 s., 0	10 s., s	≡
6	30.17	30.05	43.2	53.0	54	43	43.0	98	48.0	41	NW	4	NE	18	.....	.....	10 s., 0 (?)	9 a. s., w	≡
7	29.94	29.94	45.0	46.4	50	43	35.2	32	37.4	39	E	12	SE	5	.....	T.	6 s., 0 (?)	9 s., s	≡
8	29.98	30.03	42.0	45.2	45	42	38.2	71	40.8	68	NW	4	E	3	.01	T.	8 n., nw	10 s., sw	
9	30.06	30.01	42.0	45.4	48	41	41.0	92	44.4	93	NW	1	NW	5	.01	.02	10 n., 0 (?)	10 s., nw	
10	29.93	29.93	40.7	44.5	48	39	40.0	94	40.0	67	NE	3	E	3	T.	.....	10 s. cu., 0 (?)	0	
11	30.09	30.16	34.3	41.3	45	29	32.3	81	36.8	65	SE	2	E	8	.....	.....	0	0	☾
12	30.23	30.25	29.4	41.6	42	29	29.4	100	36.6	62	NW	4	E	8	.....	.....	D. fog, nw	Few ci. s., 0	
13	30.25	30.18	37.2	40.0	43	34	32.5	60	34.6	57	N	4	E	11	.....	.....	0	Few ci., e	
14	30.08	29.96	36.4	38.4	43	36	32.0	61	33.4	58	E	6	E	10	.....	.....	0	Few ci. s., 0	
15	29.91	29.92	34.8	36.6	42	33	31.0	64	32.6	65	E	8	SE	6	.....	.....	0	0	
16	30.03	30.03	35.0	40.0	42	33	31.5	67	35.0	60	E	4	E	4	.....	.....	10 s. cu., 0 (?)	3 ci., sw	
17	30.12	30.16	37.0	40.0	40	34	35.0	83	40.0	100	NE	1	N	3	.....	.14	10 s., 0 (?)	10 n., 0	
18	30.07	29.90	40.5	47.2	48	39	39.5	92	46.8	97	NW	2	SW	12	.02	.31	10 s., nw	10 n., sw	
19	30.06	29.99	42.2	43.6	47	40	39.7	81	41.6	85	S	6	SE	4	T.	.07	8 ci. s., nw	10 n., sw	
20	29.92	29.71	50.4	56.6	57	41	48.8	89	53.6	82	S	7	SW	16	.12	.22	10 s., s	10 s., w	
21	29.74	29.74	48.4	47.0	55	46	46.4	86	44.4	81	SE	4	S	7	.02	.08	10 s., 0 (?)	10 s., s	
22	29.94	29.85	43.8	46.6	49	43	42.0	87	44.6	86	S	6	S	4	.24	.03	10 s. cu., s	10 n., 0 (?)	
23	29.77	29.84	50.3	47.6	52	43	46.8	77	45.2	83	SW	7	SE	6	.26	.01	10 s., 0 (?)	10 n., sw	
24	29.35	29.50	55.2	46.0	55	42	53.4	89	41.6	69	S	16	SW	12	.62	1.00	10 n., s	10 s., sw	
25	29.79	29.82	37.2	40.0	45	35	36.0	89	37.6	80	SW	3	S	4	.05	.....	6 s., 0 (?)	9 a. s., w	
26	27.37	29.27	36.5	35.4	38	33	34.0	78	34.8	94	NW	4	SE	6	.....	.04	10 s., 0 (?)	10 s., s	**
27	29.53	29.50	35.9	38.0	44	36	34.4	86	36.0	83	S	4	SW	5	.23	.05	6 s., s	9 s., sw	***
28	29.64	29.85	36.5	38.0	40	36	34.7	84	36.0	83	SW	8	SE	8	.....	.08	10 s., sw	7 s. cu., s	
29	29.66	29.65	38.8	40.4	43	36	37.3	87	38.4	83	SE	6	S	9	.13	.53	10 n., 0 (?)	10 n., s	
30	29.53	29.45	39.0	38.0	42	36	37.0	83	36.4	86	S	12	W	7	.18	.14	10 s., sw	10 n., 0 (?)	**
31	29.45	29.49	35.5	37.0	38	34	34.0	86	34.8	81	SW	6	SW	7	.04	T.	10 n., 0 (?)	10 s. cu., sw	*
Mn	29.89	29.89	41.4	44.0	47.1	38.6	39.3	82.9	41.0	77.8	S	6.2	E	7.3	2.22	3.21	7.9 s., s	7.5 n., sw	

FEBRUARY, 1903.

1	29.64	29.90	34.8	37.6	39	34	33.0	83	34.2	71	SW	2	N	2	0.01	T.	10 s., 0 (?)	2 s. cu., n	
2	30.07	29.99	32.6	33.0	35	31	31.7	91	30.4	74	NW	4	S	4	.....	.....	10 s., 0 (?)	10 s., s	
3	29.77	29.88	29.1	36.0	36	28	27.8	85	31.4	59	W	2	E	4	.....	.....	0	1 a. s., 0	
4	30.07	30.12	31.0	39.6	40	29	28.3	71	35.6	68	SE	1	NW	3	.....	.....	10 a. s., 0 (?)	Few s., 0	
5	30.20	30.10	28.4	36.8	40	28	26.6	79	31.8	57	E	1	E	7	.....	.....	0	0	
6	30.03	29.90	30.0	35.6	39	30	27.0	67	33.0	76	E	3	NE	5	.....	T.	0	10 n., 0 (?)	**
7	29.60	29.38	35.6	37.5	47	32	33.8	83	34.0	70	NE	3	E	7	.12	0.59	10 n., 0 (?)	10 s. cu., s	**
8	29.71	29.86	41.0	44.0	45	39	39.0	84	40.5	74	SW	14	SW	12	.08	.01	8 s. cu., sw	10 s. cu., sw	
9	29.69	29.85	45.0	52.0	55	40	42.0	78	45.0	57	SW	26	SW	12	.05	.38	10 n., 0 (?)	9 s. cu., w	
10	30.12	30.17	43.8	41.4	48	34	41.3	81	37.4	69	W	3	S	3	.04	.02	10 s., 0 (?)	9 s. cu., w	
11	30.08	30.13	31.3	42.0	44	31	30.3	89	33.0	33	NW	10	E	8	.....	.....	8 ci. s., 0 (?)	5 ci. s., 0	
12	30.22	30.08	29.0	38.6	40	26	26.0	66	31.6	43	NW	3	S	4	.....	.....	0	10 a. s., 0	
13	30.15	30.11	29.6	42.0	43	29	29.0	93	33.6	37	NW	4	NW	8	.....	.....	2 s., nw	Few s. cu., 0	
14	30.14	30.14	26.0	43.0	43	24	25.0	87	34.6	39	W	1	W	2	.....	.....	0	Few ci. s., 0	
15	30.18	30.12	28.6	48.6	50	26	28.0	93	39.6	42	W	1	NW	4	.....	.....	0	0	
16	30.18	30.07	30.0	48.6	50	29	28.6	84	41.2	51	NW	4	NW	4	.....	.....	0	0	☾
17	30.10	29.97	29.0	50.8	51	27	28.5	94	43.8	56	S	1	NW	2	.....	.....	0	0	☾⊕
18	30.00	29.99	32.0	52.6	54	28	31.4	94	44.2	50	NW	6	E	6	.....	.....	0	2 ci. s., sw	⊕
19	30.09	30.07	37.8	56.6	58	35	35.5	80	47.2	48	W	1	NW	3	.....	.....	7 ci. cu., w	3 a. cu., sw	
20	30.11	30.10	38.4	54.6	58	37	36.7	85	45.2	46	NW	3	SE	7	.....	.....	0	9 s. cu., s	
21	30.20	30.14	43.0	52.4	56	43	40.6	82	46.7	65	SE	2	W	3	T.	.....	4 ci. s., 0 (?)	10 a. s., sw	
22	30.08	29.86	40.7	52.4	55	38	40.0	94	43.7	48	NW	5	E	18	.....	.....	10 s., 0 (?)	10 s. cu., e	
23	30.05	30.18	45.4	46.4	50	44	44.4	93	46.4	100	S	3	W	2	.02	.15	10 n., 0	10 s., 0	≡p.
24	30.27	30.23	45.5	50.2	52	44	45.0	96	45.6	77	NW	7	NW	6	.01	.....	10 s., 0 (?)	1 s. cu., 0	
25	30.17	30.06	45.0	56.0	56	44	42.5	82	49.0	60	NW	3	NW	6	.....	.....	10 s., 0 (?)	0	
26	30.06	29.98	38.0	57.6	58	34	37.4	95	47.6	46	NW	6	SE	3	.....	.....	0	9 s. cu., n	☾
27	30.05	30.09	40.7	55.6	59	37	39.2	88	44.6	39	NW	6	E	20	.....	.....	0	Few s. cu., 0	☾⊕
28	30.15	30.01	43.0	52.3	54	42	35.2	43	40.2	29	E	7	NE	14	.....	.....	0	7 ci., sw	⊕
Mn	30.04	30.02	35.9	46.2	48.4	33.7	34.1	83.6	39.7	56.6	NW	4.7	NW	6.4	.38	1.11	4.4 s., nw	4.9 s. cu., sw	

PORTLAND, OREG.

[φ=45° 32′ N; λ=122° 43′ W; barometer above sea, 154 feet; gravity correction applied, 0.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.94	29.78	37.0	55.8	57	34	32.5	61	45.0	40	NW	2	W	2	....	.....	0	8 a. cu., sw	⊣
2	29.77	29.67	39.5	48.6	51	38	38.5	92	39.6	42	W	5	NE	10	....	T.	9 s. cu., 0 (?)	9 s. cu., n	
3	29.66	29.72	38.0	40.0	44	37	35.0	75	34.0	52	NW	4	E	14	....	.....	10 s., 0 (?)	10 s., 0	
4	29.79	29.78	34.6	43.2	46	35	30.0	57	35.2	42	NE	4	NE	14	....	.....	0	Few cu., 0	
5	29.72	29.73	38.0	51.6	54	31	30.0	70	41.2	37	NW	8	SW	6	....	.....	0	Few s., 0	⊣
6	29.87	29.83	39.2	48.6	49	37	36.5	77	42.2	58	SE	4	SW	16	....	T.	10 s., 0 (?)	9 s. cu., sw	
7	29.79	29.59	43.5	45.4	48	41	40.0	74	41.8	74	SW	20	SW	12	0.04	0.17	10 n., sw	10 s., s	
8	29.62	29.83	36.0	44.0	48	35	35.0	91	38.0	56	SW	2	W	10	.38	T.	10 s., 0	4 s. cu., w	*
9	29.88	29.84	39.0	45.0	46	37	36.5	79	42.0	78	SW	12	SW	11	T.	.01	10 n., sw	10 n., sw	
10	29.60	29.58	49.0	49.0	51	40	44.0	67	47.6	91	SW	24	SE	4	.26	.37	10 n., sw	10 n., sw	
11	29.66	29.85	33.5	38.0	50	34	33.0	95	37.0	91	0	0	S	7	1.18	.19	10 n., 0	9 s. cu., w	
12	30.00	29.85	30.0	41.8	44	30	30.0	100	36.4	59	S	3	NW	14	....	.....	Lt. fog, 0	9 s., 0	⊣*
13	29.76	29.66	39.2	39.4	41	33	32.7	47	34.4	59	NE	12	E	18	....	T.	10 s., 0 (?)	10 n., e	
14	29.71	29.78	35.0	41.0	41	32	32.5	77	38.0	76	E	2	NE	5	.06	T.	10 s., 0 (?)	10 s. cu., sw	**
15	29.83	29.82	36.7	51.0	51	33	35.7	91	41.0	39	N	1	NW	6	....	.....	10 s. cu., se	1 s. cu., sw	
16	29.84	29.80	36.7	52.0	55	34	35.2	87	42.0	40	NW	2	NW	5	....	.....	4 a. cu., nw	2 s. cu., nw	⊣
17	29.92	29.97	39.0	49.0	52	39	37.5	87	43.6	65	S	1	NW	7	....	T.	10 s. cu., w	9 s. cu., w	
18	30.10	30.09	34.5	55.2	56	33	34.0	95	43.2	33	W	2	N	5	T.	.....	6 s., w	0	
19	30.15	30.06	35.9	58.6	59	34	34.4	86	45.2	31	NW	4	E	12	....	.....	0	0	⊣
20	30.12	29.99	36.1	64.4	66	34	33.6	77	49.0	29	NW	3	NW	2	....	.....	0	0	⊣
21	29.99	29.87	36.6	63.8	64	33	35.2	87	47.0	23	S	1	NW	4	....	.....	2 s., 0 (?)	0	⊣
22	29.88	29.77	41.7	68.2	70	40	38.7	77	50.0	22	NW	4	NE	10	....	.....	0	0	
23	29.80	29.62	46.0	70.6	72	41	39.8	57	52.6	26	NW	2	E	2	....	.....	0	Lt. haze, 0	
24	29.63	29.48	48.0	56.8	61	41	41.5	88	48.4	53	NW	4	NW	8	....	.....	0	9 s. cu., 0	
25	29.58	29.71	44.3	51.2	51	42	40.8	74	45.2	62	NW	2	NW	3	T.	T.	10 s., 0 (?)	9 s., sw	
26	29.86	29.84	47.0	57.8	59	47	46.5	96	51.4	64	SE	6	NW	7	.06	.02	10 n., sw	9 a. cu., sw	
27	29.80	29.60	49.8	55.0	57	49	48.8	93	52.6	86	NW	5	E	4	.02	.27	10 n., 0 (?)	10 n., sw	
28	29.48	29.73	53.8	52.7	55	45	51.8	88	46.2	61	W	8	S	6	.33	.31	10 n., 0 (?)	6 s. cu., sw	
29	29.78	29.52	39.4	59.0	61	37	38.4	92	49.0	47	NW	4	E	12	....	.....	0	10 s. s., w	⊣
30	29.58	29.40	49.0	51.4	56	47	47.0	86	47.4	75	W	2	SW	24	.31	.26	Few s., 0 (?)	10 n., sw	
31	29.76	29.75	43.2	54.0	56	43	41.8	89	45.0	48	SE	3	NW	5	.04	.01	9 s. cu., sw	1 cu., nw	
Mn	29.80	29.76	40.0	51.7	53.9	37.6	37.6	81.0	43.6	53.5	NW	4.9	NW	8.5	2.68	1.61	5.8 s., sw	5.9 s. cu., sw	

APRIL, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.83	29.94	36.7	53.0	55	34	35.5	89	46.0	58	S	1	W	12	....	T.	0	9 s. cu., w	⊣
2	30.16	30.20	41.2	52.0	52	40	39.2	84	46.0	63	SE	2	SW	10	....	T.	10 s., 0 (?)	8 s. cu., s	⊣
3	30.07	30.00	44.0	49.6	51	41	41.0	78	40.2	41	S	7	W	14	....	0.21	10 s., sw	2 cu., w	
4	29.96	30.01	37.7	49.0	52	37	36.2	87	42.5	57	SE	3	W	2	0.02	.02	10 n., sw	9 s. cu., nw	
5	30.02	29.97	42.0	52.2	53	42	40.5	88	44.0	50	W	2	SW	6	.02	T.	10 s., 0 (?)	6 cu. n., w	
6	29.88	29.89	43.0	50.0	50	42	40.5	81	47.0	80	SW	15	SW	14	.02	.02	10 n., sw	10 s. cu., sw	
7	29.87	29.87	46.3	51.6	54	43	44.3	86	49.2	85	SW	12	SW	12	T.	.15	10 n., sw	10 n., sw	
8	29.88	29.86	41.6	48.6	49	42	40.8	94	42.2	69	S	3	NW	8	.04	.02	10 s., sw	10 s., n	
9	29.86	29.82	38.5	42.0	45	35	37.5	92	38.0	69	S	1	NW	9	T.	.11	10 n., 0 (?)	9 s. cu., nw	*⊕
10	29.90	30.02	35.0	44.4	46	35	33.5	86	39.4	68	SW	3	W	6	.01	.02	10 n., sw	6 ci. s., n	*
11	30.10	30.12	38.0	48.6	50	38	36.0	83	42.6	61	SE	3	SW	5	T.	T.	10 s., w	10 n., w	
12	30.09	29.94	39.2	57.2	57	38	38.2	92	47.6	48	NW	2	SW	6	T.	.....	9 s., nw	10 s. s., 0	⊣⊕⊕
13	29.87	29.75	44.0	51.2	53	43	40.5	74	46.6	71	SE	5	W	6	T.	.11	10 s. cu., 0 (?)	9 s. cu., s	
14	29.68	29.70	37.4	50.0	54	37	37.2	98	44.0	61	SE	7	W	8	T.	.02	10 s., s	6 s. cu., 0	
15	29.74	29.70	38.3	66.6	67	37	37.8	96	52.6	37	NW	7	NW	10	.....	.....	10 s., 0 (?)	1 s. cu., 0	
16	29.72	29.62	44.0	64.0	68	42	41.5	81	51.0	38	NW	5	NW	10	.....	.....	0	5 a. cu., nw	⊣
17	29.68	29.79	46.9	50.6	58	44	43.4	75	47.0	77	SW	1	NW	8	....	.02	9 s. cu., sw	10 n., nw	⊣
18	29.88	29.92	42.2	50.4	51	41	40.0	88	43.2	54	S	12	W	6	.03	.07	10 n., sw	10 s. cu., sw	
19	29.98	29.79	37.5	62.4	62	36	36.0	87	48.5	33	W	1	NW	7	.....	.....	1 s. cu., 0 (?)	Few ci., 0	
20	29.78	29.78	48.0	67.6	70	46	43.5	69	53.6	38	NE	3	S	5	....	.....	10 s. cu., sw	9 s. cu., s	
21	29.83	29.91	52.2	53.4	59	50	51.2	94	50.8	84	NW	3	S	6	.03	.26	10 n., sw	10 n., s	
22	30.01	30.06	45.1	55.0	57	45	44.1	93	50.0	70	SE	5	SW	5	.14	.16	9 s. cu., s	9 s. cu., w	
23	30.05	29.95	45.5	64.6	65	43	44.5	93	50.2	33	NE	4	NW	5	T.	.....	10 s., ne	6 ci. s., sw	
24	29.92	29.75	45.8	71.2	73	45	44.0	87	57.2	41	NW	3	N	2	....	.....	2 ci. s., 0 (?)	8 ci. s., 0	⊕
25	29.74	29.74	48.0	52.1	65	48	47.5	96	48.6	78	SE	1	SE	5	....	.06	9 ci. s., w	10 n., sw	
26	29.90	30.00	46.0	53.0	54	44	44.5	89	46.0	58	SW	4	W	12	.35	.08	10 n., nw	9 s. cu., w	
27	30.01	29.94	46.0	58.2	58	45	41.5	68	47.6	44	W	4	W	6	....	T.	10 s., w	5 cu., n	
28	29.94	29.92	41.6	66.6	68	42	40.4	90	49.6	26	NW	4	E	14	....	.....	1 s. cu., nw	3 ci. s., w	⊣
29	29.98	29.95	55.0	66.6	68	55	41.6	26	50.2	28	E	6	NE	4	....	T.	10 s. s., w	10 s. s., sw	
30	30.06	30.14	50.8	60.0	64	51	49.0	88	48.0	39	NE	2	NW	7	.25	T.	10 ci. s., w	5 s. cu , w	
Mn	29.91	29.90	43.2	55.3	57.6	42.0	41.0	84.2	47.0	55.1	SE	4.4	W	7.7	.91	1.34	8.3 s., sw	7.5 s. cu., w	

PORTLAND, OREG.

[$\varphi = 45° 32'$ N; $\lambda = 122° 43'$ W; barometer above sea, 154 feet; gravity correction applied, 0.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	30.22	30.15	41.0	65.4	66	40	40.0	92	50.8	33	E	1	N	7	.....	.....	Few ci., 0 (?)	0	
2	30.13	29.97	48.3	72.3	73	46	44.8	76	60.3	49	NW	4	NW	10	.....	.....	Few ci., 0 (?)	1 s., nw	
3	29.98	29.88	52.0	77.0	78	50	48.0	75	68.0	63	N	4	NW	8	.....	.....	Few a. s., nw	Few a. s., nw	
4	29.94	29.83	47.8	73.6	74	48	45.5	84	56.6	33	NW	1	NW	7	.....	.....	10 a. s., 0 (?)	0	
5	29.78	29.63	51.0	80.8	84	51	48.5	84	58.8	24	N	2	S	3	.....	.....	Few ci., 0 (?)	5 ci. s., 0	⊟
6	29.78	29.97	48.0	56.6	69	46	45.0	79	46.2	43	SW	6	W	12	.....	0.24	10 s. cu., sw	6 cu., w	
7	30.03	29.96	41.5	55.0	57	39	39.0	80	42.6	31	SE	5	S	6	.....	T.	7 s. cu., w	10 s. cu., s	
8	29.98	29.95	49.8	57.0	60	48	47.0	81	54.0	82	SW	10	NW	11	.....	T.	10 s. cu., sw	10 s. cu., w	
9	29.94	29.84	52.0	67.6	69	51	49.3	83	52.6	34	NW	4	SE	4	.....	.....	10 s., nw	9 ci. s., w	⊕
10	29.89	29.89	47.6	56.0	60	44	46.2	90	54.0	88	S	2	NW	4	0.08	.05	10 n., n	10 n., s	
11	29.88	29.71	54.7	76.8	77	53	54.0	96	61.8	42	NW	1	N	3	.11	.....	10 s. cu., sw	9 ci. s., sw	⊕⊕
12	29.70	29.70	52.8	71.0	72	52	51.8	94	57.0	41	SE	2	W	5	.....	.....	3 ci. s., sw	9 s., sw	⊕⊕
13	29.69	29.77	56.3	57.4	65	51	54.8	91	52.4	71	S	5	S	8	.01	.30	10 s., s	9 s. cu., w	
14	30.02	30.03	48.2	61.0	61	48	46.0	85	50.6	47	SW	10	SW	8	.....	.02	8 s. cu., sw	9 s. cu., nw	
15	29.85	29.89	49.0	56.8	60	48	46.0	80	47.8	50	SW	20	W	14	.07	.01	10 s., sw	9 s. cu., nw	
16	29.89	29.91	45.0	53.5	56	44	42.0	78	47.5	64	W	5	NW	18	T.	.07	8 s. cu., nw	8 s. cu., nw	
17	29.99	29.98	45.5	60.3	61	44	43.0	82	50.0	47	S	4	NW	14	.05	.....	7 s. cu., n	7 s. cu., nw	
18	29.92	29.92	47.0	57.2	61	46	44.8	84	46.8	44	SW	7	W	12	.....	.01	10 s. cu., w	8 cu., w	
19	29.91	29.83	43.2	48.0	58	42	40.8	82	45.0	79	W	2	NE	2	.....	.04	8 s. cu., w	10 s., s	
20	29.76	29.65	44.2	50.0	55	44	42.0	84	46.0	74	S	4	S	3	.....	.12	10 s., s	10 n., sw	
21	29.75	29.89	44.0	53.0	59	43	41.5	81	49.0	75	NW	12	W	9	.08	.04	10 s. cu., nw	10 n., sw	
22	29.95	29.97	46.2	57.2	61	46	44.0	84	49.7	58	SW	3	NW	6	.07	.01	10 s. cu., sw	6 cu., nw	
23	30.02	29.91	42.0	69.2	70	41	41.0	92	54.8	38	SW	1	NW	12	.....	.....	0	Few cu., 0 (?)	
24	29.98	29.82	44.0	73.5	75	44	43.0	93	57.0	34	SW	1	W	6	.....	.....	0	Few ci., 0 (?)	
25	29.83	29.80	52.0	58.6	65	52	50.0	87	58.0	96	S	3	N	1	.....	.03	10 s., 0	10 n., nw	
26	29.86	29.94	46.8	55.2	57	46	45.0	87	52.2	82	NW	3	S	2	.09	.01	10 s. cu., w	10 s., w	
27	29.98	29.93	47.8	52.4	57	47	45.8	86	50.4	87	S	3	SE	6	T.	.08	10 s. cu., sw	10 n., s	
28	29.95	29.97	52.8	63.8	65	50	51.3	90	54.4	54	S	6	NW	5	.10	.02	10 n., s	5 cu., 0	
29	29.95	29.90	56.0	78.0	79	55	55.0	94	65.0	49	NW	4	NW	4	.....	T.	10 s. cu., sw	9 ci. s., sw	⊕
30	29.93	29.78	56.2	81.0	81	57	55.2	88	67.5	49	N	3	NW	5	.....	.....	1 a. s., w	Few ci., w	
31	29.85	29.83	58.0	69.0	70	57	55.0	83	56.8	46	NW	2	NW	7	.....	.....	10 s., nw	6 s., nw	
Mn	29.91	29.88	48.8	63.4	66.3	47.6	46.6	85.2	53.7	55.1	{sw / nw}	4.5	NW	7.2	.66	1.05	7.2 s. cu., sw	6.6 s. cu., nw	

JUNE, 1903.

1	29.77	29.78	49.0	60.0	65	48	46.5	83	53.2	64	E	2	NW	5	.....	.....	9 s., nw	10 s. cu., w	
2	29.91	29.96	49.0	62.5	66	48	45.0	73	51.5	46	SW	2	SW	7	T.	.....	10 s. cu., s	9 s. cu., w	
3	29.98	30.01	45.2	61.0	64	45	43.2	86	52.8	57	W	1	SW	10	T.	T.	8 ci. s., sw	8 s., cu., sw	
4	30.13	30.12	48.5	70.2	72	48	47.0	90	56.0	39	S	2	N	5	T.	.....	10 a. cu., w	1 ci. s., 0	
5	30.20	30.09	50.0	81.0	81	50	48.8	92	63.5	37	NW	1	NW	7	.....	.....	Few ci. s., 0 (?)	0	⊕
6	30.10	29.95	60.0	87.0	88	60	55.5	75	68.0	36	NW	7	NW	14	.....	.....	Few ci., 0 (?)	Few ci., w	
7	29.92	29.77	63.8	96.0	97	63	51.8	43	66.6	19	NW	6	E	12	.....	.....	Few ci. s., 0 (?)	0	
8	29.82	29.69	60.8	93.0	95	60	56.8	78	71.0	32	SW	1	NW	6	.....	.....	0	0	
9	29.80	29.67	59.0	78.8	83	58	56.3	85	67.0	54	N	1	SW	6	.....	.....	2 s., n	6 ci. s., s	Lt. smoke.
10	29.78	29.66	59.0	76.3	77	58	55.0	78	65.5	56	NW	2	NW	4	.....	T.	10 s., 0	7 a. s., 0	
11	29.76	29.78	60.0	60.2	69	58	56.5	81	58.0	88	S	2	SW	3	T.	0.08	10 s., sw	10 n., sw	
12	29.81	29.82	55.0	60.9	61	54	51.5	79	55.0	69	S	5	S	4	0.01	.....	10 s., s	10s. cu., sw	
13	29.86	29.74	54.9	67.0	69	55	52.4	85	56.5	51	SE	2	NW	10	.31	.05	10 s., ne	1 ci. s., s	
14	29.67	29.54	56.8	73.0	73	56	52.3	74	63.0	57	NW	10	SW	7	T.	.01	10 s., nw	6 s. cu., sc	⊠
15	29.65	29.69	60.8	64.3	66	57	58.4	87	60.0	78	SE	4	W	7	.03	T.	10 s., sw	10 s. cu., sw	⊠
16	29.75	29.89	56.2	62.8	63	55	54.2	88	55.0	61	S	2	SW	7	.26	.08	10 s., sw	10 a. s., s	⊠
17	29.98	29.99	51.8	63.8	70	51	49.8	87	57.3	67	SE	4	SW	6	.02	.05	10 s. cu., s	8 a. cu., s	
18	30.02	29.85	53.0	77.0	77	53	51.2	88	64.0	48	W	2	NW	3	T.	.....	10 ci. s., w	7 a. s., sw	⊕
19	29.87	29.84	60.3	75.0	79	59	57.8	86	65.0	58	S	1	NW	7	.....	.....	10 a. s., sw	8 s. cu., w	Lt. smoke. s.
20	29.92	29.80	60.2	75.0	76	58	56.0	77	60.5	42	NE	3	NW	9	T.	.....	10 s., nw	10 ci. s., w	⊕
21	29.73	29.76	59.0	62.0	72	57	55.0	78	55.0	64	N	3	SW	4	.....	.02	10 a. s., sw	10 n., sw	
22	29.76	29.87	56.3	68.2	67	55	54.8	91	54.3	56	S	3	SW	12	.08	.01	10 n., s	9 s. cu., w	
23	29.92	29.87	56.0	71.8	73	55	51.6	74	59.3	47	NW	1	NW	4	.....	.....	10 s. cu., nw	3 ci. s., w	
24	29.82	29.82	59.0	70.0	76	58	56.5	86	63.0	68	NW	2	W	6	.....	T.	10 s. cu., w	10 s., w	
25	29.88	29.76	53.8	70.3	71	54	51.5	86	55.3	36	N	2	NW	5	.01	.....	2 ci., w	9 a. s., w	⊕
26	29.84	29.80	58.2	73.0	74	58	50.7	59	60.0	46	S	2	SW	10	.....	.....	9 ci. s., w	10 s. cu., sw	⊕
27	29.82	29.86	60.3	62.3	67	58	58.3	89	60.8	92	SE	4	NW	5	.26	.49	10 s. cu., sw	10 n., nw	
28	29.86	29.76	58.0	69.0	70	58	54.0	77	57.5	49	NW	6	NW	5	.23	.....	10 s. cu., sw	7 s. cu., w	
29	29.75	29.73	56.0	69.7	71	56	50.9	65	56.2	42	NW	6	NE	5	.....	.....	4 s. cu., w	Few cu., n	
30	29.75	29.74	52.0	65.8	67	51	49.5	84	56.0	54	S	1	SW	9	.....	T.	4 a. cu., w	10 s. cu., sw	
Mn	29.86	29.82	56.1	70.7	73.3	55.1	52.6	80.1	59.6	53.8	NW	3.0	NW	6.8	1.21	.79	7.6 s., sw	6.6 s. cu., w	

PORTLAND, OREG.

[φ=45° 32′ N; λ=122° 43′ W; barometer above sea, 154 feet; gravity correction applied, 0.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.78	29.98	53.0	62.0	62	53	50.5	84	54.0	59	SW	10	W	9	0.03	0.07	10 n., sw	10 s. cu., w	▲
2	30.14	30.09	54.4	64.5	66	54	50.8	78	55.0	54	S	2	NW	4	T.	T.	10 s. cu., nw.	10 s. cu., nw	
3	30.11	30.02	53.2	72.0	72	53	51.2	87	59.5	47	E	2	NW	7			10 s. cu., 0 (?)	3 a. cu., nw	
4	29.93	29.89	59.0	62.0	65	56	55.0	78	53.0	54	N	4	NW	15	T.	.13	10 s., nw	8 s. cu., nw	
5	29.87	29.78	51.0	56.6	63	51	48.4	83	52.5	76	SW	3	S	2	.03	.13	10 s. cu., nw	8 cu., sw	
6	29.79	29.81	51.5	63.0	63	52	50.0	90	54.0	55	S	2	SW	3	.04		10 s. cu., s	10 s. cu., w	
7	29.92	29.85	55.3	69.8	71	55	52.8	85	57.8	48	S	4	NW	8	.01		10 s. cu., n	1 ci. s., n	
8	29.87	29.84	52.0	77.0	77	52	51.5	97	63.5	47	E	3	NW	4			10 s., nw	1 cu., n	
9	29.92	29.85	55.0	80.0	81	54	53.0	88	64.0	41	N	2	NW	6			0	0	
10	29.87	29.76	57.3	83.8	85	56	55.2	87	65.5	36	NW	2	NW	6			0	0	
11	29.90	29.90	56.0	67.2	72	55	55.0	94	58.8	60	SE	4	N	4	T.	T.	10 n., 0 (?)	10 s. cu., s.w	
12	29.90	29.88	57.0	69.0	71	56	54.0	82	58.0	51	S	4	NW	7		T.	10 s. cu., n	5 cu., s	
13	29.92	30.01	55.0	65.2	69	55	53.2	89	54.6	56	S	2	NW	8	.01	T.	10 n., 0 (?)	8 s. cu., nw	
14	30.08	29.92	48.0	71.5	72	48	47.0	93	56.2	36	SE	1	NW	12			0	0	
15	29.89	29.75	54.5	82.0	83	54	50.5	76	62.0	30	N	4	NW	12			0	0	
16	29.90	29.88	54.7	81.5	84	55	52.6	87	63.5	36	E	2	NW	5			6 ci., n	0	
17	29.96	29.81	56.2	79.2	79	56	54.0	87	64.0	43	N	4	W	8			4 s., nw	2 ci., w	
18	29.88	29.79	58.0	76.3	78	56	55.0	83	64.0	50	NW	6	W	3			10 s., nw	6 ci. s., s	⊕
19	29.85	29.78	57.3	77.7	78	56	54.8	85	64.2	47	E	2	NW	4			10 s., 0	1 ci. s., sw	
20	29.74	29.58	59.0	90.8	91	58	57.0	89	70.7	35	NW	3	NW	7			0	1 a. s., s	
21	29.79	29.81	58.0	76.0	81	57	54.6	81	64.0	51	SE	8	SW	6			5 s., sw	Few cu., sw	
22	29.83	29.78	56.2	73.0	73	56	54.4	89	61.3	51	SE	6	E	4			10 s., s	8 s. cu., sw	
23	29.80	29.90	58.0	67.2	67	58	54.2	78	56.0	48	S	4	SW	8		.01	10 s. cu., sw	10 s. cu., sw	
24	30.02	30.00	57.0	68.5	70	57	53.4	79	58.0	52	S	5	NW	8			10 s. cu., s	2 cu., sw	
25	29.98	29.93	53.0	74.0	75	51	51.5	90	58.0	36	E	2	NW	7			8 s. cu., n	Few s. cu., nw	
26	30.01	29.96	51.0	74.5	75	50	49.0	87	58.5	36	S	3	NW	6			Few s., nw	Few ci. s., nw	
27	29.99	29.90	52.0	80.7	81	52	51.0	94	61.0	30	SE	3	NW	6			Few ci., nw	0	
28	29.94	29.84	55.1	80.0	82	55	52.3	83	63.5	39	W	1	NW	12			0	0	
29	29.96	29.93	58.0	69.3	70	57	54.5	80	58.8	53	S	3	NW	7		T.	10 s. cu., nw	4 cu., nw	
30	29.96	30.02	59.0	67.3	67	56	55.0	78	56.8	51	W	2	NW	8	T.	.05	10 s., w	6 s. cu., nw	
31	30.04	29.93	53.0	70.8	72	52	52.0	94	59.8	52	S	2	NW	9			10 s. cu., nw	0	
Mn	29.92	29.88	55.1	72.7	74.0	54.4	52.7	85.6	59.7	46.9	S	3.4	NW	6.9	.12	.39	6.9 s. cu., nw	3.7 s. cu., nw	

AUGUST, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.90	29.79	53.8	73.0	74	53	52.3	91	61.0	50	S	2	NW	6			10 s., nw	0	
2	29.88	29.90	56.0	65.6	67	56	50.0	65	56.6	57	W	3	NW	3		T.	10 s., w	10 s. cu., nw	
3	29.94	29.94	53.2	67.6	68	52	51.2	87	58.2	56	S	3	NW	7			6 s. cu., w	7 s. cu., nw	
4	29.94	29.80	50.3	76.4	77	49	49.8	96	60.4	38	E	3	NW	10			4 s., s	Few cu., 0	
5	29.74	29.79	57.6	75.4	76	57	54.6	83	62.8	49	N	3	SW	7		T.	6 ci., w	6 s., s	≡a.
6	30.01	29.97	58.2	74.8	75	58	55.5	84	62.8	51	SE	2	NW	10			10 s., se	0	
7	30.01	29.93	57.5	82.0	82	57	55.0	85	65.0	39	N	2	NW	8			4 s. cu., n	0	
8	29.98	29.87	58.5	83.8	85	58	56.0	86	64.5	34	NW	1	NW	10			0	0	
9	29.89	29.77	56.8	79.4	81	56	54.0	83	63.4	40	NW	1	NW	10			0	0	
10	29.82	29.74	52.8	81.2	81	53	50.3	84	65.2	42	SW	1	NW	7			Few s. cu., nw	0	
11	29.85	29.79	55.5	82.0	83	56	54.0	91	67.0	45	S	1	NW	8			Lt. fog, 0	Few ci. s., w	
12	29.87	29.80	60.0	74.8	76	58	56.0	78	63.4	53	NW	4	NW	5			10 s. cu., nw	Few ci., 0	
13	29.81	29.75	62.0	69.4	73	60	59.0	84	61.8	65	S	4	NW	12	T.	T.	10 n., 0 (?)	8 s. cu., nw	
14	29.76	29.75	58.3	65.2	66	58	58.8	74	57.8	64	NW	4	SE	4			10 s., nw	9 s. cu., sw	
15	29.74	29.75	58.5	70.0	71	58	54.0	74	60.0	55	NW	5	N	4		T.	10 ci. s., sw	9 s. cu., sw	
16	29.80	29.84	57.6	75.0	75	57	56.2	92	65.0	58	NW	3	NW	3		0.05	9 s., sw	Few cu., 0	
17	29.86	29.74	60.8	89.6	90	60	59.4	92	67.6	31	NW	3	NW	5			0	Few cu., 0	
18	29.78	29.71	60.6	83.2	87	60	59.8	95	69.2	49	SE	2	NW	12			Few a. cu., 0	Few cu., 0	
19	29.80	29.79	60.8	75.8	77	60	57.3	81	60.8	41	S	4	N	4			10 s. cu., s	7 cu., sw	Lt. smoke, a.
20	29.83	29.72	59.7	76.8	78	59	55.7	78	61.2	40	S	2	NW	6			8 s. cu., s	Few ci. s., w	
21	29.74	29.70	58.0	71.4	74	58	55.2	84	60.4	52	SE	4	NW	6		.01	10 s., w	9 s., sw	
22	29.70	29.78	59.0	66.2	67	59	56.6	87	63.0	84	S	4	SW	2	0.01	.42	10 s. cu., sw	7 s., 0	⊓
23	29.82	29.80	57.3	67.3	68	57	53.8	80	58.0	57	SW	2	NW	6	T.	.02	10 s. cu., sw	8 s. cu., n	
24	29.71	29.62	52.4	66.0	68	52	52.0	98	58.0	61	N	2	SW	5		T.	10 s., 0 (?)	10. s. cu., w	
25	29.61	29.76	57.0	67.6	68	56	55.2	89	58.6	58	S	3	N	2	.16	.01	10 s. cu., sw	9 s. cu., n	
26	29.95	30.00	58.2	67.0	68	57	56.2	88	59.0	62	S	3	NW	5	T.		10 s., 0 (?)	10 s. cu., nw	
27	29.94	29.76	55.5	78.0	80	55	54.0	91	64.0	46	NW	3	NW	5			Few s., 0 (?)	7 ci. s., w	
28	29.80	29.64	57.0	80.0	83	56	55.5	91	66.0	47	NW	2	NW	6			0	Few ci. s., 0	
29	29.90	29.94	59.0	71.8	74	59	56.8	88	59.8	49	SW	3	NW	5	.08	.06	10 s., sw	7 ci. s., w	
30	29.93	29.89	52.8	73.6	75	52	52.2	96	58.6	39	SW	1	SW	8			10 a. cu., w	5 cu., sw	
31	29.97	29.85	54.0	76.4	78	53	52.0	88	60.4	38	NE	2	NW	8			Few s. cu., 0 (?)	Few cu., 0	
Mn	29.85	29.80	57.1	74.4	75.6	56.4	54.6	85.9	61.9	50.0	s. nw.	2.7	NW	6.4	.25	.56	6.4 s., sw	4.1 cu., w	

PORTLAND, OREG.

[φ=45° 32′ N.; λ=122° 43′ W.; barometer above sea, 154 feet; gravity correction applied, 0.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.92	29.90	56.8	77.0	78	56	51.8	71	59.0	32	NW	4	NW	10	.....	.....	Few s. cu., 0	0	
2	29.93	29.83	51.0	77.0	78	49	49.5	90	58.0	29	NE	1	NW	10	.....	.....	Few s. cu., 0	1 ci. s., w	
3	29.82	29.65	54.8	85.2	86	54	50.7	75	62.8	26	N	3	NW	8	.....	.....	Few s. cu., 0	2 a. cu., sw	
4	29.67	29.57	56.8	79.6	82	56	47.8	50	59.6	29	S	6	SW	5	.....	.....	0	9 ci. s., sw	
5	29.61	29.70	55.7	58.5	63	54	52.2	79	55.5	83	SE	4	SW	10	0.02	0.03	10 n., 0 (?)	10 n., sw	
6	29.72	29.72	56.0	60.0	64	55	53.0	82	56.0	78	SW	9	SW	8	.01	.07	10 s. cu., sw	10 s. cu., sw	
7	29.82	29.90	55.4	66.0	68	55	54.0	92	56.0	58	S	4	NW	7	.02	.05	10 s., sw	9 s. cu. nw	
8	30.06	30.10	48.0	68.6	71	48	47.0	93	55.6	43	SE	3	NE	4	....	T.	3 s. cu., n. w	3 a. cu., nw	
9	30.15	30.07	48.2	65.6	74	47	47.3	94	57.6	61	SE	3	NW	6	.....	.....	Few s. cu., 0	10 s., w	
10	30.08	30.02	56.2	60.0	67	53	50.2	65	54.0	68	W	8	NW	6	....	.05	7 s. cu., nw	10 n., nw	
11	29.99	29.64	48.3	55.4	56	47	47.5	94	52.4	82	SE	2	SW	8	.03	.02	5 s. cu., nw	10 n., s	
12	29.51	29.69	52.0	61.0	62	51	47.8	74	53.0	58	W	12	SW	4	.13	T.	10 s. cu., sw	3 s. cu., n	
13	29.82	29.94	51.4	67.2	67	50	50.0	91	55.2	45	SW	3	NW	5	.04	.04	10 n., 0 (?)	7 ci., n	
14	30.00	30.00	49.2	67.6	71	48	48.2	93	57.2	52	S	2	W	5	.....	.....	10 s., 0 (?)	2 cu., 0	
15	30.10	30.02	49.0	75.0	76	49	48.0	93	59.5	39	NW	3	NW	7	.....	.....	0	0	
16	30.02	29.95	52.2	79.0	81	51	49.3	82	59.0	28	NW	6	NE	8	.....	.....	0	0	
17	29.99	29.90	53.5	81.0	83	53	50.5	82	60.0	27	NW	4	NW	2	.....	.....	0	Few ci. s., 0	
18	29.99	29.93	51.0	73.6	75	50	49.5	90	61.2	48	NW	5	NW	5	.....	.....	Few s., 0	2 s. cu., 0	
19	29.94	29.90	52.3	63.8	68	52	51.2	93	58.8	74	S	2	NW	6	.....	.....	10 s., 0 (?)	8 s. cu., w	
20	29.90	29.80	51.8	73.7	74	51	50.8	94	63.0	55	E	2	W	4	.....	.....	3 s., 0 (?)	5 ci. s., sw	
21	29.78	29.85	61.0	68.0	70	58	59.0	89	61.0	67	SE	6	NW	7	....	.12	10 s., 0 (?)	1 ci. s., w	
22	29.90	29.88	51.0	77.8	79	49	49.8	92	62.2	40	NW	1	W	3	.....	.....	Few s., 0	9 s., sw	
23	29.95	29.95	56.7	66.2	70	56	54.8	89	61.2	75	SE	3	E	7	.....	.01	8 s. cu., sw	10 s., s	
24	29.99	29.90	56.0	71.0	75	55	55.8	99	61.0	56	S	1	W	8	.05	.....	Lt. fog, 0	10 s., w	
25	29.97	29.99	52.8	65.2	66	51	50.8	87	54.2	48	W	1	NW	7	.....	.....	Few s., 0	Few cu., 0	
26	30.00	29.80	47.8	74.8	75	45	46.5	91	56.0	28	N	2	NW	5	.....	.....	0	Few ci., 0 (?)	
27	29.76	29.61	51.0	78.8	83	50	48.5	84	64.7	46	NW	3	NW	4	.....	.....	0	2 ci., nw	
28	29.65	29.87	55.0	57.0	64	52	53.0	88	53.0	77	SE	5	SW	3	....	.44	0	4 a. cu., nw	
29	30.00	29.93	46.7	60.6	64	45	45.8	94	50.2	47	W	3	NW	4	.....	.....	10 s., 0	Few cu., 0	
30	29.85	29.71	44.5	65.6	67	41	43.7	94	54.2	46	NW	4	SW	2	.....	.....	10 s., 0	10 ci. s., sw	⊖
Mn	29.90	29.86	52.4	69.3	71.9	51.0	50.1	86.1	57.7	51.3	NW	3.8	NW	5.9	.30	.83	4.2 s., s. cu., sw	5.0 ci. s., s	

OCTOBER, 1903.

1	29.77	29.80	43.8	61.4	65	44	43.0	94	53.4	58	S	2	N	3	.....	.....	Few s., 0	8 s. cu., nw	⊖
2	29.87	29.87	49.4	56.4	57	48	47.2	85	53.0	80	S	3	SW	2	....	0.04	10 s., 0 (?)	10 n., s	
3	29.86	29.76	52.0	54.0	58	51	50.2	88	53.0	94	SW	1	SE	5	0.03	.28	10 s., 0 (?)	10 n., se	
4	29.76	29.87	57.8	57.4	59	54	54.8	83	53.1	75	S	10	W	1	.24	.06	10 s., s	10 n., sw	
5	29.75	29.47	54.0	61.0	61	54	51.0	82	56.0	73	SW	12	SW	9	.06	.17	10 s., 0 (?)	10 s., w	
6	29.81	29.98	51.0	60.6	64	50	47.8	80	52.2	56	SW	8	N	3	.26	.01	4 s., nw	6 cu., w	
7	30.03	29.81	46.5	58.8	61	44	46.0	96	52.4	65	N	3	N	6	.....	.....	10 s. 0 (?)	10 s., sw	
8	29.80	29.67	48.0	59.6	63	42	43.0	100	53.2	66	SE	3	NW	5	.....	.....	Lt. fog, se	10 s., sw	
9	29.58	29.49	50.0	54.0	55	50	48.7	91	53.0	94	SE	5	NW	2	T.	.44	10 n. 0 (?)	10 n., sw	
10	29.52	29.80	53.8	61.5	62	52	52.5	92	55.5	68	SE	4	W	8	.12	.17	10 n. 0 (?)	8 s. cu., nw	
11	30.07	30.18	54.3	62.7	63	54	51.8	85	56.7	69	SW	10	SE	3	T.	T.	10 s., 0 (?)	10 s. cu., sw	
12	30.10	29.89	49.8	71.5	74	49	49.8	100	61.2	55	N	2	NW	2	.....	.....	Lt. fog., n	0	
13	30.04	30.12	53.2	61.3	64	48	52.2	94	53.0	57	NW	6	NW	7	.....	.....	0	2 s., 0	
14	30.16	30.04	43.4	65.3	68	42	43.0	97	50.0	30	N	4	NE	10	.....	.....	0	2 ci. s., sw	
15	30.00	29.88	47.0	59.2	74	46	45.0	86	55.2	39	NW	4	NW	2	.....	.....	0	0	
16	29.91	29.82	46.5	71.0	74	46	45.6	94	56.0	37	N	2	E	2	.....	.....	0	0	⊖
17	29.90	29.88	45.0	72.3	74	43	44.0	93	65.0	68	SE	4	S	2	.....	.....	0	0	⊖
18	30.00	29.98	51.6	61.5	62	49	50.3	92	56.2	72	NW	2	S	2	.....	.....	10 s., 0 (?)	8 ci. s., sw	
19	30.05	30.00	46.5	59.0	59	46	46.5	100	55.6	78	S	3	S	4	.....	.....	10 s., 0 (?)	3 ci., w	≡a Lt. sm'ke p.
20	30.00	30.01	47.2	58.0	59	45	47.2	100	54.5	80	S	2	NW	4	.....	.....	10 s., 0 (?)	Few ci., w	≡a Lt. sm'ke p.
21	30.06	29.93	52.8	64.0	64	48	51.5	92	58.0	70	NW	5	NW	8	.....	.....	10 s., 0 (?)	0	
22	29.94	29.87	50.0	72.8	77	49	49.0	93	57.0	36	NW	6	SE	4	.....	.....	0	0	
23	29.98	29.89	47.0	68.2	72	46	45.5	89	57.2	50	SE	3	S	3	.....	.....	0	0	Lt. smoke p.
24	29.91	29.98	48.4	58.2	62	45	48.4	100	52.2	66	NW	4	SW	6	.....	.....	D. fog, nw	10 s., sw	
25	30.03	29.98	49.2	66.2	68	48	46.2	80	57.2	57	W	1	NW	4	T.	.....	3 s., sw	Few s. s., nw	Lt. smoke p.
26	30.01	29.96	45.4	66.0	69	45	45.4	100	58.0	61	E	2	S	2	.....	.....	Lt. fog, e	7 ci cu., sw	Lt. smoke p.
27	30.00	29.97	51.4	57.0	58	51	50.3	98	56.0	94	SE	5	SE	6	....	.15	10 s., 0 (?)	10 n., sw	
28	29.94	30.04	58.5	57.2	60	51	56.2	87	52.7	74	S	8	W	4	.15	.02	10 s., sw	8 s. cu., w	
29	30.21	30.11	45.8	64.8	68	46	44.8	93	48.8	65	SE	2	N	3	T.	.....	10 s., nw	Few ci., w	
30	29.92	29.77	41.2	54.7	61	40	41.2	100	49.7	70	NW	8	SE	10	.....	.....	Lt. fog., nw	9 s., sw	⊖
31	29.82	29.81	39.0	57.0	59	38	39.0	100	52.0	71	SE	7	SE	5	.....	.....	Lt. fog, se	10 s. s., sw	◐
Mn	29.93	29.89	48.9	61.7	64.0	47.2	47.6	92.2	54.7	65.4	SE	4.5	NW	4.4	.86	1.34	5.1 s., nw	5.5 s., sw	

PORTLAND, OREG.

[φ=45° 32′ N; λ=122° 43′ W; barometer above sea, 154 feet; gravity correction applied 0.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.78	29.72	45.8	64.0	65	43	45.0	94	55.0	56	NW	6	SE	6	.....	.....	0	8 a. cu., sw	
2	29.86	29.85	54.6	53.2	63	51	53.6	94	51.6	90	S	3	NW	3	0.25	0.45	10 n., sw	10 s., s	
3	29.75	29.55	49.2	63.0	63	48	49.0	98	54.0	55	NW	4	SE	7	.03	.01	10 s., nw	10 s., s	
4	29.64	29.90	54.0	50.0	55	46	53.2	95	47.0	80	S	6	S	6	.23	.11	10 n., 0 (?)	7 s., s	
5	29.78	29.62	46.4	57.0	57	45	45.2	91	55.0	88	SE	3	SW	16	.15	.25	10 n., 0 (?)	10 n., s	
6	29.59	29.75	52.2	48.0	58	48	52.0	99	47.2	94	NW	1	SE	14	2.58	.90	10 n., 0 (?)	10 n., s	
7	29.78	29.91	45.5	45.0	51	45	43.7	87	43.0	86	S	4	SE	7	T.	.06	10 s., 0 (?)	10 s., sw	
8	30.12	30.04	40.5	48.8	51	40	39.0	88	43.7	66	SW	10	SE	8	.07	.....	Few s., 0	10 s. cu., s	
9	29.74	29.99	48.0	43.8	50	42	45.0	79	40.4	75	W	12	SW	6	.41	.01	10 s., 0 (?)	4 s., w	
10	30.00	29.79	39.0	40.2	44	37	38.0	92	38.2	83	SW	3	SE	6	.21	.04	10 s., sw	10 n., sw	
11	29.08	29.58	53.0	45.2	54	43	47.0	63	43.2	86	W	30	SW	12	.79	.16	Few s., w	10 s., sw	
12	29.65	29.57	40.0	45.0	46	38	38.8	90	43.0	86	SE	7	SW	4	.04	.04	10 s., w	10 s., sw	
13	29.67	29.35	43.2	43.2	44	41	42.0	90	40.8	82	SE	3	SE	5	.05	.23	10 s., 0 (?)	10 n., s	
14	29.22	29.60	44.0	40.0	46	40	42.5	89	38.0	83	SW	10	SW	10	.73	.20	10 n., 0 (?)	10 n., sw	△
15	29.81	30.12	37.6	38.8	46	36	36.2	88	37.0	89	SW	13	NW	7	.29	.11	8 s., sw	10 n., n	△
16	30.22	30.27	36.8	41.6	43	35	36.0	93	39.2	81	E	3	NW	3	.12	.02	10 s., se	9 s., n	
17	30.15	29.98	37.8	38.2	42	35	33.0	59	33.2	58	E	18	E	22	.....	.....	0	10 a. s., nw	
18	29.81	29.66	36.3	34.6	40	34	31.0	53	33.2	87	E	12	E	11	.....	.08	10 s., 0 (?)	10 n., s	—²
19	29.52	29.49	36.3	38.0	39	34	35.0	88	37.0	91	E	12	S	5	.06	.42	10 n., 0 (?)	10 n., s	
20	29.74	29.74	38.6	43.2	44	37	37.2	88	41.2	85	NW	4	NW	2	.17	.36	10 s., sw	10 s., sw	
21	29.76	29.97	43.8	49.8	52	42	43.0	94	48.4	91	NW	4	SE	6	.18	.25	10 n., 0 (?)	10 s., s	
22	30.05	29.90	41.4	46.2	47	39	41.0	97	44.8	90	N	2	NW	2	.....	.....	1 s., 0	10 s., w	
23	29.86	29.93	41.8	42.0	49	37	39.8	85	42.0	100	E	3	NW	2	.05	.....	0	D. fog, 0	
24	29.97	29.96	31.0	46.6	47	31	31.0	100	42.0	69	SE	2	SE	9	.....	.....	D. fog 0	10 s., s	
25	29.99	29.94	44.8	49.0	50	45	41.0	72	45.0	73	SE	6	SE	2	.....	.....	10 s., 0	10 s. cu., sw	
26	29.95	29.90	46.0	59.0	60	45	45.3	95	51.8	61	NW	2	SE	5	T.	.11	10 s., 0 (?)	10 s., sw	☂
27	30.00	29.87	48.3	55.6	62	45	46.0	84	50.0	67	NW	2	NW	3	.....	.....	4 a. s., 0 (?)	Few ci. s., 0	
28	29.82	29.89	49.8	49.0	51	44	44.0	62	46.0	80	SE	6	E	4	.....	.02	0	10 n., sw	
29	30.04	30.08	47.0	57.0	57	46	46.0	93	54.2	83	SW	2	SE	4	.47	T.	10 s., 0 (?)	10 s. cu., sw	
30	30.05	29.90	46.5	57.0	63	45	46.0	96	54.0	82	NW	1	SE	5	T.	.....	Lt. fog., 0 (?)	0	
Mn	29.81	29.83	44.0	47.7	51.1	41.2	42.2	86.5	44.6	79.9	NW	6.4	SE	6.7	6.88	3.83	6.8 s., sw	8.6 s., s., sw	

DECEMBER 1903.

1	29.81	30.16	45.0	49.0	54	43	45.0	100	44.0	67	SE	8	NW	7	.....	0.31	Lt. fog, se	1 s. cu., nw	
2	30.37	30.29	34.0	40.8	43	32	34.0	100	38.8	84	S	1	NW	4	.....	.....	D. fog, s	0	
3	30.27	30.11	37.2	46.8	51	33	35.0	81	37.4	37	NW	4	NE	12	.....	.....	2 ci. s., 0 (?)	0	
4	30.06	30.00	41.2	43.4	47	39	35.2	54	36.4	48	E	12	E	14	.....	.....	1 ci. s., 0 (?)	4 ci. s., nw	☂
5	30.16	30.23	34.0	43.7	47	31	32.2	83	39.0	65	SW	3	NW	3	.....	.....	1 s., sw	10 s. cu., sw	
6	30.29	30.26	39.0	42.0	47	35	36.0	75	38.8	75	N	2	E	4	.....	.....	10 s. cu., nw	5 a. s., nw	
7	30.25	30.24	38.0	40.6	46	34	37.0	91	37.2	72	NE	4	E	5	.....	.....	10 s., 0 (?)	Few a. s., 0	
8	30.18	30.15	38.0	41.0	47	36	33.8	64	36.0	61	E	14	NE	14	.....	.....	0	0	
9	30.16	30.15	35.4	37.2	42	33	31.8	67	34.6	77	E	5	E	10	.....	.....	0	0	
10	30.12	29.95	31.3	33.4	35	30	31.0	97	32.4	90	NW	3	SE	5	.....	.05	1 ci., nw	10 s., s	☂
11	29.93	29.88	35.0	41.2	41	34	34.8	98	40.6	95	NW	1	NW	4	0.04	.02	10 s., 0 (?)	10 n., 0	≡⁰
12	29.79	29.80	42.8	50.6	52	40	42.5	98	48.6	87	SE	4	S	4	.12	.15	10 n., 0 (?)	10 s., sw	
13	30.00	30.02	43.4	45.0	50	40	43.0	97	44.0	93	0	0	NW	6	.....	T.	10 s., 0 (?)	3 s., nw	
14	30.01	29.95	41.6	44.2	46	39	40.5	91	43.2	93	SE	4	N	2	.....	.23	10 s., 0 (?)	10 n., 0 (?)	
15	29.80	29.60	44.2	48.2	51	42	43.2	93	47.6	95	W	2	E	2	.19	.21	10 s., 0 (?)	10 n., s	
16	29.60	29.75	49.5	47.6	52	43	47.4	86	44.2	76	SE	8	SW	4	.59	.08	10 n., 0 (?)	10 s. cu., sw	
17	29.80	29.74	38.7	44.8	46	39	38.0	94	42.8	86	SW	1	NW	2	.01	T.	10 s., 0 (?)	10 s., s	
18	29.80	29.80	40.0	44.0	47	39	39.0	92	40.0	71	SE	5	NE	5	.01	.01	5 s., sw	10 s., s	
19	29.77	29.72	45.0	50.8	51	40	44.7	98	48.0	82	E	3	SW	8	.10	.30	10 s., 0 (?)	10 s., sw	
20	29.92	30.05	46.2	48.0	50	46	44.7	89	46.0	86	SW	12	SW	10	.33	.07	10 n., sw	10 s., sw	
21	30.09	30.14	46.0	50.0	51	46	44.8	91	48.0	87	SW	6	SE	8	.23	.02	10 s., sw	10 s., s	
22	30.10	30.22	46.3	48.2	52	43	44.5	87	46.2	86	SW	10	W	5	.03	.03	5 s., sw	9 s. cu., sw	
23	30.37	30.38	39.0	37.2	43	36	39.0	100	37.2	100	0	0	N	3	.01	.....	10 s., 0 (?)	D. fog., 0	≡ⁿa.
24	30.38	30.30	36.3	38.2	38	34	35.3	100	37.2	91	S	2	NW	3	.....	.....	10 s., 0 (?)	10 s., 0 (?)	≡ⁿa.
25	30.27	30.32	34.2	37.3	41	33	33.5	93	36.5	93	SE	4	SE	4	.....	.....	2 s., e	8 ci. s., w	
26	30.31	30.27	34.0	40.2	41	34	33.0	90	36.6	71	SE	2	E	4	.....	T.	0	10 a. s., w	
27	30.28	30.18	33.2	38.4	39	30	32.6	94	38.4	100	NW	4	NW	4	T.	.....	0	D. fog, 0	
28	30.18	30.14	33.8	38.2	42	30	31.6	79	34.2	66	S	2	SE	8	.....	.....	0	9 a. cu., w	
29	30.18	30.02	34.2	39.6	46	29	32.0	79	35.2	64	NW	3	E	12	.....	.....	0	Few a. s., 0	
30	29.98	29.83	33.6	38.0	41	30	30.8	73	34.0	66	SE	8	NW	5	.....	.....	0	10 s., s	
31	29.77	28.88	38.0	39.2	40	33	30.0	70	34.6	68	SE	6	E	2	.....	.....	0	10 s., ne	
Mn	30.06	30.05	38.8	42.6	45.8	36.3	37.3	87.2	39.8	78.3	SE	4.6	NW	5.9	1.66	1.48	5.1 s., sw	6.4 s., s., sw	

SAN FRANCISCO, CAL.

[φ=37° 48′ N; λ=122° 26′ W; barometer above sea, 155 feet; gravity correction applied, −02.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.99	30.09	48.7	47.5	49	44	48.2	96	45.5	86	N	6	N	6	0.15	.....	10 s., n	10 s., n	
2	30.17	30.19	44.5	47.5	50	42	44.0	96	45.0	82	SE	6	NE	5	.....	.....	10 s., se	9 s., ne	
3	30.25	30.20	44.0	46.0	49	42	42.0	85	44.8	91	N	11	N	11	.....	.....	6 s., n	9 a. s., n	
4	30.19	30.14	42.4	49.3	53	41	41.4	92	47.0	84	SE	8	NW	7	.....	.....	0	4 ci., w	
5	30.15	30.13	42.1	46.7	49	40	41.0	91	44.0	81	NW	12	NW	7	.....	.....	0	0	
6	30.06	29.96	48.0	50.0	51	40	41.0	85	46.0	74	N	12	NW	7	.....	.....	0	8 ci. s., sw	Lt. smoke, p.
7	29.99	30.02	43.3	53.0	55	42	42.1	91	50.0	81	NW	8	NW	4	.....	.....	5 a. cu., w	9 s. cu., nw	≡a.
8	30.08	30.04	49.3	56.3	58	46	48.8	96	52.0	74	W	1	NW	7	.....	.....	6 s., w	Few s., nw	Lt. smoke, p.
9	30.01	29.92	44.7	49.2	50	41	44.7	100	47.0	84	N	3	N	4	.....	.....	D. fog, n	8 ci. s., w	
10	29.89	29.90	48.0	48.2	49	43	45.8	85	45.1	79	N	7	N	7	.....	.....	8 s., n	5 a. cu., nw	
11	29.97	29.95	42.0	48.0	51	40	42.0	100	46.0	86	NW	6	NW	8	.....	.....	D. fog, nw	2 ci., e	
12	30.03	30.04	44.9	52.0	55	42	42.0	80	47.2	70	N	8	NW	6	.....	.....	0	1 ci., ne	Lt. smoke, p.
13	30.04	29.91	40.0	47.8	50	38	39.0	92	45.0	81	NW	7	NW	6	.....	.....	0	Lt. smoke, 0	—≡a.
14	29.89	29.86	38.9	42.3	44	37	38.0	92	40.8	88	NW	13	W	12	.....	.....	0	Few a. s., ne	—≡a.
15	29.91	29.91	40.0	46.0	48	37	38.5	87	43.0	79	N	8	N	6	.....	.....	9 s., s	0	
16	29.99	30.03	41.0	49.0	50	38	39.5	88	46.0	80	N	6	N	7	.....	.....	Few ci., w	0	—c
17	30.09	30.11	43.1	51.3	53	42	43.1	100	48.1	80	N	1	N	8	.....	.....	D. fog, n	0	
18	30.15	30.16	43.4	51.1	52	41	43.4	100	49.6	90	S	3	W	16	.....	.....	D. fog, 0 (?)	2 ci., w	≡p.
19	30.19	30.17	48.0	52.0	54	46	48.0	100	51.1	95	SE	8	W	12	.....	0.01	D. fog, 0 (?)	8 s., w	
20	30.21	30.20	51.2	54.0	56	49	51.2	100	54.0	100	S	2	W	14	.....	T.	10 s., s	10 n., w	
21	30.16	30.07	53.9	54.4	56	51	52.9	94	53.4	94	SW	6	SW	10	.01	.03	10 s., sw	10 n., sw	
22	30.08	30.10	50.0	53.0	56	48	50.0	100	52.0	94	SE	3	W	5	.24	T.	10 s., se	10 n., sw	
23	30.08	30.10	52.6	56.8	59	49	52.1	97	56.0	95	SE	7	SW	6	.08	.58	10 n., se	8 a. cu., w	
24	30.08	29.91	56.0	55.8	57	54	55.5	97	54.9	95	SW	5	SW	12	.01	.04	10 n., sw	10 n., sw	
25	29.77	29.79	50.8	50.3	56	48	48.2	83	45.0	66	W	12	W	12	.35	.....	0	10 a. s., w	
26	29.66	29.64	45.5	53.1	57	44	45.0	96	50.1	81	SE	18	W	8	.04	.39	10 n., se	10 s., w	
27	29.48	29.59	56.5	48.3	58	47	55.8	96	47.3	93	S	26	W	7	.30	.70	10 n., s	10 n., w	
28	29.87	30.07	44.2	48.0	51	42	40.5	73	42.5	63	W	10	W	12	.01	T.	Few ci., 0 (?)	Few cu., 0	
29	30.17	30.06	42.3	51.0	52	40	40.6	87	45.0	62	E	1	W	7	.....	.....	0	0	—c
30	29.81	29.72	47.8	48.8	53	44	44.3	76	47.1	88	SE	15	W	5	T.	.61	10 n., se	9 a. cu., w	
31	29.78	29.72	44.0	47.0	48	42	41.5	81	43.8	77	NW	4	S	8	.07	.08	4 a. cu., nw	10 s., sw	
Mn	30.00	29.99	46.0	50.1	52.6	43.2	44.8	91.5	47.6	83.0	N	7.9	W	7.9	1.29	2.44	4.5 s., se	5.5 s., w	

FEBRUARY, 1903.

1	29.6	29.64	39.0	46.8	48	39	38.0	92	41.0	60	NW	15	NW	13	0.62	0.01	10 n., nw	3 s., nw	
2	29.80	29.89	41.0	47.1	48	39	34.0	46	39.1	46	N	10	NW	6	.....	.....	0	0	
3	29.93	29.76	40.0	45.0	45	38	37.0	75	42.1	79	SE	9	NW	7	.....	.27	2 a. cu., 0 (?)	10 s., nw	—c*
4	29.88	29.86	39.5	46.5	49	37	36.5	76	40.0	56	NE	15	W	8	.01	.....	2 s., ne	0	—c
5	29.92	29.96	41.6	49.0	51	39	38.0	72	43.0	61	N	3	NW	8	.....	.....	0	0	—c
6	30.07	30.06	42.1	50.0	51	39	38.1	68	43.0	55	W	2	W	3	.....	.....	0	8 a. cu., w	—cLt. smoke, p.
7	30.05	29.76	44.6	47.0	51	43	41.2	76	46.9	100	SE	8	SE	24	.....	.31	10 s., se	10 n., se	⊓▲
8	29.94	30.07	46.8	51.0	53	47	43.5	77	46.2	69	W	1	W	13	.43	.....	6 s., w	8 ci. s., nw	
9	30.18	30.22	43.8	51.7	53	40	43.0	94	48.0	77	N	3	W	11	.....	.....	10 s., n	Few a. s., 0 (?)	
10	30.23	30.17	45.6	52.0	54	42	44.6	93	48.7	79	NW	4	NW	7	.....	.....	Few s., 0 (?)	0	
11	30.10	29.92	48.0	50.0	53	46	48.0	100	44.1	62	NE	3	NW	25	.....	.10	D. fog, 0 (?)	1 ci., w	
12	29.89	29.87	44.0	47.0	48	42	38.5	60	37.0	34	N	8	NE	12	.....	.....	0	0	
13	29.79	29.80	39.6	48.0	49	37	30.5	28	38.0	35	N	13	N	16	.....	.....	0	0	—2
14	29.90	29.93	40.0	47.8	51	38	31.5	33	40.2	49	N	12	W	12	.....	.....	0	0	—2
15	29.98	30.03	38.6	50.8	51	37	36.0	79	40.8	39	S	3	N	3	.....	.....	0	0	—2
16	30.07	30.06	42.3	54.0	54	40	37.8	65	44.0	42	N	6	N	5	.....	.....	7 ci., w	6 ci., w	—⊓
17	30.07	29.94	41.2	56.7	57	40	38.1	75	48.0	52	N	4	N	5	.....	.....	Few ci., 0 (?)	0	
18	29.95	29.97	45.0	56.8	58	43	41.5	74	47.3	48	N	3	NW	9	.....	.....	6 ci., 0 (?)	7 ci., s	—⊓
19	30.06	30.04	45.4	62.8	64	42	42.1	76	52.8	50	N	4	NW	5	.....	.....	0	5 ci., sw	—
20	30.13	30.16	47.3	59.0	61	45	45.0	84	49.7	50	NW	2	W	7	.....	.....	8 s. cu., w	0	
21	30.23	30.12	48.5	58.0	59	46	47.0	90	50.8	61	NW	3	NW	5	.....	.....	0	10 s., nw	
22	30.02	29.99	50.4	54.0	61	49	48.0	84	53.2	95	N	1	W	12	.....	.01	10 s., n. (?)	10 n., sw	≡a.
23	30.14	30.11	48.5	54.0	56	47	48.0	96	52.0	88	E	1	W	15	T.	.....	8 s., e	Few s., w	
24	30.08	29.96	47.0	63.7	65	44	47.0	100	54.0	52	SE	3	NW	6	.....	.....	D. fog, 0 (?)	0	
25	29.98	29.76	56.0	54.5	62	52	47.0	50	51.5	82	NW	5	W	18	.....	.....	0	Lt. fog, w	
26	29.83	29.85	52.6	59.7	66	50	45.9	62	49.0	45	N	10	W	14	.....	.....	0	Few ci., nw	
27	29.91	29.85	48.0	54.0	64	47	46.0	86	51.3	84	SE	3	W	20	.....	.....	10 s., se	2 ci. cu., nw	
28	29.88	29.88	48.0	63.0	64	45	47.6	97	50.8	41	S	1	NE	5	.....	.....	0	0	
Mn	29.98	29.95	44.8	52.9	55.2	42.6	41.4	75.3	46.2	60.4	N	5.5	W	10.5	1.06	.70	3.2 s., w	2.9 ci., nw	

SAN FRANCISCO, CAL.

[$\varphi = 37° 48'$ N; $\lambda = 122° 26'$ W; barometer above sea, 155 feet; gravity correction applied, −.02.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.96	29.86	48.8	57.0	64	47	46.8	86	51.0	66	SE	4	W	10	.....	.....	0	3 ci. cu., w	
2	29.80	29.72	51.3	49.7	55	47	49.1	86	48.2	90	S	6	S	6	.....	0.04	4 s., sw	10 n., s	
3	29.70	29.75	47.1	51.0	52	46	45.0	85	45.0	62	NW	6	SW	9	0.14	T.	8 s., sw	4 cu., sw	
4	29.75	29.66	45.0	45.3	49	43	43.0	86	43.5	87	S	16	SE	10	.05	.70	10 n., s	8 s., sw	
5	29.75	29.90	44.0	50.9	52	42	42.0	85	45.0	62	N	3	W	10	.14	.03	6 s., w	3 cu., w	
6	30.01	30.03	44.8	51.3	54	43	43.5	91	45.8	65	SE	5	W	12	.....	.....	0	Few cu., 0 (?)	
7	30.00	29.85	45.0	52.0	52	44	43.9	91	45.8	62	E	4	S	6	.....	.....	0	10 s., s	
8	29.73	29.85	48.6	49.4	52	46	46.0	82	44.0	65	SE	20	W	24	.22	.03	8 s., se	1 s., w	
9	30.03	30.07	44.8	53.7	56	44	42.3	82	48.2	67	E	4	W	10	.....	.....	0	3 ci., nw	
10	30.08	30.04	46.7	51.8	57	45	44.8	87	48.0	76	N	2	SW	22	.....	.....	4 ci. s., 0 (?)	7 ci., sw	
11	30.01	29.94	50.2	58.0	60	49	47.0	79	52.0	66	W	4	SW	7	.....	.....	10 s., w	8 s. s., sw	
12	29.85	29.77	50.0	53.4	55	48	48.5	90	52.0	91	SE	10	SE	6	.....	.10	10 s., se	10 n. se	
13	29.69	29.63	51.6	52.1	56	49	50.9	96	50.1	87	SE	14	SE	11	.78	.57	10 n., se	10 s., se	
14	29.73	29.79	47.7	49.1	52	47	44.5	77	44.0	66	W	10	W	14	.02	T.	8 s., sw	4 cu., w	
15	29.82	29.84	47.0	51.4	52	46	41.0	59	45.0	60	W	2	SW	10	.....	.....	10 s., w	1 cu., 0 (?)	
16	29.76	29.84	44.2	45.1	48	41	43.3	94	42.1	78	S	4	SW	12	.56	.22	10 s., w	10 n., sw	▲
17	29.92	29.94	43.2	52.0	53	43	42.2	92	46.8	68	E	6	W	15	.01	.....	2 s., w	2 s., w	□
18	29.97	29.96	44.9	51.7	57	44	43.9	93	48.0	77	E	4	W	20	.....	.....	0	9 a. s., w	
19	29.99	30.00	47.1	58.3	60	46	46.0	92	47.3	42	E	5	N	4	.....	.....	7 ci. s., 0 (?)	9 a. s., w	
20	30.00	29.97	48.3	61.7	64	47	45.8	88	52.0	42	N	5	NW	5	.....	.....	2 ci., w	8 a. cu., s	
21	29.93	29.83	50.5	63.4	64	50	48.5	87	55.2	59	N	8	N	3	.....	.....	3 ci., 0 (?)	9 a. s., s	
22	29.82	29.78	53.7	60.0	64	53	50.7	82	51.0	53	N	2	W	13	.....	.02	10 s., n	8 ci. s., s	
23	29.77	29.70	53.1	57.4	60	52	50.0	81	53.2	76	S	2	SW	10	.....	.....	3 a. cu., sw	7 ci. s., w	
24	29.64	29.57	52.4	56.1	59	51	50.4	87	52.6	79	W	4	W	12	.01	T.	10 s., w	8 ci., s. se	
25	29.66	29.82	52.3	55.5	58	51	50.2	86	50.0	68	N	2	W	13	T.	.....	10 s., n	1 s.w	
26	29.95	29.99	51.7	57.0	59	51	48.9	82	52.0	71	S	3	SW	10	.....	.....	7 a. cu., sw	8 a. s., w	
27	29.96	29.88	54.0	59.0	64	53	52.0	88	51.5	59	NE	2	SW	16	.....	.....	10 s., ne	9 a. s., w	
28	29.80	29.83	53.0	58.2	63	51	52.1	95	53.7	74	SE	26	W	10	.90	.22	10 n., se	5 a. s., w	
29	29.78	29.68	53.5	60.5	60	51	52.6	95	58.0	86	N	5	S	12	.....	.37	10 s., n	10 s., s	
30	29.62	29.80	57.0	54.8	58	54	55.2	89	49.0	66	S	14	W	14	.15	.06	10 s., sw	9 ci. s., w	
31	29.76	29.62	51.0	51.3	54	48	49.5	90	49.8	90	E	4	N	6	.16	.78	10 n., e	10 s., n	
Mn	29.85	29.84	49.1	54.1	56.9	47.5	47.1	86.4	49.0	69.7	N	6.6	W	11.0	3.09	3.14	6.5 s., w	6.6 s., w	

APRIL, 1903.

1	29.70	29.79	49.1	56.0	59	46	46.7	84	51.0	71	N	6	W	20	0.39	T.	10 n., n	8 s., nw	
2	30.00	30.07	50.9	59.2	65	48	47.1	76	51.2	57	NE	2	W	15	.....	.....	0	0	
3	30.08	29.96	50.0	56.6	61	49	49.1	94	52.6	77	W	4	W	18	.....	.....	0	1 ci., w	
4	29.88	29.76	47.9	56.9	58	46	42.4	63	47.8	40	N	8	NW	11	.....	.....	Few s., 0 (?)	0	
5	29.80	29.83	51.9	60.0	62	51	42.2	42	51.0	53	N	12	W	12	.....	.....	0	0	
6	29.91	29.92	49.9	59.2	65	48	47.9	87	52.0	61	SW	2	W	16	.....	.....	0	1 ci., w	
7	29.90	29.80	51.8	62.1	70	50	49.8	87	54.6	61	NW	2	W	16	.....	.....	0	0	
8	29.76	29.67	55.0	60.8	71	53	53.3	90	55.2	70	NW	1	W	21	.....	.....	0	0	
9	29.74	29.83	51.8	48.0	55	46	49.3	84	45.0	79	SW	12	W	18	.....	0.01	2 s., sw	10 n., w	
10	29.96	30.00	43.0	50.8	53	42	37.5	59	43.3	53	W	6	W	16	T.	.....	0	Few s., w	
11	29.98	29.98	45.5	53.3	57	44	41.0	68	45.0	51	N	6	W	14	.....	.....	0	0	
12	30.01	29.97	47.0	55.8	60	46	45.8	91	49.1	62	SE	6	W	18	.....	.....	0	0	
13	29.95	29.86	45.8	52.0	54	44	41.5	69	47.0	69	NW	8	W	23	.....	.....	Few s., 0 (?)	Few s., 0 (?)	
14	29.82	29.74	47.0	54.2	55	46	43.0	72	48.7	67	W	6	SW	12	.....	T.	1 s., w	1 cu., 0 (?)	
15	29.66	29.59	50.4	59.0	62	49	46.0	72	53.0	67	SE	10	NW	7	.....	T.	7 s., s	10 s., se	
16	29.60	29.64	54.1	57.0	61	51	48.9	69	51.0	66	E	22	NW	12	.15	.01	10 n., e	7 s., nw	
17	29.71	29.88	51.0	52.1	55	49	49.0	87	47.2	70	W	12	W	22	.....	.....	7 s., w	9 ci. s., w	⊕
18	29.98	29.97	47.5	51.0	55	46	43.5	72	46.9	75	W	3	W	22	.....	.....	3 s., w	10 ci. s., nw	⊕
19	29.92	29.85	47.5	54.0	59	46	46.2	91	49.0	70	NE	1	W	12	.....	.....	Few s., 0 (?)	8 ci. s., w	⊕
20	29.94	30.04	51.1	58.2	61	50	47.1	75	50.8	59	SE	6	SW	10	.....	.....	7 s., sw	Few ci., w	
21	30.08	30.07	51.9	58.0	63	51	50.4	90	55.0	83	SE	4	W	12	.....	.....	5 a. cu., 0 (?)	8 s., w	
22	30.04	29.93	53.8	59.0	61	52	53.0	95	53.0	67	W	8	W	18	.....	.....	2 s., w	0	
23	29.85	29.81	50.5	59.0	64	50	48.9	89	54.0	72	W	5	W	20	.....	.....	1 s., 0 (?)	7 ci. s., nw	⊕
24	29.86	29.84	50.0	53.8	58	48	49.0	93	51.6	87	SW	10	SW	23	.....	.....	10 s., sw	9 ci. s., s	
25	29.92	29.93	50.0	55.4	57	48	47.2	81	52.7	84	W	12	NW	12	.....	.....	7 s., w	9 s. cu., w	
26	29.92	29.85	47.9	58.1	60	47	43.4	69	51.1	61	NW	6	W	15	.....	.....	Few s., 0 (?)	0	
27	29.80	29.77	52.2	55.3	63	48	46.2	63	50.0	69	NW	4	NW	24	.....	.....	0	0	
28	29.84	29.95	48.7	52.0	55	48	47.2	90	48.3	77	S	8	W	23	.....	.....	9 s., s	2 ci., nw	
29	30.00	30.00	48.1	53.2	56	47	46.1	86	50.0	80	W	6	W	30	.....	.....	2 s., w	2 ci. s., w	
30	30.02	29.94	49.2	54.7	62	48	48.4	94	52.2	85	S	5	W	19	.....	.....	2 s., 0 (?)	5 ci. s., w	≡p.
Mn	29.89	29.88	49.7	55.8	60.0	47.9	46.6	79.4	50.3	68.1	W	6.8	W	17.0	.54	.02	2.8 s., w	3.6 s., w	

SAN FRANCISCO, CAL.

[φ=37° 48′ N; λ=122° 26′ W; barometer above sea, 155 feet; gravity correction applied, −.02.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.90	29.80	50.1	65.0	69	49	49.6	96	58.0	66	S	4	W	16	.....	.....	10 s., s	0	
2	29.82	29.80	49.0	54.2	60	48	49.0	100	52.0	87	W	12	W	24	.....	.....	Lt. fog, w	Lt. fog, sw	
3	29.84	29.81	50.1	53.7	58	49	50.1	100	52.0	90	SW	8	W	25	.....	.....	10 s., sw	3 s., w	≡°
4	29.80	29.75	51.0	54.0	57	50	49.8	92	52.0	88	SW	7	W	18	.....	.....	10 s., sw	7 s., w	≡°p.
5	29.77	29.81	51.1	52.3	56	50	50.3	95	50.0	85	SW	12	W	20	.....	.....	10 s., sw	9 s., w	≡°p.
6	29.84	29.82	50.0	56.0	58	49	48.8	92	52.5	79	W	9	W	24	.....	.....	10 s., w	1 a. s., nw	
7	29.83	29.77	49.8	57.7	63	49	48.2	89	52.1	68	SW	5	W	25	.....	.....	2 ci. s., 0 (?)	3 ci. s., n	
8	29.76	29.67	52.0	61.0	69	51	49.5	84	55.0	68	SW	2	W	24	.....	.....	3 ci. s., 0 (?)	1 ci., n	
9	29.73	29.71	54.1	60.0	70	52	50.9	81	53.9	67	W	3	SW	22	.....	.....	0	4 ci. s., 0 (?)	
10	29.75	29.73	54.2	59.7	67	52	50.7	79	54.2	70	SW	2	W	19	.....	.....	0	0	
11	29.76	29.78	49.0	52.9	56	48	49.0	100	51.2	89	SW	6	W	12	.....	.....	10 s., sw	10 s., w	≡°a.
12	29.85	29.82	48.8	53.0	60	48	48.2	95	51.1	88	W	10	W	30	.....	.....	10 s., sw	1 ci., nw	≡°p.
13	29.87	29.89	48.8	56.0	59	47	48.8	100	55.2	84	SW	7	W	15	.....	.....	10 s., sw	8 s. cu., w	≡°
14	29.89	29.82	53.8	60.0	68	51	48.3	67	54.0	68	N	7	W	22	.....	.....	0	0	
15	29.80	29.72	52.0	58.1	67	51	49.5	82	52.3	68	W	3	W	34	.....	.....	0	0	
16	29.86	29.80	49.5	59.0	60	48	44.3	66	49.0	47	W	14	W	18	.....	.....	Few ci., 0 (?)	0	
17	29.89	29.91	49.5	58.0	62	49	42.8	56	50.0	56	NW	15	W	22	.....	.....	0	0	
18	29.97	29.91	48.1	54.0	58	47	45.1	79	50.0	64	W	10	W	24	.....	.....	Few s., w	Few s., w	
19	29.84	29.75	47.9	51.2	57	46	45.4	83	47.2	75	W	15	W	27	.....	.....	1 s., nw	8 ci. s., w	
20	29.69	29.71	47.0	53.0	58	46	44.6	83	48.0	69	W	15	W	27	.....	.....	1 s., w	1 ci. s., w	
21	29.79	29.86	47.9	54.4	56	47	44.0	74	48.1	63	W	16	W	24	.....	.....	Few s., 0 (?)	Few s. cu., 0 (?)	
22	29.92	29.88	47.7	52.0	56	46	44.7	79	48.0	75	W	6	W	24	.....	.....	Few s., w	Few s., w	
23	29.82	29.76	49.9	57.0	60	47	46.7	78	50.9	66	W	2	W	18	.....	.....	8 s., ne	2 cu., w	
24	29.78	29.73	48.5	53.5	58	47	47.0	99	51.0	84	W	3	W	26	.....	.....	9 s., s	Few ci., n	
25	29.78	29.86	48.8	51.0	53	48	47.8	93	49.7	92	SW	8	W	14	.....	T.	10 s., sw	10 s., w	≡°a.
26	29.90	29.98	49.3	55.0	58	48	49.3	100	51.2	97	W	20	W	28	T.	T.	10 n., w	2 ci., w	
27	29.93	29.89	49.0	59.0	63	48	47.8	92	52.0	62	W	12	W	17	.....	.....	1 s., w	0	≡°a.
28	29.90	29.88	50.9	59.8	70	49	49.0	88	55.0	74	W	1	W	25	.....	.....	0	0	
29	29.84	29.77	52.1	72.5	77	49	50.6	90	60.0	48	W	3	W	24	.....	.....	0	0	≡°a.
30	29.80	29.69	54.3	58.6	72	50	52.0	86	54.1	75	0	0	W	31	.....	.....	0	5 ci. s., w	≡°a.⊕
31	29.72	29.66	50.5	58.0	62	48	50.0	96	53.5	74	S	3	W	23	.....	.....	10 s., s	Few a. s., 0 (?)	
Mn.	29.83	29.80	50.2	56.8	61.8	48.6	48.1	86.6	52.0	73.7	W	7.7	W	22.5	T.	T.	4.4 s., w	2.4 s., w	

JUNE, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.70	29.79	49.0	52.8	56	48	48.0	93	50.0	82	W	24	W	28	.....	.....	3 s., w	3 ci., s	≡°p.
2	29.88	29.96	49.0	56.0	58	48	46.8	85	50.0	65	W	10	W	21	.....	.....	5 a. s., w	0	
3	30.01	29.97	48.5	60.4	62	48	45.5	80	53.7	64	W	7	W	22	.....	.....	Few s., w	0	
4	29.93	29.85	51.1	61.0	67	50	49.4	89	54.0	63	W	2	SW	20	.....	.....	1 s., w	0	
5	29.88	29.73	57.2	82.6	89	54	53.7	80	61.1	27	S	4	W	18	.....	.....	0	0	
6	29.80	29.74	67.5	82.0	96	67	62.5	76	62.6	32	S	4	W	23	.....	.....	0	0	
7	29.78	29.75	59.7	56.2	75	53	56.0	80	54.8	92	W	14	W	27	.....	.....	0	1 s., w	≡°p.
8	29.79	29.72	53.2	54.0	59	52	53.2	100	52.2	89	W	12	W	30	.....	.....	5 s., w	4 s., w	≡°
9	29.73	29.68	50.0	56.0	58	49	50.0	100	53.0	82	SW	10	W	24	.....	.....	10 s., sw	1 s., w	≡°
10	29.75	29.79	50.7	54.2	59	50	50.2	97	52.0	87	SW	9	W	11	.....	.....	10 s., sw	6 s., w	≡°
11	29.84	29.83	51.0	54.2	57	49	50.0	94	51.7	85	W	10	W	28	.....	T	10 s., w	6 a. cu., sw	
12	29.83	29.78	51.0	55.0	60	50	49.0	87	52.0	82	W	12	W	30	.....	.....	4 s., w	Few s., 0 (?)	
13	29.75	29.67	49.5	54.1	59	49	48.8	95	50.8	80	SW	10	W	26	.....	.....	2 s., sw	5 ci. s., w	≡°a.
14	29.67	29.74	51.1	57.0	58	50	50.0	93	53.0	77	W	13	W	23	.....	.....	10 s., w	8 ci. s., sw	
15	29.75	29.82	51.0	58.0	60	50	50.0	94	52.0	66	W	12	W	15	.....	.....	10 s., sw	1 cu., 0 (?)	
16	29.92	29.98	53.3	58.5	62	52	51.8	90	54.0	74	SW	6	W	23	.....	.....	9 s. cu., sw	2 s., w	
17	30.00	29.91	52.9	65.1	67	52	51.5	91	57.0	61	W	8	W	14	.....	.....	3 ci. s., w	0	≡°a.
18	29.87	29.83	56.7	61.0	65	56	53.4	80	56.0	73	0	0	W	23	.....	.....	0	0	
19	29.85	29.83	54.0	61.0	65	53	51.5	85	55.3	70	SW	7	W	25	.....	.....	5 ci. s., sw	0	
20	29.83	29.78	52.0	58.6	58	51	52.0	100	52.7	95	W	15	W	34	.....	.....	10 s., w	10 s., w	≡°a.
21	29.78	29.80	50.5	59.0	61	50	50.5	100	55.0	78	W	20	W	25	.....	.....	10 s., w	Lt. fog, 0	≡°a.
22	29.81	29.82	53.1	58.0	63	52	52.1	94	55.0	83	W	5	W	29	.....	.....	3 a. s., w	Lt. fog, w	
23	29.79	29.75	51.5	61.0	70	51	50.8	96	54.7	66	W	2	W	25	.....	.....	3 ci., 0 (?)	1 ci., nw	≡°a.
24	29.78	29.73	57.9	67.0	71	55	53.4	74	58.0	58	E	1	W	25	.....	.....	1 ci. s., 0 (?)	0	
25	29.74	29.72	52.6	60.0	62	51	52.0	100	54.7	71	W	8	W	28	.....	.....	0	Few ci., 0 (?)	≡°a.
26	29.77	29.74	54.0	71.7	75	51	51.3	84	59.0	46	W	6	W	7	.....	.....	1 ci., 0 (?)	3 ci. s., nw	
27	29.80	29.73	56.5	67.9	74	54	53.0	80	58.8	37	W	3	W	24	.....	.....	1 ci., 0 (?)	Lt. fog, w	≡°a.
28	29.74	29.66	54.0	61.2	69	53	52.0	88	58.0	83	W	5	W	28	.....	.....	Few ci., w	7 ci. s., w	≡°
29	29.63	29.65	53.3	57.0	60	52	52.3	94	53.0	77	W	28	W	26	.....	.....	10 s., w	0	≡°u.
30	29.69	29.71	51.0	60.2	65	50	49.5	90	54.0	67	W	7	W	20	.....	.....	1 s., w	0	≡°a.
Mn.	29.80	29.78	53.1	60.5	65.3	51.7	51.3	89.6	54.4	70.4	W	9.1	W	23.4	0	T.	4.2 s., w	1.9 s., w	

SAN FRANCISCO, CAL.

[φ=37° 48′ N; λ=122° 26′ W; barometer above sea, 155 feet; gravity correction applied, — .02.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1...	29.77	29.69	52.8	67.2	72	52	51.0	88	57.0	52	SW	4	W	12	.....	.....	Few s., sw	0.....	
2...	29.69	29.62	67.2	82.5	91	60	56.0	48	62.0	30	N	12	W	12	.....	.....	0.....	0.....	
3...	29.65	29.72	78.9	70.0	89	58	56.7	22	57.6	44	N	12	W	22	.....	.....	0.....	0.....	
4...	29.77	29.74	54.1	55.1	61	51	51.9	87	52.8	86	SW	3	SW	24	.....	.....	Lt. fog, 0	0.....	
5...	29.72	29.66	51.0	57.7	62	50	48.8	86	51.0	63	SW	8	W	24	.....	.....	0.....	0.....	
6...	29.78	29.80	50.5	64.0	65	50	47.5	80	54.0	51	W	7	W	16	.....	.....	Few s., w	0.....	
7...	29.81	29.77	51.0	60.2	65	50	49.0	87	54.2	68	W	5	W	24	.....	.....	0.....	0.....	
8...	29.84	29.79	50.5	54.1	58	49	50.0	96	52.8	92	SW	8	W	32	.....	.....	10 s., sw.....	2 s., w.....	
9...	29.82	29.78	49.5	54.0	60	48	49.5	100	52.0	88	SW	6	W	28	.....	.....	10 s., sw.....	Few s., w	≡
10...	29.85	29.84	49.2	52.5	58	48	49.2	100	51.0	90	SW	6	SW	21	.....	.....	10 s., sw.....	1 s., w.....	≡°
11...	29.90	29.84	50.0	56.9	59	49	50.0	100	52.4	74	SW	11	W	24	.....	.....	10 s., sw.....	2 ci. s., w.....	≡°
12...	29.84	29.86	49.0	57.0	59	48	49.0	100	52.0	71	SW	13	W	23	.....	.....	10 s., sw.....	0.....	≡ca.
13...	29.88	29.85	51.3	59.0	61	49	50.0	92	54.0	72	W	14	W	21	.....	.....	10 s., w.....	Few a. s., 0 (?).....	
14...	29.84	29.81	51.0	56.1	63	50	50.0	94	53.0	81	W	8	W	24	.....	.....	6 ci. cu., w	3 a. cu., w.....	≡ca.
15...	29.89	29.88	52.0	60.0	62	50	50.5	90	56.0	78	W	12	W	21	.....	.....	10 s., w.....	Few s., w	
16...	29.90	29.87	52.5	54.0	57	50	51.0	90	52.0	88	W	12	W	23	.....	.....	10 s., w.....	6 s., w.....	≡cp.
17...	29.86	29.82	51.0	52.1	58	49	50.0	94	51.0	93	SW	9	W	26	.....	.....	10 s., sw.....	10 s., w.....	≡ca.
18...	29.85	29.84	50.1	54.2	56	49	50.1	100	52.0	87	SW	12	W	24	.....	.....	10 s., sw.....	6 s., w.....	≡ca.
19...	29.86	29.83	50.2	57.0	60	49	50.2	100	54.0	82	W	7	W	35	.....	.....	10 s., w.....	Few s., w	≡°
20...	29.82	29.84	53.0	57.0	63	50	52.8	96	55.2	89	W	10	W	11	.....	.....	10 s., w.....	9 s., w.....	
21...	29.89	29.88	53.2	58.7	62	52	52.2	94	54.7	78	W	6	W	18	.....	.....	4 s., w.....	7 s., w.....	
22...	29.92	29.88	54.8	60.2	64	53	52.8	88	56.0	77	W	6	W	18	.....	.....	6 s., w.....	2 s., w.....	
23...	29.93	29.95	55.1	62.0	66	54	54.1	94	56.0	69	W	6	W	25	.....	.....	6 s., w.....	0.....	
24...	29.94	29.88	54.5	61.4	65	52	52.8	90	56.4	73	0	0	W	21	.....	.....	Lt. fog, 0	0.....	
25...	29.85	29.81	53.7	57.2	62	52	52.2	91	54.8	86	SW	6	W	23	.....	.....	10 s., sw.....	0.....	
26...	29.85	29.85	52.5	54.0	63	52	51.8	96	52.0	88	S	8	SW	24	.....	.....	10 s., s.....	1 s., sw.....	≡cp.
27...	29.92	29.88	51.8	56.7	62	50	51.3	97	54.0	84	SW	8	W	25	.....	.....	10 s., sw.....	2 ci. s., w.....	≡°
28...	29.91	29.86	51.0	57.0	61	50	50.2	95	54.5	85	SW	8	SW	20	.....	.....	10 s., sw.....	5 ci. s., sw.....	≡cp.
29...	29.86	29.81	51.1	54.0	59	48	51.1	100	52.7	92	SW	6	W	26	.....	.....	10 s., sw.....	6 s., w.....	≡°
30...	29.81	29.75	52.7	60.0	62	51	51.5	93	55.0	73	SW	5	W	24	.....	.....	10 s., sw.....	2 ci., se.....	
31...	29.75	29.65	53.1	59.0	67	52	51.9	92	55.0	78	SW	3	W	30	.....	.....	Few s., 0 (?)...	0.....	
Mn.	29.84	29.81	53.2	58.7	63.6	50.8	51.0	89.7	54.1	76.2	SW	7.8	W	22.6	0	0	6.5 s., sw	2.1 s., w	

AUGUST, 1903.

1...	29.69	29.70	51.7	55.0	59	51	51.0	96	52.8	84	SW	12	SW	18	.....	.....	10 s., sw.....	Lt. fog, sw	
2...	29.72	29.73	52.2	58.3	60	51	51.0	92	53.0	70	SW	10	W	30	.....	.....	10 s., sw.....	0.....	
3...	29.78	29.77	50.6	55.0	56	50	49.6	94	52.0	82	SW	12	SW	23	.....	.....	10 s., sw.....	Lt. fog, sw	
4...	29.79	29.78	49.5	53.0	55	48	49.0	96	51.5	90	SW	10	W	26	.....	.....	10 s., sw.....	9 s., w.....	≡ca.
5...	29.82	29.81	52.8	61.0	64	51	51.8	94	55.1	69	W	7	W	24	.....	.....	4 s., w.....	0.....	
6...	29.83	29.76	50.0	66.0	71	49	50.0	100	57.0	57	W	4	W	33	.....	.....	3 s., w.....	0.....	≡ca.
7...	29.83	29.79	50.2	56.0	68	48	50.2	100	53.0	82	W	6	W	27	.....	.....	Lt. fog, w	Lt. fog, w	
8...	29.84	29.74	48.0	53.0	60	46	48.0	100	51.8	92	W	11	W	18	.....	.....	10 s., w.....	5 s., w.....	≡°
9...	29.72	29.67	49.7	52.1	56	48	49.7	100	51.0	93	SW	8	W	16	.....	.....	10 s., sw.....	9 s., w.....	≡ca.
10...	29.72	29.76	51.5	56.0	60	48	50.8	96	53.7	86	SW	12	SW	18	.....	.....	10 s., sw.....	5 s., sw.....	≡p.
11...	29.83	29.82	54.0	57.2	61	53	52.5	91	54.0	81	W	7	W	15	.....	.....	10 s., w.....	1 s., w.....	
12...	29.81	29.77	53.2	54.2	59	50	51.9	92	52.2	88	W	5	W	22	.....	.....	10 s., w.....	2 s., w.....	≡cp.
13...	29.79	29.74	51.4	52.5	59	49	50.9	97	51.2	92	SW	10	W	24	.....	.....	10 s., sw.....	10 s., w.....	≡ca.
14...	29.80	29.79	52.1	59.2	62	51	52.1	100	55.0	77	SW	9	W	18	....	T.	10 s., sw.....	1 ci. cu., s.....	≡°
15...	29.81	29.79	51.8	60.0	64	51	51.0	95	57.8	88	SW	6	W	14	.....	.....	7 s., sw.....	Lt. fog, w	
16...	29.61	29.75	55.0	67.6	76	54	54.0	94	61.1	69	W	1	W	23	.....	.....	1 s., w.....	4 a. cu., s.....	≡ca.
17...	29.76	29.74	60.1	66.0	72	58	56.8	82	59.7	69	W	1	W	32	.....	.....	Lt. fog, 0	0.....	
18...	29.82	29.79	56.5	60.2	64	54	55.0	91	57.2	83	W	6	W	24	.....	.....	10 s., w.....	Lt. fog, w	
19...	29.79	29.75	52.2	59.1	64	51	52.2	100	56.0	82	SW	10	W	28	.....	.....	10 s., sw.....	6 ci. cu., sw	≡ca.
20...	29.77	29.74	51.8	56.5	58	50	51.3	97	54.5	88	W	10	W	26	.....	.....	10 s., w.....	Few s., w	≡cp.
21...	29.79	29.79	52.1	61.0	64	51	51.1	94	57.1	79	W	15	W	21	.....	.....	7 s., w.....	Lt. fog, w	
22...	29.79	29.71	54.8	65.0	67	54	54.8	100	60.1	75	SW	10	W	18	.....	.....	2 s., sw.....	0.....	≡ca.
23...	29.65	29.55	57.0	62.0	70	55	55.5	91	56.7	72	W	1	W	19	.....	.....	1 s., w.....	0.....	≡ca.
24...	29.59	29.63	54.0	55.2	63	53	53.0	94	53.2	88	SW	5	W	27	.....	.....	3 s., sw.....	6 s., w.....	≡cp.
25...	29.69	29.75	53.5	62.0	65	53	53.5	100	58.0	79	SW	15	W	25	.....	.....	10 s., sw.....	Lt. fog, w	≡ca.
26...	29.82	29.78	57.0	64.3	75	56	54.8	87	56.8	63	SW	3	W	24	.....	.....	0.....	0.....	
27...	29.78	29.76	57.7	66.0	68	52	54.7	83	54.0	88	SW	1	W	20	.....	.....	Lt. fog, 0	4 s., w.....	≡cp.
28...	29.83	29.86	52.5	57.1	59	51	52.5	100	55.8	92	SW	8	W	12	.....	.....	10 s., sw.....	10 s., w.....	
29...	29.90	29.87	55.5	62.3	64	54	54.0	91	58.0	77	W	7	W	12	.....	.....	3 s., w.....	0.....	
30...	29.87	29.80	51.0	59.0	62	50	51.0	100	55.0	78	SW	8	SW	16	.....	.....	10 s., sw.....	0.....	≡ca.
31...	29.78	29.71	55.5	67.0	77	53	52.5	82	58.0	58	SW	2	W	28	.....	.....	0.....	Few ci. s., w	
Mn.	29.78	29.76	53.1	59.0	63.9	51.4	52.1	94.6	55.2	79.7	SW	7.5	W	21.6	0	T.	6.5 s., sw	2.3 s., w	

SAN FRANCISCO, CAL.

[φ=37° 48′ N; λ=122° 26′ W; barometer above sea, 155 feet; gravity correction applied, —.02.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a m.	8 p. m.	
1...	29.75	29.70	55.0	63.0	76	52	53.5	91	57.0	69	W	7	W	27	.....	.....	Few ci., w	0.....	
2...	29.72	29.66	53.0	71.0	81	51	52.0	94	59.0	48	W	8	W	24	.....	.....	Lt. fog, w.....	0.....	
3...	29.72	29.69	54.0	61.0	63	53	54.0	100	57.2	79	W	11	W	30	.....	.....	Lt. fog, w.....	Lt. fog, w.....	
4...	29.71	29.70	53.0	59.5	61	52	52.0	94	55.0	75	SW	11	W	29	.....	.....	10 s., sw.....	6 ci., sw	
5...	29.78	29.82	56.7	60.7	65	54	55.8	95	58.9	90	W	9	W	14	.....	.....	6 s., w.....	4 s., w	≡ᵉp.
6...	29.81	29.79	54.0	63.5	66	53	54.0	100	58.0	72	SW	4	W	20	.....	.....	10 s., sw.....	0.....	≡ᵉa.
7...	29.80	29.73	57.0	66.0	72	55	55.7	92	56.9	57	W	1	W	16	.....	.....	0.....	0.....	
8...	29.75	29.73	59.3	75.0	82	58	56.0	81	59.5	39	SW	3	W	20	.....	.....	0.....	0.....	
9...	29.80	29.83	64.0	71.5	92	62	61.0	84	58.0	43	S	4	W	22	.....	.....	0.....	0.....	
10...	29.81	29.66	64.5	60.8	77	57	56.5	60	56.0	75	S	1	SW	20	.....	.....	0.....	Few a. s., sw	
11...	29.62	29.61	57.7	74.0	76	56	54.7	83	61.0	47	NW	2	W	12	.....	.....	0.....	1 s. w.....	
12...	29.66	29.66	56.3	65.8	67	54	53.0	80	57.7	61	SW	11	W	12	.....	.....	0.....	0.....	
13...	29.74	29.73	56.0	64.5	66	53	52.0	76	55.0	54	W	1	W	12	.....	.....	0.....	0.....	
14...	29.84	29.84	56.0	67.0	75	54	54.0	88	54.5	43	W	2	W	15	.....	.....	0.....	0.....	
15...	29.87	29.85	55.0	67.5	80	53	52.5	85	56.0	48	W	3	W	20	.....	.....	0.....	0.....	
16...	29.90	29.90	60.7	71.5	81	60	57.0	80	58.5	45	S	1	W	12	.....	.....	0.....	0.....	
17...	29.91	29.85	60.0	66.0	79	54	55.0	73	57.0	57	W	6	W	20	.....	.....	0.....	0.....	
18...	29.88	29.86	51.3	53.5	56	50	51.3	100	52.0	90	W	10	SW	15	.....	.....	10 s., w	10 s., sw	≡ᵉ
19...	29.88	29.80	51.6	55.3	61	51	51.2	98	53.1	77	SW	6	W	19	.....	.....	10 s., sw.....	0.....	≡ᵉa.
20...	29.83	29.78	51.0	56.0	59	50	51.0	100	54.0	88	W	7	W	15	.....	.....	10 s., w	5 s., w.....	≡ᵉ
21...	29.83	29.86	55.0	57.0	60	54	53.0	88	54.5	85	SW	5	W	12	.....	.....	10 s., sw.....	10 s., w	≡ᵉp.
22...	29.90	29.87	52.1	55.0	62	51	51.6	97	54.0	94	W	4	W	15	.....	.....	10 s., w.....	3 s., w	≡ᵉp.
23...	29.92	29.80	51.8	63.5	66	50	51.8	100	57.5	70	W	1	W	19	.....	.....	D. fog, w.....	Few ci., 0(?).....	
24...	29.81	29.67	54.8	57.2	66	54	53.8	94	55.0	87	S	5	SW	17	.....	.....	0.....	Lt. smoke, 0(?)....	≡ᵉp.
25...	29.71	29.62	53.0	56.0	62	52	53.0	100	54.2	89	W	6	SW	18	.....	.....	D. fog, w	Lt. smoke, 0(?)....	≡ᵉp.
26...	29.70	29.71	55.5	59.0	64	54	54.0	91	56.9	88	W	2	W	22	.....	.....	0.....	9 s., w	
27...	29.75	29.74	56.9	57.0	59	55	55.4	91	55.0	88	W	4	W	18	.....	.....	10 s., w.....	9 s., w.....	
28...	29.83	29.85	57.0	60.3	63	56	55.5	91	57.8	86	SW	8	SW	12	T.	.....	10 s., sw.....	9 s., sw	
29...	29.88	29.86	54.8	54.1	56	53	53.2	90	51.3	83	W	7	W	9	.....	T.	10 s., w.....	10 s., w	
30...	29.81	29.79	51.0	54.7	58	50	47.8	80	51.2	79	S	3	W	16	.....	.....	3 ci. cu., sw...	9 a. cu., s.....	
Mn	29.80	29.76	55.6	62.2	68.4	53.7	53.7	89.2	56.1	70.2	W	5.1	W	17.7	T.	T.	3.6 s., w.....	2.8 s., w	

OCTOBER, 1903.

1...	29.84	29.85	54.0	58.5	61	53	52.0	88	54.5	78	W	9	W	15	.....	.....	5 s., w.....	1 s., w	
2...	29.94	29.99	53.8	57.1	60	52	52.1	90	54.1	82	W	7	W	14	.....	.....	7 s., w.....	7 a. s., w	
3...	30.02	30.03	54.7	59.0	61	54	53.2	91	56.0	94	W	2	W	7	.....	T.	7 s., w.....	10 n., w.....	
4...	30.02	29.97	59.2	62.0	67	58	58.5	96	60.0	89	SW	3	W	18	T.	.....	10 s., sw	2 ci., w	≡ᵉp.
5...	29.96	29.89	57.3	63.0	67	55	56.8	97	56.1	65	W	10	W	20	.....	.....	10 s., w	Few ci. s., 0(?)....	
6...	29.88	29.77	59.0	64.5	67	57	57.0	89	56.5	60	SE	2	W	12	.....	.....	1 ci. s., w.....	0.....	
7...	29.77	29.70	56.5	63.0	75	56	53.8	84	56.5	67	W	2	W	18	.....	.....	Lt. smoke, 0....	9 ci., s., sw	
8...	29.75	29.72	55.0	64.8	66	55	53.5	91	58.0	67	W	16	SW	19	.....	.....	8 s. cu., sw....	2 ci., se.....	
9...	29.76	29.86	61.1	63.0	65	57	55.1	68	57.0	69	S	20	SW	12	.....	0.02	10 s.,,s.....	6 s., sw	
10...	29.88	29.96	60.0	62.4	65	59	56.5	81	54.0	58	SE	10	W	10	.....	.15	9 s., sw.....	7 s., w.....	
11...	29.98	29.85	58.6	67.0	73	57	56.6	89	59.0	62	N	3	W	15	.....	.....	0.....	0.....	
12...	29.87	29.84	64.0	84.0	85	61	57.5	67	62.0	26	NE	6	W	6	.....	.....	0.....	0.....	
13...	29.88	29.77	62.9	69.1	80	61	57.0	69	59.1	55	N	2	W	18	.....	.....	0.....	0.....	
14...	29.78	29.71	58.3	75.0	84	58	56.0	86	63.0	51	SW	1	W	5	.....	.....	Lt. fog, sw....	Lt. smoke, w.....	
15...	29.80	29.76	59.3	57.0	72	56	57.1	88	56.0	94	W	1	W	24	.....	.....	0.....	1 s., w	≡ᵉp.
16...	29.84	29.81	54.8	60.7	67	54	54.8	100	58.1	86	W	6	W	6	.....	.....	D. fog, w.....	Lt. fog, w	
17...	29.86	29.79	55.0	68.2	81	53	55.0	100	55.8	45	0	0	W	7	.....	.....	D. fog, 0.....	Lt. fog, w	
18...	29.89	29.88	60.9	75.0	84	56	57.4	79	63.0	51	NW	1	W	3	.....	.....	Lt. fog, 0.....	Few s., w	
19...	29.93	29.86	60.0	58.7	78	56	57.0	83	56.5	88	W	2	W	20	.....	.....	Lt. smoke, 0 ..	Lt. fog, w	
20...	29.91	29.82	53.0	56.8	64	52	53.0	100	55.8	94	W	14	W	10	.....	.....	10 s., w	Lt. fog, w	≡ᵉa.
21...	29.85	29.75	52.0	60.6	66	51	52.0	100	56.6	78	W	4	SW	15	.....	.....	10 s., w	0.....	≡ᵉa.
22...	29.86	29.91	51.8	57.0	61	51	51.8	100	55.0	88	W	8	W	18	.....	.....	D. fog, w.....	2 s, w	≡ᵉp.
23...	29.97	29.93	54.3	55.8	61	54	52.6	90	53.8	88	W	4	W	16	.....	.....	10 s., w	4 ci. cu., se	≡ᵉp.
24...	30.00	29.97	55.0	56.4	63	54	52.8	87	54.8	90	0	0	W	23	.....	.....	4 s., s	Few a. s., 0. (?) ...	≡ᵉp.
25...	30.01	29.94	53.0	62.0	69	52	53.0	100	59.0	84	W	2	W	13	.....	.....	10 s., w	3 a. s., w.....	≡ᵉa.
26...	29.97	29.94	55.0	66.1	77	52	55.0	100	59.0	66	0	0	W	20	.....	.....	D. fog, 0	1 ci. s., nw.....	
27...	30.07	30.04	55.0	56.3	60	54	54.2	95	55.3	94	SW	7	W	20	.....	.....	10 s., sw	2 a. s., w.....	≡ᵉp.
28...	30.06	29.97	54.6	67.0	68	53	53.8	95	60.0	66	SW	2	W	7	.....	.....	0.....	6 ci. s., w	
29...	29.93	29.79	56.2	61.0	69	54	56.2	100	55.7	72	W	2	W	22	.....	.....	D. fog, w.....	0.....	
30...	29.79	29.80	55.8	55.2	65	54	54.0	89	53.4	89	W	1	W	18	.....	.....	0.....	8 ci. s., w	≡ᵉp.
31...	29.89	29.90	56.2	57.1	61	54	53.7	85	54.0	82	W	1	SW	14	.....	.....	10 s., w	Few s., cu., w	
Mn	29.90	29.86	56.7	62.7	69.1	54.9	54.8	89.6	57.1	73.5	W	4.6	W	14.4	T.	.17	4.1 s., w.....	2.3 s., w	

SAN FRANCISCO, CAL.

[φ=37° 48′ N; λ=122° 26′ W; barometer above sea, 155 feet; gravity correction applied, −.02.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.94	29.89	53.3	57.5	60	52	51.0	86	53.0	74	W	4	W	10	.....	.....	10 s., w	5 ci. cu., w	
2	29.91	29.89	54.2	58.1	63	53	53.2	94	55.0	82	W	5	W	18	.....	.....	10 s., w	6 ci. s., sw	
3	29.90	29.90	55.0	60.7	63	54	53.5	91	56.2	76	W	2	SW	4	.....	.....	7 a. s., 0 (?)	9 a. s., sw	
4	29.91	30.05	55.4	58.0	61	54	55.4	100	55.0	83	NW	12	W	10	0.24	0.25	10 n., nw	9 ci. s., w	
5	30.08	29.98	53.8	59.8	64	53	52.0	89	55.0	74	N	4	W	15	.....	.....	7 ci. s., nw	0	
6	29.93	29.76	54.6	59.3	67	54	53.6	94	56.8	86	S	2	W	15	.....	.....	9 s., s	0	
7	29.74	29.91	58.0	58.0	60	53	56.0	88	52.5	69	SE	8	W	8	.....	.06	10 s. cu., sw	0	
8	30.10	30.11	50.2	59.5	60	50	43.7	58	51.0	55	NW	12	W	8	.....	.....	0	0	
9	30.12	30.00	49.4	56.1	58	49	46.4	80	55.0	93	E	2	W	12	.....	T.	0	9 ci. s., w	
10	30.06	30.05	50.0	58.5	59	48	48.0	55	49.0	49	NW	12	W	4	.....	.....	Few ci., 0 (?)	5 ci., nw	Lt. smoke, p.
11	30.02	29.92	54.2	58.0	59	53	53.2	94	57.0	94	SE	9	SW	8	T.	.07	10 n., se	10 n., sw	
12	29.82	29.79	58.2	59.0	60	57	58.0	98	59.0	100	SW	12	SW	18	.04	.06	10 n., sw	10 n., sw	
13	29.82	29.84	57.7	61.5	63	56	57.7	100	57.0	76	S	8	S	8	.06	.04	10 n., s	10 s., s	
14	29.76	29.95	62.0	55.1	62	52	58.0	79	49.0	64	S	24	W	14	.02	.56	10 s., s	7 cu., w	
15	30.13	30.18	49.8	52.5	56	48	44.8	67	48.0	72	NW	3	W	12	.....	T.	0	2 ci. s., w	
16	30.19	30.07	47.6	57.0	58	46	44.6	79	47.5	48	N	7	NE	7	.....	.....	0	2 ci., w	
17	29.98	29.86	51.0	58.7	61	50	43.0	50	52.0	64	E	6	N	4	.....	.....	0	7 a. s., sw	
18	29.83	29.74	52.0	55.1	56	50	50.0	87	51.6	79	N	3	SE	15	.....	.04	10 s., n	10 s., se	
19	29.75	29.71	55.1	60.5	61	52	53.9	92	58.0	86	SE	12	S	16	.19	.06	10 s., se	10 s., s	
20	29.86	29.92	56.8	61.0	62	56	56.8	100	59.0	89	SE	20	SE	14	1.14	1.25	10 n., se	10 n., se	
21	30.04	30.05	60.0	63.0	63	58	58.2	90	61.1	90	S	13	S	6	.06	.09	10 s., s	10 s., s	
22	30.00	29.89	58.0	57.5	63	56	58.0	100	57.0	97	S	4	W	14	.....	.....	10 s., s	8 ci., nw	≡°a.
23	29.85	29.84	56.0	61.0	63	55	56.0	100	58.0	84	SE	5	W	2	.....	.02	9 s., se	9 s. cu., w	≡°a. ⌐⌐
24	29.90	29.92	55.8	57.0	58	52	55.8	100	56.0	94	N	2	N	3	.....	.....	10 s., n	Few ci. s., 0 (?)	≡° Lt. smoke, p
25	30.02	30.05	52.2	56.0	57	52	52.2	100	54.8	93	E	6	N	6	.....	.....	D. fog, 0 (?)	10 s., n	
26	30.05	29.99	52.0	56.3	59	51	52.0	100	54.0	86	NE	5	N	9	.....	.....	10 s., 0 (?)	3 ci. s., 0 (?)	≡°
27	29.98	29.93	54.1	57.0	63	51	51.0	81	53.0	77	N	7	W	6	.....	.....	0	9 a. s., 0 (?)	
28	29.95	30.00	52.3	56.0	57	52	50.0	85	55.0	94	NW	12	NE	4	.....	T.	10 s., nw	10 s., 0	
29	30.06	29.98	55.7	57.5	65	54	54.2	91	56.0	92	NW	2	W	9	.....	.....	10 s., nw	0	
30	29.98	29.96	51.0	57.0	62	50	51.0	100	53.0	77	S	1	NW	8	.....	.....	D. fog, s	0	
Mn	29.96	29.94	54.2	58.1	60.8	52.4	52.2	87.6	54.5	79.9	s, nw	7.5	W	9.6	1.75	2.50	6.7 s., s	6 s., w	

DECEMBER, 1903.

1	30.03	30.00	51.2	54.0	56	48	50.2	94	52.5	91	N	4	SE	1	.....	.....	0	0	≡°p.
2	29.99	29.88	50.2	61.0	63	48	50.2	100	52.0	54	E	2	N	3	.....	.....	D. fog, 0	Few ci., 0	Lt. smoke, p.
3	29.88	29.87	55.3	62.0	64	51	46.8	51	48.0	32	N	6	E	10	.....	.....	0	0	Lt. smoke, p.
4	29.96	30.00	54.5	58.0	61	50	47.0	56	46.5	39	E	2	E	2	.....	.....	0	0	
5	30.16	30.10	46.0	55.8	58	44	45.0	93	49.9	66	N	7	NW	3	.....	.....	Few s., n	0	
6	30.11	30.06	47.5	54.1	59	46	45.0	82	49.0	70	N	2	NW	10	.....	.....	0	0	—°
7	30.05	29.98	46.3	56.3	58	45	45.0	91	50.3	65	N	10	NE	2	.....	.....	0	0	Lt. smoke, p.
8	30.02	30.05	49.0	57.0	59	46	46.0	80	49.5	58	N	5	NW	8	.....	.....	0	0	
9	30.09	30.00	48.0	54.0	58	46	46.8	92	52.0	88	N	4	W	12	.....	.....	0	0	—°
10	29.99	29.90	47.5	51.0	52	47	47.5	100	49.5	90	SE	8	NW	4	.....	.....	10 s., se	8 s., nw	≡°a.
11	29.86	29.82	47.5	55.5	58	42	47.0	96	52.0	79	NE	2	W	2	.....	.....	10 s., ne	10 a. cu., nw	
12	29.92	29.98	50.5	52.1	52	48	49.5	94	50.8	92	SE	2	SE	5	.....	0.07	10 s., se	10 n., 0 (?)	
13	30.06	30.10	51.0	51.5	54	50	50.2	95	51.0	97	E	2	NW	6	0.02	.03	10 n., e	10 s. cu., nw	
14	30.18	30.14	51.0	53.0	55	50	50.0	94	52.0	94	E	6	N	10	.....	.....	10 s., e	10 s. cu., n	
15	30.06	29.97	49.0	52.0	52	48	48.0	93	50.5	90	SE	8	NW	4	.....	T.	10 s., se	10 n., nw	
16	29.80	29.82	56.0	55.0	58	51	55.0	94	53.5	91	S	16	SW	8	.14	.92	10 n., s	9 s. cu., sw	
17	29.88	29.90	50.1	52.5	55	50	48.6	90	48.0	72	W	6	W	6	T.	.....	5 s., w	4 s., w	
18	29.95	29.97	49.0	51.0	53	47	48.0	93	51.0	100	SE	6	SE	7	.....	.87	8 a. s., se	10 n., se	
19	30.11	30.18	50.2	52.0	55	49	50.0	90	50.8	92	N	6	NW	8	.05	.....	9 s., n	6 s., nw	
20	30.15	30.08	48.2	52.4	53	47	48.2	100	52.0	97	SE	5	N	3	.....	.....	D. fog, 0 (?)	1 s., n	≡°p.
21	30.04	30.00	50.7	54.0	56	46	49.2	90	51.0	82	N	5	N	4	.....	.....	10 s., n	Few s., n	
22	30.06	30.07	48.2	55.5	57	44	47.7	96	49.5	65	NW	2	N	5	.....	.....	1 s., nw	Few s., n	
23	30.15	30.10	48.0	62.0	66	47	45.5	83	50.0	41	N	6	N	6	.....	.....	0	Few s., n	—°
24	30.17	30.21	54.0	58.9	60	50	43.0	37	49.0	47	E	11	NE	1	.....	.....	0	0	
25	30.20	30.22	48.0	57.1	59	46	46.0	86	50.0	60	N	4	N	4	.....	.....	0	0	
26	30.22	30.14	48.0	57.1	60	46	46.0	85	50.9	64	N	5	NW	7	.....	.....	0	0	⌋
27	30.12	30.07	47.0	55.5	60	46	45.2	87	50.0	68	N	5	NW	8	.....	.....	0	0	⌋
28	30.05	29.99	47.1	56.1	58	45	45.0	86	49.1	60	N	8	NW	6	.....	.....	0	0	⌋
29	30.01	29.98	47.3	56.0	60	46	45.8	89	50.0	65	NW	12	NW	7	.....	.....	0	0	⌋
30	29.99	29.94	48.5	52.1	56	46	45.0	76	49.8	85	N	3	SW	13	.....	.....	0	8 ci. s., sw	
31	29.90	29.88	53.0	54.0	56	50	50.5	84	52.3	90	SW	10	W	8	T.	.03	6 s., sw	4 s. cu., w	
Mn	30.04	30.01	49.6	55.1	57.5	47.3	47.5	86.4	50.4	73.7	N	5.8	NW	5.9	.21	1.42	3.5 s., se	3.2 s., n	

FRESNO, CAL.

[φ=36° 43′ N; λ=119° 49′ W; barometer above sea, 330 feet; gravity correction applied, −.02.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	29.75	29.84	32.2	44.9	45	32	32.0	98	40.0	65	S	4	NW	3			0	10 a.s., 0	1
2	29.95	29.98	40.0	43.6	44	40	38.4	86	43.0	95	NE	4	NE	3			D. fog, ne	D. fog, ne	
3	30.04	30.01	41.9	43.6	44	42	40.0	86	40.1	74	E	1	E	3			D. fog, 0	D. fog, e	
4	30.01	29.98	40.5	42.0	42	40	39.5	92	40.0	85	E	2	E	3			D. fog, e	D. fog, e	
5	29.99	29.96	37.5	40.6	42	37	36.9	95	39.6	92	E	4	E	3			D. fog, e	D. fog, e	
6	29.89	29.83	34.5	41.4	41	34	34.0	95	40.0	89	E	4	E	3			D. fog, e	D. fog, e	
7	29.78	29.79	35.5	46.6	54	35	35.5	100	43.6	79	SE	3	NW	5			D. fog, se	9 a. cu., w	
8	29.85	29.84	35.6	43.2	43	36	35.6	100	41.4	86	NE	4	NW	2			D. fog, ne	D. fog, nw	
9	29.79	29.68	41.4	49.3	49	41	40.9	96	44.9	71	NW	1	E	3			D. fog, nw	9 s., 0	
10	29.66	29.68	34.4	49.8	52	32	34.0	96	42.3	52	E	4	E	4			Lt. fog, e	10 a. s., 0	
11	29.75	29.73	31.6	42.4	45	32	31.6	100	41.9	96	NW	4	NW	4			D. fog, nw	D. fog, nw	
12	29.83	29.86	39.2	39.9	40	39	39.2	100	39.4	96	NW	3	NW	2			D. fog, nw	D. fog, nw	
13	29.83	29.72	35.5	37.9	39	36	35.5	100	37.4	96	E	3	S	4			D. fog, e	D. fog, s	
14	29.70	29.66	34.6	40.5	40	34	34.4	98	37.0	71	E	3	NW	4			D. fog, e	Lt. fog, 0	
15	29.70	29.70	29.5	47.2	48	29	29.5	100	43.0	71	NW	5	NW	4			D. fog, nw	Few, ci., 0	2
16	29.80	29.80	28.4	46.5	52	26	28.4	100	43.0	75	NW	1	NW	4			D. fog, nw	2 ci., 0	3
17	29.88	29.89	29.8	48.7	50	27	29.8	100	42.7	61	0	0	W	3			D. fog, 0	Few, a. s., 0	
18	29.94	29.94	30.6	51.6	53	29	30.5	99	44.1	54	NE	5	S	3			Lt. fog, ne	0	2
19	29.97	29.93	35.3	55.4	56	34	34.8	95	46.0	47	SE	5	S	2			0	9 a. s., 0	1
20	29.98	29.99	43.8	54.0	55	42	43.3	96	52.2	89	S	1	NW	5			D. fog, s	3 s., nw	
21	29.96	29.86	37.8	56.9	57	37	37.8	100	52.4	74	NW	3	S	3			D. fog, nw	2 s., nw	
22	29.86	29.82	45.5	62.7	64	42	45.1	97	57.3	72	S	3	NW	2	0.03		0	8 s. s., nw	
23	29.91	29.88	52.1	59.5	64	50	50.0	86	56.0	80	E	2	NW	4		0.22	8 a. s., nw	2 s., nw	
24	29.84	29.72	49.6	63.5	66	48	49.4	98	58.0	72	NW	4	NW	2			0	10 a. s., 0	
25	29.58	29.56	55.1	51.4	59	48	55.1	100	48.4	81	E	4	N	4	.21	.39	10 n., e	10 a. s., nw	
26	29.53	29.48	44.6	52.2	53	44	43.9	95	52.2	100	NW	2	E	5		.13	10 s., 0	10 n., e	
27	29.46	29.39	56.2	62.9	63	51	52.2	76	56.9	69	SE	8	SE	8	T.	.01	10 s. 0 (?)	10 s., sw	
28	29.60	29.78	45.0	49.5	52	43	45.0	100	48.0	58	NW	5	NW	8	.55	T.	10 n., nw	Few, s., 0	
29	29.92	29.86	34.9	50.1	51	35	34.4	95	47.1	80	NW	4	S	4			0	0	1
30	29.72	29.55	33.6	45.0	45	33	33.1	95	45.0	100	S	4	SE	10		.12	0	10 n., se	1
31	29.55	29.52	41.4	49.1	50	38	41.0	97	48.0	92	NW	5	W	4	.20		10 s., 0 (?)	10 a. s., 0	
Mn.	29.81	29.78	39.0	48.8	50.3	37.6	38.4	95.8	45.4	78.1	NW	3.4	NW	3.9	.99	.87	1.9 s., nw	4.0 a. s., nw	

FEBRUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	29.38	29.41	43.1	43.2	46	40	42.0	91	43.2	100	SE	11	W	7	0.23	0.08	3 s., 0 (?)	10 n., w	
2	29.50	29.65	33.9	43.6	44	30	33.8	99	40.1	74	NW	1	N	4	.04		0	6 a. cu., nw	1
3	29.76	29.60	31.9	43.3	46	31	31.6	97	40.0	75	N	4	SE	6		T.	0	10 n., se	1
4	29.59	29.64	35.5	45.5	48	34	35.2	97	40.5	64	E	4	NW	4	.10		D. fog, e	2 s., 0	
5	29.68	29.74	32.8	47.3	48	32	32.6	98	40.0	51	NW	4	W	4			0	Few, s., 0	1
6	29.84	29.86	32.0	50.0	52	31	32.0	100	45.0	67	W	4	S	2			0	10 a. s., 0	1 2
7	29.89	29.54	38.2	51.8	53	37	36.9	89	51.5	98	S	3	E	6		T.	10 s., 0 (?)	10 n., e	
8	29.72	29.80	44.8	52.2	53	44	44.4	97	46.2	63	S	1	NW	6	.20		10 s., 0 (?)	2 a. cu., 0	
9	29.95	30.02	37.5	41.9	42	36	37.5	100	41.4	96	NW	5	S	4			D. fog, nw	10 s., s	
10	30.01	29.98	39.1	47.2	47	39	37.0	82	44.2	79	S	3	S	2			D. fog, s	10 s., s	
11	29.89	29.70	44.8	51.2	53	44	42.3	82	46.7	71	S	2	S	3			10 s., 0 (?)	7 a. s., nw	
12	29.60	29.61	40.2	45.9	46	36	38.1	82	41.0	66	NW	8	NW	7			1 a. s., 0	1 s., 0	
13	29.55	29.51	29.9	43.4	43	29	29.4	94	35.0	39	NW	4	NW	6			0	Few, s., 0	2
14	29.65	29.71	27.7	44.7	46	25	27.4	96	34.2	27	NW	4	NW	4			0	0	1 2
15	29.79	29.80	30.5	48.4	50	30	30.2	96	36.9	27	NE	7	W	4			0	0	1 2
16	29.86	29.85	31.9	52.2	55	31	31.7	98	44.0	50	W	2	W	4			4 a. cu., 0	Few, a. s., w	1 2
17	29.85	29.73	32.5	52.8	53	31	32.3	98	43.8	47	NW	4	NW	4			0	1 ci. s., 0	1 2
18	29.76	29.75	34.8	61.4	63	35	34.0	92	52.9	56	NW	4	NW	4			0	Few, a. s., 0	1 2
19	29.84	29.85	40.2	64.0	66	39	39.2	92	51.5	41	N	5	N	3			0	4 ci. s., 0	
20	29.90	29.92	43.9	67.8	69	41	40.4	74	58.0	55	N	3	N	4			0	0	
21	30.00	29.92	39.8	61.9	63	37	38.7	91	54.0	59	N	2	N	5			0	10 a. s., w	
22	29.82	29.76	47.5	65.9	67	47	44.0	76	51.9	36	SW	4	SW	2			10 a. s., 0 (?)	10 a. s., 0	
23	29.86	29.83	43.5	63.3	65	42	42.0	88	55.0	58	NW	5	NW	5			0	Few, ci., nw	
24	29.83	29.69	41.5	60.4	62	36	41.5	100	55.6	74	NW	3	NW	3			D. fog, nw	0	
25	29.09	29.52	40.9	62.4	66	41	38.4	80	52.9	52	E	4	W	5			0	0	
26	29.57	29.62	40.9	65.0	65	39	38.0	77	60.0	75	W	4	NE	3			0	0	
27	29.69	29.62	42.6	65.8	67	42	39.1	73	58.3	42	NE	6	NW	4			0	4 ci. cu., nw	
28	29.65	29.66	43.2	68.6	69	42	39.0	69	60.3	61	N	4	NW	3			Few, a. s., 0	0	
Mn.	29.75	29.72	38.0	54.0	55.2	36.5	36.7	89.6	47.1	60.8	NW	4.1	NW	4.2	.57	.06	1.7 a. s., nw	3.8 a. s., s., nw	

FRESNO, CAL.

[φ=36° 43′ N; λ=119° 49′ W; barometer above sea, 330 feet; gravity correction applied, −.02.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R.H.	Wet.	R.H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	29.76	29.63	41.5	67.4	69	41	38.0	72	57.4	53	NE	6	NW	3	.....	.....	0	Few ci., 0	
2	29.61	29.50	48.0	62.3	63	47	42.9	65	51.0	44	E	8	E	6	.....	.....	10 s., 0 (?)	9 a. s., e	
3	29.58	29.58	50.2	51.4	55	47	49.7	96	48.4	81	SE	14	SE	10	0.06	0.07	10 n., se	10 s., sw	
4	29.57	29.44	46.0	54.1	57	45	45.6	97	50.0	75	SE	2	S	12	.01	.08	9 s., 0	2 s., sw	
5	29.57	29.67	42.8	55.0	56	41	42.4	97	46.4	51	S	3	W	4	.14	T.	3 s., 0	4 s. cu., w	
6	29.78	29.79	35.9	57.2	57	35	35.5	96	45.2	35	N	3	NW	4	.....	.....	0	0	⊢°
7	29.78	29.60	38.1	61.6	63	37	37.5	95	51.6	50	NW	1	SW	4	.....	.....	0	6 a. s., 0	⊢
8	29.62	29.61	46.9	56.5	56	47	46.3	96	51.0	68	E	5	E	8	.06	.05	10 n., e	9 s. cu., w	
9	29.78	29.84	41.4	59.0	60	41	40.3	91	51.8	61	NW	4	NW	3	.14	.....	10 s., 0 (?)	4 a. cu., n	
10	29.89	29.81	44.0	70.0	70	42	42.1	86	54.5	34	W	4	E	4	.....	.....	0	1 ci. cu., 0	
11	29.76	29.67	47.6	72.4	73	42	42.4	65	55.0	30	E	5	SE	2	.....	.....	1 a. s., 0	10 a. s., sw	
12	29.64	29.57	45.9	64.8	66	44	42.0	72	57.8	66	NW	2	NW	3	.....	.....	10 a. s., 0 (?)	9 a. s., s	
13	29.49	29.47	50.6	57.5	64	49	49.5	93	57.3	99	SW	3	SE	7	T.	.10	9 s. cu., s	10 n., se	⊢⊠
14	29.49	29.52	50.1	60.7	62	50	49.0	93	49.0	41	E	7	NW	5	.16	.....	7 s. cu., sw	3 s. cu., e	
15	29.59	29.60	44.9	58.2	59	43	41.4	74	48.2	46	NW	4	S	4	.....	.....	10 s. cu., sw	9 s. cu., s	
16	29.61	29.59	43.5	48.0	53	41	40.0	74	43.0	66	SE	7	NW	10	.....	.16	9 s. cu., s	8 s. cu., sw	▲
17	29.69	29.70	41.4	52.3	52	41	39.9	88	44.2	51	W	1	NW	5	.01	.02	10 s. cu., nw	Few s. cu., 0	
18	29.72	29.72	36.5	57.4	59	36	36.0	95	47.4	45	W	3	W	5	.....	.....	0	1 ci. s., 0	⊢
19	29.78	29.77	40.9	61.4	62	39	40.0	93	49.4	40	W	3	W	4	.....	.....	0	9 ci. s., 0	
20	29.78	29.73	41.5	66.0	67	40	38.0	72	48.0	21	NW	2	S	4	.....	.....	3 a. s., 0	10 a. s., 0	
21	29.71	29.59	46.4	68.9	70	46	43.0	76	60.4	61	NW	4	NW	4	.....	.....	0	10 a. s., w	
22	29.60	29.51	47.5	72.8	74	46	43.0	69	53.0	23	SW	3	NW	5	.....	.....	Few a. s., 0	1 s., 0	
23	29.52	29.43	49.6	68.9	70	49	45.7	74	61.0	68	NW	2	NW	3	.....	.....	2 a. s., 0	10 a. s., nw	
24	29.45	29.38	52.5	59.5	62	52	52.0	97	55.0	75	E	8	SW	5	.52	.09	10 s., 0 (?)	10 s., sw	
25	29.44	29.54	51.7	66.0	67	52	51.0	96	58.2	62	E	5	SW	2	.15	.....	9 s., 0	9 s. cu., sw	
26	29.72	29.74	49.7	69.5	70	49	49.3	97	56.0	42	NW	4	W	4	.....	.....	Few a. s., 0	2 ci., 0	
27	29.75	29.68	49.5	68.6	70	49	48.9	95	58.6	55	W	4	SE	4	.....	.....	1 a. s., 0	10 a. s., w	
28	29.65	29.68	59.6	60.5	65	55	54.9	74	57.0	81	SE	8	SE	10	.....	.24	10 s., 0 (?)	10 s., se	
29	29.60	29.54	58.2	64.4	65	58	56.1	85	58.9	72	SE	7	SE	13	T.	.01	10 s., 0 (?)	9 a. cu., sw	
30	29.50	29.57	58.7	70.0	71	57	57.1	91	61.4	61	E	6	SW	7	.06	.....	6 s., 0 (?)	9 s., se	
31	29.57	29.40	56.4	65.9	71	56	55.3	93	60.4	73	E	6	SE	8	.05	.10	10 s., 0 (?)	9 s., s	
Mn	29.64	29.61	47.0	62.2	63.8	45.7	45.0	85.7	53.1	55.6	{c | nw}	4.6	NW	5.5	1.36	.92	5.5 a. s., s., sw	6.5 a. s., sw	

APRIL, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a.m.		8 p.m.		8 a.m.		8 p.m.						
	8 a.m.	8 p.m.	8 a.m.	8 p.m.	Max.	Min.	Wet.	R.H.	Wet.	R.H.	Dir.	Vel.	Dir.	Vel.	8 a.m.	8 p.m.	8 a.m.	8 p.m.	
1	29.50	29.57	48.5	55.2	58	48	48.5	100	49.2	65	NW	3	NW	4	0.10	0.03	10 n., nw	9 s., 0	
2	29.74	29.84	44.6	63.1	64	44	41.4	76	52.0	46	NW	1	NW	4	.....	.....	10 s., 0 (?)	3 a. cu., 0	
3	29.85	29.73	50.6	69.9	70	49	47.9	82	60.3	57	NW	1	W	4	.....	.....	0	3 a. s., 0	
4	29.58	29.47	49.4	59.4	62	47	45.3	73	49.4	47	N	4	NW	10	.....	.....	a. s., 0	3 ci. s., nw	
5	29.53	29.58	41.4	62.8	64	40	39.5	85	51.4	44	NW	4	N	5	.....	.....	0	0	
6	29.68	29.66	43.1	68.1	69	42	40.0	76	53.7	34	NW	1	NW	5	.....	.....	0	0	
7	29.68	29.59	47.1	73.2	74	46	44.1	79	58.2	39	NW	2	NW	4	.....	.....	0	0	
8	29.55	29.43	49.6	77.0	79	50	47.1	83	60.0	35	NW	5	NW	4	.....	.....	0	2 ci. cu., 0	
9	29.46	29.51	57.9	64.9	66	54	53.0	72	58.0	66	NW	4	SE	4	.....	.04	8 a. cu., 0	10 n., se	
10	29.72	29.73	44.0	55.0	56	41	41.4	80	50.0	70	NW	5	NW	6	.11	.....	10 s., 0 (?)	Few a. s., 0	
11	29.71	29.70	34.9	59.8	60	35	33.4	86	46.0	31	NW	4	NW	5	.....	.....	Few s., 0	Few a. s., 0	⊢°
12	29.78	29.72	40.6	66.4	67	40	37.7	76	48.9	23	NW	3	NW	3	.....	.....	0	0	
13	29.66	29.55	43.2	69.0	70	43	41.1	84	55.1	39	NW	2	NW	5	.....	.....	0	Few s. cu., 0	
14	29.56	29.50	45.5	61.1	61	44	42.0	74	54.0	63	NW	8	NW	3	.....	.....	10 s., 0	Few s. cu., 0	
15	29.50	29.38	44.6	64.4	67	44	42.1	82	51.1	37	NE	5	SE	5	.....	.....	Few a. s., 0	10 a. s., 0	
16	29.42	29.35	45.2	63.5	65	43	41.1	70	51.4	42	SE	4	S	2	.....	T.	10 s., 0	10 a. s., 0	
17	29.51	29.64	49.6	59.5	64	49	48.9	95	51.5	58	SW	4	NW	6	.22	T.	10 s., 0 (?)	9 n., nw	
18	29.73	29.68	43.5	65.2	66	43	40.4	77	57.7	63	NW	4	W	4	T.	.....	4 a. cu., nw	Few a. cu., 0	
19	29.69	29.58	41.4	67.5	70	40	39.5	85	52.0	32	NW	4	NW	3	.....	.....	Few a. s., 0	7 a. s., 0	
20	29.70	29.77	49.2	68.4	70	48	44.1	66	54.0	37	NW	4	NW	4	.....	.....	6 a. s., 0	3 a. cu., 0	
21	29.83	29.77	44.9	74.5	75	44	42.4	82	55.4	26	NW	5	NW	4	.....	.....	0	Few s. cu., 0	
22	29.77	29.62	49.5	73.8	75	49	45.4	78	56.7	32	NW	6	NW	5	.....	.....	0	Few s., 0	
23	29.59	29.53	51.5	79.6	80	50	47.4	74	60.6	32	NW	4	NW	5	.....	.....	0	0	
24	29.59	29.56	48.9	82.5	83	48	44.0	68	57.5	18	NW	4	W	4	.....	.....	0	8 ci. s., 0	
25	29.61	29.61	53.9	69.4	74	54	47.8	63	54.4	35	NW	5	NW	12	.....	.....	Few a. s., 0	7 a. cu., 0	
26	29.67	29.55	46.9	66.4	67	46	44.8	85	50.0	28	NW	5	NW	6	.....	.....	Few a. s., 0	Few s. cu., 0	
27	29.52	29.48	43.9	70.1	70	42	41.4	81	54.0	32	NW	4	NW	6	.....	.....	0	Few s. cu., 0	
28	29.59	29.61	45.9	77.6	78	44	41.4	68	56.5	28	NW	2	NW	7	.....	.....	0	0	
29	29.74	29.70	44.9	81.2	82	44	41.5	72	55.4	14	NW	5	NW	4	.....	.....	0	0	
30	29.76	29.64	49.6	84.2	85	49	47.5	86	57.2	14	NW	4	NW	7	.....	.....	Few ci. s., 0	0	
Mn	29.64	29.60	46.5	68.4	69.7	45.3	43.4	78.4	54.1	39.4	NW	3.9	NW	5.0	.43	.07	2.7 a. s., s.; nw.	2.8 a. s., s. cu., nw.	

FRESNO, CAL.

[φ=36° 43′ N; λ=119° 49′ W; barometer above sea, 330 feet; gravity corrections applied, −.02.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.62	29.55	51.5	84.4	85	50	48.9	83	58.9	18	NW	2	NW	4			1 ci. s., 0	1 s. cu., 0	
2	29.57	29.49	56.5	88.4	89	55	50.1	63	60.9	17	NW	2	NW	5			0	1 s. cu., 0	
3	29.54	29.51	57.5	88.4	90	57	50.5	61	60.4	16	NW	3	NW	8			0	6 ci. s., 0	
4	29.50	29.43	56.2	87.4	87	54	50.1	65	61.4	20	NW	4	NW	4			Few a. s., 0	4 ci. s., 0	
5	29.49	29.44	55.6	88.4	89	53	50.1	68	62.5	21	NW	3	NW	10			0	1 s. cu., 0	
6	29.54	29.51	51.9	82.4	84	50	46.9	69	57.9	19	NW	4	NW	10			0	2 ci., 0	
7	29.55	29.48	50.0	80.9	82	48	46.1	75	56.9	19	NW	4	NW	10			Few ci. s., 0	4 ci. s., 0	
8	29.49	29.40	57.4	87.4	87	56	49.4	55	63.4	24	NW	8	NW	4			Few ci. s., 0	4 ci. s., 0	
9	29.46	29.41	54.7	85.8	85	53	48.9	66	60.8	21	NW	2	NW	12			Few ci., 0	2 ci., 0	
10	29.47	29.43	57.4	89.2	89	52	50.0	58	63.2	21	NW	6	NW	12			0	Few s. cu., 0	
11	29.48	29.42	61.9	93.1	93	62	54.0	59	64.5	18	NW	1	NW	6			0	0	
12	29.50	29.49	56.2	92.3	93	56	51.7	73	63.0	18	NW	4	NW	9			0	0	
13	29.56	29.52	57.4	84.0	88	57	50.1	60	60.8	22	NW	4	NW	18			0	9 a. s., sw	
14	29.61	29.48	49.6	79.9	80	49	43.5	60	59.0	26	NW	5	NW	18			Few ci. cu., 0	Few ci. cu., 0	
15	29.51	29.41	54.6	88.1	88	52	49.1	68	61.0	18	NW	2	NW	5			0	0	
16	29.49	29.48	53.8	68.6	69	52	48.1	66	47.0	12	NW	8	NW	24			Few ci. s., 0	Few s. cu., 0	
17	29.59	29.60	49.6	70.4	71	48	46.1	77	48.4	12	NW	8	NW	12			Few a. s., 0	Few s. cu., 0	
18	29.68	29.60	49.5	73.5	74	46	43.1	58	52.0	18	NW	5	NW	12			0	0	
19	29.58	29.45	46.8	73.5	74	47	43.6	77	52.1	18	NW	4	NW	7			0	1 ci. s., nw	
20	29.47	29.42	49.4	70.4	72	49	46.0	77	54.4	33	NW	7	NW	11			10 a. cu., w	4 ci. s., nw	
21	29.58	29.62	47.2	57.4	65	47	43.1	72	46.3	40	NW	4	NW	20		T.	3 a. s., nw	3 a. cu., nw	
22	29.70	29.58	42.8	70.5	71	43	40.9	86	52.0	24	NW	2	NW	4			0	Few s. cu., 0	
23	29.57	29.49	46.4	67.4	68	46	42.4	72	53.0	36	NW	8	NW	8			2 a. s., 0	9 s., nw	
24	29.52	29.46	49.4	76.4	78	47	46.2	79	55.4	22	NE	3	E	4			Few a. s., 0	6 a. s., 0	
25	29.48	29.49	56.7	83.9	84	54	53.0	78	58.0	16	N	2	NW	12			0	Few s. cu., 0	
26	29.65	29.67	51.9	72.9	76	52	46.3	65	62.4	55	NW	4	NW	10			1 a. s., 0	8 a. s., 0	
27	29.65	29.58	48.3	78.0	78	47	45.0	77	59.0	30	NW	5	NW	9			Few a. s., 0	0	
28	29.64	29.55	56.4	88.6	89	55	49.9	63	62.1	20	NW	4	NW	5			0	0	
29	29.59	29.50	61.4	95.0	95	61	53.9	61	68.6	24	NW	1	W	5			0	0	
30	29.55	29.42	60.9	98.4	99	61	48.8	40	68.4	19	NW	3	NW	4			3 ci. s., w	9 a. s., 0	
31	29.43	29.30	70.6	99.4	101	69	56.6	41	64.4	11	NW	4	NW	12			10 a. cu., 0	9 a. s., nw	
Mn	29.55	29.49	53.9	82.0	83.0	52.5	48.1	66.8	58.6	22.3	NW	3.9	NW	9.3	0	T.	1.0 a. s., w	2.7 s. cu., nw	

JUNE, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.42	29.44	62.6	87.6	88	62	50.5	41	63.6	25	NW	5	NW	9			0	Few a. cu., 0	
2	29.66	29.63	50.2	79.9	80	50	45.1	67	60.0	29	NW	4	NW	10			0	0	
3	29.71	29.63	50.4	83.7	84	49	44.5	62	55.0	10	NW	5	NW	12			0	1 a. s., 0	
4	29.65	29.54	55.1	91.2	91	55	49.0	64	61.2	14	NW	4	NW	9			0	Few ci. s., 0	
5	29.58	29.50	61.8	99.8	101	61	52.2	51	65.8	18	NW	2	N	5			0	3 ci. s., 0	
6	29.56	29.46	69.8	106.6	107	70	57.7	47	66.6	9	W	4	W	6			Few s. cu., 0	3 s., sw	
7	29.58	29.44	77.4	100.4	105	76	60.4	35	63.4	8	0	0	NE	13			Few a. cu., 0	10 a. s., 0	
8	29.51	29.41	75.9	96.6	102	76	61.4	43	62.5	10	NE	3	N	6	T.		3 ci. s., 0	8 a. s., 0	
9	29.42	29.37	71.4	84.6	99	70	59.1	47	60.6	22	NW	4	NE	12		T.	8 a. s., 0	10 s., n	
10	29.44	29.44	69.4	93.4	94	66	60.0	57	60.9	10	W	5	NW	7	T.		5 a. s., 0	4 a. s., 0	
11	29.55	29.48	61.8	95.9	97	61	55.3	66	62.4	11	NW	1	NW	9			Few a. s., 0	2 a. s., 0	
12	29.52	29.43	57.4	80.6	81	56	50.9	59	60.6	29	NW	6	NW	8			Few a. s., 0	Few ci. s., 0	
13	29.44	29.35	57.4	90.0	91	57	49.9	58	68.0	31	NW	4	W	5			0	0	
14	29.40	29.46	54.5	69.0	77	54	50.0	73	53.8	34	NW	8	NW	12			2 a. s., 0	10 a. s., w	
15	29.51	29.50	55.2	74.3	76	54	50.0	69	55.5	27	NW	5	SW	4			10 a. s., sw	Few a. s., 0	
16	29.68	29.65	50.7	77.0	78	50	46.8	76	60.0	35	NW	5	NW	8			1 a. s., 0	0	
17	29.73	29.62	52.1	84.0	85	52	48.2	76	56.0	12	NW	7	NW	9			0	Few ci., 0	
18	29.62	29.52	57.0	93.1	93	56	49.9	60	63.6	16	NW	3	NW	4			0	Few a. s., 0	
19	29.58	29.48	62.5	93.1	94	62	52.5	50	62.1	14	NW	7	NW	11			0	8 a. s., sw	
20	29.54	29.43	62.1	91.6	93	62	51.9	49	62.5	16	NW	10	NW	8			Few a. s., 0	0	
21	29.47	29.49	58.4	84.0	88	56	48.9	49	60.0	21	NW	4	NW	16			Few ci. s., 0	8 ci. s., w	
22	29.54	29.47	59.4	88.3	89	58	52.5	63	60.5	16	NW	5	NW	13			1 a. s., 0	0	
23	29.51	29.45	56.9	92.4	93	57	50.4	63	64.9	20	NW	5	NW	10			1 ci. s., nw	1 ci. s., w	
24	29.49	29.40	67.4	100.0	100	67	55.4	45	68.0	17	NW	4	N	8			3 ci., nw	0	
25	29.44	29.36	69.5	102.1	102	69	58.6	51	70.0	18	NW	6	NW	12			0	0	
26	29.47	29.44	64.6	100.4	100	64	56.1	59	68.4	17	NW	7	NW	8			Few a. s., w	3 ci. s., w	
27	29.54	29.44	70.9	106.8	107	70	57.8	44	71.0	16	NW	7	NW	5			7 ci. s., sw	0	
28	29.46	29.40	68.6	104.1	105	69	54.1	37	67.6	12	NW	4	NW	9			0	0	
29	29.36	29.30	72.0	93.7	94	70	58.0	42	67.4	23	NW	4	W	6			10 a. s., sw	Few a. s., 0	
30	29.40	29.39	60.6	96.7	97	60	54.7	69	64.9	15	NW	4	NW	9			0	0	
Mn	29.52	29.46	62.1	91.4	93.0	61.3	53.0	55.7	62.9	18.3	NW	4.7	NW	8.8	T.	T.	1.7 a. s., sw	2.4 a. s., w	

FRESNO, CAL.

[φ=36° 43′ N; λ=119° 49′ W; barometer above sea, 330 feet; gravity correction applied, —.02.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.46	29.34	64.5	96.8	97	63	58.0	68	64.3	14	NW	8	NW	15			0	0	
2	29.38	29.34	66.3	93.4	94	66	58.2	61	64.3	17	NW	8	NE	2			0	0	
3	29.42	29.45	65.4	99.4	99	65	58.0	64	64.9	12	NW	2	NE	4			0	0	
4	29.53	29.42	68.7	102.6	103	67	58.2	53	65.6	10	NW	5	SE	4			0	0	
5	29.43	29.34	65.4	89.4	96	64	57.4	61	64.0	22	NW	5	NW	12			0	0	
6	29.50	29.50	53.2	82.9	83	52	48.1	69	58.0	18	NW	6	NW	7			0	0	
7	29.55	29.49	53.4	87.7	88	53	48.0	67	59.7	15	NW	4	NW	3			0	0	
8	29.54	29.48	59.8	92.1	92	59	50.8	53	63.4	17	NW	5	NW	9			0	0	
9	29.53	29.47	60.4	96.6	97	58	51.4	53	63.6	13	NW	4	SW	7			0	0	
10	29.56	29.40	63.5	99.3	99	62	52.4	46	64.3	11	NW	3	W	5			0	0	
11	29.58	29.49	63.4	97.6	98	62	54.3	55	64.1	13	NW	5	NW	7			0	1 ci., 0	
12	29.54	29.49	61.2	95.6	96	60	53.2	58	64.6	16	NW	4	W	8			0	Few a. s., 0	
13	29.59	29.55	56.0	92.4	92	55	48.0	55	59.4	9	NW	5	NW	7			Few a. s., 0	Few a. s., 0	
14	29.58	29.50	59.5	93.5	97	59	48.0	40	63.5	16	NW	4	W	10			1 a. s., 0	5 a. cu., sw	
15	29.56	29.52	71.4	96.2	98	70	58.0	43	63.7	13	NW	5	NW	10			4 a. cu., sw	Few a. s., 0	
16	29.60	29.54	57.4	91.5	92	57	49.4	55	60.5	13	NW	8	NW	8			0	0	
17	29.56	29.49	61.4	96.2	96	61	52.9	56	64.1	14	NW	4	W	2			1 ci. s., 0	Few a. cu., 0	
18	29.52	29.50	63.1	94.3	94	62	51.1	42	62.2	12	NW	4	NW	11			0	0	
19	29.56	29.49	55.8	90.0	90	55	48.0	56	59.0	11	NW	7	NW	12			0	1 ci. s., 0	
20	29.54	29.50	55.0	87.9	88	54	48.0	59	59.4	14	NW	5	W	4			1 ci. s., sw	0	
21	29.61	29.55	56.5	88.9	89	56	50.0	63	65.0	26	W	7	W	4			Few ci. s., 0	0	
22	29.63	29.54	56.6	88.1	89	56	49.1	58	61.0	18	NW	5	W	5			0	0	
23	29.67	29.63	57.9	83.8	84	57	50.0	56	60.3	23	NW	8	NW	1			1 ci. s., 0	0	
24	29.67	29.58	55.8	90.5	90	55	50.3	54	63.0	18	NW	5	NW	4			0	0	
25	29.56	29.50	58.5	94.6	95	58	51.5	62	63.6	15	NW	5	NW	6			0	Few ci. s., 0	
26	29.55	29.52	61.2	98.9	99	61	50.1	44	64.5	12	NW	6	NW	4			4 ci. s., sw	Few a. s., 0	
27	29.62	29.57	63.5	97.0	100	63	52.5	46	65.4	15	W	8	W	7			3 ci. s., sw	9 a. s., e	
28	29.60	29.53	63.1	97.6	99	63	51.1	42	64.5	14	NW	6	NW	7			1 a. s., 0	1 a. s., sw	
29	29.56	29.60	60.6	93.6	94	60	51.1	51	64.6	18	NW	5	W	9			3 ci. s., sw	1 ci. s., sw	
30	29.52	29.44	66.3	100.0	101	65	55.3	48	65.5	12	NW	5	NW	7			1 ci. s., 0	1 ci., w	
31	29.46	29.36	68.6	103.1	103	66	56.1	45	69.0	15	NW	4	W	6			Few ci. s., 0	0	
Mn.	29.55	29.48	61.1	93.9	94.6	60.1	52.2	54.3	63.2	15.0	NW	5.3	NW	6.6	0	0	0.6 ci. s., sw	0.6 a. s., sw	

AUGUST, 1903.

1	29.38	29.33	70.2	103.2	105	70	56.1	40	66.5	10	NW	6	W	10			0	0	
2	29.42	29.41	65.8	100.9	101	65	53.7	44	63.9	9	NW	4	NW	8			0	0	
3	29.49	29.46	61.4	98.4	98	59	52.9	56	63.4	11	NW	4	W	8			0	0	
4	29.49	29.43	61.9	99.3	101	62	52.0	50	62.6	9	NW	5	W	3			0	0	
5	29.52	29.49	58.8	93.6	95	58	50.2	54	62.5	14	NW	10	NW	9			0	0	
6	29.56	29.51	60.0	99.2	100	59	51.0	53	62.5	9	NW	6	NW	6			0	0	
7	29.56	29.50	67.1	105.4	106	66	52.9	36	65.4	8	NW	3	W	5			0	Few s. cu., 0	
8	29.53	29.36	71.9	107.9	108	70	56.4	36	65.2	7	NW	5	NW	8			6 a. cu., sw	Few ci., 0	
9	29.41	29.30	70.8	105.6	106	70	55.4	35	65.6	8	NW	6	NW	10			0	Few s. cu., 0	
10	29.40	29.42	69.6	101.7	102	68	55.6	40	65.0	10	NW	2	W	6			Few a. cu., 0	0	
11	29.54	29.49	62.4	96.9	97	58	52.3	49	66.2	17	NW	4	W	4			Few a. cu., 0	0	
12	29.53	29.44	62.4	99.2	100	61	54.0	58	63.2	9	NW	4	W	5			Few ci. cu., 0	0	
13	29.49	29.40	66.4	98.9	100	66	54.4	43	62.6	9	NW	7	W	8			Few a. s., 0	0	
14	29.48	29.44	64.6	94.6	95	64	55.1	54	64.1	16	NW	8	NW	8			0	0	
15	29.52	29.48	58.3	90.5	90	57	52.0	65	61.5	16	NW	9	NW	9			0	0	
16	29.53	29.45	61.3	96.8	97	61	53.8	61	64.3	13	NW	8	NW	10			Few a. s., 0	Few s. cu., 0	
17	29.52	29.44	66.6	102.7	103	65	54.5	44	64.7	9	NW	2	W	6			Few a. s., 0	Few s. cu., 0	
18	29.51	29.43	71.1	104.0	105	68	56.0	37	64.6	8	NW	10	NW	9			Few a. s., 0	Few a. s., 0	
19	29.49	29.43	69.9	96.5	99	66	56.8	44	65.0	15	NW	9	NW	12			1 s., 0	Few a. s., 0	
20	29.47	29.40	66.8	99.5	100	65	55.3	47	66.5	15	NW	4	W	6			0	Few s. cu., 0	
21	29.49	29.44	68.9	92.9	95	65	56.8	47	66.5	23	NW	8	NW	10			Few a. s., 0	0	
22	29.52	29.35	59.5	91.9	92	58	53.0	65	63.6	18	NW	8	NW	7			0	0	
23	29.31	29.28	61.6	92.4	93	60	54.1	61	63.4	17	NW	6	NW	6			0	0	
24	29.32	29.30	65.8	94.6	96	64	55.7	52	64.1	15	NW	5	NW	6			0	0	
25	29.40	29.44	60.5	88.0	90	59	54.0	65	63.5	24	NW	6	NW	15			Few a. s., 0	0	∞°p.
26	29.55	29.51	58.8	88.4	89	58	52.2	64	63.4	23	NW	6	NW	4			0	0	∞°p.
27	29.55	29.47	61.8	95.6	96	61	55.3	66	63.6	14	NW	3	W	3			Few a. s., 0	0	∞°p.
28	29.58	29.49	61.9	96.0	96	61	54.0	59	63.0	12	NW	4	W	8			0	0	∞°p.
29	29.62	29.56	58.4	92.0	93	57	53.4	72	63.5	18	NW	5	NW	9			0	0	∞°p.
30	29.58	29.49	59.4	95.1	95	58	52.2	61	62.1	11	NW	3	NW	9			0	0	∞°p.
31	29.52	29.44	61.4	99.2	100	59	53.9	61	66.0	15	NW	2	N	4			3 ci. s., sw	0	
Mn.	29.49	29.43	64.0	97.4	98.1	62.4	54.0	52.2	64.1	13.3	NW	5.5	NW	7.5	0	0	0.3 a. s., sw	0 s. cu., 0	

FRESNO, CAL.

[φ=36° 43′ N; λ=119° 49′ W; barometer above sea 330 feet; gravity correction applied, −.02.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.49	29.44	66.5	102.5	103	66	55.4	48	65.0	9	NW	3	NW	6	.....	.....	0	Few s. cu., 0	
2	29.47	29.40	69.0	105.4	106	68	56.0	43	65.4	8	NW	2	NW	4	.....	.....	0	Few s. cu., 0	
3	29.46	29.38	71.4	105.8	106	70	55.3	38	65.8	8	NW	3	NW	4	.....	.....	0	Few s. cu., 0	
4	29.42	29.38	67.2	102.0	103	67	55.1	45	65.0	10	NW	3	NW	5	.....	.....	Few a. s., 0	1 ci. s. 0	
5	29.52	29.50	59.5	80.2	82	59	53.1	66	59.3	27	NW	5	NW	7	.....	.....	Few a. s., sw	Few a. s., 0	
6	29.55	26.49	56.4	80.4	80	56	52.3	76	57.4	21	NW	8	NW	6	.....	.....	7 ci. s., sw	0	∞p.
7	29.52	29.45	57.6	87.4	88	56	50.1	59	59.9	16	NW	6	NW	4	.....	.....	0	0	∞p.
8	29.50	29.49	58.3	91.4	93	57	50.3	56	63.4	18	0	0	NW	4	.....	.....	0	0	∞p.
9	29.58	29.57	60.6	96.6	98	58	54.1	65	65.0	15	W	1	W	2	.....	.....	0	Few a. s., 0.	
10	29.59	29.39	63.6	97.0	99	64	54.1	53	62.0	9	NW	1	NW	4	.....	.....	0	4 ci. s., sw	
11	29.40	29.36	68.5	81.9	83	63	54.0	53	56.9	17	W	4	NW	4	.....	.....	0	0	∞p.
12	29.42	29.40	58.1	75.9	85	52	48.0	68	59.0	34	E	4	NW	6	.....	.....	0	0	∞p.
13	29.48	29.46	51.5	77.4	80	51	47.0	72	55.4	20	E	3	NW	4	.....	.....	0	0	∞p.
14	29.57	29.58	51.4	81.2	82	47	46.0	66	55.7	15	NW	3	NW	3	.....	.....	0	0	∞p.
15	29.65	29.61	54.0	87.5	88	52	44.0	42	57.5	10	NW	3	SW	2	.....	.....	0	0	∞p.
16	29.68	29.65	61.9	92.4	93	55	53.8	58	60.4	10	NW	3	SW	4	.....	.....	0	0	∞p.
17	29.67	29.57	57.4	93.4	95	57	48.0	49	59.9	9	SW	1	NW	3	.....	.....	0	0	∞p.
18	29.58	29.54	59.4	90.6	92	57	48.9	45	59.6	12	NW	2	NW	3	.....	.....	0	0	∞p.
19	29.59	29.47	60.4	91.4	92	57	48.9	41	60.4	12	NW	3	N	2	.....	.....	0	0	∞p.
20	29.56	29.46	58.9	91.4	92	57	50.0	52	60.9	13	0	0	NW	3	.....	.....	0	0	∞p.
21	29.51	29.53	56.4	83.8	84	53	48.0	53	60.8	23	NW	4	NW	4	.....	.....	0	0	∞p.
22	29.62	29.61	53.4	86.5	88	51	48.0	60	60.5	19	NW	3	NW	3	.....	.....	0	Few ci. cu., 0	∞p.
23	29.64	29.54	56.6	85.9	88	56	48.5	55	62.9	26	0	0	NW	2	.....	.....	0	5 a. cu., 0	∞p.
24	29.53	29.44	65.4	90.5	92	60	56.0	55	63.0	19	N	4	W	1	.....	.....	0	Few ci. cu., n	∞p.
25	29.45	29.35	66.6	93.5	95	62	56.1	51	63.5	16	NW	3	W	3	.....	.....	0	0	∞p.
26	29.43	29.40	65.4	90.9	92	58	56.0	55	62.8	19	NW	3	N	3	.....	.....	0	9 a. cu., ne	∞p.
27	29.47	29.42	60.6	85.6	90	56	50.5	48	56.7	12	NW	3	NW	4	.....	.....	Few a. s., 0	9 ci. s., 0	∞p.
28	29.58	29.56	57.2	78.1	80	56	52.2	71	60.0	33	NW	4	W	4	.....	.....	2 a. s., 0	0	∞p.
29	29.62	29.57	56.5	69.2	71	54	52.0	74	55.1	39	NW	3	W	4	.....	.....	0	9 ci. s., W	
30	29.59	29.50	48.5	70.5	73	48	46.0	83	56.5	40	W	3	NW	4	.....	.....	2 a. s., 0	10 a. s. 0	
Mn	29.54	29.48	59.6	88.2	89.8	57.5	51.3	56.5	60.5	18.0	NW	2.9	NW	3.7	0	0	0.4 a. s., sw	1.6 ci. s., n., ne., sw., w.	

OCTOBER, 1903.

1	29.60	29.58	55.4	68.8	70	53	52.3	81	54.0	36	NW	3	W	4	.....	.....	3 a. cu., 0	3 a. cu., c	
2	29.68	29.71	49.7	70.6	72	48	46.2	77	53.1	28	NW	4	W	3	.....	.....	2 a. cu., 0	4 ci. s., sw	
3	29.76	29.70	48.2	75.2	76	46	46.0	85	54.2	21	NW	5	W	4	.....	.....	0	0	
4	29.79	29.68	50.2	77.4	78	48	47.1	80	60.4	35	NW	3	NW	4	.....	.....	0	4 ci. s., sw	
5	29.66	29.61	54.2	78.4	79	52	52.0	87	58.4	27	NW	4	NW	4	.....	.....	Few a. s., 0	0	
6	29.61	29.50	56.2	81.8	83	52	52.1	76	62.0	28	NW	3	NW	4	.....	.....	0	0	
7	29.52	29.46	54.3	85.0	85	53	48.2	64	63.0	27	NW	2	W	2	.....	.....	0	Few a. s., 0	
8	29.51	29.43	60.1	88.4	91	57	54.0	67	62.4	21	NW	2	SW	2	.....	.....	2 ci. s., 0	1 ci. s., sw	
9	29.58	29.67	56.0	71.4	72	55	48.0	55	57.4	41	E	2	S	4	.....	.....	9 ci. s., 0	7 a. cu., sw	
10	29.72	29.66	53.5	75.5	76	52	48.0	66	58.4	36	SE	4	NW	5	.....	.....	1 s., 0	3 a cu., 0	
11	29.71	29.64	52.4	73.4	75	51	49.9	84	58.9	40	W	6	S	4	.....	.....	0	0	
12	29.67	29.63	53.4	83.9	86	49	49.4	75	60.0	21	S	2	NW	3	.....	.....	0	0	
13	29.60	29.54	55.6	87.4	89	54	49.1	63	62.4	22	NE	1	NW	2	.....	.....	0	0	
14	29.56	29.39	58.4	89.2	95	56	52.3	66	63.2	21	NE	5	SW	4	.....	.....	0	0	∞p.
15	29.58	29.52	58.2	90.4	92	56	52.1	66	63.4	22	SW	4	SW	3	.....	.....	0	1 ci. s., 0	
16	29.60	29.55	60.5	91.5	93	58	55.1	72	63.5	18	W	3	W	3	.....	.....	0	0	∞p.
17	29.61	29.59	58.3	91.5	93	58	50.2	56	65.0	21	0	0	SE	1	.....	.....	0	0	∞p.
18	29.70	29.65	55.6	92.4	95	56	50.5	70	63.4	17	NE	3	W	1	.....	.....	1 a. s., 0	0	
19	29.70	29.62	63.9	88.6	92	55	57.8	69	60.1	15	NE	4	NE	2	.....	.....	0	0	∞p.
20	29.66	29.58	59.6	86.4	89	56	52.1	60	62.4	23	NE	3	W	2	.....	.....	0	0	∞p.
21	29.61	29.53	56.9	84.5	88	56	49.8	60	60.0	21	E	5	NW	2	.....	.....	0	0	∞p.
22	29.63	29.62	56.8	86.6	90	54	50.0	62	62.1	23	E	3	SW	1	.....	.....	0	0	∞p.
23	29.72	29.64	49.4	82.7	88	49	46.0	77	62.6	31	NW	4	W	7	.....	.....	0	3 ci. cu., s	
24	29.72	29.68	50.9	79.5	82	47	46.4	71	56.5	20	N	5	N	4	.....	.....	0	Few a. s., 0	∞p.
25	29.76	29.69	48.6	76.5	79	47	44.1	70	56.5	26	NW	3	SW	2	.....	.....	0	0	Lt. smoke, p.
26	29.75	29.68	50.6	81.2	84	49	46.1	71	56.1	15	E	4	SW	3	.....	.....	0	0	Lt. smoke, p.
27	29.81	29.76	52.2	78.6	83	50	47.2	69	56.6	22	SW	3	W	5	.....	.....	0	Few ci. s., 0	∞p.
28	29.80	29.70	49.2	73.6	77	43	46.2	89	54.6	26	NW	2	NW	6	.....	.....	0	2 a. s., nw	
29	29.67	29.58	48.6	73.6	75	46	44.5	72	58.1	38	NW	2	SW	1	.....	.....	0	0	∞p.
30	29.60	29.57	51.4	74.9	79	50	46.4	68	56.8	30	E	3	SW	3	.....	.....	0	6 ci., 0	
31	29.57	29.62	51.0	75.6	79	50	45.7	67	57.0	29	NW	4	SW	5	.....	.....	0	9 s., sw	
Mn	29.66	29.61	54.2	81.1	83.4	52.0	49.2	70.5	59.4	25.8	NW	3.3	sw / w	3.2	0	0	0.6 ci. s., a. cu., a. s., 0	1.4 ci. s., sw	

FRESNO, CAL.

[φ=36° 43′ N; λ=119° 49′ W; barometer above sea, 330 feet; gravity correction applied, −02.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.68	29.64	53.2	69.4	79	51	48.0	68	55.4	39	N	4	SW	3			5 a. s., 0	6 a. cu., n	
2	29.67	29.63	46.5	73.4	78	44	42.0	68	56.4	32	SW	4	SW	2			1 a. s., 0	Few a. s., 0	∞ᵒp.
3	29.67	29.63	46.6	74.6	79	46	42.1	69	57.6	34	SE	2	SE	3			0	10 a. s., 0	
4	29.71	29.78	53.4	58.8	75	53	50.0	79	50.3	55	E	7	NW	12			10 a. cu., 0	10 a. s., s	
5	29.82	29.73	51.2	63.5	65	48	48.2	81	51.0	40	NW	6	NW	5			10 a. s., 0	Few ci., 0	
6	29.69	29.56	48.2	68.5	70	48	46.2	86	54.5	38	NW	2	NW	3			0	0	
7	29.55	29.62	47.9	58.4	70	46	45.4	88	56.4	88	E	5	W	16		0.03	0	10 n., w	
8	29.78	29.88	41.4	53.6	58	40	38.4	76	48.5	69	NW	6	NW	6	0.06		1 ci. s., 0	Few a. s., 0	
9	29.88	29.78	40.9	58.5	60	33	38.8	83	50.5	56	N	4	NW	3			0	2 ci. s., 0	
10	29.75	29.76	48.2	56.5	60	44	44.2	73	45.5	40	NW	13	NW	6			9 a. s., nw	3 ci. s., 0	
11	29.84	29.72	36.6	62.6	65	36	32.6	65	54.1	57	SW	4	SW	2			0	5 a. s., w	
12	29.68	29.62	49.8	68.5	71	49	44.3	64	54.5	38	SE	7	S	2			9 a. cu., nw	10 a. s., 0	
13	29.66	29.63	52.0	71.2	72	52	48.0	75	56.1	37	S	4	SE	3			3 a. cu., 0	9 a. cu., 0	
14	29.70	29.72	52.1	63.2	68	49	48.0	75	54.2	55	NE	4	S	8		T.	8 a. cu., 0	10 s., s	
15	29.85	29.91	45.3	53.0	57	41	43.3	86	46.0	58	NW	11	NW	11	.10		2 a. s., nw	1 a. s., 0	
16	29.92	29.85	35.2	55.9	58	32	34.7	95	46.8	49	N	2	SW	2			0	Few a. s., 0	1
17	29.78	29.66	38.8	59.6	62	38	37.3	87	50.1	50	SW	4	E	2			0	3 ci. s., 0	1
18	29.64	29.53	55.5	67.5	69	53	52.0	79	56.0	48	E	2	SE	7			1 a. s., 0	10 a. s., 0	
19	29.60	29.65	55.2	57.5	59	51	53.2	88	50.0	58	SE	12	SE	6	.03	.07	10 s., 0(?)	10 s., 0	
20	29.78	29.79	54.5	64.4	64	54	54.5	100	54.3	51	SE	8	SE	4	.32	.07	10 n., se	10 a. s., sw	
21	29.87	29.83	56.9	70.4	74	56	52.8	76	61.9	61	SE	4	SE	3			2 a. s., 0	4 ci., 0	
22	29.78	29.68	58.6	69.4	72	51	50.3	80	61.4	57	SE	4	SE	3			0	Few ci. s., 0	
23	29.60	29.60	53.3	65.0	67	51	51.2	86	58.0	66	SE	2	N	3		T.	4 a. s., 0 (?)	3 ci. s., sw	
24	29.67	29.69	47.5	59.5	60	46	47.0	96	55.0	75	N	2	N	3			D. fog, n	Few a. s., 0	
25	29.81	29.81	42.6	61.2	64	40	42.3	98	56.2	73	N	1	NW	8			Lt. fog, n	3 ci. s., 0	
26	29.86	29.77	45.5	60.6	51	45	45.5	100	50.1	97	0	0	NW	3			D. fog, 0	D. fog, nw	
27	29.81	29.75	46.4	50.4	50	45	46.4	100	48.9	90	N	3	N	3			D. fog, n	D. fog, n	
28	29.75	29.75	44.9	54.5	55	44	44.4	96	50.4	75	SE	2	NW	6			D. fog, se	6 a. s., nw	
29	29.80	29.78	48.2	50.1	50	46	48.2	100	48.1	87	NW	3	NW	2			D. fog, nw	D. fog, nw	
30	29.77	29.75	40.6	61.6	63	38	40.6	100	54.5	63	E	4	S	2			D. fog, e	Few ci., s., 0	
Mn	29.74	29.72	47.7	61.7	64.8	45.6	45.3	83.7	53.1	57.9	SE	4.5	NW	4.7	.51	.17	2.8 a. s., nw	4.2 a. s., nw	

DECEMBER, 1903.

1	29.82	29.77	40.4	49.1	55	39	40.4	100	45.6	76	NW	5	NW	10			D. fog, nw	D. fog, nw	
2	29.77	29.68	44.6	45.5	46	43	44.6	100	45.0	96	NW	3	NW	3			D. fog, nw	D. fog, nw	
3	29.69	29.72	43.5	45.6	46	43	43.5	100	44.1	96	S	2	S	3			D. fog, s	D. fog, s	
4	29.78	29.81	40.6	51.5	54	40	40.6	100	49.0	84	S	2	NE	4			D. fog, s	Lt. fog, ne	
5	29.92	29.88	29.6	50.5	53	28	29.3	96	46.4	74	NW	2	NW	2			3 ci. s., 0	0	∞ᵒp., 1/2
6	29.92	29.82	30.9	57.9	59	31	30.8	99	50.4	59	E	5	E	2			0	3 a. s., 0	1/2
7	29.81	29.77	31.9	54.8	59	31	31.7	98	45.3	46	NE	5	SW	2			0	0	∞ᵒp., 1/2
8	29.82	29.82	35.6	56.6	62	33	35.0	94	45.6	40	SE	1	E	4			0	Few ci. s., 0	1/2
9	29.86	29.79	31.8	55.4	58	28	31.5	97	45.3	43	NW	4	NW	2			0	Few ci. s., 0	1/2
10	29.75	29.66	34.9	55.4	60	32	32.8	80	44.3	38	E	4	E	3			0	Few a. s., 0	1/2
11	29.63	29.61	28.0	48.1	50	27	28.0	100	40.0	46	NW	3	NW	4			0	1 a. s., 0	1/2
12	29.72	29.76	34.5	53.4	55	34	34.0	95	44.0	45	E	6	NE	2			8 a. s., 0 (?)	10 a. s., 0	
13	29.86	29.86	35.5	56.6	60	34	35.0	95	45.5	39	E	1	NW	2			0	2 a. s., nw	
14	29.97	29.91	40.5	53.9	58	37	38.0	80	49.4	73	NE	4	NW	2			Few a. s., 0	4 a. s., sw	
15	29.88	29.74	38.5	60.0	60	31	33.4	99	48.0	39	NW	2	NW	3			0	3 a. s., sw	1/2
16	29.68	29.60	45.8	61.6	64	41	42.6	77	48.0	33	E	4	SE	4		T.	8 a. s., 0(?)	10 s., s	
17	29.68	29.66	50.1	52.6	56	48	50.1	100	49.0	77	NW	8	N	5	0.11	0.11	10 n., nw	1 s., 0	
18	29.73	29.78	39.6	50.4	51	34	39.1	96	47.0	78	N	2	E	4			0	1 s., 0	
19	29.90	29.97	36.8	50.3	54	37	36.0	93	48.7	89	SE	5	N	5			0	1 ci., 0	
20	29.90	29.83	38.8	57.1	59	36	38.0	93	49.1	55	SE	3	N	2			1 a. s., 0	1 ci., sw	1
21	29.82	29.77	44.9	50.8	52	43	44.8	99	47.0	76	0	0	N	3			D. fog, 0	5 s., sw	
22	29.83	29.86	34.6	48.4	50	35	34.4	98	44.0	70	N	2	N	3			D. fog, n	4 a. s., 0	
23	29.92	29.89	41.4	50.0	51	40	41.0	95	46.8	79	N	3	W	2			D. fog, n	Few a. s., 0	
24	29.99	29.99	32.8	55.5	57	33	32.7	99	47.0	52	E	2	W	2			0	3 ci. s., sw	
25	30.02	30.00	35.6	55.4	58	34	35.0	94	50.0	68	SE	4	W	2			0	0	1
26	30.01	29.98	33.5	52.9	56	28	33.2	97	47.0	64	W	1	NW	5			0	0	1/2
27	29.98	29.83	32.8	56.2	59	32	32.6	98	47.1	49	NW	3	NW	3			0	0	1/2
28	29.85	29.78	34.9	58.2	56	33	34.4	95	45.1	52	NW	1	NW	2			0	1 a. s., sw	1/2
29	29.80	29.78	36.9	57.4	60	32	33.9	74	47.9	48	NW	2	NW	4			0	0	1/2
30	29.80	29.72	34.6	60.2	61	33	32.7	84	47.7	37	E	1	S	3			0	9 a. s., sw	1/2
31	29.72	29.67	40.5	58.4	61	34	38.0	80	50.4	56	NW	4	NW	3			0	9 a. s., sw	1/2
Mn	29.83	29.80	37.1	53.7	56.1	35.0	36.4	93.7	46.8	60.5	NW	3.0	NW	3.2	.11	.11	1.0 a. s., nw	2.2 a. s., sw	

SAN DIEGO, CAL.

[φ=32° 43′ N; λ=117° 10′ W; barometer above sea, 87 feet; gravity correction applied, −.03.]

JANUARY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.92	29.93	46.0	56.0	61	44	42.5	75	53.5	85	E	7	NW	4	.....	.....	0	0	
2	30.02	30.05	45.3	59.2	64	45	43.0	84	55.0	77	N	4	NW	8	.....	.....	0	0	
3	30.13	30.04	48.6	63.0	67	47	41.3	52	54.0	55	N	2	NW	7	.....	.....	0	0	
4	30.02	30.00	53.0	68.0	74	49	44.0	47	56.7	49	NE	4	SE	3	.....	.....	0	0	
5	30.02	30.04	62.4	73.0	75	56	45.2	20	52.0	19	NE	5	NW	4	.....	.....	0	0	☾
6	30.00	30.00	62.0	72.0	78	55	45.4	22	52.0	21	NE	7	0	0	.....	.....	0	0	
7	30.04	30.00	52.2	61.0	74	51	42.4	41	55.0	66	NE	4	NW	4	.....	.....	0	7 ci., w	⊕ ☾
8	30.00	29.95	50.0	58.0	66	50	42.0	49	56.0	88	NE	1	NW	8	.....	.....	2 ci., w	0	⊕ ☾
9	29.90	29.81	46.8	57.5	61	46	46.3	96	55.0	85	NE	8	W	5	.....	.....	8 s., 0	3 ci., nw	
10	29.85	29.87	46.0	58.5	64	46	44.8	91	56.5	88	E	3	NW	8	.....	.....	0	10 ci. s., nw	☾
11	29.91	29.90	48.0	59.0	62	46	44.0	73	53.0	67	E	6	W	3	.....	.....	3 ci. s., nw	10 a. s., sw	⊕ ☾
12	29.95	29.93	52.5	62.0	67	52	42.7	42	51.5	47	NE	2	NW	6	.....	.....	10 ci. s., sw	10 ci. s., sw	
13	29.88	29.82	56.3	63.4	68	50	43.7	32	50.2	37	N	5	N	4	.....	.....	10 ci. s., sw	10 ci. s., se	⊕ ☾
14	29.80	29.80	46.7	66.8	72	47	38.8	46	47.3	17	NE	6	E	10	.....	.....	0	0	
15	29.85	29.92	55.1	58.0	61	51	46.4	50	56.0	88	E	4	S	16	.....	.....	5 a. cu., sw	0	
16	30.00	29.99	46.0	59.0	63	45	43.5	82	58.5	70	NE	1	NW	5	.....	.....	0	0	
17	30.06	30.04	44.0	58.4	62	43	43.0	93	54.6	78	E	3	NW	8	.....	.....	0	8 s. cu., nw	
18	30.06	30.05	47.0	57.9	59	46	46.0	93	48.4	25	NE	6	NW	4	.....	.....	0	0	
19	30.06	30.02	44.6	58.5	63	44	41.8	79	56.0	86	NE	6	SW	4	.....	.....	0	1 ci. s., nw	⊕ ☰ p.
20	30.03	30.02	46.0	63.4	65	45	42.5	75	57.6	70	E	4	NW	3	.....	.....	9 s. cu., 0	2 ci. s., sw	
21	30.07	30.05	50.3	59.0	65	49	44.7	64	57.0	89	NE	4	W	5	.....	.....	0	1 s., w	
22	30.07	30.03	54.0	59.2	64	53	51.0	82	54.5	74	E	5	NW	9	.....	.....	10 s. cu., sw	0	
23	30.06	29.99	50.1	58.5	63	49	48.6	90	57.0	91	NE	5	NW	9	.....	.....	0	9 s. cu., w	
24	29.98	29.90	51.0	59.0	65	51	50.5	97	57.0	89	NE	6	NW	4	.....	.....	0	2 s., nw	
25	29.85	29.80	55.0	58.5	59	53	54.7	98	58.0	97	SE	5	W	6	0.01	0.06	10 n., se	10 s. cu., nw	
26	29.84	29.88	54.8	57.0	61	55	53.1	90	52.0	71	SE	3	W	4	.02	T.	9 s. cu., se	10 s. cu., w	
27	29.89	29.93	54.0	59.0	61	54	50.5	79	57.5	91	SE	4	S	9	.....	T.	10 s., se	10 s. cu., s	
28	29.91	29.89	57.0	57.5	62	56	56.5	97	54.0	80	SW	15	W	8	.09	.21	10 n., sw	10 s. cu., w	
29	29.99	29.97	48.3	57.9	60	46	45.9	84	50.4	59	NE	8	NW	6	.....	.....	0	10 ci. s., w	
30	29.90	29.86	49.7	56.9	61	49	44.2	64	51.5	69	0	0	NW	6	.....	.....	10 ci. s., w	3 ci., sw	
31	29.85	29.77	46.8	56.0	56	45	43.9	80	53.0	82	E	1	NW	12	.....	.30	10 s., 0	9 s. cu., nw	
Mn.	29.97	29.94	50.6	60.4	64.6	49.0	45.6	69.9	53.9	68.1	NE	4.6	NW	6.2	.12	.57	3.7 ci. s., sw	4.4 s. cu., nw	

FEBRUARY, 1903.

1	29.80	29.74	48.8	52.5	56	48	48.0	94	50.0	84	E	4	W	19	0.09	0.25	8 s. cu., sw	10 s., 0	
2	29.75	29.76	44.0	44.5	51	38	43.5	96	41.5	78	NW	22	E	6	.16	.25	8 s. cu., nw	4 s. cu., nw	▲
3	29.93	29.92	39.0	53.0	55	37	36.0	75	45.5	55	E	8	SW	6	.06	T.	2 s. cu., e	4 cu., sw	☾
4	29.82	29.77	47.5	49.0	53	43	46.2	91	46.0	80	SE	10	SE	6	.02	.76	10 n., sc	10 s. cu., sw	▲
5	29.80	29.89	43.0	51.0	53	41	42.0	92	43.5	53	E	2	E	4	.27	.....	10 s. cu., sw	1 cu., ne	
6	30.00	30.05	38.2	54.0	58	38	36.8	88	46.5	56	E	6	NW	10	.05	.....	0	0	☾
7	30.10	30.12	42.0	55.4	58	42	39.6	82	48.1	58	E	2	W	6	.....	.....	10 ci. s., w	9 ci. s., w	
8	30.05	29.95	48.0	55.5	57	47	45.0	79	52.0	79	NE	5	NW	7	.....	.20	10 s., 0	9 s. cu., nw	
9	30.04	30.07	45.0	58.0	60	44	42.7	84	52.5	69	NE	8	NW	14	.....	.....	0	0	☾
10	30.08	30.00	46.4	58.0	64	44	43.2	77	54.9	82	NE	5	NW	10	.....	.....	0	0	
11	29.95	29.85	49.6	61.8	63	48	46.8	81	56.0	70	NE	1	W	2	.....	.....	0	0	
12	29.75	29.72	55.2	56.0	59	52	53.8	92	48.5	57	SW	4	SW	9	.....	.....	10 s. cu., w	9 ci. s., w	
13	29.70	29.66	50.0	51.5	56	42	49.5	96	46.0	66	SE	10	W	8	.01	.05	10 n., se	8 s. cu., sc	▲
14	29.74	29.76	36.4	51.0	51	36	35.2	89	38.5	26	NE	2	N	9	.10	.....	0	0	☾
15	29.88	29.99	35.4	54.0	56	35	31.4	63	44.5	45	NE	5	W	4	.....	.....	0	0	☾
16	30.05	30.09	39.2	56.0	58	39	35.8	72	46.0	44	E	4	NW	8	.....	.....	0	1 ci. s., s	
17	30.06	29.92	40.0	57.0	61	39	38.3	85	52.5	74	NE	4	NW	10	.....	.....	0	0	
18	29.96	30.00	44.6	59.2	61	44	42.2	82	54.0	71	N	3	W	6	.....	.....	0	0	
19	30.09	30.13	43.8	57.2	61	43	43.0	94	54.7	85	N	2	NW	5	.....	.....	0	2 ci. s., w	
20	30.15	30.10	52.0	59.1	62	45	51.0	94	55.4	80	N	5	NW	8	.....	.....	10 s., n	1 ci., nw	
21	30.10	30.02	50.0	65.1	75	48	45.5	71	52.6	41	NE	6	NW	8	.....	.....	0	10 ci. s., w	
22	30.02	29.98	55.5	66.5	73	55	49.0	62	51.5	32	NE	10	NW	7	.....	.....	6 ci. s., sw	10 ci. s., sw	
23	30.01	29.98	52.0	59.9	67	49	46.0	63	57.5	87	N	2	W	4	.....	.....	0	10 ci. cu., sw	
24	29.95	29.83	54.8	58.0	61	53	53.0	89	55.0	83	SE	2	W	6	.....	.....	10 s., 0	0	
25	29.83	29.76	48.5	63.6	65	47	47.0	90	53.0	48	E	6	W	6	.....	.....	0	0	☾
26	29.73	29.77	47.4	60.5	62	47	44.2	78	55.0	70	E	6	NW	12	.....	.....	0	0	
27	29.89	29.91	48.0	59.5	64	48	43.5	69	56.0	80	NE	5	S	5	.....	.....	0	10 a. s., sw	
28	29.89	29.86	51.3	60.0	64	50	47.9	79	56.0	78	SE	4	NW	8	.....	.....	10 ci. s., sw	10 ci. s., sw	
Mn.	29.94	29.92	46.3	56.7	60.1	44.4	43.8	82.4	50.5	65.4	NE	5.5	NW	7.6	.76	1.51	4.1 s. cu., sw	4.2 ci. s., sw	

SAN DIEGO, CAL.

[φ=32° 43′ N; λ=117° 10′ W; barometer above sea, 87 feet; gravity correction applied, −.03.]

MARCH, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.90	29.84	51.0	64.0	68	49	40.5	36	53.0	47	NE	4	NW	8	.....	.....	4 s. s., s.	0	
2	29.85	29.83	48.5	62.0	66	47	39.0	38	56.0	69	NE	9	SW	4	.....	.....	0	0	
3	29.82	29.84	52.3	59.0	62	51	43.7	49	56.0	83	E	6	S	9	.....	.....	10 ci. s., nw	10 s. cu., sw	
4	29.86	29.85	53.8	55.0	59	54	49.3	73	51.0	76	SE	6	S	15	.....	0.26	10 s. cu., se	10 n., s	
5	29.85	29.89	55.0	57.2	61	54	54.0	94	52.7	74	S	6	NW	10	0.12	.20	10 n., s	0	
6	29.94	30.00	51.0	56.0	59	50	47.4	77	47.2	51	N	2	NW	7	.....	.....	10 s., 0	0	
7	29.95	29.92	45.1	58.5	60	44	43.3	87	51.0	59	N	6	W	6	.....	.....	0	0	
8	29.94	29.94	49.8	53.0	59	49	47.8	87	51.5	90	E	1	S	8	.....	.05	10 s., 0	10 s. cu., s	
9	29.98	30.04	52.8	57.0	59	52	51.3	90	51.0	66	NE	3	NW	9	.01	.03	0	0	
10	30.06	30.05	47.0	65.0	69	46	44.5	82	58.0	68	NE	4	NW	6	.....	.....	0	0	
11	30.03	29.97	50.5	62.0	67	49	44.0	58	57.0	74	NE	7	NW	12	.....	.....	0	6 ci. s., w	
12	29.92	29.85	51.2	60.0	65	50	51.0	99	56.9	83	N	6	NW	7	.....	.....	D. fog, n	8 a. s., sw	
13	29.85	29.80	50.6	56.5	61	49	48.5	86	53.0	80	N	4	W	4	.....	.....	10 s. cu., nw	10 a. cu., sw	
14	29.79	29.80	54.0	59.5	62	53	52.0	88	57.0	86	S	1	NW	4	T.	.....	10 s., sw	10 s. cu., nw	
15	29.84	29.91	51.0	56.8	58	51	49.5	90	51.3	69	N	4	NW	10	.....	.....	10 s. cu., w	2 s. cu., nw	
16	29.91	29.94	50.6	57.2	60	50	47.1	78	48.2	50	NW	2	W	8	.....	T.	10 s. cu., w	8 ci., sw	
17	29.91	29.91	52.0	54.0	57	51	46.5	66	51.0	82	NW	12	NW	11	.06	.....	10 s. cu., sw	3 cu., nw	
18	29.93	29.95	43.0	57.8	62	42	41.5	88	50.0	57	E	4	NW	9	.....	.....	0	0	
19	29.97	29.92	44.6	62.8	69	44	43.1	89	53.3	53	E	4	NW	9	.....	.....	0	8 ci. cu., nw	
20	29.95	29.92	58.2	66.0	71	56	45.2	32	57.0	57	N	4	N	4	.....	.....	10 a. s., nw	10 s. s., nw	
21	29.90	29.86	52.3	64.0	72	51	42.8	43	53.0	47	NE	6	NW	9	.....	.....	8 ci. s., w	3 ci. s., w	☋
22	29.88	29.82	51.0	64.0	66	49	45.5	65	55.0	56	N	1	NW	9	.....	.....	10 s. cu., nw	0	
23	29.82	29.78	52.0	60.5	67	51	48.5	78	56.4	78	NE	3	NW	5	.....	.....	0	10 s. cu., nw	
24	29.75	29.76	56.2	58.4	62	56	55.0	93	57.5	95	SE	6	S	13	.....	T.	10 s. cu., se	10 s. cu., s	
25	29.75	29.87	54.0	61.0	62	54	50.5	79	57.0	78	SE	4	SW	9	.13	.03	10 s. cu., se	8 cu., sw	
26	30.00	30.00	54.8	61.5	65	54	53.8	94	57.0	76	S	4	NW	11	.....	.....	10 s. cu., sw	0	
27	30.00	29.96	51.0	64.5	68	50	50.5	97	59.0	72	NE	4	NW	11	.....	.....	0	2 ci., nw	
28	29.95	29.94	55.3	63.9	69	55	54.8	97	57.4	67	NW	5	N	7	.....	.....	8 s., nw	4 ci. cu., nw	≡a.
29	29.89	29.90	54.0	62.0	70	53	53.0	94	60.5	92	E	6	NW	11	.....	.....	2 ci. s., w	10 s., 0	
30	29.88	29.93	61.5	64.0	69	61	59.0	86	61.0	84	N	2	NW	7	.....	.....	10 s., 0	10 s., sw	
31	29.93	29.86	61.0	66.0	66	60	60.0	94	64.0	90	NE	3	SE	3	.10	.18	10 n., sw	10 s. cu., sw	
Mn	29.90	29.90	52.1	60.3	64.2	51.1	48.5	77.6	54.8	71.2	NE	4.5	NW	8.2	.42	.75	6.2 s. cu., nw	5.2 s. cu., nw	

APRIL, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.86	29.86	58.0	60.0	62	57	55.5	85	53.0	63	W	1	W	14	0.26	0.05	10 s. cu., sw	4 s. cu., w	
2	29.92	29.99	56.0	61.5	62	53	51.5	73	53.5	58	NW	5	NW	10	.05	.....	7 s. cu., nw	0	
3	29.97	29.89	49.4	68.0	73	49	47.9	90	53.9	38	NE	4	N	9	.....	.....	0	10 a. s., s	
4	29.78	29.69	56.0	61.5	64	55	50.5	68	58.4	83	NE	4	W	5	.....	.....	10 a. s., s	4 ci. s., sw	
5	29.75	29.80	55.5	59.0	60	55	49.5	65	52.0	62	SW	8	SW	7	.....	.....	9 s., sw	0	
6	29.85	29.85	54.4	60.7	63	54	49.9	73	55.2	61	E	3	W	6	.....	.....	10 s., 0	0	
7	29.85	29.84	48.0	62.5	64	47	46.9	92	56.5	69	NW	4	NW	9	.....	.....	0	0	
8	29.80	29.81	56.0	58.5	64	54	54.5	91	56.0	86	S	5	SW	4	.....	.....	10 s., s	10 s., sw	
9	29.84	29.87	57.0	60.5	64	56	54.0	82	54.6	68	SE	4	W	5	.....	.02	10 s. cu., se	10 s., s	
10	29.90	29.89	55.5	57.2	62	54	53.4	87	54.2	82	SE	4	NW	12	.02	.....	10 s., sw	8 s. cu., w	
11	29.88	29.90	54.8	59.0	60	54	47.3	57	58.0	94	SW	4	SW	9	.....	.....	10 s. cu., sw	0	
12	29.92	29.88	47.0	61.5	64	47	45.5	89	55.5	68	E	6	NW	14	.....	.....	0	0	
13	29.85	29.79	49.7	62.5	66	49	48.8	94	57.0	71	NE	5	W	9	.....	.....	10 s. cu., nw	0	
14	29.80	29.80	57.0	58.2	62	56	51.5	69	51.7	64	W	5	NW	10	.....	.....	10 s. cu., s	7 cu., w	
15	29.80	29.79	47.2	58.5	61	47	44.7	82	54.0	74	NE	6	SW	8	.....	.....	0	0	
16	29.80	29.73	51.0	52.0	64	50	46.0	68	48.7	79	SE	12	S	18	.....	.39	6 a. cu., s	10 n., s	
17	29.75	29.90	56.0	61.0	62	50	54.5	97	54.0	63	SW	15	SW	8	.54	.07	9 s. cu., sw	4 cu., sw	
18	29.95	29.92	51.7	59.8	62	51	50.0	89	54.3	70	NW	4	NW	6	.....	.....	0	3 s., nw	
19	29.89	29.88	52.0	61.0	62	52	50.5	90	56.5	76	N	1	W	10	.....	.....	8 s., sw	10 s., w	
20	29.95	29.98	56.3	61.0	63	56	53.8	85	55.0	68	NW	1	NW	11	.....	.....	10 s., 0	0	
21	29.98	29.93	58.9	65.5	66	53	51.1	83	58.5	87	N	2	NW	10	.....	.....	0	0	
22	29.88	29.76	55.2	63.5	65	54	54.7	97	61.0	97	NW	1	NW	10	.....	.....	8 s., nw	3 ci. s., sw	≡a. ⊕
23	29.74	29.78	55.6	61.0	62	54	55.1	97	58.2	85	NW	3	S	9	.....	.....	D. fog, nw	10 s., s	
24	29.84	29.86	57.2	60.9	65	57	55.4	89	57.4	81	SE	3	W	5	.....	.....	10 s., se	10 s., s	
25	29.90	29.88	57.0	61.8	67	56	56.0	94	57.3	76	NW	1	NW	9	.....	.....	10 s., 0	10 s. cu., nw	
26	29.83	29.77	58.0	59.5	63	58	58.4	74	54.5	72	W	4	SW	5	.....	.....	10 s. cu., w	10 s. cu., sw	
27	29.73	29.74	57.0	60.5	62	56	52.0	71	57.0	81	SW	6	SW	8	.....	.....	10 s., sw	7 s. cu., s	
28	29.81	29.92	52.3	62.1	65	52	51.0	92	57.1	74	SE	6	W	6	.....	.....	0	0	
29	29.97	29.98	52.0	63.5	67	51	50.0	87	59.0	77	N	4	NW	9	.....	.....	2 a. s., w	0	
30	29.99	29.94	54.8	64.0	67	54	54.3	97	58.2	71	NE	6	NW	12	.....	.....	8 s., ne	3 ci., w	≡a.
Mn	29.86	29.86	54.0	60.9	63.8	53.0	51.8	83.6	55.7	73.3	NW	4.6	NW	8.9	.87	.53	6.6 s., sw	4.4 s., s	

SAN DIEGO, CAL.

[φ=32° 43′ N; λ=117° 10′ W; barometer above sea, 87 feet; gravity correction applied, −.08.]

MAY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.89	29.92	57.2	59.7	64	55	56.0	93	55.2	75	NE	4	SW	7			10 s., 0	2 s., sw	
2	29.91	29.91	57.0	59.5	64	56	53.5	80	55.5	78	W	3	W	4			10 s., 0	9 ci. cu., sw	
3	29.90	29.86	58.4	63.0	66	58	54.4	77	58.5	77	SW	2	NW	11			10 s., sw	9 s., w	
4	29.85	29.81	59.2	62.5	65	58	56.5	85	57.5	74	NW	6	NW	9			10 s., 0	0	
5	29.85	29.85	58.0	61.5	65	57	55.5	85	58.5	84	SW	1	NW	12			10 s. cu., sw	10 s., nw	
6	29.85	29.84	59.5	63.0	65	59	56.5	83	58.0	74	N	6	NW	13			10 s., n	0	
7	29.84	29.82	57.0	61.8	63	57	56.0	94	56.5	72	W	5	SW	8	T.		10 s., nw	8 s., sw	
8	29.80	29.80	57.0	60.0	62	57	55.5	91	54.9	72	W	5	SW	6		0.02	10 s., w	10 s., sw	
9	29.83	29.83	58.5	62.0	64	58	52.9	69	57.0	74	SE	4	W	5			10 s., 0	7 s., w	
10	29.84	29.82	59.5	64.0	65	60	55.0	75	58.0	70	W	4	SW	5			10 s. cu., w	4 cu., sw	
11	29.84	29.84	60.4	64.5	68	60	56.0	76	58.0	68	W	1	W	10			10 s., 0	0	
12	29.85	29.83	60.8	64.0	67	60	56.3	86	60.5	82	N	3	NW	16			10 s., 0	0	
13	29.85	29.82	59.3	63.0	65	59	58.0	92	59.0	79	N	4	NW	11			10 s., 0	2 ci., s	
14	29.78	29.74	59.0	61.5	64	59	56.5	86	57.5	78	S	3	SW	7			10 s., s	10 s., sw	
15	29.73	29.70	59.3	63.0	61	59	55.8	80	56.0	64	S	1	SW	6			10 s., 0	0	
16	29.72	29.74	56.8	60.0	64	56	54.0	83	57.9	88	SE	7	S	10			10 s., se	10 s. cu., s	
17	29.75	29.84	58.5	62.0	64	57	52.5	66	54.5	61	S	12	NW	17			9 s. cu., sw	0	
18	29.90	29.88	50.0	63.0	68	50	46.5	77	55.0	60	NE	4	NW	12			0	0	
19	29.79	29.74	53.5	62.8	63	53	51.0	84	57.3	71	SE	8	W	6			10 s. cu., s	3 s., w	
20	29.75	29.80	56.2	57.0	60	56	51.7	73	54.0	82	W	9	SW	10		T.	10 s., w	10 s., sw	
21	29.85	29.90	56.0	57.5	60	54	50.5	68	51.5	66	W	9	W	12		.01	10 s. cu., w	10 s. cu., w	
22	29.89	29.89	52.0	61.2	64	52	47.5	72	53.0	57	SE	5	NW	9			4 s. cu., sw	0	
23	29.88	29.86	53.4	60.5	63	53	49.7	77	52.5	58	S	3	W	12			9 s., s	10 s. cu., w	
24	29.84	29.79	53.8	61.2	62	53	50.3	79	52.7	56	E	4	W	9			10 s., 0	2 cu., w	
25	29.84	29.94	56.0	61.5	64	56	53.5	85	56.0	71	S	1	W	8	0.09	.02	10 s. cu., sw	9 s. cu., w	
26	29.97	29.93	55.0	61.3	64	54	53.5	91	58.3	73	0	0	NW	12			10 s., 0	0	
27	29.88	29.85	58.3	63.5	66	57	54.4	78	58.0	72	NE	3	W	6			10 s., 0	2 s. cu., w	
28	29.85	29.80	59.0	63.0	67	58	55.5	80	58.5	77	S	4	SW	7			10 s., 0	4 s. cu., sw	
29	29.83	29.81	59.1	64.0	67	57	58.0	93	59.0	74	NW	1	SW	4			10 s., 0	7 s. cu., sw	
30	29.82	29.77	58.5	61.0	66	58	57.5	94	58.0	84	SE	2	NW	1			8 s., se	9 s., w	≡a.
31	29.77	29.75	60.0	60.5	63	60	57.5	86	58.0	86	SW	4	SW	7			10 s., 0	10 s. cu., sw	
Mn	29.84	29.83	57.3	61.7	64.4	56.6	54.2	81.9	56.5	72.8	W	4.1	NW	8.8	.09	.05	9.4 s., sw	5.1 s., w	

JUNE, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.77	29.85	60.0	61.5	64	60	57.0	83	58.0	81	SE	5	SW	5			10 s. cu., se	10 s. cu., sw	
2	29.90	29.91	59.5	63.2	68	58	57.0	86	60.7	87	SW	2	NW	12			10 s. cu., sw	4 s. cu., nw	
3	29.91	29.84	60.0	65.8	68	60	58.5	91	60.3	73	NW	6	NW	10			10 s., 0	0	
4	29.80	29.79	58.7	65.8	70	56	57.2	91	60.3	73	N	3	SW	7			10 s., 0	0	
5	29.77	29.78	57.5	71.7	74	58	56.0	91	62.7	61	SW	3	W	7			8 s., sw	0	≡a.
6	29.85	29.88	63.1	65.5	67	62	61.0	89	61.5	80	S	5	SW	5			10 s., s	2 ci., w	
7	29.90	29.85	62.0	66.0	69	61	60.0	89	59.5	68	S	5	W	10			10 s., 0	0	
8	29.86	29.80	61.5	65.5	67	62	59.5	89	60.0	72	W	2	W	7			10 s., 0	1 s., w	
9	29.80	29.76	60.6	65.0	68	60	58.8	90	61.0	80	SW	4	SW	8			10 s., sw	1 ci., sw	
10	29.78	29.78	62.0	65.2	68	61	58.0	79	60.2	75	N	3	W	8			10 s., 0	8 s., w	
11	29.80	29.80	62.6	62.8	70	62	60.1	87	61.3	92	N	4	W	7			10 s., n	0	
12	29.76	29.75	60.9	66.0	68	60	59.9	94	62.0	80	N	5	NW	10			10 s., n	1 s., nw	
13	29.75	29.75	61.0	61.0	63	59	57.5	81	56.0	73	W	1	SW	7			10 s., w	8 s., sw	
14	29.75	29.78	59.3	62.0	66	58	55.8	80	55.5	66	SW	5	W	8			10 s., sw	2 s., w	
15	29.77	29.87	56.8	63.0	66	54	53.8	82	56.0	64	SE	4	W	9			10 s., 0	0	
16	29.88	29.89	57.0	66.0	68	56	54.0	82	58.9	66	N	1	NW	12			0	0	
17	29.89	29.84	56.2	67.5	71	55	55.0	93	61.0	69	N	4	NW	9			0	2 ci., w	
18	29.83	29.83	58.0	64.2	69	57	57.0	94	59.7	77	NW	1	SW	5			8 s., nw	Few ci., nw	≡a.
19	29.80	29.80	56.8	66.5	68	56	56.3	97	62.0	82	N	2	W	6			8 s., 0	0	≡a.
20	29.76	29.74	59.2	67.0	68	58	58.0	93	62.0	75	S	1	W	6			10 s., 0	0	
21	29.75	29.75	61.0	63.0	66	60	59.9	94	61.0	89	SE	1	SW	8			0	8 s., sw	
22	29.73	29.76	58.9	67.0	67	59	56.4	86	59.5	64	SE	6	W	8			10 s., se	5 ci., s	
23	29.76	29.75	61.5	62.0	64	60	60.0	92	60.0	89	S	5	SW	7			10 s., s	10 s., sw	
24	29.75	29.70	59.0	64.0	66	59	58.1	95	61.0	84	SW	3	SW	6			10 s., sw	10 s., sw	
25	29.68	29.68	61.0	63.2	66	60	60.5	97	60.2	84	SW	1	SW	5			10 s., sw	10 s., sw	
26	29.70	29.76	61.0	68.0	68	60	60.1	95	64.5	83	NW	1	SW	6			10 s., nw	0	
27	29.80	29.82	61.0	67.5	68	60	60.2	95	62.9	78	NW	1	NW	9			10 s., nw	0	
28	29.75	29.70	60.0	66.0	68	59	59.9	99	62.5	82	NW	4	NW	12	T.		10 s., 0	0	
29	29.68	29.65	61.4	64.5	66	61	60.9	97	60.0	77	SE	1	SW	9			10 s., 0	0	
30	29.70	29.74	61.0	64.5	66	60	59.9	94	59.0	72	SE	7	SW	8			10 s., 0	0	
Mn	29.79	29.79	60.0	65.0	67.5	59.0	58.2	90.2	60.0	76.5	N	3.2	SW	7.9	T.	0	8.8 s., sw	2.7 s., sw	

SAN DIEGO, CAL.

[φ=32° 42′ N; λ=117° 10′ W; barometer above sea, 87 feet; gravity correction applied, −.03.]

JULY, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.74	29.67	59.0	67.4	68	59	58.0	94	61.9	78	SE	4	W	8	.....	.....	10 s., se	0	
2	29.65	29.68	61.4	67.0	67	61	60.9	97	61.5	73	S	6	SW	8	.....	.....	10 s., s	2 s., w	
3	29.70	29.75	62.1	69.2	70	62	60.1	89	63.7	74	NW	1	W	8	.....	.....	10 s., nw	0	
4	29.81	29.75	64.3	70.0	73	62	62.8	92	61.5	61	N	4	NW	14	.....	.....	10 s., 0	0	
5	29.75	29.70	64.8	66.0	71	63	63.8	95	64.1	90	NW	2	SW	8	.....	.....	8 s., nw	0	≡ᵉa.
6	29.73	29.74	63.0	67.0	68	62	60.5	87	61.5	73	S	8	SW	8	.....	.....	10 s., s	0	
7	29.78	29.75	61.4	68.9	70	61	58.9	86	63.4	74	SW	4	NW	13	.....	.....	10 s., 0	0	
8	29.75	29.71	60.0	70.5	71	59	57.0	83	66.0	79	N	5	NW	12	.....	.....	7 s., n	0	
9	29.75	29.76	62.0	70.0	71	61	60.9	94	65.9	81	NW	1	NW	10	.....	.....	10 s., w	0	
10	29.81	29.80	62.2	69.9	71	62	59.9	87	66.5	84	NW	3	NW	14	.....	.....	10 s., nw	0	
11	29.82	29.76	64.0	72.4	73	63	63.2	96	67.9	79	NW	2	NW	17	.....	.....	10 s., 0	0	
12	29.80	29.75	64.0	72.0	72	63	63.0	95	65.5	71	NW	1	NW	12	.....	.....	10 s., nw	0	
13	29.77	29.74	62.0	75.1	78	62	61.6	98	67.0	66	NW	1	NW	14	.....	.....	0	0	
14	29.75	29.79	66.2	68.1	71	65	63.1	84	63.9	79	NW	4	SW	8	.....	.....	10 ci. cu., s	2 ci. cu., s	
15	29.80	29.86	65.0	69.0	73	65	63.8	94	67.3	92	SW	9	SW	4	.....	.....	10 s., w	10 cu., sw	
16	29.86	29.88	64.0	68.0	71	64	62.1	90	63.5	78	SW	1	W	5	.....	.....	10 s., sw	0	
17	29.88	29.87	62.7	66.0	68	63	61.2	92	63.1	85	N	2	NW	7	.....	.....	10 s., n	0	
18	29.87	29.85	62.0	67.0	69	62	60.0	89	62.0	75	N	1	W	9	.....	.....	10 s., n	0	
19	29.85	29.82	62.0	67.0	69	61	61.1	95	62.0	75	N	1	W	5	.....	.....	10 s., n	0	
20	29.80	29.84	61.4	65.5	69	61	59.3	88	61.5	80	NE	4	SW	6	.....	.....	10 s., ne	0	
21	29.85	29.87	62.0	68.0	71	60	59.5	86	64.2	81	N	3	W	10	.....	.....	10 s., n	0	
22	29.87	29.85	62.0	69.2	72	61	61.0	94	63.0	71	N	3	NW	13	.....	.....	1 s., n	0	
23	29.88	29.87	63.5	70.5	73	61	62.0	92	65.0	74	NW	4	NW	13	.....	.....	10 s., nw	0	
24	29.88	29.82	61.8	72.0	74	61	61.3	97	65.0	69	NE	1	W	9	.....	.....	8 s., 0	0	≡ᵉa.
25	29.82	29.83	61.2	70.0	72	60	60.7	97	65.0	77	N	1	W	9	.....	.....	8 s., 0	0	≡ᵉa.
26	29.86	29.86	64.5	68.0	71	63	61.0	82	62.5	74	NW	3	NW	13	.....	.....	10 s., 0	0	
27	29.91	29.90	62.9	68.0	70	63	60.9	89	63.4	78	N	5	NW	12	.....	.....	10 s., 0	0	
28	29.88	29.85	62.0	67.2	71	61	61.0	94	65.1	89	N	4	NW	12	.....	.....	10 s., 0	0	
29	29.85	29.82	62.7	66.8	70	60	60.2	87	61.2	73	E	5	W	8	.....	.....	10 s., 0	0	
30	29.83	29.80	61.3	66.0	68	61	59.7	91	60.5	78	0	0	SW	8	.....	.....	10 s., 0	0	
31	29.80	29.78	60.0	65.0	67	59	58.5	91	60.0	75	SW	5	SW	8	.....	.....	10 s., 0	0	
Mn	29.81	29.80	62.5	68.6	70.7	61.6	60.9	91.1	63.7	76.6	{n nw}	3.2	NW	9.8	0	0	9.1 s., n	0.5 s., s., sw., w	

AUGUST, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.77	29.80	60.9	65.7	67	61	59.5	92	60.2	73	S	1	SW	7	.....	.....	10 s., s	6 s., sw	
2	29.77	29.80	62.0	68.0	70	62	61.0	94	64.5	83	SW	1	W	6	.....	.....	10 s., sw	1 s., w	
3	29.80	29.79	65.0	66.5	70	62	61.5	82	62.0	78	NW	2	W	9	.....	.....	10 s., 0	0	
4	29.81	29.79	60.9	68.0	71	60	59.9	94	63.0	76	N	4	W	11	.....	.....	10 s., 0	0	
5	29.77	29.76	62.4	68.0	70	62	60.9	92	63.8	79	NW	4	NW	12	.....	.....	8 s., 0	0	≡ᵉa.
6	29.77	29.82	63.6	70.1	74	63	63.0	97	65.6	79	NW	2	SW	6	.....	.....	8 s., 0	6 s., sw	≡ᵉa.
7	29.84	29.85	63.5	68.5	71	62	63.0	97	63.8	78	S	2	SW	8	.....	.....	8 s., 0	1 ci., se	≡ᵉa.
8	29.83	29.80	64.5	70.0	74	64	62.5	92	64.5	74	W	1	W	8	.....	.....	0	0	
9	29.80	29.78	65.0	68.8	71	64	63.0	90	63.9	76	NW	2	SW	4	.....	.....	10 s., 0	1 s., sw	
10	29.82	29.85	65.4	69.5	73	64	62.6	86	64.0	74	SW	1	W	9	.....	.....	10 s., 0	0	
11	29.86	29.85	62.6	70.3	73	62	61.6	95	64.8	74	W	1	NW	10	.....	.....	1 s., w	0	
12	29.85	29.82	62.3	69.0	71	62	61.1	93	64.5	79	NW	3	NW	11	.....	.....	8 s., nw	0	
13	29.83	29.80	65.2	69.0	72	64	62.7	87	63.0	72	NW	3	NW	9	.....	.....	10 s., nw	0	
14	29.84	29.80	64.0	68.8	72	64	61.0	84	62.8	72	N	4	NW	8	.....	.....	10 s., 0	0	
15	29.78	29.75	63.5	69.2	72	63	61.2	88	63.5	73	N	4	NW	13	.....	.....	10 s., 0	0	
16	29.75	29.69	64.8	73.5	75	62	63.2	90	66.5	69	NW	3	W	6	.....	.....	10 s., nw	0	
17	29.70	29.73	65.0	72.2	79	64	64.5	97	68.8	84	NW	3	SW	8	.....	.....	1 s., nw	8 s., sw	
18	29.72	29.73	67.2	77.0	78	67	66.0	94	70.0	71	W	2	SW	5	.....	.....	1 ci. cu., se	2 ci., se	
19	29.74	29.72	69.0	74.0	85	68	67.0	90	69.5	80	SW	1	SW	6	.....	.....	1 ci., s	8 ci. s., se	
20	29.71	29.70	69.5	77.4	79	68	67.3	89	70.2	70	S	3	NW	10	.....	T.	0	8 a. s., se	
21	29.72	29.68	69.3	76.0	81	69	68.0	94	68.0	66	NW	1	NW	9	.....	.....	2 a. s., se	2 ci. s., se	
22	29.66	29.63	67.0	75.3	78	67	66.5	97	67.8	68	NW	2	SW	4	.....	.....	8 s., nw	0	≡ᵉa.
23	29.63	29.64	67.2	65.5	69	64	63.2	80	62.0	82	S	4	SW	4	.....	.....	10 s. cu., s	10 s. cu., sw	
24	29.68	29.70	64.0	67.2	70	63	59.5	77	62.0	74	SW	6	NW	6	.....	.....	10 s. cu., sw	3 s. cu., nw	
25	29.75	29.78	64.0	69.0	71	63	60.0	79	60.5	61	SW	5	W	8	.....	.....	10 s. cu., sw	0	
26	29.81	29.80	65.0	69.3	72	64	59.7	73	61.7	65	SW	2	W	8	.....	.....	10 s., 0	0	
27	29.84	29.82	64.2	70.0	73	63	61.4	85	63.5	70	N	4	NW	10	.....	.....	10 s., 0	0	
28	29.85	29.84	65.0	67.4	72	64	60.5	77	63.1	79	NW	4	NW	10	.....	.....	10 s., 0	0	
29	29.88	29.86	64.4	68.4	71	62	61.0	82	63.8	78	N	3	NW	11	.....	.....	10 s., 0	0	
30	29.84	29.80	63.8	69.0	71	64	62.1	91	64.0	76	N	2	NW	8	.....	.....	10 s., 0	0	
31	29.80	29.77	63.0	70.0	72	62	61.5	92	64.5	74	NW	3	NW	8	.....	.....	10 s., 0	0	
Mn	29.78	29.77	64.6	70.0	73.1	63.6	62.4	88.7	64.5	74.4	NW	2.7	NW	8.1	0	T.	7.6 s., nw	1.8 s., se., sw	

SAN DIEGO, CAL.

[φ=32° 43′ N; λ=117° 10′ W; barometer above sea, 87 feet; gravity correction applied, −.03.]

SEPTEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.79	29.75	62.7	69.8	72	62	61.4	93	65.3	79	NW	3	NW	9	.....	.....	0.....	0.....	
2	29.75	29.75	64.8	70.9	78	64	63.8	95	66.2	78	NW	4	NW	8	.....	.....	10 s., nw	0.....	
3	29.76	29.73	64.0	71.2	73	63	63.2	96	65.8	75	NW	1	NW	9	.....	.....	1 s., w	0.....	
4	29.72	29.70	63.3	70.5	74	63	62.8	97	66.2	80	N	5	W	8	.....	.....	5 s., n	0.....	
5	29.75	29.75	65.2	67.0	68	63	63.8	93	63.0	80	SW	3	SW	6	.....	.....	10 s., 0	4 s., sw.....	
6	29.76	29.70	62.4	70.0	73	62	60.2	88	64.5	74	S	1	NW	10	.....	.....	10 s., s.....	0.....	
7	29.69	29.67	62.3	71.8	75	61	61.0	93	66.4	75	NW	1	SW	5	.....	.....	10 s., 0.....	1 ci., s.....	
8	29.70	29.76	65.8	77.8	83	64	61.7	80	65.0	50	SW	4	SE	4	.....	.....	2 ci., s.....	1 ci., se.....	
9	29.86	29.88	70.0	73.3	80	70	68.0	90	70.0	85	SW	1	W	4	.....	.....	0.....	8 s., w.....	
10	29.85	29.76	68.3	75.5	79	67	66.8	92	68.0	68	N	1	NW	8	.....	.....	0.....	2 ci., se.....	
11	29.70	29.72	67.3	69.0	73	66	65.6	91	64.0	76	S	8	S	9	.....	.....	9 s. cu., s	8 s. cu., s	
12	29.75	29.80	66.2	64.0	69	63	60.7	73	59.6	77	S	9	SW	4	.....	.....	10 s. cu., s	10 s. cu., sw	
13	29.80	29.80	65.0	66.0	70	63	58.0	66	61.0	75	SW	1	SW	8	.....	.....	10 s. cu., sw ...	8 s., w.....	
14	29.84	29.85	62.7	69.3	70	62	57.8	74	60.7	61	SW	1	NW	9	.....	.....	10 s. cu., sw ...	0.....	
15	29.86	29.87	57.3	69.0	72	56	54.9	86	64.0	76	NW	4	NW	13	.....	.....	0.....	0.....	
16	29.89	29.89	61.0	75.2	82	59	60.7	98	66.5	63	N	1	NW	7	.....	.....	0.....	0.....	
17	29.90	29.89	60.2	71.5	75	60	59.1	93	66.9	75	NW	1	NW	10	.....	.....	0.....	0.....	
18	29.90	29.86	63.0	67.7	72	62	62.0	95	62.9	77	N	2	W	9	.....	.....	10 s., 0.....	0.....	
19	29.88	29.82	61.8	69.0	72	61	58.8	84	63.0	72	N	1	NW	9	.....	.....	9 s., 0.....	0.....	
20	29.86	29.83	65.0	68.0	72	62	60.0	75	63.7	79	NW	1	NW	9	.....	.....	10 s., 0.....	0.....	
21	29.85	29.82	63.3	68.0	72	60	59.9	82	64.0	80	NW	1	NW	10	.....	.....	10 s., 0.....	0.....	
22	29.85	29.89	60.4	67.9	71	59	59.4	94	63.0	76	N	1	SW	8	.....	.....	0.....	6 s. cu., sw	
23	29.87	29.83	66.0	71.0	76	65	63.0	85	67.0	81	NW	1	W	5	.....	.....	9 a. s., se	10 a. s., nw	
24	29.82	29.76	66.0	72.0	72	66	64.8	94	66.0	73	SW	1	SW	2	.....	.....	10 a. s., nw	7 ci., nw	
25	29.76	29.74	64.8	64.5	67	63	63.0	91	63.2	93	S	4	S	6	.....	.....	10 s., s.....	10 s., s.....	
26	29.75	29.74	64.0	67.5	71	63	62.0	90	64.0	83	S	1	W	6	T.	.....	10 s., 0	1 s., w.....	
27	29.74	29.79	66.3	69.0	73	65	64.8	92	65.0	81	NW	4	W	6	.....	.....	10 s., nw	9 a. cu., w.....	
28	29.87	29.89	66.6	67.0	71	65	64.1	87	61.5	73	NW	8	NW	13	.....	T.	10 s., nw	1 s., sw	
29	29.88	29.85	65.0	66.3	70	64	61.0	80	61.2	75	W	2	NW	13	.....	.....	10 s., w.....	10 s. cu., w	
30	29.84	29.84	64.5	64.5	67	64	60.6	80	59.7	76	N	3	NW	6	.....	.....	10 s., n	10 s., nw	
Mn.	29.81	29.80	64.2	69.5	72.9	62.9	61.7	87.6	64.2	75.5	NW	2.6	NW	7.8	T.	T.	6.8 s., s.....	3.5 s., w.....	

OCTOBER, 1903.

1	29.85	29.89	59.8	64.0	64	59	59.0	95	55.5	58	NW	5	NW	10	0.01	0.02	10 s. cu., 0.....	8 s. cu., nw.....	
2	29.95	29.97	56.8	64.8	68	56	54.2	84	58.3	68	E	4	NW	8	T.	.04	10 s., e	7 s. cu., nw.....	
3	29.95	29.92	52.0	66.5	69	52	50.5	90	59.5	66	NE	4	NW	10	.....	.....	0.....	0.....	
4	29.91	29.84	55.0	70.0	74	55	53.5	91	62.8	67	N	7	NW	8	.....	.....	0.....	0.....	
5	29.81	29.76	57.8	69.2	75	57	56.2	90	64.7	79	N	5	W	6	.....	.....	0.....	1 s., w.....	
6	29.75	29.74	60.0	69.2	71	58	59.5	97	64.7	79	E	2	SW	6	.....	.....	10 s., 0.....	1 s., w.....	
7	29.75	29.80	62.0	64.8	67	61	59.8	88	60.8	80	SW	2	SW	8	.....	.....	10 s., sw.....	10 s., sw.....	
8	29.86	29.89	62.0	66.0	70	60	60.0	89	62.3	81	SE	4	SW	6	.....	.....	10 s. cu., se	0.....	
9	29.94	29.95	64.0	66.3	72	62	62.5	92	60.8	73	E	8	NW	10	.....	.....	10 s., e	7 ci., sw.....	◑
10	29.97	29.90	63.4	66.0	68	62	59.8	81	62.0	80	N	5	NW	10	.....	.....	9 s. cu., n.....	0.....	
11	29.81	29.75	57.3	70.9	72	56	56.2	93	63.3	66	N	4	NW	4	.....	.....	0.....	0.....	
12	29.79	29.78	60.5	84.1	84	57	55.0	70	56.6	13	SW	2	NW	6	.....	.....	0.....	0.....	
13	29.82	29.77	67.8	63.0	74	62	49.3	21	62.5	97	NE	2	S	3	.....	.....	0.....	D. fog, s.....	
14	29.78	29.80	58.4	65.0	68	58	57.6	95	63.5	92	SE	5	SW	4	.....	.....	8 s., 0	0.....	≡ᵃa.
15	29.85	29.77	60.0	64.8	68	58	58.0	89	63.5	93	NE	3	NW	9	.....	.....	10 s., ne	0.....	
16	29.80	29.76	60.0	65.0	69	57	59.0	94	62.5	87	N	4	NW	10	.....	.....	10 s., n	1 s., 0.....	
17	29.81	29.80	53.7	69.0	74	53	53.4	98	65.0	81	NE	1	SW	8	.....	.....	0.....	0.....	
18	29.88	29.87	56.0	67.3	72	56	55.5	97	64.0	84	N	1	0	0	.....	.....	0.....	0.....	
19	29.93	29.85	58.8	66.0	70	58	58.3	97	62.5	82	N	1	NW	10	.....	.....	D. fog, 0.....	0.....	
20	29.90	29.82	62.4	64.5	68	60	59.9	86	61.0	82	N	4	NW	10	.....	.....	10 s., 0.....	1 s., nw	
21	29.82	29.81	60.0	62.0	67	60	59.0	94	60.2	90	N	4	NW	8	.....	.....	10 s., n	0.....	
22	29.88	29.89	58.4	64.2	67	57	57.8	96	61.7	87	N	3	NW	9	.....	.....	10 s., 0.....	1 s., nw	
23	29.94	29.90	57.0	65.0	68	56	56.6	98	63.1	90	E	1	NW	8	.....	.....	D. fog, 0.....	4 ci., sw.....	
24	29.94	29.87	52.3	72.2	74	51	51.8	97	60.0	48	NE	1	NW	7	.....	.....	8 s., 0.....	0.....	≡ᵃa.
25	29.90	29.90	59.8	70.5	74	59	51.4	56	64.0	70	NW	3	NW	5	.....	.....	0.....	0.....	
26	29.96	29.96	58.3	64.0	68	53	57.8	97	62.0	90	N	4	NW	9	.....	.....	8 s., 0.....	0.....	≡ᵃa.
27	30.02	29.98	54.4	65.0	67	52	54.2	99	62.0	85	NW	1	NW	7	.....	.....	D. fog, nw	1 ci., sw.....	
28	30.00	29.90	57.8	63.0	67	54	57.3	97	60.7	88	NE	3	NW	8	.....	.....	10 s., 0.....	5 ci., nw	
29	29.85	29.79	57.3	62.0	68	54	55.4	89	58.5	81	SE	5	S	5	.....	.....	10 s., se.....	0.....	
30	29.83	29.85	59.0	63.2	67	56	56.5	86	59.8	82	E	4	W	5	.....	.....	10 s., 0	0.....	
31	29.93	29.90	59.8	66.5	68	55	57.5	87	60.5	71	N	3	N	1	.....	.....	10 s., 0.....	10 a. s., nw	
Mn.	29.88	29.85	58.8	66.6	70.1	56.9	56.5	88.2	61.6	77.1	N	3.4	NW	7.0	.01	.06	5.9 s., n.....	1.8 s., nw.....	

SAN DIEGO, CAL.

[φ=32° 43′ N; λ=117° 10′ W; barometer above sea, 87 feet; gravity correction applied, −.03.]

NOVEMBER, 1903.

Day.	Pressure.		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds (amount, kind, direction).		Miscellaneous.
							8 a. m.		8 p. m.		8 a. m.		8 p. m.						
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Max.	Min.	Wet.	R. H.	Wet.	R. H.	Dir.	Vel.	Dir.	Vel.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	
1	29.91	29.87	58.3	68.5	72	57	57.3	94	62.0	70	NW	6	NE	1	.....	.....	7 ci., nw	8 ci., sw	
2	29.90	29.90	54.0	63.8	67	52	53.5	97	60.3	82	E	4	NW	8	.....	.....	8 s., e	0	≡a.
3	29.96	29.95	57.2	62.5	66	55	56.3	95	60.5	89	NE	5	NW	8	.....	.....	10 s., 0	0	
4	30.00	29.96	57.0	64.5	66	55	56.5	97	60.0	77	NE	1	NW	4	.....	.....	10 s., 0	2 ci., nw	
5	29.94	29.87	59.3	62.7	67	58	58.0	92	60.2	87	N	4	NW	8	.....	.....	10 s., 0	3 s., nw	
...	29.84	29.79	57.8	59.8	63	57	57.1	96	57.8	89	NE	1	SW	4	.....	.....	10 s., 0	10 s., sw	
..	29.84	29.86	58.0	62.0	66	57	56.0	88	57.5	76	E	5	W	4	.....	.....	10 s., 0	10 s., s	
...	29.90	29.90	58.2	63.0	67	56	54.2	77	57.8	73	E	4	NW	6	.....	.....	9 ci., sw	8 ci., sw	
9	29.92	29.88	53.0	68.9	68	51	50.0	81	60.0	80	NE	5	NW	5	.....	.....	0	0	
10	29.86	29.85	54.2	61.7	65	54	49.5	72	58.2	81	E	5	SW	4	.....	.....	10 s. cu., sw	2 ci., w	
11	29.93	29.90	52.0	62.2	67	52	50.5	90	59.7	86	E	4	NW	1	.....	.....	0	7 ci., w	
12	29.85	29.84	53.9	62.8	66	52	52.1	89	59.3	82	NE	6	W	1	.....	.....	6 s., s	0	
13	29.89	29.89	56.0	63.5	68	55	53.5	85	59.5	79	NE	6	NW	11	.....	.....	8 s. cu., sw	0	
14	29.99	30.00	59.0	63.5	68	57	56.8	88	56.0	62	NE	5	NW	11	.....	.....	10 s., 0	0	
15	30.04	29.98	54.2	59.2	65	52	51.7	85	53.0	66	NE	1	W	5	.....	T.	10 s., 0	0	
16	29.97	29.89	46.0	61.0	64	45	44.5	89	54.5	65	NE	1	NW	8	.....	.....	0	0	
17	29.89	29.84	55.3	68.5	73	53	44.9	42	52.0	36	NE	4	NW	1	.....	.....	0	2 ci., w	
18	29.85	29.86	55.6	63.0	75	55	41.5	24	60.5	87	NE	3	W	4	.....	.....	0	2 ci., w	
19	29.92	29.94	48.3	60.5	69	48	42.8	63	57.5	84	NE	8	NW	8	.....	.....	0	0	
20	30.04	30.03	51.7	65.3	74	49	48.7	81	55.8	54	N	1	N	6	.....	.....	0	0	
21	30.07	29.98	57.6	65.0	68	56	50.5	60	61.0	80	NE	5	SW	8	.....	.....	0	0	
22	29.94	29.92	54.8	64.8	72	53	53.3	91	61.3	82	NE	1	NW	4	.....	.....	0	0	
23	29.92	29.89	55.8	61.5	68	54	50.7	70	60.0	92	NE	1	NW	4	.....	.....	0	10 a. s., sw	
24	29.88	29.92	56.5	60.0	66	54	54.5	94	57.0	83	NE	1	NW	8	.....	.....	10 s., 0	8 a. s., sw	
25	29.98	29.93	56.1	63.2	66	55	55.6	97	58.7	77	N	8	NW	6	.....	.....	8 s., n	0	≡a.
26	29.95	29.88	53.5	72.0	84	53	52.9	96	58.0	42	N	6	NW	8	.....	.....	0	0	
27	29.91	29.90	64.4	66.0	83	61	47.9	24	60.0	71	NE	8	S	1	.....	.....	0	0	
28	29.91	29.91	60.7	63.8	76	58	45.4	25	59.3	77	NE	9	N	7	.....	.....	0	0	
29	29.90	29.80	55.5	62.0	72	54	46.5	50	60.0	89	N	5	S	1	.....	.....	0	0	
30	29.84	29.91	55.6	60.2	65	50	45.1	42	58.1	88	NE	1	S	1	.....	.....	2 s., 0	0	
Mn.	29.92	29.90	55.6	63.3	69.2	53.9	51.3	75.8	58.5	76.0	NE	4.1	NW	5.2	0	T.	4.6 s., sw	2.4 ci., sw	

DECEMBER, 1903.

1	30.02	29.94	48.0	61.0	66	47	47.0	93	58.0	84	NW	4	W	8	.....	.....	0	0	
2	29.94	29.87	52.1	58.0	60	50	51.7	98	55.0	88	N	3	NW	6	.....	.....	8 s., n	10 a. s., w	≡a.
3	29.83	29.80	50.3	59.3	63	49	49.2	93	55.8	80	NE	4	NW	6	.....	.....	7 a. s., w	0	
4	29.90	29.93	58.4	66.7	75	50	42.4	19	43.2	3	N	4	E	9	.....	.....	0	0	
5	30.03	29.98	58.3	65.0	71	49	37.1	10	44.5	11	E	12	E	6	.....	.....	0	0	
6	30.03	29.95	65.2	63.8	70	54	46.7	18	50.8	38	NE	15	E	4	.....	T.	10 s. cu., e	10 s. cu., se	
7	29.93	29.95	54.0	57.9	70	53	52.0	86	55.4	85	NW	4	S	4	0.32	0.01	10 n., se	10 s., s	
8	29.99	30.01	50.2	59.0	64	50	48.7	90	56.2	84	NE	4	NW	7	.....	.....	2 s., 0	0	
9	30.02	29.95	49.4	58.7	64	49	45.7	75	55.2	80	NE	1	NW	8	.....	.....	0	0	
10	29.92	29.84	46.9	57.5	63	45	40.4	56	55.0	85	NE	6	NW	6	.....	.....	0	0	
11	29.83	29.83	50.0	57.5	60	47	45.0	67	52.0	69	NE	9	S	7	.....	T.	10 s. cu., sw	10 s. cu., s	
12	29.93	29.94	50.2	59.0	64	49	47.9	85	54.5	75	E	5	NW	5	.....	.....	2 s., 0	10 a. s., w	
13	30.01	29.99	52.0	59.0	62	50	49.0	81	55.5	80	0	0	NW	6	.....	.....	10 a. s., sw	1 a. s., s	
14	30.04	30.02	47.7	63.0	67	47	44.8	80	55.5	62	N	2	N	1	.....	.....	0	0	
15	30.08	29.94	53.5	66.5	72	51	40.5	26	52.5	36	NE	3	NW	10	.....	.....	0	0	
16	29.92	29.89	48.6	59.0	66	48	37.1	27	56.5	86	NE	6	SW	1	.....	.....	0	Few ci. s., w	
17	29.87	29.86	44.9	57.0	68	44	37.2	46	54.5	85	NE	5	W	4	.....	.....	0	3 a. cu., w	
18	29.91	29.96	50.5	58.2	62	50	49.0	90	53.7	74	E	4	W	4	.02	.....	5 s., s	1 s., w	
19	30.08	30.04	45.8	65.5	70	46	43.3	82	56.5	56	NE	5	NW	5	.....	.....	0	0	
20	30.03	29.92	52.0	63.0	68	50	41.0	35	48.5	31	NW	4	NW	4	.....	.....	0	5 a. s., s	
21	29.86	29.88	51.9	58.8	64	49	38.4	22	57.7	93	NE	4	SW	2	.....	.....	0	7 ci., sw	
22	29.93	29.96	49.7	59.0	62	48	49.3	97	55.0	78	E	5	SW	1	.....	.....	5 ci., sw	0	
23	30.00	29.95	48.3	56.0	60	46	47.8	96	53.5	85	N	2	NW	4	.....	.....	8 s., n	0	≡a.
24	30.12	30.11	49.0	61.3	66	46	39.0	36	50.8	47	S	1	NW	6	.....	.....	0	3 ci., e	
25	30.15	30.14	52.0	67.9	74	49	38.0	19	48.9	20	N	7	NE	4	.....	.....	0	0	
26	30.12	30.00	50.0	67.8	73	49	43.0	55	48.8	20	N	4	NW	8	.....	.....	0	0	
27	30.03	29.98	54.5	68.0	74	52	40.9	20	50.0	23	NE	4	N	9	.....	.....	0	0	
28	29.95	29.90	54.9	67.0	73	53	39.8	18	46.5	18	NE	4	NW	5	.....	.....	0	1 ci., sw	
29	29.96	29.92	52.3	66.0	71	49	37.9	18	50.0	29	NE	7	NW	9	.....	.....	0	0	
30	29.93	29.94	53.0	65.2	71	51	38.0	16	49.7	29	NE	6	NW	8	.....	.....	0	Few ci., nw	
31	29.96	29.93	50.0	58.0	63	47	48.0	87	53.5	74	NE	8	W	4	.....	.....	2 cu., sw	8 s. cu., w	
Mn.	29.93	29.95	51.2	61.6	66.8	48.9	43.7	56.2	52.7	58.0	NE	4.9	NW	5.5	.34	.01	2.5 s., sw	2.5 a. s., ci., w	

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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_θ.—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. $\Delta\theta$. H. The correction of the free air reduction for the Plateau effect.

(7) e_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 were given in a special table that appeared 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 meteorological 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.

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 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." 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, 1903.

ABILENE, TEX.

[λ=32° 23′ 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	28.230	28.629	27.929	38.2	47.7	54.9	35.9	45.4	79	21	32	34	80	62	.189	.197	1.51	.54	4.5	3.6	4.9
February	28.248	28.651	27.735	35.2	42.7	48.6	32.0	40.3	76	11	33	32	91	69	.200	.186	4.07	2.17	6.1	6.2	7.4
March	28.246	28.696	27.900	44.8	56.7	61.6	43.0	52.3	83	23	41	43	88	63	.273	.297	2.31	1.09	5.9	5.2	3.6
April	28.151	28.667	27.651	54.0	69.9	76.0	52.1	64.0	93	34	45	43	73	41	.321	.297	.49	.32	4.7	4.3	5.1
May	28.097	28.495	27.867	60.8	72.2	78.1	56.8	68.4	91	36	54	57	79	60	.434	.478	1.99	1.21	4.8	3.9	5.7
June	28.166	28.441	27.805	64.7	76.4	81.5	62.2	71.8	101	53	60	60	85	59	.521	.524	3.87	1.39	5.1	5.2	6.3
July	28.160	28.343	27.858	73.2	88.0	92.9	71.5	82.2	100	67	66	62	78	43	.640	.551	1.29	1.28	3.5	3.3	3.8
August	28.165	28.383	28.014	72.8	88.1	92.7	72.2	82.4	101	63	66	60	78	41	.633	.524	1.67	1.59	4.5	3.6	4.6
September	28.214	28.550	27.951	64.7	76.1	82.4	62.7	72.6	93	43	59	57	83	56	.517	.487	8.64	4.10	4.5	3.8	5.1
October	28.265	28.562	27.795	53.7	66.2	74.4	52.3	63.4	85	35	48	51	81	60	.355	.395	.42	.13	3.9	2.5	4.0
November	28.283	28.839	27.845	43.5	57.3	66.2	41.6	53.9	85	18	37	42	78	57	.237	.280	.05	.05	2.4	.9	2.4
December	28.311	28.653	27.896	38.9	51.8	59.9	36.4	48.2	71	25	30	38	71	59	.176	.233	.22	.22	4.0	2.5	4.0
Year	28.211	28.839	27.651	53.7	66.1	72.4	51.7	62.1	101	11	48	48	80	56	.375	.371	26.53	4.10	4.5	3.8	4.7

ALBANY, N. Y.

[λ=42° 39′ N.; φ=73° 45′ W.]

January	29.842	30.524	29.121	21.5	25.4	31.7	16.7	24.2	43	− 4	18	21	85	81	.109	.120	1.83	.48	7.2	6.2	7.1
February	29.930	30.372	29.081	23.9	28.9	34.8	19.1	27.0	63	− 4	20	24	85	81	.120	.134	2.05	.44	7.0	4.1	5.9
March	30.119	30.543	29.498	39.1	44.4	51.6	34.9	43.2	74	22	35	38	84	78	.210	.236	3.55	1.19	7.9	5.4	6.6
April	29.809	30.364	29.249	44.1	44.3	57.9	38.6	48.2	86	23	36	37	73	63	.215	.230	.79	.39	5.0	4.6	4.8
May	30.035	30.428	29.731	56.5	65.3	74.5	49.9	62.2	93	30	45	48	67	55	.316	.348	.15	.07	4.5	3.0	3.2
June	29.845	30.304	29.502	59.6	64.5	70.9	55.4	63.2	86	45	53	56	80	76	.416	.457	6.44	2.17	6.6	6.9	7.6
July	29.809	30.048	29.600	68.1	72.6	81.0	61.9	71.4	95	49	60	63	77	72	.536	.564	3.51	.71	5.5	4.9	5.7
August	29.910	30.359	29.622	60.9	65.7	73.3	56.3	64.8	85	48	55	58	81	77	.435	.489	5.14	1.24	6.8	5.5	6.9
September	30.027	30.351	29.510	58.4	64.8	74.3	53.6	64.0	89	40	53	56	81	73	.417	.458	1.80	1.00	3.1	2.0	3.3
October	29.929	30.298	29.413	48.4	52.9	61.0	44.5	52.8	73	29	44	46	84	76	.303	.323	6.09	4.75	5.9	4.5	5.6
November	29.953	30.683	29.461	33.6	35.5	44.0	29.0	36.5	71	12	28	29	80	77	.164	.170	1.65	.70	6.2	3.5	5.0
December	29.895	30.525	29.130	20.1	23.8	31.2	15.4	23.3	50	− 6	16	19	83	81	.097	.107	1.59	.70	7.1	5.8	6.5
Year	29.925	30.683	29.081	44.5	49.0	57.2	39.6	48.4	95	− 6	39	41	80	74	.278	.305	34.09	4.75	6.1	4.7	5.7

ALPENA, MICH.

[λ=45° 5′ N.; φ=83° 30′ W.]

January	29.209	29.729	28.527	19.4	22.2	27.1	14.6	20.8	43	− 1	16	18	87	81	.095	.102	1.52	.86	8.1	7.8	8.3
February	29.334	29.806	28.564	17.3	22.6	29.0	13.1	21.0	46	− 8	15	18	90	81	.095	.103	2.63	.95	6.5	6.8	7.0
March	29.476	29.904	28.900	32.0	35.5	42.7	28.9	35.8	73	7	29	30	88	80	.163	.171	1.51	.42	6.8	6.2	6.1
April	29.288	29.684	28.601	37.9	42.1	47.9	32.6	40.2	76	19	29	31	71	68	.165	.182	2.00	.61	6.5	6.0	6.2
May	29.433	29.765	28.858	51.0	52.3	61.2	43.8	52.5	84	23	42	44	72	74	.280	.295	2.39	.98	5.2	7.0	5.6
June	29.296	29.744	28.703	56.6	59.2	66.3	48.3	57.3	81	38	48	49	75	71	.350	.360	2.57	1.12	5.8	6.2	5.8
July	29.294	29.582	28.926	63.7	67.8	74.6	57.3	66.0	93	46	57	57	80	70	.473	.479	5.06	2.56	5.8	6.7	5.3
August	29.327	29.742	28.970	59.2	62.3	68.7	52.5	60.6	83	42	54	54	84	74	.423	.418	5.68	1.39	6.6	8.0	6.8
September	29.400	29.685	28.955	54.6	57.8	66.1	48.3	57.2	84	34	50	50	84	76	.371	.379	3.02	.68	6.2	6.5	6.0
October	29.374	29.753	28.765	43.8	48.4	56.8	38.9	47.8	72	26	39	40	84	75	.252	.262	2.73	1.93	4.4	5.6	5.4
November	29.348	29.972	28.540	29.2	33.2	40.2	25.7	33.0	70	10	25	27	83	78	.141	.153	1.36	.51	6.7	6.1	8.1
December	29.251	29.664	28.670	18.2	20.6	25.9	13.3	19.6	36	− 9	15	18	86	86	.091	.100	1.07	.28	8.4	8.1	8.0
Year	29.336	29.972	28.527	40.2	43.7	50.5	34.8	42.6	93	− 9	35	36	82	76	.242	.250	31.54	2.53	6.4	6.8	6.6

AMARILLO, TEX.

[λ=35° 13′ N.; φ=101° 50′ W.]

January	26.219	26.539	25.853	28.3	41.4	49.8	27.3	38.6	74	17	22	21	78	46	.117	.113	.12	.10	2.9	3.2	3.8
February	26.232	26.601	25.800	22.5	32.0	40.0	18.3	29.2	66	− 3	18	22	84	69	.103	.120	2.93	1.12	4.3	3.8	5.4
March	26.255	26.584	25.928	32.2	51.4	56.4	30.3	43.4	81	− 2	29	30	87	47	.172	.171	.26	.10	3.4	3.4	4.3
April	26.182	26.647	25.792	43.4	62.6	69.4	41.6	55.5	85	26	33	32	69	38	.196	.202	.90	.60	3.1	4.0	4.7
May	26.162	26.465	25.885	51.9	69.3	73.6	50.5	62.0	87	35	46	40	83	39	.333	.268	1.79	1.19	3.5	3.3	4.0
June	26.274	26.567	25.997	57.6	71.0	74.7	56.8	65.8	94	46	54	55	88	60	.424	.433	2.83	.94	6.1	6.8	6.0
July	26.255	26.431	25.927	66.4	87.4	91.3	65.1	78.2	98	52	58	53	77	32	.490	.401	3.38	2.68	1.4	2.7	3.6
August	26.262	26.441	26.094	65.3	82.9	88.4	64.4	76.4	96	59	60	56	83	42	.518	.463	4.67	1.91	3.5	4.0	4.0
September	26.269	26.539	26.021	56.7	74.1	79.9	55.0	67.4	95	41	49	47	81	42	.362	.335	.82	.58	2.7	2.7	3.4
October	26.321	26.621	25.877	47.1	61.9	70.8	45.4	58.1	86	31	37	37	70	44	.236	.235	2.58	1.90	3.9	1.9	3.6
November	26.309	26.740	25.866	34.7	49.5	60.7	33.0	46.8	81	11	25	28	67	46	.139	.160	0	0	1.4	1.3	3.0
December	26.326	26.638	25.830	27.6	42.3	53.1	25.2	39.2	71	13	17	18	64	38	.094	.101	T.	T.	1.5	1.1	3.2
Year	26.256	26.740	25.792	44.4	60.5	67.3	42.7	55.0	98	− 3	37	37	78	45	.265	.250	20.28	2.68	3.1	3.2	4.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903.

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.	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	8.8	S.	38	NW.	0	6	2	2	7	19	6	6	14	0	14	6	11	7	6	2	0	0	0	0	7	0	0
February	9.1	NW.	48	W.	1	10	0	3	12	7	5	6	13	0	4	6	18	10	8	2	1	2	3	0	11	1	0
March	7.2	SE.	25	NW.	0	4	6	10	18	12	1	0	11	0	3	15	13	4	4	1	1	4	1	0	2	2	0
April	11.0	SE.	42	W.	1	4	2	2	20	14	4	2	12	0	3	15	12	4	2	0	0	0	0	2	3	3	0
May	10.9	SE.	36	SE.	0	7	1	0	30	8	3	3	10	0	10	13	7	4	2	0	0	1	0	1	0	4	0
June	6.4	SE.	47	NW.	1	10	8	9	17	7	1	2	5	1	9	14	8	5	4	0	0	1	0	0	0	8	0
July	8.2	SE.	28	NE.	0	3	3	2	38	15	0	0	1	0	8	7	15	15	11	0	0	1	0	6	0	6	0
August	9.1	SE.	25	E.	0	6	3	5	28	14	1	1	4	0	17	9	5	2	1	0	0	1	0	21	0	5	0
September	8.7	SE.	33	NW.	0	10	3	3	33	10	1	0	9	0	11	15	5	3	2	0	0	0	0	26	0	4	0
October	7.6	SE.	30	NW.	0	11	1	1	35	7	2	3	9	0	13	5	12	9	8	0	2	0	0	3	0	4	0
November	7.8	SE.	30	N.	0	15	3	1	18	15	4	1	3	0	17	8	6	7	3	0	0	0	0	0	0	2	0
December	9.0	S.	37	NW.	0	10	2	1	12	17	5	1	14	0	22	7	1	1	1	0	1	0	0	0	6	1	0
															14	8	9	1	1	0	0	0	0	0	9	0	0
Year	8.6	SE.	48	W.	3	96	34	39	268	148	33	25	89	1	142	113	110	68	51	5	5	9	4	59	35	36	0

ALBANY, N. Y.

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

January	7.2	S.	27	W.	0	5	2	0	3	24	5	7	16	0	5	8	18	11	9	6	0	0	13	0	29	0	0
February	8.5	S.	39	W.	0	5	0	0	4	22	1	6	18	0	7	9	12	8	7	3	0	0	8	0	24	0	0
March	8.4	S.	27	W.	0	14	2	0	5	17	3	3	18	0	6	11	14	13	10	2	0	2	0	0	10	0	0
April	9.1	NW.	34	SE.	0	10	5	1	7	6	2	10	19	0	14	6	10	9	4	1	0	0	0	2	4	0	0
May	8.2	S.	30	W.	0	9	6	1	12	18	4	3	9	0	20	6	5	3	2	0	0	0	0	2	1	2	0
June	6.6	S.	26	SE.	0	7	6	1	18	21	3	2	7	0	4	3	23	19	14	0	0	1	0	0	0	4	0
July	6.4	S.	26	SE.	0	7	2	0	12	14	5	12	10	0	8	13	10	14	13	0	0	0	0	2	0	8	0
August	5.5	S.	25	S.	0	8	12	3	7	15	3	4	10	0	6	8	17	15	11	0	0	0	0	0	0	4	0
September	6.4	S.	32	SE.	0	6	5	0	8	26	0	4	11	0	19	8	3	4	2	0	0	2	0	0	0	2	0
October	8.2	S.	34	S.	0	8	7	0	5	16	5	8	12	1	11	8	12	13	10	1	0	2	0	0	4	2	0
November	6.5	NW.	25	W.	0	13	1	0	7	12	2	8	17	0	11	10	9	9	3	0	0	2	0	7	15	0	1
December	7.7	S.	27	W.	0	5	5	0	6	21	5	3	17	0	6	10	15	8	7	7	0	2	16	0	29	0	0
Year	7.4	S.	39	W.	0	97	53	6	89	212	38	70	164	1	117	100	148	126	92	20	1	8	44	4	116	22	1

ALPENA, MICH.

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

January	11.2	W.	40	W.	1	5	2	3	4	7	6	24	11	0	2	5	24	7	5	6	0	0	21	0	30	0	0
February	11.1	W.	32	NW.	0	3	3	2	2	3	13	14	16	0	4	11	13	9	5	8	2	0	16	0	27	0	0
March	10.5	SE.	38	S.	0	5	6	6	10	4	9	9	12	1	8	8	15	8	7	2	0	3	2	0	21	2	0
April	12.1	SE.	38	NW.	0	11	11	8	14	2	4	4	6	0	10	4	16	10	8	0	0	0	1	0	14	1	0
May	10.2	SE.	39	NW.	0	4	5	10	24	7	3	5	4	0	10	9	12	11	7	1	0	0	0	0	2	3	0
June	7.9	NW.	31	NW.	0	10	4	12	11	2	4	3	13	1	8	10	12	7	6	0	0	0	0	1	0	1	0
July	9.0	NW.	35	SE.	0	5	1	7	9	3	6	9	22	0	10	11	10	12	10	0	0	0	0	0	0	7	0
August	9.8	SE.	35	NW.	0	5	8	10	11	1	5	5	16	1	6	10	15	15	11	0	0	0	1	0	0	7	0
September	10.1	NW.	39	NW.	0	4	1	4	8	6	14	12	11	0	9	8	13	13	11	0	0	0	0	0	0	6	0
October	10.8	NW.	36	NW.	0	4	2	5	8	4	12	9	18	0	13	5	13	8	5	0	0	1	0	0	0	4	0
November	11.6	W.	38	SE.	0	4	1	3	2	6	15	19	10	0	3	6	21	9	3	7	0	0	0	0	5	3	0
December	11.9	W.	44	NW.	1	2	1	2	1	9	17	18	12	0	2	9	20	15	7	15	0	0	25	0	31	0	0
Year	10.5	W.	44	NW.	2	82	45	72	104	54	108	131	151	3	85	96	184	124	85	39	1	5	75	1	153	27	3

AMARILLO, TEX.

[H=3,676 ft.; h_t=10 ft.; h_r=3 ft.; h_a=49 ft.]

January	13.5	SW.	42	NW.	4	14	4	1	3	10	18	2	10	0	18	12	1	2	1	2	0	0	0	0	26	0	0
February	12.2	SW.	50	W.	1	10	12	2	8	3	13	2	6	0	13	6	9	9	5	8	0	3	8	0	26	1	0
March	13.8	S.	32	NW.	0	11	4	1	13	16	7	3	6	1	16	13	2	4	3	1	1	2	1	0	18	1	0
April	16.9	S.	50	W.	6	7	5	0	8	16	12	5	7	0	12	12	6	8	5	1	2	0	0	0	1	1	0
May	16.3	S.	48	SW.	6	6	8	2	7	20	10	1	8	0	16	14	1	4	3	0	1	0	0	0	0	2	0
June	10.6	SE.	50	NW.	1	4	10	8	15	15	3	1	4	0	4	18	8	12	8	0	0	0	0	0	0	2	0
July	14.0	S.	60	NW.	2	0	4	5	14	26	9	2	2	0	18	13	0	6	5	0	0	0	0	4	0	7	0
August	13.5	S.	37	E.	0	1	4	1	17	24	12	0	3	0	15	16	0	8	7	0	0	0	0	19	0	7	0
September	14.9	S.	40	N.	1	5	2	0	18	24	10	0	1	0	21	8	1	7	5	0	0	0	0	2	0	11	0
October	14.1	S.	42	S.	3	4	3	2	15	11	6	4	17	0	19	8	4	5	4	0	0	0	0	0	1	1	0
November	13.0	SW.	48	N.	1	4	3	3	10	11	9	6	14	0	23	7	0	0	0	0	1	0	0	0	11	0	0
December	12.6	SW.	34	N.	0	12	2	1	8	6	15	12	11	0	20	11	0	0	0	0	1	2	0	1	27	0	0
Year	13.8	S.	60	NW.	25	78	61	26	131	182	124	38	89	1	195	138	32	65	46	12	5	7	10	34	111	32	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—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	27.649	27.958	27.226	31.2	36.9	45.4	27.3	36.4	63	11	26	30	80	76	.150	.175	1.61	.56	5.8	4.0	5.4
February	27.740	28.137	26.758	34.1	43.3	52.6	30.0	41.3	69	5	28	31	78	62	.179	.193	7.02	1.70	5.3	5.1	5.2
March	27.807	28.067	27.358	47.1	53.4	60.7	44.0	52.4	73	25	43	45	86	75	.292	.320	7.06	3.19	7.0	6.3	7.2
April	27.609	28.028	27.101	46.3	55.5	63.2	41.8	52.5	82	26	39	43	77	65	.246	.283	4.38	1.58	6.2	5.6	6.1
May	27.776	27.931	27.610	57.9	66.8	74.2	53.3	63.8	90	39	52	56	81	68	.399	.456	1.14	.34	5.4	5.3	5.2
June	27.650	27.906	27.423	60.0	66.6	74.2	55.1	64.6	85	41	56	58	86	74	.452	.486	5.55	1.03	5.3	5.9	5.4
July	27.749	27.930	27.555	66.5	73.8	83.7	61.6	72.6	90	51	62	64	88	74	.572	.608	5.59	1.64	2.7	4.9	4.5
August	27.725	28.015	27.538	66.3	72.5	82.5	62.6	72.6	89	59	63	65	90	78	.584	.624	3.12	.75	3.1	4.7	4.5
September	27.831	28.061	27.597	57.7	66.3	75.4	53.7	64.6	84	36	54	57	89	72	.442	.479	.82	.38	3.9	2.5	4.7
October	27.776	28.041	27.520	45.3	57.4	66.5	41.8	54.2	81	25	41	46	85	68	.273	.341	1.77	.98	3.2	2.8	4.2
November	27.748	28.148	27.238	35.6	42.7	51.5	31.3	41.4	72	13	32	34	85	72	.202	.221	2.32	1.28	5.0	3.7	5.3
December	27.714	28.010	27.280	26.6	34.4	42.7	23.5	33.1	59	10	21	20	79	56	.117	.111	.80	.42	4.2	3.1	4.4
Year	27.731	28.148	26.758	47.9	55.8	64.4	43.8	54.1	90	5	43	46	84	70	.326	.358	41.18	3.19	4.8	4.5	5.2

ATLANTA, GA.

[λ=33° 45′ N.; φ=84° 23′ W.]

January	28.806	29.157	28.334	36.5	42.4	48.3	34.9	41.6	69	18	31	32	79	69	.185	.199	1.96	.69	6.5	4.9	6.5
February	28.880	29.263	27.988	41.2	48.6	54.6	38.1	46.4	69	12	36	38	80	68	.236	.267	9.66	2.70	6.4	5.1	6.2
March	28.895	29.188	28.514	52.2	58.6	63.3	50.6	57.0	75	32	49	54	90	86	.370	.437	9.07	2.88	6.5	7.3	7.6
April	28.737	29.126	28.287	53.0	61.4	67.2	49.8	58.5	80	36	50	54	89	77	.367	.432	3.33	1.60	4.8	5.0	5.4
May	28.827	28.979	28.602	63.2	70.0	76.5	60.5	68.5	90	44	58	59	83	71	.484	.506	3.59	1.98	5.8	5.9	6.6
June	28.720	28.956	28.511	66.4	73.6	79.5	63.2	71.4	89	46	61	60	84	65	.543	.528	6.65	2.87	5.6	4.3	5.7
July	28.818	28.994	28.666	73.1	79.1	87.2	69.6	78.4	93	64	67	68	82	71	.670	.691	4.29	1.21	4.3	6.0	5.7
August	28.784	29.092	28.593	72.5	79.0	86.5	69.8	78.2	93	63	69	68	88	71	.701	.687	1.91	.77	5.0	3.8	5.7
September	28.874	29.140	28.681	64.8	73.8	80.2	61.9	71.0	91	45	58	58	81	59	.512	.494	2.52	2.01	4.3	2.7	4.5
October	28.863	29.156	28.585	55.0	64.3	71.2	53.1	62.2	84	31	47	46	74	54	.346	.343	.94	.61	3.5	1.6	3.4
November	28.873	29.289	28.412	44.0	49.2	55.4	40.7	48.0	74	18	38	39	77	66	.267	.274	3.08	1.66	5.5	3.9	5.7
December	28.883	29.123	28.490	33.9	41.8	47.9	31.7	39.8	62	16	25	27	68	57	.139	.151	1.66	.46	4.0	2.7	3.8
Year	28.830	29.280	27.988	54.6	61.8	68.2	52.0	60.1	93	12	49	50	81	68	.402	.416	48.66	2.87	5.2	4.4	5.6

ATLANTIC CITY, N. J.

[λ=39° 22′ N.; φ=74° 25′ W.]

January	29.943	30.537	29.293	31.0	33.4	40.8	26.5	33.6	57	10	24	28	75	78	.142	.161	3.93	1.36	4.3	4.9	5.1
February	30.033	30.544	29.110	33.1	36.3	45.1	29.8	36.4	65	4	26	31	75	79	.156	.187	5.22	2.11	5.5	4.4	4.7
March	30.165	30.532	29.491	43.7	45.3	50.7	39.9	45.3	61	27	40	42	87	88	.252	.271	5.71	1.89	4.6	4.3	5.4
April	29.839	30.430	29.281	49.3	50.1	56.4	43.4	49.9	83	26	42	43	77	78	.271	.282	2.49	.85	5.6	5.2	5.3
May	30.087	30.374	29.809	59.6	58.6	65.0	54.1	59.6	90	39	54	54	84	86	.432	.427	.52	.31	3.8	3.3	3.3
June	29.883	30.277	29.501	63.1	62.6	67.5	58.9	63.2	82	51	59	59	86	88	.498	.503	4.38	1.32	6.6	6.6	6.0
July	29.896	30.123	29.571	73.0	71.8	79.4	66.2	72.8	93	55	66	67	80	84	.651	.657	10.14	5.41	3.9	4.8	4.0
August	29.944	30.364	29.667	69.2	70.5	75.5	65.5	70.5	92	59	66	66	89	86	.635	.644	7.02	1.70	5.9	5.5	5.7
September	30.084	30.409	29.451	64.5	66.2	71.4	60.0	65.7	87	44	58	59	82	79	.515	.529	2.22	1.21	4.0	3.0	4.4
October	29.978	30.287	29.479	56.2	57.9	64.6	51.8	58.2	76	34	50	51	79	78	.381	.398	12.13	9.21	5.6	4.7	5.7
November	30.082	30.643	29.580	38.9	43.0	50.2	33.9	42.0	73	16	32	34	76	71	.201	.223	1.86	.98	4.1	2.2	4.6
December	30.002	30.542	29.250	30.1	32.9	39.9	25.0	32.4	52	12	24	25	78	72	.139	.143	5.49	1.37	5.6	4.1	4.9
Year	29.990	30.643	29.110	51.0	52.4	58.7	46.2	52.5	93	4	45	47	81	81	.356	.369	61.11	9.21	5.0	4.4	4.9

AUGUSTA, GA.

[λ=33° 28′ N.; φ=81° 54′ W.]

January	29.876	30.260	29.415	39.8	47.2	52.7	36.8	44.8	71	22	33	36	79	68	.207	.230	3.41	1.44	7.1	5.2	5.6
February	29.949	30.386	29.062	43.8	54.0	60.4	40.6	50.5	76	20	39	40	84	62	.289	.280	7.46	3.17	4.9	5.2	5.2
March	29.949	30.277	29.521	56.5	63.4	69.8	54.2	62.0	80	39	52	52	85	69	.406	.419	5.95	2.41	7.9	5.7	6.5
April	29.767	30.180	29.269	54.4	65.0	72.6	50.2	61.4	84	39	47	47	78	54	.337	.336	3.83	1.74	3.9	3.2	3.5
May	29.864	30.051	29.630	66.9	73.3	79.9	63.3	71.6	95	57	60	60	80	66	.528	.528	3.69	1.52	5.8	4.6	5.5
June	29.731	29.996	29.505	71.3	76.4	84.1	66.0	75.0	92	52	64	64	80	68	.614	.609	5.35	1.07	4.8	4.1	4.2
July	29.818	30.019	29.673	76.5	82.2	90.3	71.8	81.0	97	65	69	68	79	65	.714	.702	2.02	.77	3.2	3.8	3.5
August	29.780	30.117	29.563	75.9	81.8	90.1	72.3	81.2	98	67	71	71	86	70	.768	.753	8.98	3.42	4.8	4.5	4.0
September	29.900	30.200	29.670	68.1	74.5	82.9	64.7	73.8	94	54	62	63	82	68	.582	.594	4.48	1.32	3.5	2.1	3.3
October	29.891	30.251	29.593	54.0	65.2	74.1	51.4	62.8	87	32	50	54	87	69	.387	.440	1.62	1.62	3.3	2.0	3.4
November	29.930	30.382	29.530	46.0	53.0	60.5	43.3	51.9	78	22	41	42	81	68	.290	.312	3.20	2.41	3.7	3.1	5.2
December	29.954	30.240	29.505	34.8	45.1	53.5	31.5	42.5	68	21	30	31	80	58	.170	.181	1.64	1.15	3.8	2.0	3.5
Year	29.867	30.386	29.062	57.3	65.1	72.6	53.8	63.2	98	20	52	52	82	65	.439	.449	51.83	3.42	4.7	3.8	4.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

ASHEVILLE, N. C.

[H=2,255 ft.; h_t=53 ft.; h_r=46 ft.; h_a=75 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	10.4	N.	44	N.	1	18	0	0	11	12	0	3	16	2	11	8	12	10	6	1	0	3	3	0	20	0	0
February	10.0	N.	40	SE.	1	15	0	3	12	9	3	2	12	0	10	11	7	11	10	1	0	3	1	0	18	0	0
March	8.1	SE.	36	E.	0	11	1	7	19	8	0	2	11	3	8	12	16	15	13	0	0	4	0	0	4	2	0
April	10.1	N.	40	NW.	1	19	0	3	12	6	4	1	14	1	8	10	12	12	10	0	0	0	0	0	3	6	0
May	7.2	SE.	30	N.	0	5	0	13	22	9	3	0	7	3	7	17	7	10	9	0	0	0	0	0	0	10	0
June	6.4	NW.	34	E.	0	8	0	6	7	12	2	2	23	0	7	15	8	17	13	0	1	7	0	0	0	11	0
July	4.0	NW.	31	SE.	0	5	0	7	8	11	6	2	19	4	9	20	2	11	11	0	1	10	0	0	0	14	0
August	4.8	NW.	29	NW.	0	7	1	4	14	6	2	5	20	3	11	16	4	14	11	0	0	19	0	0	0	8	0
September	6.4	SE.	28	NW	0	1	0	10	19	9	1	0	19	1	13	9	8	4	3	0	0	9	0	0	0	4	0
October	7.7	NW.	34	NW.	0	2	0	4	14	6	3	2	24	7	15	12	4	5	5	0	0	8	0	0	5	0	0
November	8.3	NW.	28	NW.	0	3	0	2	15	6	1	1	29	3	8	15	7	6	4	1	0	3	5	0	17	1	0
December	8.9	NW.	36	NW.	0	8	0	0	13	0	2	0	36	3	15	9	7	5	4	2	0	0	2	0	27	0	0
Year	7.7	NW.	44	N.	3	102	2	59	166	94	27	20	230	30	117	154	94	120	99	5	2	66	11	0	94	56	0

ATLANTA, GA.

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

January	14.0	NW.	48	NW.	3	2	1	5	12	4	3	6	29	0	7	8	16	12	6	0	0	7	1	0	10	0	0
February	14.8	NW.	60	NW.	4	6	1	7	8	10	4	1	19	0	9	5	14	12	11	0	0	1	1	0	7	2	0
March	11.5	SE.	37	NE.	0	5	4	9	22	8	1	1	12	0	5	3	23	15	13	0	1	2	0	0	1	5	0
April	15.6	NW.	50	NW.	2	4	0	2	6	14	10	2	22	0	9	10	11	11	6	0	0	0	0	0	0	4	0
May	12.5	SE.	48	W.	1	1	3	12	22	6	3	4	11	0	5	11	15	11	10	0	0	1	0	0	0	8	0
June	9.8	NW.	66	N.	1	10	3	6	5	3	6	11	16	0	8	12	10	13	12	0	2	1	0	0	0	13	0
July	8.9	NW.	45	N.	1	8	0	8	3	7	9	11	16	0	5	21	5	10	9	0	0	1	0	0	3	17	0
August	8.9	NW.	40	NW.	1	8	1	10	7	7	3	11	15	0	6	18	7	10	6	0	0	1	0	0	5	14	0
September	12.0	SE.	44	E.	1	6	3	19	17	2	1	3	9	0	11	13	6	4	3	0	0	0	0	0	2	2	0
October	11.6	NW.	38	NW.	0	6	2	15	9	9	1	1	19	0	16	11	4	5	3	0	0	1	0	0	0	1	0
November	12.6	NW.	42	NW.	1	6	3	9	9	4	6	2	20	1	7	12	11	11	9	0	0	4	0	0	8	3	0
December	13.9	NW.	46	NW.	4	2	3	4	8	2	4	10	29	0	17	4	10	6	5	1	0	1	0	0	14	0	0
Year	12.2	NW.	60	NW.	19	64	24	106	128	76	51	63	217	1	105	128	132	120	93	1	3	20	2	10	41	69	0

ATLANTIC CITY, N. J.

[H=52 ft.; h_t=37 ft.; h_r=33 ft.; h_a=48 ft.]

January	9.2	NW.	34	SW.	0	4	3	4	4	3	8	16	20	0	9	13	9	11	9	4	0	5	4	0	21	0	0
February	10.0	NW.	34	SW.	0	5	2	2	3	5	11	9	19	0	9	11	8	10	10	1	0	4	3	0	14	0	0
March	8.9	SW.	31	SE.	0	2	11	7	6	5	16	6	9	0	11	7	13	11	8	0	0	11	0	0	2	2	0
April	10.2	SW.	34	NE.	0	8	9	6	2	5	15	5	10	0	10	9	11	8	6	1	0	0	0	0	2	0	0
May	7.7	SW.	23	NE.	0	7	10	14	3	6	14	3	4	1	16	11	4	5	2	0	0	3	0	0	0	0	0
June	7.9	S.	24	N.	0	1	7	13	4	14	8	6	7	0	5	13	12	14	14	0	0	4	0	0	0	2	0
July	7.8	SW.	34	S.	0	9	2	1	2	9	15	10	14	0	12	15	4	12	10	0	0	0	0	1	0	9	0
August	7.6	NE.	30	SE.	0	7	12	9	10	11	4	3	6	0	7	13	11	12	9	0	0	2	0	1	0	3	0
September	8.2	SW.	60	SE.	1	9	9	3	5	7	13	4	10	0	13	13	4	9	7	0	0	2	0	0	0	2	0
October	10.4	SW.	42	NE.	1	9	6	6	3	4	11	12	11	0	8	15	8	10	9	0	0	0	0	0	0	1	0
November	7.7	NW.	20	N.	0	13	1	1	0	10	12	22	0	12	10	8	9	7	1	0	1	3	0	0	14	1	0
December	9.0	NW.	33	NW.	0	6	3	1	1	1	12	18	20	0	11	12	8	8	7	2	0	0	5	0	25	0	0
Year	8.7	SW.	60	SE.	2	80	75	67	44	70	137	104	152	1	123	142	100	119	98	9	0	32	15	2	78	20	0

AUGUSTA, GA.

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

January	6.9	W.	30	NW.	0	2	13	1	6	5	5	12	16	2	12	8	11	12	9	0	0	3	0	0	10	0	0
February	7.3	NW.	46	W.	1	4	7	7	5	1	5	13	9	5	10	7	11	9	9	0	0	3	0	0	5	1	0
March	6.1	NE.	37	NE.	0	2	18	12	11	3	4	3	7	2	6	12	13	15	9	0	0	0	0	0	0	2	0
April	7.6	NW.	30	NW.	0	8	1	4	12	7	8	10	10	0	15	11	4	10	7	0	0	0	0	0	0	3	0
May	6.7	SE.	24	E.	0	2	19	11	14	6	4	2	4	0	9	10	12	14	10	0	0	0	0	0	4	0	0
June	5.4	SE.	30	N.	0	5	5	3	11	9	11	5	10	1	14	12	4	12	11	0	0	0	0	0	2	0	0
July	5.5	SE.	36	SW.	0	2	4	4	7	17	12	1	14	1	16	11	4	11	7	0	0	0	0	0	0	0	0
August	4.4	SE.	32	NE.	0	3	4	4	13	15	10	6	7	0	10	19	2	13	10	0	0	0	0	0	16	0	0
September	6.6	NE.	48	NE.	1	3	22	14	6	2	1	1	7	2	19	8	3	7	6	0	0	1	0	0	15	0	0
October	4.8	NW.	30	NE.	0	8	4	3	8	5	1	2	24	7	21	4	6	4	2	0	0	0	0	0	0	0	0
November	5.7	NE.	24	NE.	0	4	16	7	8	0	3	8	12	2	11	9	10	7	4	0	0	4	0	0	5	1	0
December	5.9	NW.	36	W.	0	3	5	5	5	5	13	9	14	3	18	5	8	5	5	0	0	0	0	0	19	1	0
Year	6.1	NW.	48	NE.	2	46	118	75	108	75	77	72	134	25	161	116	88	119	89	0	1	10	0	39	39	39	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

BAKER CITY, OREG.

[λ=44° 50′ N.; φ=117° 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	26.489	26.902	25.698	23.2	28.9	32.4	20.6	26.5	50	6	21	25	89	84	.112	.133	1.15	.35	6.0	8.1	7.8
February	26.558	26.825	26.078	16.1	27.1	30.8	13.2	22.0	44	−2	12	18	81	65	.076	.096	.31	.13	4.1	5.2	4.4
March	26.852	26.688	26.027	30.6	40.8	42.9	28.8	36.4	59	16	24	27	77	58	.132	.146	.86	.26	7.0	6.4	6.9
April	26.404	26.663	26.152	33.9	50.0	52.4	32.5	42.4	75	21	24	24	67	37	.129	.126	.09	.05	6.4	6.5	6.6
May	26.410	26.691	26.136	40.1	59.7	68.1	39.2	51.2	88	29	29	29	63	34	.160	.161	.49	.44	6.0	6.0	5.5
June	26.428	26.767	26.152	52.4	71.6	76.4	51.6	64.0	86	40	43	43	72	40	.287	.295	1.29	.38	5.0	6.8	5.9
July	26.448	26.624	26.229	50.4	73.2	76.2	49.5	62.8	95	38	36	38	60	30	.217	.228	.21	.10	3.5	3.8	3.6
August	26.411	26.615	26.158	51.4	77.1	80.0	50.4	65.2	96	42	37	39	60	29	.222	.244	.87	.82	1.6	2.4	2.4
September	26.468	26.738	25.950	43.5	63.3	67.4	41.2	54.3	88	28	34	36	70	40	.195	.212	1.06	.42	3.8	5.3	4.9
October	26.558	26.823	26.128	39.9	56.4	61.5	37.7	49.6	72	24	30	34	67	44	.164	.198	1.14	.34	4.0	5.0	4.5
November	26.475	26.777	25.790	34.9	40.1	45.4	31.8	38.6	65	16	26	28	73	65	.146	.157	2.42	.78	7.7	7.8	8.2
December	26.658	26.960	26.240	23.1	30.1	34.4	20.6	27.5	50	3	20	24	87	78	.109	.129	.68	.17	3.8	6.0	5.6
Year	26.472	26.960	25.698	36.6	51.5	55.3	34.8	45.0	96	−2	28	30	72	50	.162	.176	10.57	.82	4.8	5.8	5.5

BALTIMORE, MD.

[λ=39° 18′ N.; φ=76° 37′ W.]

January	29.866	30.424	29.211	30.5	34.2	39.9	27.2	33.6	57	12	22	25	71	68	.130	.141	3.81	1.59	6.1	5.0	5.7
February	29.947	30.494	29.167	32.9	38.5	45.3	30.2	37.8	71	6	24	26	70	60	.147	.152	5.43	1.74	5.2	4.1	5.5
March	30.068	30.427	29.464	45.6	51.4	57.3	42.0	49.6	72	29	40	41	81	70	.256	.272	4.40	1.44	5.4	5.3	6.0
April	29.761	30.313	29.208	51.2	56.7	63.2	45.7	54.4	91	27	37	38	61	52	.229	.235	3.29	.99	5.0	5.1	5.6
May	29.994	30.343	29.762	61.9	67.6	74.7	55.8	65.2	92	37	51	54	70	63	.401	.484	3.33	1.76	4.8	4.9	5.2
June	29.792	30.177	29.498	65.0	68.9	74.3	60.1	67.2	88	53	58	60	78	73	.484	.521	5.01	1.68	7.3	7.2	7.0
July	29.818	30.035	29.489	75.9	76.9	86.4	68.0	77.2	96	59	63	65	66	68	.593	.623	7.65	3.99	3.6	5.3	4.3
August	29.855	30.272	29.614	69.7	73.1	78.8	65.0	71.9	97	58	63	65	80	77	.576	.630	5.88	1.88	7.5	6.0	6.8
September	30.009	30.305	29.616	64.8	68.4	77.5	58.9	68.2	89	43	56	58	74	71	.478	.514	1.00	.57	4.2	2.3	4.6
October	29.917	30.207	29.481	55.2	59.0	66.6	50.3	58.4	83	35	45	46	69	64	.327	.343	3.54	1.13	6.1	4.4	6.1
November	29.964	30.574	29.519	39.2	44.3	52.2	34.1	43.2	75	18	29	29	65	55	.176	.176	.73	.34	5.1	2.7	5.7
December	29.927	30.457	29.262	29.5	33.7	40.3	25.8	33.0	52	11	19	21	62	58	.107	.114	2.19	1.19	4.6	4.0	5.2
Year	29.910	30.574	29.167	51.8	56.1	63.0	46.9	55.0	97	5	42	44	71	65	.325	.346	46.26	3.99	5.4	4.7	5.6

BINGHAMTON, N. Y.[a]

[λ=42° 8′ N.; φ=75° 55′ W.]

January	28.981	29.528	28.367	22.4	.....	31.9	16.7	24.3	48	0	19	.....	87	.....	.112	.....	2.41	.93	7.7	.....	7.2
February	29.071	29.520	28.362	24.9	.....	35.1	19.6	27.4	61	−4	21	.....	84	.....	.122	.....	2.24	.64	7.9	.....	6.3
March	29.258	29.601	28.710	39.3	.....	51.4	34.6	43.0	74	21	34	.....	80	.....	.204	.....	3.84	.97	7.3	.....	6.7
April	28.984	29.423	28.636	40.3	.....	55.7	35.1	45.4	84	21	32	.....	74	.....	.189	.....	1.57	.40	4.7	.....	5.4
May	29.221	29.514	28.990	53.2	.....	71.5	45.2	58.4	88	23	43	.....	69	.....	.293	.....	.42	.15	3.0	.....	3.4
June	29.008	29.434	28.702	56.4	.....	70.6	51.4	61.0	84	41	52	.....	84	.....	.387	.....	5.79	2.45	6.1	.....	7.2
July	29.015	29.278	28.807	65.7	.....	78.3	57.4	67.8	92	41	57	.....	74	.....	.479	.....	2.67	.89	4.4	.....	5.5
August	29.076	29.537	28.861	58.8	.....	72.4	54.1	63.2	88	41	54	.....	87	.....	.432	.....	6.85	2.53	6.6	.....	6.7
September	29.207	29.515	28.683	55.6	.....	72.0	50.3	61.2	87	33	51	.....	86	.....	.396	.....	1.21	.87	3.6	.....	4.3
October	29.102	29.394	28.791	46.8	.....	59.3	42.4	50.8	73	25	42	.....	85	.....	.287	.....	5.74	1.67	6.7	.....	6.9
November	29.105	29.752	28.632	30.3	.....	42.3	26.1	34.2	67	7	26	.....	85	.....	.152	.....	2.26	1.43	5.9	.....	6.1
December	29.022	29.539	28.509	20.9	.....	30.6	14.6	22.6	46	−12	18	.....	86	.....	.101	.....	2.12	.91	8.3	.....	6.9
Year	29.087	29.752	28.362	42.9	.....	55.9	37.3	46.6	92	−12	37	.....	82	.....	.263	.....	37.12	2.53	6.0	.....	6.0

BIRMINGHAM, ALA.[a]

[λ=33° 32′ N.; φ=86° 50′ W.]

January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
September	29.337	29.549	29.132	66.0	.....	83.2	62.9	73.0	95	46	58	.....	76	.....	.501	.....	.97	.64	2.3	.....	3.0
October	29.355	29.629	29.107	56.2	.....	78.9	53.6	63.8	89	32	48	.....	74	.....	.365	.....	2.63	1.84	2.4	.....	3.0
November	29.375	29.775	29.136	45.0	.....	59.3	41.4	50.4	78	18	38	.....	78	.....	.278	.....	.42	.23	4.9	.....	4.5
December	29.407	29.642	29.043	34.9	.....	51.6	32.7	42.2	66	18	26	.....	70	.....	.147	.....	1.92	.80	4.2	.....	3.5
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[a] 8 a. m. observations.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

BAKER CITY, OREG.

[H=3,471 ft.; h_t=53 ft.; h_r=40 ft.; h_a=59 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	5.2	SE.	36	SW.	0	1	0	0	29	10	12	0	8	2	5	2	24	15	8	13	0	0	12	0	29	0	0
February	6.6	SE.	20	NW.	0	0	0	0	26	8	5	0	17	0	14	6	8	5	3	5	0	0	15	0	27	0	0
March	6.7	NW.	30	S.	0	2	1	0	18	10	11	0	20	0	7	6	18	12	8	7	0	0	4	0	21	0	0
April	7.1	SE.	28	NW.	0	6	8	2	17	4	11	0	11	1	8	6	16	5	1	4	0	0	0	0	15	0	0
May	7.0	SE.	30	NW.	0	10	6	0	17	8	5	0	16	0	10	11	10	3	2	0	0	0	0	0	4	0	0
June	6.3	NW.	33	SW.	0	4	3	0	12	10	5	1	25	0	7	11	12	11	10	0	0	0	0	0	0	7	0
July	5.6	NW.	29	NW.	0	3	4	1	9	12	6	0	26	1	16	12	3	4	3	0	0	0	0	3	0	1	0
August	5.8	S.	22	SE.	0	5	1	0	10	20	5	0	19	2	23	5	3	2	2	0	0	0	0	2	0	0	0
September	5.0	NW.	21	NE.	0	3	10	0	9	15	3	0	19	1	13	6	11	8	6	0	0	0	0	0	2	1	0
October	4.9	SE.	22	NW.	0	2	2	0	25	10	5	2	16	0	14	6	11	6	6	0	0	0	0	0	4	0	1
November	6.0	SE.	36	SW.	0	0	2	2	33	7	9	1	6	0	4	4	22	12	8	5	0	0	0	0	14	0	0
December	5.1	SE.	18	SE.	0	0	3	0	33	6	14	1	5	0	10	10	11	11	8	9	0	4	8	0	29	0	0
Year	5.8	SE.	36	SW.	0	36	40	5	238	120	91	5	188	7	131	85	149	94	65	43	0	4	39	5	145	9	1

BALTIMORE, MD.

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

January	8.6	W.	42	W.	1	2	6	4	2	5	8	18	17	0	10	10	11	12	9	3	0	5	6	0	19	0	0
February	9.0	W.	45	W.	1	4	6	8	6	3	8	14	7	0	10	6	12	10	9	2	0	4	3	0	14	1	0
March	6.6	SE.	32	W.	0	8	5	9	12	10	3	8	6	1	11	7	13	13	8	0	0	8	0	0	1	1	0
April	9.0	NW.	31	NW.	0	10	10	5	3	5	6	8	13	0	13	3	14	9	6	0	0	1	0	1	2	2	0
May	7.2	SE.	33	W.	0	7	13	7	7	12	8	1	7	0	12	9	10	7	5	0	0	1	0	1	0	6	0
June	7.1	SE.	26	N.	0	4	12	10	9	6	6	7	6	0	3	11	16	14	11	0	0	1	0	0	0	8	0
July	6.7	W.	46	W.	2	11	3	0	3	5	9	16	15	0	13	12	6	13	9	0	0	0	0	10	0	7	0
August	6.4	NE.	24	SE.	0	5	16	8	10	4	7	4	8	0	4	11	16	14	11	0	0	0	0	2	0	3	0
September	6.3	NW.	34	W.	0	12	6	5	4	9	7	3	14	0	13	10	7	5	4	0	0	0	0	0	0	3	0
October	8.5	NW.	42	N.	1	12	3	5	5	5	7	9	16	0	9	7	15	8	6	0	0	0	0	0	0	3	0
November	6.4	NW.	29	NW.	0	11	2	2	1	3	8	9	24	0	7	15	8	7	5	1	0	2	2	0	0	0	1
December	8.4	NW.	41	NW.	2	4	2	4	2	2	13	14	21	0	8	13	10	9	5	6	0	0	1	0	24	0	1
Year	7.5	NW.	46	W.	7	90	84	67	64	69	90	111	154	1	113	114	138	121	88	12	2	20	12	14	72	31	2

BINGHAMTON, N. Y.

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

January	7.7	W.	31	W.	0	1	3	3	3	3	0	16	1	1	4	9	18	15	8	11	0	0	15	0	27	0	0
February	8.6	W.	36	W.	0	3	1	3	3	2	3	8	4	1	7	10	11	14	9	7	0	0	11	0	23	0	0
March	5.9	NE.	24	NW.	0	9	4	3	6	1	0	6	0	2	6	8	17	13	12	4	0	2	0	0	11	0	0
April	7.2	N.	30	SW.	0	11	5	2	3	0	1	3	4	1	10	11	9	10	7	1	0	2	0	0	9	1	0
May	6.1	S.	30	S.	0	6	6	0	4	6	2	1	5	1	18	8	5	6	4	0	0	0	0	0	3	2	0
June	5.0	E.	24	W.	0	3	7	5	8	9	2	3	2	0	2	10	18	14	12	0	0	5	0	0	0	5	0
July	5.0	W.	24	W.	0	2	4	2	1	2	4	5	8	3	8	14	9	14	10	0	0	7	0	2	0	7	0
August	4.8	E.	32	NW.	0	1	8	5	5	3	0	6	2	1	3	18	10	15	12	0	0	10	0	0	0	5	0
September	4.8	E.	24	SW.	0	1	7	6	8	2	3	4	4	0	18	5	7	3	2	0	0	9	0	0	0	2	0
October	6.1	NW.	27	SE.	0	6	6	3	4	1	2	3	5	1	5	7	19	14	11	3	0	3	0	0	6	1	0
November	5.8	W.	25	W.	0	0	3	6	0	0	2	7	9	1	9	7	14	11	5	6	0	1	9	0	20	0	0
December	8.1	W.	38	S.	0	0	6	2	2	2	5	10	4	0	3	15	13	16	6	16	0	0	18	0	30	0	0
Year	6.3	W.	38	S.	0	43	62	40	42	22	24	72	48	12	93	122	150	145	98	48	0	39	52	2	129	23	0

BIRMINGHAM, ALA.

[H=700 ft.; h_t=136 ft.; h_r=128 ft.; h_a=144 ft.]

January																											
February																											
March																											
April																											
May																											
June																											
July																											
August																											
September	8.3	NE.	32	SE.	0	2	14	4	5	0	2	2	1	0	19	9	2	5	4	0	0	0	0	4	0	1	0
October	7.6	NE.	31	N.	0	6	7	4	5	2	4	1	2	0	20	8	3	4	4	0	0	0	0	0	1	1	0
November	8.1	N.	26	N.	0	6	10	4	1	3	4	1	1	0	14	6	10	5	3	0	0	0	0	0	7	1	0
December	8.0	SW.	44	SE.	1	7	6	3	3	0	6	4	2	0	19	4	8	7	7	0	0	0	0	0	14	0	0
Year																											

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

BISMARCK, N. DAK.

[λ=46° 47′ N.; φ=100° 38′ 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	28.168	28.535	27.618	9.1	15.6	25.1	3.3	14.2	50	−29	2	3	71	53	.051	.051	.82	.60	5.7	4.6	4.9
February	28.348	28.798	27.796	−4.3	7.6	14.3	−9.1	2.6	38	−41	−10	−4	73	56	.030	.040	.09	.04	2.3	2.2	2.7
March	28.305	28.701	27.763	18.4	29.4	36.0	14.3	25.2	67	− 4	12	16	72	55	.077	.097	.12	.06	7.7	3.6	5.1
April	28.179	28.646	27.716	34.3	51.6	56.8	31.2	44.0	77	16	28	33	76	51	.158	.190	.61	.24	5.0	4.3	3.9
May	28.131	28.631	27.596	46.3	63.3	66.7	42.4	54.6	86	24	39	41	76	46	.251	.267	3.20	1.48	5.0	4.3	4.0
June	28.256	28.693	27.886	55.2	72.4	75.7	51.8	63.8	92	38	49	50	81	48	.356	.370	1.44	.39	4.6	4.2	4.1
July	28.184	28.447	27.798	58.9	77.9	80.2	55.3	67.8	99	40	53	53	80	43	.410	.410	2.18	1.17	4.6	2.8	3.3
August	28.216	28.442	27.879	54.8	72.6	75.6	53.9	64.7	95	41	50	56	86	59	.371	.465	5.59	2.30	4.8	5.2	4.4
September	28.192	28.683	27.534	43.9	57.2	65.2	42.4	52.8	80	28	39	44	84	63	.249	.298	2.36	1.50	5.9	5.7	5.3
October	28.226	28.684	27.504	37.4	52.4	62.3	35.8	49.0	80	23	30	33	76	49	.172	.189	.27	.18	3.2	3.3	3.9
November	28.289	28.706	27.649	20.1	29.0	36.9	16.1	26.5	73	− 8	15	15	77	56	.092	.094	.23	.12	5.6	4.0	4.4
December	28.240	28.701	27.623	12.7	14.7	24.0	3.9	14.0	42	−21	6	1	71	52	.061	.044	1.06	.36	6.6	4.5	5.6
Year	28.228	28.798	27.504	32.2	45.3	51.4	28.4	39.9	99	−41	26	28	77	53	.190	.210	17.96	2.30	5.1	4.1	4.3

BLOCK ISLAND, R. I.

[λ=41° 10′ N.; φ=71° 36′ W.]

January	29.907	30.596	29.146	30.5	31.8	37.9	24.9	31.4	51	5	24	24	76	72	.142	.141	4.42	1.25	5.4	5.6	5.1
February	29.989	30.493	29.071	31.4	33.2	38.9	27.2	33.0	55	7	28	25	71	73	.134	.152	4.61	1.55	5.0	3.3	4.9
March	30.194	30.625	29.392	41.2	42.0	47.7	36.8	42.2	56	22	37	38	85	87	.226	.238	8.03	2.19	4.8	4.2	5.6
April	29.861	30.473	29.429	45.6	45.7	52.9	40.7	46.8	72	28	38	38	75	77	.231	.240	5.61	2.72	4.5	4.6	4.8
May	30.120	30.497	29.784	55.1	54.5	62.5	48.4	55.4	81	38	48	48	78	80	.340	.341	.86	.64	3.8	3.1	3.7
June	29.984	30.385	29.467	57.6	57.1	62.9	53.7	58.3	75	46	54	54	90	91	.429	.424	4.82	1.78	6.4	5.9	6.9
July	29.887	30.162	29.514	67.6	67.0	75.2	61.7	68.4	86	55	60	61	79	82	.535	.544	1.90	.49	2.9	4.6	3.6
August	29.987	30.390	29.697	64.0	63.8	70.4	59.3	64.8	78	53	59	60	86	88	.511	.520	4.33	1.50	6.0	5.6	5.5
September	30.110	30.398	29.647	62.4	62.0	69.2	56.8	63.0	79	47	56	56	79	81	.461	.462	1.15	.57	3.2	2.8	3.7
October	29.990	30.350	29.483	55.0	55.3	60.5	50.9	55.7	72	35	48	48	77	77	.352	.361	2.66	.92	5.4	4.5	4.9
November	30.001	30.691	29.533	41.7	42.6	48.0	36.0	42.0	67	22	34	34	74	71	.214	.217	2.77	1.13	4.3	3.4	4.3
December	29.969	30.546	29.245	30.7	32.5	39.0	25.8	32.4	54	8	24	25	73	72	.136	.142	2.45	.80	5.5	2.9	5.2
Year	29.996	30.691	29.071	48.6	49.0	55.4	43.5	49.4	86	5	42	43	79	79	.309	.315	43.61	2.72	4.8	4.2	4.8

BOISE, IDAHO.

[λ=43° 37′ N.; φ=116° 8′ W.]

January	27.285	27.690	26.551	29.5	32.8	37.1	27.3	32.2	57	17	26	28	88	84	.143	.155	2.52	1.36	6.5	7.7	8.6
February	27.333	27.625	26.835	20.7	31.0	34.4	17.9	26.2	46	4	17	22	84	66	.095	.116	.49	.28	4.6	4.8	4.4
March	27.107	27.464	26.795	37.5	48.8	51.9	34.5	43.2	68	18	28	29	71	50	.158	.166	.83	.22	6.2	7.3	6.5
April	27.126	27.428	26.837	39.5	56.0	60.4	37.6	49.0	79	24	29	27	66	36	.160	.151	.69	.31	5.4	6.0	5.6
May	27.103	27.422	26.748	45.6	67.2	70.5	44.2	57.4	94	34	33	30	63	28	.188	.172	.53	.23	4.3	4.5	4.5
June	27.104	27.446	26.782	59.3	79.9	84.8	57.0	70.6	92	48	45	43	62	30	.308	.285	.43	.22	3.5	5.9	5.0
July	27.119	27.304	26.840	56.4	81.9	85.0	55.0	70.0	99	44	40	39	57	23	.253	.239	.07	.07	2.5	2.6	2.9
August	27.083	27.308	26.864	57.8	86.2	88.4	56.2	72.3	104	48	39	40	51	22	.239	.249	.13	.12	1.9	1.4	1.7
September	27.168	27.489	26.697	47.8	70.1	73.7	45.7	59.7	95	36	36	37	64	38	.210	.228	.54	.40	2.8	3.6	3.4
October	27.291	27.544	26.847	43.7	60.8	65.9	41.1	53.5	78	29	35	37	71	43	.204	.224	1.06	.51	3.4	3.9	3.7
November	27.253	27.551	26.658	38.2	44.6	52.1	34.0	43.0	72	20	28	33	73	66	.163	.190	1.52	.36	6.5	7.1	6.7
December	27.438	27.779	26.982	27.5	34.4	39.4	24.9	32.2	54	14	24	28	87	76	.130	.152	.74	.20	3.9	5.1	4.6
Year	27.201	27.779	26.551	42.0	57.8	61.9	39.6	50.8	104	4	32	33	70	46	.188	.194	9.55	1.36	4.3	5.0	4.8

BOSTON, MASS.

[λ=42° 21′ N.; φ=71° 4′ W.]

January	29.762	30.496	29.027	26.6	29.7	35.9	21.3	28.6	50	− 1	18	21	70	69	.114	.122	3.43	1.14	4.2	5.2	5.4
February	29.837	30.326	28.903	28.8	32.7	38.5	24.4	31.4	62	3	20	23	68	67	.116	.135	3.90	1.46	5.5	3.9	5.3
March	30.082	30.552	29.344	41.5	44.4	52.5	36.4	44.4	76	23	36	38	83	78	.223	.235	5.95	1.51	6.1	5.0	6.0
April	29.753	30.364	29.302	46.3	48.5	55.6	40.1	47.8	83	26	34	36	65	64	.210	.222	4.43	2.17	4.7	4.5	4.6
May	30.005	30.417	29.654	57.1	59.8	67.5	49.5	58.5	88	34	45	47	65	64	.310	.330	.32	.11	3.2	3.1	3.6
June	29.832	30.270	29.548	59.1	60.7	66.2	53.4	59.8	85	48	52	53	80	78	.402	.407	7.19	2.56	6.8	6.1	7.6
July	29.747	30.046	29.452	69.8	71.6	79.6	63.2	71.4	93	55	59	60	69	69	.505	.533	2.99	1.00	5.3	5.0	5.2
August	29.875	30.267	29.522	63.8	65.6	71.5	58.5	65.0	86	52	56	58	77	77	.456	.480	3.33	1.08	5.3	5.9	5.5
September	29.981	30.291	29.533	61.7	65.1	72.8	56.0	64.4	91	42	53	55	74	71	.425	.460	2.43	.98	4.3	2.2	3.8
October	29.881	30.244	29.276	51.8	53.8	60.9	46.9	53.9	76	31	44	44	76	71	.313	.312	3.95	1.25	5.6	4.1	5.0
November	29.865	30.591	29.407	36.9	41.0	47.0	33.0	40.0	74	15	28	28	69	61	.163	.166	1.48	.81	5.3	3.6	4.7
December	29.818	30.386	29.102	26.2	29.6	36.6	21.3	29.0	55	2	19	20	72	66	.114	.121	2.57	.75	4.4	3.2	4.8
Year	29.870	30.591	28.903	47.5	50.2	57.0	42.0	49.5	93	− 1	39	40	72	70	.279	.294	41.97	2.56	5 0	4.3	5.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

BISMARCK, N. DAK.

[H=1,674 ft.; h_t=16 ft.; h_r=2 ft.; h_a=29 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	10.5	NW.	63	NW.	3	10	3	8	10	2	0	5	23	1	15	8	8	6	2	6	0	0	19	0	31	0	0
February	7.4	NW.	45	N.	2	11	2	2	4	2	2	2	29	2	22	4	2	4	1	4	0	0	22	0	28	0	0
March	11.1	N.	35	N.	0	21	5	5	11	9	0	3	8	0	12	9	10	4	2	4	0	0	14	0	29	0	0
April	11.7	NW.	44	SE.	1	17	4	9	9	7	0	1	13	0	19	4	7	7	5	2	0	0	0	0	15	2	0
May	11.6	NW.	52	SE.	5	10	4	11	8	8	6	5	10	0	16	11	4	6	6	0	0	0	0	0	2	4	0
June	8.9	S.	33	N.	0	10	5	11	11	8	2	2	10	1	15	11	4	8	7	0	0	0	0	1	0	5	0
July	10.2	NW.	38	NW.	0	13	5	10	10	5	4	4	11	0	20	8	3	6	4	0	1	0	0	4	0	6	0
August	9.4	SE.	38	SE.	0	12	4	13	14	6	2	3	8	0	16	10	5	10	9	0	0	0	0	2	0	5	1
September	9.6	N.	48	N.	1	16	8	7	7	1	5	2	14	0	14	5	11	7	6	1	0	0	0	0	5	2	0
October	10.3	NW.	53	NW.	4	13	2	5	12	3	5	1	19	2	15	12	4	4	3	0	0	0	0	0	12	0	1
November	10.3	NW.	35	NW.	0	10	2	4	12	6	5	0	19	2	13	14	3	3	2	3	0	0	14	0	28	0	1
December	11.8	NW.	49	N.	1	18	0	3	5	3	1	3	29	0	10	9	12	10	7	10	0	0	24	0	31	0	0
Year	10.2	NW.	63	NW.	17	161	44	88	113	60	32	31	193	8	187	105	73	75	54	30	1	0	93	7	181	24	3

BLOCK ISLAND, R. I.

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

January	20.5	W.	56	W.	13	4	1	4	2	3	16	15	17	0	13	8	10	10	10	4	0	5	8	0	22	0	0
February	21.8	NW.	60	NE.	14	2	3	0	5	6	11	13	16	0	13	5	10	10	10	3	0	2	4	0	20	0	0
March	16.2	SW.	45	NE.	5	6	8	8	7	7	17	6	3	0	11	5	15	13	11	0	0	8	0	0	3	0	0
April	18.8	SW.	60	NE.	8	7	9	6	4	8	10	6	10	0	14	8	8	10	8	0	0	1	0	0	3	0	0
May	12.7	SW.	49	NW.	1	5	9	8	15	6	13	3	3	0	16	12	3	6	5	0	0	5	0	0	0	1	0
June	14.3	SE.	72	E.	4	7	9	8	14	8	9	4	1	0	4	9	17	15	10	0	0	7	0	0	0	2	0
July	13.5	SW.	42	SE.	2	6	0	2	3	4	23	15	9	0	15	13	3	10	8	0	0	3	0	0	0	4	1
August	13.1	SW.	54	E.	4	8	6	10	4	5	16	5	8	0	10	10	11	14	12	0	0	2	0	0	0	3	1
September	13.7	SW.	36	NE.	0	8	5	2	5	8	19	0	13	0	12	18	0	4	4	0	0	6	0	0	0	2	0
October	22.0	SW.	62	NE.	7	12	8	7	3	8	10	7	6	1	12	10	9	12	8	0	0	0	0	0	0	1	0
November	18.1	NW.	44	NW.	8	10	7	1	0	1	10	11	20	0	16	5	9	11	8	4	0	0	3	0	14	0	1
December	22.1	W.	55	NW.	12	7	6	1	0	5	13	17	13	0	11	9	11	12	9	4	0	0	6	0	22	1	0
Year	17.2	SW.	72	E.	78	82	71	57	62	69	167	102	119	1	147	112	106	127	103	15	0	39	21	0	84	14	3

BOISE, IDAHO.

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

January	4.0	NW.	26	E.	0	5	3	5	13	3	2	15	16	0	2	6	23	13	9	7	0	8	10	0	25	0	0
February	3.7	W.	19	E.	0	4	1	1	14	10	4	14	8	0	12	10	6	5	4	5	0	0	12	0	28	0	0
March	6.1	SE.	26	S.	0	3	0	10	21	1	7	10	10	0	8	8	15	10	8	4	2	0	0	0	14	2	0
April	5.6	NW.	24	SW.	0	4	2	6	14	5	1	11	17	0	10	8	12	6	6	2	0	0	0	0	8	0	0
May	5.5	NW.	24	SE.	0	1	3	4	13	3	5	15	18	0	13	12	6	5	4	0	0	0	1	0	0	0	0
June	4.8	W.	31	SE.	0	3	3	5	13	0	6	15	15	0	10	14	6	7	6	0	0	0	0	0	0	0	0
July	4.8	NW.	26	SW.	0	2	2	3	10	9	9	8	19	0	20	8	3	1	1	0	0	0	0	0	0	0	0
August	3.1	NW.	13	W.	0	3	3	3	5	4	3	17	22	2	27	2	2	2	1	0	0	0	0	0	0	0	0
September	8.5	NW.	21	W.	0	9	1	2	11	5	0	14	17	1	15	11	4	2	2	0	1	0	0	6	0	7	0
October	3.1	SE.	25	SW.	0	3	2	3	20	4	2	13	14	1	18	6	7	7	4	0	1	0	0	17	0	2	0
November	4.8	SE.	33	SW.	0	5	3	6	19	6	3	5	13	0	7	8	15	13	8	7	0	0	0	0	1	1	0
December	2.8	NW.	21	E.	0	3	1	2	12	9	8	11	15	1	15	4	12	9	7	4	0	1	0	0	11	0	0
Year	4.3	NW.	33	SW.	0	45	24	50	165	59	50	148	184	5	157	97	111	80	60	29	4	12	27	34	115	14	1

BOSTON, MASS.

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

January	12.5	W.	48	E.	1	4	1	2	5	3	14	24	9	0	14	4	13	10	7	4	0	3	8	0	23	1	0
February	13.7	W.	46	NE.	4	3	1	3	2	2	10	25	10	0	11	6	11	11	9	8	0	0	5	0	20	0	0
March	10.7	SW.	34	W.	0	10	10	7	4	5	12	9	5	0	11	4	16	14	11	1	0	2	0	0	5	0	0
April	12.5	NW.	40	NE.	1	7	10	7	4	5	7	9	11	0	15	6	9	9	9	0	0	0	0	0	3	0	0
May	9.7	SW.	30	NW.	0	8	8	5	10	4	16	8	3	0	18	8	5	6	4	0	1	0	0	0	0	2	0
June	9.7	E.	41	E.	1	6	14	9	7	8	10	5	1	0	6	2	22	14	12	0	0	2	0	0	0	0	0
July	10.1	W.	36	NE.	0	2	4	3	3	4	9	24	13	0	10	12	9	12	9	0	0	1	0	0	3	0	0
August	8.6	W.	30	NE.	0	7	7	8	4	8	5	11	12	0	11	10	10	11	10	0	0	1	0	0	1	0	0
September	9.6	SW.	42	S.	1	5	2	1	8	5	18	12	14	0	15	7	8	5	4	0	0	1	0	0	0	0	0
October	11.8	SW.	35	NE.	0	9	6	6	3	8	9	11	9	1	11	10	10	11	11	0	0	0	0	0	3	1	1
November	9.9	W.	33	NW.	0	8	4	1	0	3	4	29	11	0	15	3	12	8	6	4	0	0	5	0	15	0	0
December	12.8	W.	46	SE.	2	8	3	0	1	2	21	22	5	0	16	3	12	12	9	6	0	0	10	0	26	0	0
Year	11.0	W.	48	E.	10	77	70	52	46	57	135	189	103	1	153	75	137	123	101	18	1	9	28	4	95	14	1

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—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	29.061	29.609	28.316	24.7	27.2	31.9	20.4	26.2	52	2	20	22	79	77	.114	.124	4.23	.84	8.8	7.8	8.7
February	29.173	29.613	28.339	25.7	27.0	32.6	21.4	27.0	55	− 3	20	22	77	80	.118	.125	2.90	.63	8.0	5.7	7.3
March	29.386	29.643	28.902	38.6	41.9	47.7	35.2	41.4	74	19	35	37	86	84	.212	.234	3.32	.71	7.9	6.1	7.5
April	29.091	29.573	28.615	42.4	44.9	51.6	37.1	44.4	72	21	35	37	77	75	.213	.225	4.48	1.94	6.1	4.5	5.8
May	29.288	29.597	28.968	56.8	62.0	68.7	52.1	60.4	81	30	47	50	71	66	.337	.375	1.69	1.11	4.6	3.0	4.6
June	29.102	29.492	28.784	60.2	63.3	68.4	56.3	62.4	82	49	54	56	80	78	.419	.448	3.95	1.21	6.6	6.2	6.6
July	29.125	29.421	28.781	66.9	70.2	74.6	63.1	68.8	84	49	59	60	78	71	.519	.527	4.07	.95	6.1	5.8	6.2
August	29.152	29.584	28.925	63.8	67.9	72.4	59.9	66.2	80	53	57	56	79	68	.473	.461	5.29	2.35	7.1	6.9	7.1
September	29.279	29.580	28.813	61.1	65.4	71.3	56.7	64.0	89	43	53	55	75	71	.421	.460	.81	.17	4.2	4.6	5.1
October	29.215	29.506	28.787	50.9	54.7	58.9	47.6	53.2	79	31	44	46	77	73	.302	.328	2.15	1.17	7.7	4.5	7.0
November	29.207	29.835	28.604	34.8	37.9	42.8	32.4	37.6	63	14	28	28	74	68	.166	.168	1.36	.75	7.4	5.2	7.9
December	29.116	29.584	28.442	23.6	26.2	31.1	19.7	25.4	52	3	17	20	75	76	.097	.112	3.70	.66	9.6	7.8	9.1
Year	29.178	29.835	28.316	45.8	49.0	54.3	41.8	48.1	89	− 3	39	41	77	74	.283	.299	37.95	2.35	7.0	5.7	6.9

CAIRO, ILL.

[λ = 37° 0′ N.; φ = 89° 10′ W.]

January	29.680	30.101	29.207	32.4	38.6	43.7	29.6	36.6	70	10	28	31	83	73	.168	.183	2.35	1.17	6.4	5.0	5.6
February	29.758	30.296	29.017	33.7	39.2	44.9	30.1	37.5	66	− 1	30	32	85	76	.186	.205	4.19	1.64	5.9	5.1	5.9
March	29.771	30.096	29.454	47.5	55.0	58.8	45.1	52.0	75	23	42	44	82	69	.289	.313	4.28	1.48	7.3	6.2	6.7
April	29.571	29.955	29.075	53.6	59.9	66.5	49.7	58.1	79	37	45	46	74	62	.315	.326	1.85	.54	6.1	7.1	6.4
May	29.623	30.045	29.397	63.4	71.1	76.5	60.6	68.6	86	39	57	62	80	74	.491	.582	3.52	.67	6.5	5.3	6.4
June	29.575	29.829	29.328	65.0	73.7	77.8	61.8	69.8	88	50	59	63	82	72	.507	.595	2.37	.85	5.4	4.8	5.4
July	29.628	29.827	29.420	74.6	81.5	87.3	71.5	79.4	95	66	69	72	82	74	.708	.792	4.89	1.34	4.3	4.4	5.0
August	29.612	29.904	29.434	71.4	79.6	85.7	69.2	77.4	93	57	67	70	86	74	.672	.754	.81	.39	4.6	3.3	4.4
September	29.720	29.949	29.513	63.4	73.8	81.2	61.0	71.1	91	48	56	61	78	65	.472	.554	.75	.35	3.4	3.4	3.5
October	29.738	30.140	29.296	52.2	61.9	69.6	50.4	60.0	86	35	48	50	85	66	.361	.386	1.98	.89	4.0	2.7	4.3
November	29.774	30.270	29.234	39.2	46.7	53.0	36.0	44.5	75	17	33	35	78	63	.216	.227	2.07	1.52	6.1	5.4	5.5
December	29.778	30.205	29.274	28.8	37.3	41.9	26.2	34.0	57	9	23	27	78	66	.128	.148	3.85	1.44	4.4	4.3	4.4
Year	29.685	30.296	29.017	52.1	59.9	65.6	49.3	57.4	95	− 1	46	49	81	70	.376	.422	32.91	1.64	5.4	4.8	5.3

CAPE HENRY, VA.[a]

[λ = 36° 56′ N.; φ = 76° 0′ W.]

January	30.007	30.468	29.479	37.2	.....	47.6	33.7	40.6	66	20	30	....	76	....	.184	.....	1.93	.51	5.9	.....	6.3
February	30.106	30.593	29.442	41.7	.....	51.6	37.0	44.3	76	17	34	....	73	....	.220	.....	2.46	.73	4.9	.....	5.5
March	30.178	30.514	29.644	49.3	.....	58.7	45.0	51.8	77	36	45	....	84	....	.311	.....	4.65	1.39	6.0	.....	6.7
April	29.890	30.460	29.387	54.4	.....	64.2	49.5	56.8	90	34	46	....	74	....	.314	.....	2.74	.64	5.7	.....	6.0
May	30.100	30.403	29.952	63.3	.....	70.7	56.0	64.4	90	48	57	....	80	....	.476	.....	1.70	.77	5.4	.....	5.5
June	29.902	30.252	29.643	67.8	.....	73.8	62.5	68.6	85	57	62	....	82	....	.560	.....	4.44	1.90	6.0	.....	6.8
July	29.962	30.144	29.776	77.6	.....	85.5	70.5	78.0	96	65	68	....	74	....	.692	.....	3.76	1.47	2.8	.....	3.2
August	29.962	30.347	29.739	75.9	.....	82.0	71.8	76.8	98	67	70	....	81	....	.722	.....	4.34	1.10	5.4	.....	4.9
September	30.118	30.392	29.737	.....	70.6	76.3	65.7	71.0	90	52	....	64	....	80	.....	.610	.76	.26	.....	2.6	4.3
October	30.021	30.312	29.461	.....	60.1	67.1	53.5	60.3	82	36	....	56	....	56	.....	.472	5.04	2.05	.....	3.8	4.6
November	30.086	30.634	29.637	.....	47.1	52.9	40.8	46.8	76	25	....	44	....	55	.....	.307	2.61	2.33	.....	3.3	5.7
December	30.072	30.460	29.461	.....	37.9	44.6	31.6	38.1	62	16	....	33	....	81	.....	.191	2.07	1.00	.....	3.5	4.6
Year	30.083	30.634	29.387	.....	.....	64.6	51.7	58.1	98	16	.....	.....	.....	.....	.....	.....	36.50	2.33	.....	.....	5.3

CARSON CITY, NEV.

[λ = 39° 10′ N.; φ = 119° 46′ W.]

January	25.332	25.669	24.729	26.3	41.5	47.5	21.5	34.5	60	− 3	19	30	73	64	.112	.164	2.17	1.17	2.8	5.4	4.2
February	25.323	25.589	24.759	13.7	29.3	34.8	9.3	22.0	51	−12	10	23	83	76	.076	.125	1.04	.43	3.6	3.2	3.2
March	25.168	25.456	24.913	31.9	47.0	50.9	29.8	40.4	65	15	24	28	74	50	.132	.154	1.56	1.34	5.2	5.0	5.3
April	25.222	25.482	24.945	33.3	52.5	56.0	30.8	43.4	72	16	23	30	65	45	.128	.171	.50	.47	2.0	3.9	2.8
May	25.231	25.423	24.942	40.0	63.9	67.8	38.7	53.2	86	28	30	35	67	36	.166	.206	.04	.04	2.2	3.9	3.2
June	25.269	25.515	25.015	48.2	73.9	77.4	47.3	62.4	88	35	34	40	58	30	.198	.246	T.	T.	2.2	3.9	2.8
July	25.287	25.396	24.969	48.5	76.5	79.8	47.3	63.6	89	35	30	38	48	26	.163	.232	.00	.00	0.6	1.6	0.8
August	25.273	25.426	25.056	50.8	79.2	83.0	49.0	66.0	92	49	31	40	48	26	.176	.250	T.	T.	0.5	0.8	0.8
September	25.291	25.510	25.036	45.9	71.9	76.6	41.6	59.1	89	27	33	39	62	32	.189	.238	T.	T.	0.8	2.1	1.4
October	25.384	25.573	25.125	37.9	64.7	69.5	35.2	52.4	80	23	28	34	67	34	.154	.202	.03	.02	2.6	3.2	3.3
November	25.328	25.545	25.014	36.0	51.1	56.6	31.6	44.1	70	15	29	35	75	56	.163	.207	.61	.60	3.5	5.2	4.8
December	25.443	25.686	25.077	22.6	41.9	47.4	18.0	32.7	67	8	16	28	78	60	.094	.158	.08	.10	1.6	2.7	2.4
Year	25.296	25.686	24.729	36.3	57.7	62.3	33.3	47.8	92	−12	26	33	66	45	.146	.196	6.23	1.34	2.3	3.4	2.9

[a] 8 a. m. observations January to August, inclusive; 8 p. m. observations September to December, inclusive.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

BUFFALO, N. Y.

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

Month.	Wind. By self-register. 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	18.4	W.	64	W.	12	2	0	6	2	7	14	28	3	0	2	3	26	27	18	23	0	3	15	0	27	1	0
February	20.4	SW.	72	SW.	11	3	5	3	3	4	21	16	1	0	4	5	19	21	12	15	0	2	15	0	21	0	0
March	13.6	SW.	56	W.	6	4	5	8	4	5	25	10	1	0	2	13	16	17	13	3	0	5	0	0	7	0	0
April	14.2	SW.	52	W.	3	9	8	11	2	5	18	3	4	0	8	9	13	15	10	1	0	1	1	0	4	1	0
May	12.0	SW.	53	SW.	5	0	12	15	2	10	15	5	3	0	11	16	4	7	4	0	0	0	0	0	2	2	0
June	10.4	SW.	32	S.	0	2	7	11	2	6	17	9	5	1	5	15	10	12	12	0	0	2	0	0	0	2	0
July	12.4	W.	41	W.	1	6	4	6	0	4	15	18	8	1	4	20	7	17	12	0	0	0	0	0	0	10	0
August	11.4	SW.	58	W.	2	7	7	17	1	5	14	5	6	0	2	16	13	9	8	0	0	1	0	0	0	3	1
September	12.1	SW.	60	W.	3	3	4	4	2	15	11	13	8	0	8	16	6	10	7	0	0	0	0	0	0	1	0
October	15.9	W.	45	W.	7	5	6	4	1	8	15	14	9	0	3	11	17	12	4	1	0	0	0	0	2	2	2
November	16.1	W.	62	W.	9	5	2	3	8	4	13	19	6	0	3	7	20	10	6	4	0	2	8	0	13	1	0
December	21.0	W.	65	SW.	17	0	2	6	3	7	16	22	6	0	0	4	27	28	17	26	0	0	14	0	30	0	0
Year	14.8	W.	72	SW.	76	46	62	94	30	80	194	162	60	2	52	135	178	185	123	73	0	16	53	0	106	23	3

CAIRO, ILL.

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

January	9.9	S.	35	NW.	0	3	8	1	7	14	10	7	12	0	10	7	14	12	6	3	0	2	3	0	18	0	0
February	11.6	NW.	53	SW.	1	8	9	2	8	8	6	4	11	0	9	6	13	13	9	1	0	0	4	0	14	0	0
March	8.3	NE.	29	W.	0	10	13	6	11	10	4	1	7	0	6	8	17	11	8	0	0	4	0	0	3	4	0
April	11.5	NW.	39	SW.	0	5	0	3	10	16	4	5	17	0	6	12	12	12	10	0	0	0	0	0	0	7	0
May	8.4	S.	38	SW.	0	2	11	6	17	19	4	2	1	0	5	14	12	15	13	0	1	0	0	0	0	11	0
June	6.6	NW.	28	S.	0	9	6	4	6	7	11	5	12	0	9	10	11	8	6	0	0	0	0	0	0	4	0
July	6.6	SW.	42	W.	1	9	5	2	5	15	17	3	6	0	9	18	4	11	9	0	0	0	0	10	0	12	0
August	6.6	SW.	60	N.	1	10	7	4	3	12	13	4	9	0	10	19	2	11	4	0	0	1	0	9	0	14	0
September	6.6	S.	28	N.	0	9	11	2	11	17	4	1	4	1	15	11	4	6	3	0	0	0	0	6	0	4	0
October	7.6	N.	32	S.	0	12	11	2	10	8	8	3	8	0	12	14	5	5	5	0	0	2	0	0	0	2	0
November	9.0	NW.	38	NW.	0	10	10	3	8	11	5	1	12	0	7	14	9	5	5	1	0	0	2	0	12	3	0
December	9.0	S.	46	NW.	1	8	6	0	5	14	10	9	10	0	13	10	8	8	7	2	0	0	4	0	24	1	0
Year	8.5	S.	60	N.	4	95	97	35	101	151	96	45	109	1	111	143	111	117	85	7	1	9	13	25	71	62	0

CAPE HENRY, VA.

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

January	14.2	SW.	42	NW.	2	4	4	2	2	1	9	5	4	0	7	10	14	12	8	0	0	0	1	0	10	0	0
February	14.8	S.	78	NW.	4	3	1	1	4	6	6	3	4	0	10	5	13	8	7	0	0	0	1	0	6	0	0
March	13.2	NE.	54	NE.	2	3	12	1	4	3	5	2	1	0	5	10	16	12	9	0	0	0	0	0	0	6	0
April	15.9	SW.	55	NW.	5	3	4	1	0	3	8	4	7	0	8	8	14	14	10	0	0	0	0	0	0	4	0
May	13.6	NE.	60	N.	3	3	9	4	2	1	9	2	1	0	10	8	13	9	7	0	0	0	0	0	0	5	0
June	12.7	NE.	36	NW.	0	2	8	2	4	4	4	3	3	0	6	9	15	14	11	0	0	0	0	0	0	10	0
July	11.5	SW.	44	N.	1	3	2	1	0	5	13	3	4	0	19	8	4	9	6	0	0	0	0	10	0	7	0
August	11.3	E.	42	NW.	1	4	4	7	4	0	7	4	1	0	9	15	7	12	11	0	0	0	0	4	0	7	1
September	15.1	NE.	54	NW.	4	4	9	3	7	5	2	0	0	0	16	2	12	6	5	0	0	0	0	1	0	2	0
October	18.0	N.	74	NE.	10	8	3	0	3	8	3	1	5	0	13	8	10	9	8	0	0	0	0	0	0	1	1
November	14.8	NW.	48	NW.	2	6	0	2	1	6	1	3	11	0	9	9	12	7	4	3	0	2	0	0	6	1	0
December	14.7	NW.	48	NW.	1	5	3	1	2	4	4	5	7	0	14	10	7	7	5	1	0	2	0	0	14	0	0
Year	14.2	SW.	74	NE.	35	48	59	25	33	46	71	35	48	0	126	102	137	119	91	4	0	4	2	15	36	45	2

CARSON CITY, NEV.

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

January	6.6	S.	63	SW.	5	1	3	6	10	8	20	6	8	0	15	5	11	6	4	3	0	0	1	0	25	0	0
February	4.6	S.	48	SW.	1	8	2	3	4	17	13	4	5	0	17	7	4	5	5	4	0	0	11	0	27	0	0
March	8.2	SW.	37	SW.	0	6	5	2	4	9	21	9	6	0	10	10	11	5	5	2	0	0	0	0	17	0	0
April	7.2	W.	34	SW.	0	5	1	4	2	4	19	19	6	0	19	8	3	3	1	1	0	0	0	0	18	0	0
May	7.2	W.	42	W.	2	14	1	1	3	6	6	22	9	0	19	8	4	1	1	0	1	0	0	0	6	0	0
June	6.6	NW.	30	NE.	0	4	2	0	2	14	11	14	13	0	20	7	3	0	0	0	0	0	0	0	0	1	0
July	6.9	W.	40	SW.	1	2	2	2	2	10	13	22	9	0	29	2	0	0	0	0	0	0	0	0	0	0	0
August	6.9	W.	30	SW.	0	1	1	2	2	2	15	35	4	0	28	1	2	0	0	0	0	0	0	2	0	0	0
September	5.6	W.	33	SW.	0	9	5	2	1	7	10	17	7	2	24	4	2	0	0	0	0	0	0	0	2	0	0
October	5.0	SW.	36	S.	0	2	10	7	6	11	6	14	6	0	16	11	4	2	0	0	0	0	0	0	14	0	0
November	9.7	SW.	64	W.	6	5	1	6	4	10	16	10	8	0	12	6	12	6	5	0	0	0	0	0	17	0	0
December	4.6	SE.	40	SW.	1	4	9	7	7	10	8	6	6	5	21	8	4	1	1	1	0	0	0	0	28	0	0
Year	6.6	SW.	64	W.	16	61	42	42	47	108	158	178	87	7	220	75	69	29	22	11	1	0	12	2	154	1	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

CHARLESTON, S. C.

[λ = 32° 47′ N.; φ = 79° 56′ 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	30.019	30.412	29.495	44.5	48.9	65.6	41.4	48.5	74	28	40	43	84	82	.268	.297	5.17	1.43	5.7	5.8	6.5
February	30.114	30.522	29.225	49.0	53.7	60.7	46.8	53.8	73	24	44	46	82	76	.315	.332	2.07	.57	6.6	6.0	6.1
March	30.105	30.418	29.679	59.5	62.3	68.3	57.0	62.6	78	46	55	55	85	80	.445	.456	3.44	1.16	6.7	6.3	6.1
April	29.926	30.330	29.403	58.9	63.6	70.9	55.3	63.1	82	41	51	50	75	64	.392	.383	.96	.35	3.8	4.3	4.3
May	30.018	30.222	29.749	68.7	70.5	76.9	65.6	71.2	94	53	62	62	81	77	.573	.572	4.85	1.46	6.5	5.4	5.7
June	29.895	30.164	29.664	75.0	76.3	83.2	70.4	76.8	91	60	67	68	77	77	.675	.697	4.64	.88	5.3	7.0	5.5
July	29.986	30.163	29.824	78.2	80.4	87.3	74.9	81.1	95	70	71	72	79	77	.764	.795	3.23	1.89	5.2	4.1	4.5
August	29.944	30.285	29.738	78.1	81.0	88.7	75.3	82.0	98	70	72	75	83	82	.795	.863	10.83	2.91	4.9	6.1	5.2
September	30.050	30.322	29.793	72.1	75.1	80.8	69.6	75.2	87	61	65	67	79	76	.629	.675	2.36	.96	5.3	4.1	5.2
October	30.028	30.374	29.603	60.8	65.7	73.0	58.1	65.6	83	40	53	58	76	76	.433	.504	2.30	1.86	4.3	3.7	4.5
November	30.069	30.490	29.675	50.1	55.1	62.8	47.9	55.4	79	26	43	46	77	78	.320	.357	1.20	.42	4.2	4.6	4.9
December	30.107	30.381	29.569	49.2	46.6	54.3	37.2	45.8	68	27	33	36	74	66	.196	.216	1.81	.63	3.0	3.1	3.7
Year	30.022	30.522	29.225	61.3	64.9	71.9	58.3	65.1	98	24	55	56	79	76	.484	.512	42.86	2.91	5.1	5.0	5.2

CHARLOTTE, N. C.

[λ = 35° 13′ N.; φ = 80° 51′ W.]

January	29.192	29.575	28.667	35.6	41.9	47.1	32.5	39.8	66	18	29	31	77	66	.174	.186	3.10	1.27	5.6	5.4	6.1
February	29.283	29.720	28.394	39.7	49.6	55.4	37.2	46.3	69	17	33	36	76	62	.219	.246	6.02	1.70	5.2	4.1	5.6
March	29.323	29.642	28.884	51.8	59.2	65.6	49.3	57.4	77	31	47	48	85	69	.346	.350	5.77	1.74	7.7	6.3	6.6
April	29.104	29.543	28.572	53.3	61.3	68.3	49.3	58.8	83	32	45	46	71	59	.308	.319	3.28	1.78	5.6	5.4	5.7
May	29.261	29.497	29.070	64.2	72.1	79.4	60.2	69.8	95	51	57	56	77	59	.474	.461	.53	.15	6.0	5.6	5.4
June	29.112	29.428	28.858	67.7	72.8	80.3	63.3	71.8	90	49	61	61	81	70	.553	.555	5.35	1.73	5.4	6.2	5.0
July	29.192	29.384	29.008	73.9	81.4	89.8	69.6	79.7	96	61	67	65	80	60	.670	.627	1.89	1.05	3.6	4.7	3.9
August	29.173	29.532	28.990	73.0	79.0	88.0	69.6	78.8	96	64	68	68	87	69	.699	.673	4.55	1.54	5.1	5.8	4.5
September	29.317	29.614	29.024	64.5	71.8	79.8	61.0	70.4	90	49	58	59	81	65	.509	.521	3.29	3.20	3.9	1.8	3.8
October	29.265	29.617	28.913	53.3	63.1	70.6	51.1	60.8	84	34	47	48	79	60	.346	.368	2.53	1.04	4.5	3.3	4.0
November	29.284	29.770	28.832	41.8	49.3	56.4	38.9	47.6	76	18	35	34	76	56	.238	.234	1.43	.98	6.2	4.4	5.5
December	29.271	29.639	28.780	32.2	40.5	47.2	30.0	38.6	58	18	23	24	68	51	.130	.132	1.75	.63	4.1	2.0	3.7
Year	29.231	29.770	28.394	54.2	61.8	69.0	51.0	60.0	96	17	48	48	78	62	.389	.389	39.49	3.20	5.2	4.6	5.0

CHATTANOOGA, TENN.

[λ = 35° 4′ N.; φ = 85° 14′ W.]

January	29.271	29.655	28.796	35.2	42.2	47.1	32.1	39.6	73	16	28	30	76	64	.170	.183	2.16	.62	7.2	5.5	6.1
February	29.332	29.815	28.671	38.1	47.1	53.9	34.5	44.2	71	6	31	36	76	67	.198	.241	8.86	2.09	6.2	4.8	5.9
March	29.350	29.657	28.977	51.6	59.3	63.4	49.8	56.6	75	31	46	48	83	69	.339	.361	6.22	2.15	7.8	7.1	7.3
April	29.175	29.581	28.721	51.7	62.3	67.9	47.8	57.8	82	34	43	42	72	51	.286	.283	3.51	1.82	5.2	4.4	5.0
May	29.265	29.491	29.062	62.5	71.9	78.5	58.2	68.4	90	41	55	54	77	56	.446	.437	5.83	3.70	5.9	5.5	5.8
June	29.156	29.404	28.909	65.0	73.7	80.4	61.3	70.8	88	49	59	60	82	64	.512	.528	3.90	.81	5.0	5.4	5.0
July	29.243	29.431	29.067	72.0	79.7	87.6	68.5	78.0	92	59	66	67	83	67	.654	.667	2.03	.45	4.7	4.7	5.5
August	29.214	29.529	29.000	71.6	80.5	87.7	68.5	78.1	94	61	66	67	84	65	.654	.671	3.15	1.66	4.0	3.9	4.6
September	29.323	29.568	29.123	63.8	75.5	82.7	60.5	71.6	94	48	55	55	75	50	.455	.453	.60	.44	3.0	2.4	3.4
October	29.328	29.669	29.030	51.5	63.5	71.0	48.9	60.0	89	29	44	47	78	57	.319	.356	3.44	1.40	3.2	2.6	3.3
November	29.344	29.793	28.880	40.6	48.9	55.8	37.5	46.6	76	18	35	37	79	62	.231	.248	3.56	1.40	5.1	3.4	4.8
December	29.358	29.638	28.941	30.5	40.3	46.4	27.7	37.0	60	14	22	26	69	56	.120	.141	1.91	1.32	3.9	2.8	4.0
Year	29.280	29.815	28.671	52.8	62.1	68.5	49.6	59.1	94	6	46	47	78	61	.365	.381	45.17	3.70	5.1	4.4	5.1

CHEYENNE, WYO.

[λ=41° 8′ N.; φ=104° 48′ W.]

January	23.900	24.208	23.461	25.3	29.8	40.0	18.8	29.4	58	0	13	17	59	58	.078	.093	.20	.08	2.6	4.0	4.4
February	23.913	24.279	23.576	11.9	17.9	25.3	6.2	15.8	45	−20	6	11	78	76	.056	.076	1.76	.47	5.0	4.9	5.3
March	23.938	24.208	23.650	25.8	34.7	43.1	20.9	32.0	62	2	16	21	68	63	.095	.120	1.00	.72	5.9	6.0	6.3
April	23.924	24.235	23.465	31.5	45.0	52.0	28.0	40.0	71	4	23	27	70	54	.122	.149	2.10	1.24	4.6	6.4	6.6
May	23.947	24.356	23.528	39.9	53.9	60.4	35.7	48.0	77	21	31	30	76	44	.174	.167	.46	.13	4.2	7.0	5.8
June	24.068	24.298	23.806	49.7	62.9	68.0	45.8	56.9	88	30	43	44	80	54	.279	.289	1.42	.64	5.9	7.6	7.0
July	24.096	24.208	23.796	56.9	73.1	80.7	52.8	66.8	89	40	44	44	66	38	.299	.296	.79	.38	3.8	7.1	5.7
August	24.094	24.274	23.857	54.5	72.4	80.7	51.5	66.1	90	40	44	45	70	42	.298	.311	1.90	.53	2.5	5.5	4.4
September	24.051	24.347	23.747	44.9	59.4	66.8	40.9	53.8	87	20	32	35	64	45	.188	.208	1.40	.47	3.5	4.5	4.1
October	24.106	24.362	23.591	38.7	50.4	60.2	34.0	47.1	75	21	25	26	58	41	.135	.142	.34	.16	1.7	3.1	3.2
November	24.020	24.243	23.417	31.5	37.3	49.0	24.3	36.6	67	−5	18	22	58	57	.101	.122	.79	.70	2.4	3.8	4.2
December	24.012	24.215	23.513	29.4	31.4	42.5	21.7	32.1	56	1	13	14	52	49	.078	.082	.09	.04	1.8	2.9	3.3
Year	24.007	24.362	23.417	36.7	47.4	55.7	31.7	43.7	90	−20	26	28	66	52	.159	.171	12.25	1.24	3.7	5.2	4.9

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

CHARLESTON, S. C.

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

Month.	Wind. By self-register. 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	10.4	W.	35	NW.	0	8	8	3	1	7	12	14	9	0	2	17	12	14	11	0	0	11	0	0	4	2	0
February	12.4	SW.	46	W.	2	7	11	4	3	9	11	6	5	0	4	14	10	11	8	0	0	6	0	0	2	1	0
March	10.7	NE.	55	NE.	1	6	20	10	6	7	4	4	3	0	2	22	7	12	9	0	0	5	0	0	0	1	0
April	11.8	SW.	35	S.	0	9	5	2	2	12	15	8	7	0	10	17	3	7	6	0	0	0	0	0	0	4	0
May	13.5	NE.	53	NE.	3	1	18	15	5	8	11	3	1	0	8	13	10	11	8	0	1	0	0	0	3	0	0
June	10.6	S.	31	E.	0	6	3	7	1	15	18	7	3	0	2	26	2	17	14	0	0	0	0	1	0	15	0
July	9.3	SW.	36	NE.	0	4	4	3	2	17	21	9	2	0	8	20	3	9	7	0	0	0	0	5	0	11	0
August	8.5	SW.	30	SE.	0	5	8	3	5	15	14	6	6	0	9	16	6	14	10	0	0	2	0	11	0	17	0
September	12.6	E.	36	SE.	0	7	20	13	7	5	3	1	4	0	7	18	5	10	7	0	0	3	0	0	0	6	0
October	10.0	E.	42	NE.	2	14	10	13	6	5	3	5	6	0	12	13	6	6	4	0	0	3	0	0	0	0	0
November	11.2	N.	39	N.	0	16	12	4	3	4	6	6	9	0	10	11	9	9	6	0	0	2	0	0	3	2	0
December	9.8	NW.	34	SW.	0	10	8	6	4	5	7	11	11	0	14	12	5	7	7	0	0	1	0	0	4	0	0
Year	10.9	SW.	55	NE.	8	93	127	83	45	109	125	80	68	0	88	199	78	127	97	0	1	33	0	20	13	62	0

CHARLOTTE, N. C.

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

January	7.7	SW.	33	NW.	0	4	12	6	2	3	14	9	11	1	10	7	14	11	7	0	0	3	0	0	15	0	0
February	8.4	SW.	48	SW.	2	4	10	6	4	9	12	6	3	2	9	7	12	10	10	0	0	1	0	0	8	2	0
March	6.7	NE.	32	NE.	0	4	23	5	8	11	6	2	2	1	6	10	15	12	10	0	0	0	0	0	1	5	0
April	8.0	S.	27	SW.	0	11	5	1	6	18	10	1	7	1	10	7	13	13	7	0	1	0	0	0	1	5	0
May	6.6	NE.	35	W.	0	4	18	10	5	10	10	3	1	1	10	8	13	8	5	0	0	0	0	4	0	4	0
June	5.9	NE.	22	NW.	0	8	14	4	8	9	9	6	2	0	12	9	9	13	10	0	0	0	0	0	0	7	0
July	6.2	SW.	25	SW.	0	3	10	4	6	8	21	7	3	0	13	15	3	6	3	0	0	0	0	16	0	7	0
August	4.5	NE.	30	SW.	0	1	19	4	5	8	18	3	4	0	15	7	9	13	11	0	0	0	0	12	0	14	0
September	5.8	NE.	23	NE.	0	2	22	14	9	6	4	0	2	1	14	11	5	4	3	0	0	0	0	0	0	1	0
October	5.6	S.	26	NE.	0	10	11	6	6	14	7	2	5	1	15	10	6	6	5	0	0	2	0	0	0	1	0
November	6.1	NE.	27	W.	0	4	24	2	5	9	10	4	2	0	11	7	12	4	3	0	0	1	0	0	11	1	0
December	6.9	SW.	36	W.	0	6	11	5	2	9	24	3	2	0	18	4	9	7	6	0	0	0	0	0	21	0	0
Year	6.5	NE.	48	SW.	2	61	179	67	66	114	145	46	44	8	143	102	120	107	80	0	1	7	0	32	57	47	0

CHATTANOOGA, TENN.

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

January	7.5	NW.	36	W.	0	6	6	4	7	10	6	11	12	0	9	8	14	12	6	1	0	6	1	0	15	0	0
February	8.3	NW.	46	SW.	1	2	10	2	7	10	4	9	12	0	9	7	12	14	12	2	0	4	1	0	11	3	0
March	6.5	NE.	24	W.	0	9	14	6	5	12	4	7	5	0	5	7	19	20	14	0	0	0	0	0	1	7	0
April	9.3	S.	43	NW.	1	4	6	0	7	15	3	14	11	0	11	12	7	11	9	0	1	0	0	0	0	4	0
May	6.9	NE.	29	NW.	0	3	14	3	7	13	10	9	3	0	9	12	10	11	7	0	0	1	0	0	0	5	0
June	6.1	W.	47	W.	1	7	5	1	6	6	9	17	9	0	10	14	6	13	10	0	0	1	0	0	0	10	0
July	5.6	SW.	30	SW.	0	7	2	3	3	5	18	17	7	0	5	22	4	15	10	0	0	2	0	11	0	19	0
August	5.5	W.	32	W.	0	5	10	3	3	2	15	18	6	0	13	15	3	11	6	0	0	4	0	7	0	15	0
September	6.5	NE.	25	W.	0	8	14	7	9	6	8	7	6	0	15	11	4	6	3	0	0	2	0	6	0	1	0
October	6.6	N.	37	W.	0	12	11	3	6	9	3	12	6	0	16	11	4	7	6	0	0	5	0	0	1	2	0
November	6.7	NW.	35	W.	0	10	11	3	4	8	3	9	12	0	12	10	8	8	5	0	1	3	0	0	10	3	0
December	6.9	W.	41	W.	1	7	6	1	2	6	15	15	10	0	17	4	10	8	6	1	0	6	0	0	25	0	0
Year	6.9	W.	47	W.	4	80	109	36	66	102	93	145	99	0	131	133	101	136	94	4	2	34	2	24	63	69	0

CHEYENNE, WYO.

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

January	14.4	NW.	55	NW.	7	8	0	0	0	4	6	22	22	0	12	12	7	6	2	6	0	0	5	0	29	0	0
February	11.1	NW.	45	NW.	2	9	4	0	4	9	8	7	15	0	12	5	11	13	11	13	0	0	19	0	28	0	0
March	9.7	W.	34	W.	0	15	1	3	1	13	5	16	8	0	7	10	14	8	5	6	1	3	7	0	26	0	0
April	11.6	NW.	48	SW.	3	8	3	6	0	12	2	11	18	0	7	14	9	10	7	9	1	0	2	0	19	5	0
May	11.0	NW.	48	W.	3	14	4	3	3	9	2	11	16	0	6	14	11	9	5	1	2	0	0	0	6	5	0
June	8.4	S.	32	NW.	0	9	11	4	2	12	3	2	17	0	3	12	15	10	7	0	1	1	0	0	1	8	0
July	9.9	NW.	38	W.	0	5	4	3	7	11	7	12	13	0	5	18	8	9	6	0	2	0	0	0	0	11	0
August	6.5	NW.	33	SW.	0	3	3	4	9	6	13	9	15	0	13	13	5	18	11	0	3	0	0	2	0	17	0
September	10.2	NW.	38	W.	0	6	6	2	5	4	5	14	18	0	15	7	8	8	5	2	0	0	0	0	4	3	0
October	10.2	NW.	48	NW.	1	9	6	0	2	8	2	13	23	0	17	9	5	6	3	1	0	0	0	0	12	0	0
November	9.9	NW.	56	W.	4	4	5	2	4	4	8	13	20	0	13	14	3	6	3	4	0	0	3	0	26	0	2
December	14.8	NW.	54	NW.	4	8	0	0	1	2	5	14	32	0	18	10	3	4	1	4	0	0	4	0	28	0	0
Year	10.6	NW.	56	W.	24	93	60	27	38	94	66	144	217	0	128	138	99	105	66	46	10	4	49	2	179	49	2

[a] By eye observation [illegible] record station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

CHICAGO, ILL.

[λ=41° 53′ N.; φ=87° 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	29.060	29.503	28.243	22.5	25.6	30.3	17.6	24.0	51	−6	19	21	86	82	.114	.122	1.09	.35	5.6	6.4	6.3
February	29.179	29.629	28.301	23.0	26.7	30.6	19.5	25.0	49	−11	19	23	85	84	.120	.130	3.03	1.10	5.7	4.1	5.5
March	29.251	29.580	28.870	37.0	41.4	47.5	33.4	40.4	74	13	34	36	88	82	.209	.223	1.67	.76	4.7	5.2	5.7
April	29.032	29.392	28.585	48.2	48.3	54.5	39.9	47.2	78	28	36	39	78	72	.221	.248	3.77	1.29	5.3	4.8	5.7
May	29.159	29.541	28.704	55.8	61.0	67.8	51.7	59.8	85	33	48	48	78	66	.361	.361	.98	.30	5.0	4.5	5.6
June	29.097	29.406	28.837	59.0	62.0	67.9	54.6	61.2	90	44	51	50	75	66	.375	.366	1.62	.68	4.4	5.0	5.6
July	29.120	29.358	28.690	69.3	73.0	78.5	65.9	72.2	92	59	60	60	78	66	.527	.531	4.78	1.23	3.9	4.9	4.5
August	29.112	29.396	28.892	65.5	69.3	73.6	63.1	68.4	92	55	58	60	77	74	.487	.530	3.49	1.13	5.4	5.1	6.0
September	29.203	29.439	28.859	59.1	66.2	72.1	56.6	64.4	86	40	51	53	74	64	.391	.419	4.00	1.54	4.3	3.9	4.7
October	29.210	29.629	28.618	49.5	55.4	59.7	47.6	53.6	83	33	42	42	77	63	.292	.292	1.09	.49	4.4	3.5	4.0
November	29.204	29.755	28.483	33.4	37.4	42.9	30.0	36.4	63	12	27	27	77	65	.166	.163	.34	.14	4.3	4.9	5.2
December	29.145	29.604	28.721	17.8	21.7	27.5	12.6	20.0	40	−13	15	17	88	80	.095	.098	2.28	1.23	6.0	6.3	6.1
Year	29.148	29.755	28.243	44.6	49.0	54.4	41.0	47.7	92	−13	38	40	80	72	.280	.290	28.09	1.54	4.9	4.8	5.4

CINCINNATI, OHIO.

[λ=39° 6′ N.; φ=84° 30′ W.]

January	29.338	29.763	28.643	28.3	32.6	38.3	23.9	31.1	66	0	24	26	82	76	.141	.155	2.05	.86	5.8	5.1	6.5
February	29.428	29.983	28.691	31.3	35.8	42.6	26.5	34.6	66	−1	28	27	86	70	.166	.164	5.76	1.57	5.7	5.7	6.0
March	29.491	29.809	29.107	44.9	53.1	57.6	41.8	49.7	77	24	41	44	86	73	.272	.311	4.97	2.15	7.3	5.3	7.7
April	29.250	29.718	28.714	49.0	56.4	62.7	44.5	53.6	80	28	42	41	77	59	.276	.264	3.49	1.02	6.0	6.1	6.5
May	29.390	29.767	29.227	62.4	71.8	77.1	57.8	67.4	88	36	52	54	68	56	.406	.448	3.83	1.42	4.1	4.6	5.4
June	29.271	29.542	28.972	62.5	71.0	76.1	59.2	67.6	88	44	57	57	82	63	.469	.472	3.27	1.74	4.6	6.4	6.3
July	29.335	29.525	29.062	72.2	81.8	87.0	68.5	77.8	96	59	61	62	69	52	.567	.559	2.31	1.18	4.1	3.3	4.5
August	29.320	29.620	29.136	67.8	77.9	84.4	65.4	74.9	95	57	60	59	78	54	.535	.509	2.75	1.21	4.0	5.3	5.2
September	29.455	29.724	29.224	60.5	73.8	80.9	57.4	69.2	93	44	53	55	77	53	.423	.453	1.78	1.05	2.8	2.2	3.4
October	29.450	29.863	29.006	49.7	60.3	67.4	47.6	57.5	86	30	43	42	78	54	.305	.306	1.81	.71	2.3	3.4	4.1
November	29.463	30.016	28.864	36.4	42.2	48.6	32.2	40.4	75	14	30	32	76	68	.185	.205	1.45	.53	6.1	3.5	6.2
December	29.421	29.896	28.853	23.8	31.1	35.8	19.5	27.6	52	3	18	23	80	70	.103	.125	1.72	.88	5.2	4.1	5.2
Year	29.384	30.016	28.643	49.0	57.3	63.2	45.4	54.3	96	−1	42	44	78	62	.320	.331	34.69	2.15	4.8	4.6	5.6

CLEVELAND, OHIO.

[λ=41° 30′ N.; φ=81° 42′ W.]

January	29.115	29.626	28.365	23.7	26.1	32.5	19.6	26.0	60	−5	19	23	80	80	.112	.134	1.88	.42	7.6	7.6	8.0
February	29.218	29.739	28.425	26.6	28.2	35.0	21.7	28.4	60	−4	22	23	80	79	.133	.132	3.84	1.27	7.2	6.1	6.7
March	29.341	29.664	28.980	39.0	44.8	50.7	36.4	43.6	76	22	34	39	84	80	.207	.250	2.10	.56	6.3	5.5	6.5
April	29.095	29.606	28.602	44.4	49.1	54.7	39.8	47.2	80	22	37	39	77	71	.227	.247	3.85	1.50	5.1	5.3	5.1
May	29.271	29.591	29.063	57.0	64.4	68.7	52.8	60.8	84	32	47	48	70	58	.346	.351	1.46	.45	3.1	3.8	3.9
June	29.117	29.465	28.803	60.1	64.8	68.4	56.1	62.2	84	48	53	53	79	70	.412	.422	3.17	.91	5.7	5.9	6.2
July	29.166	29.425	28.718	68.9	73.9	77.8	64.5	71.2	89	56	60	62	75	67	.533	.560	5.23	1.74	4.8	4.2	4.5
August	29.170	29.527	28.956	64.5	70.3	74.3	61.3	67.8	85	50	58	59	80	69	.492	.511	4.13	2.00	5.3	5.5	5.5
September	29.304	29.593	29.006	58.7	67.7	73.6	56.1	64.8	88	42	53	55	82	66	.422	.461	2.46	1.52	4.4	3.2	4.0
October	29.262	29.606	28.816	50.2	55.0	60.3	47.6	54.0	78	36	43	48	77	76	.298	.346	3.48	1.37	5.0	4.3	5.1
November	29.255	29.828	28.598	34.2	38.3	43.9	31.1	37.5	69	17	29	30	79	74	.168	.187	1.91	.70	7.2	6.2	7.4
December	29.188	29.610	28.595	21.7	25.0	29.8	17.8	23.8	47	3	16	19	76	77	.091	.107	1.90	.70	8.7	7.0	8.5
Year	29.208	29.828	28.365	45.8	50.8	55.8	42.1	48.9	89	−5	39	42	78	72	.287	.309	35.41	2.00	5.9	5.4	6.0

COLUMBIA, MO.[a]

[λ=38° 57′ N.; φ=92° 14′ W.]

January	29.165	29.572	28.695	.....	32.3	38.9	22.4	30.6	66	−3	....	25	....	74	.....	.144	1.90	.74	.....	5.5	5.3
February	29.272	29.788	28.526	.....	30.7	38.0	19.5	28.8	63	−15	....	24	....	76	.....	.140	2.66	1.78	.....	6.0	6.3
March	29.280	29.643	28.963	.....	49.5	56.4	36.5	46.4	79	15	....	39	....	69	.....	.250	3.46	1.68	.....	5.5	5.9
April	29.086	29.521	28.626	.....	57.9	66.2	48.6	54.9	83	29	....	45	....	65	.....	.312	4.66	1.40	.....	6.1	5.7
May	29.113	29.358	28.881	.....	67.6	74.1	55.9	65.0	86	39	....	58	....	74	.....	.509	5.26	1.96	.....	6.2	6.5
June	29.139	29.391	28.833	.....	70.9	76.8	56.1	66.4	90	42	....	60	....	71	.....	.533	2.16	.58	.....	5.4	6.2
July	29.148	29.357	28.818	.....	80.8	88.2	66.4	77.3	95	57	....	67	....	64	.....	.675	2.36	.81	.....	4.6	5.9
August	29.149	29.385	28.877	.....	75.8	84.5	63.3	73.9	94	49	....	66	....	72	.....	.647	5.09	1.45	.....	4.2	5.9
September	29.224	29.460	28.900	.....	67.0	77.9	54.8	66.4	92	37	....	58	....	74	.....	.501	5.24	1.74	.....	3.7	4.8
October	29.253	29.686	28.661	.....	57.8	68.4	45.5	57.0	86	26	....	48	....	70	.....	.358	2.41	2.14	.....	4.4	4.1
November	29.286	29.778	28.746	.....	41.1	49.7	30.1	39.9	75	11	....	32	....	70	.....	.201	.71	.39	.....	5.5	6.0
December	29.268	29.781	28.704	.....	30.4	39.0	17.9	28.4	52	−4	....	23	....	74	.....	.129	.87	.38	.....	4.3	5.4
Year	29.199	29.788	28.526	.....	55.2	63.2	42.7	52.9	95	−15	....	45	....	71	.....	.367	36.78	2.14	.....	5.1	5.7

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

CHICAGO, ILL.

[H=823 ft.; h_t=241 ft.; h_r=238 ft.; h_a=274 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	17.7	W.	46	W.	4	6	3	3	1	13	8	19	9	0	9	7	15	9	7	7	0	3	18	0	29	0	0
February	18.8	W.	50	S.	3	6	4	3	2	4	14	14	9	0	10	7	11	9	8	7	0	3	13	0	23	0	0
March	17.0	SW.	52	SW.	6	5	13	4	9	9	15	6	1	0	12	5	14	11	7	3	0	10	1	0	11	2	0
April	21.2	NE.	58	S.	11	6	20	2	10	10	6	3	4	0	10	7	13	13	13	2	1	1	0	0	3	6	0
May	17.7	S.	72	SW.	5	7	13	4	8	20	5	4	1	0	4	19	8	9	5	0	1	4	0	0	0	6	0
June	13.5	NE.	35	E.	0	12	20	7	4	0	5	6	6	0	5	20	5	8	5	0	0	1	0	0	0	1	0
July	14.0	NE.	70	S.	2	5	11	6	9	9	8	8	6	0	12	16	3	11	9	0	1	0	0	5	0	9	0
August	14.4	SW.	56	SW.	2	3	12	10	10	4	11	3	9	0	9	10	12	11	9	0	0	0	0	2	0	9	0
September	16.5	S.	51	S.	2	5	7	2	5	17	13	9	2	0	13	9	8	11	8	0	0	1	0	0	0	6	0
October	16.8	W.	50	S.	3	8	8	5	5	8	7	19	2	0	17	7	7	7	5	0	1	1	0	0	0	2	0
November	16.9	W.	69	S.	4	5	4	3	3	11	8	13	13	0	10	11	9	6	3	3	0	2	10	0	19	1	0
December	17.8	W.	52	SW.	3	4	1	1	1	5	13	25	12	0	6	14	11	11	8	8	0	0	18	0	30	0	0
Year	16.9	SW.	72	SW.	45	71	116	50	67	110	113	129	74	0	117	132	116	116	87	30	4	25	60	7	115	42	0

CINCINNATI, OHIO.

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

January	9.2	SW.	36	W.	0	1	3	6	13	2	16	16	5	0	9	6	16	13	10	8	0	1	8	0	26	0	0
February	9.3	SW.	40	SW.	1	7	8	2	8	3	15	9	4	0	9	7	12	14	13	5	1	0	5	0	18	0	0
March	6.6	NE.	36	W.	0	8	14	7	11	2	6	11	2	1	3	10	18	12	10	6	0	1	1	0	4	3	0
April	7.7	SW.	42	SW.	1	13	3	6	12	3	12	5	4	2	7	8	15	15	13	6	1	0	0	0	2	3	0
May	6.1	SE.	35	W.	0	0	14	16	14	3	9	3	3	0	11	8	12	10	9	6	0	0	0	0	0	7	0
June	6.6	NE.	28	W.	0	6	7	11	7	1	10	8	9	1	5	13	12	14	9	6	1	0	0	0	0	6	0
July	6.5	SW.	29	W.	0	3	13	5	5	4	17	7	8	0	9	19	3	7	5	0	0	0	0	0	0	6	0
August	5.8	SW.	33	NW.	0	10	8	5	4	5	16	6	7	1	11	14	6	12	9	0	0	0	0	11	0	4	0
September	4.8	SE.	34	W.	0	0	9	1	12	21	3	5	2	5	2	16	12	2	7	6	0	0	0	5	0	8	0
October	6.0	SE.	41	SW.	1	5	9	2	14	3	12	4	10	3	13	13	5	7	5	0	0	0	4	0	0	3	0
November	6.7	SE.	35	W.	0	7	4	6	13	1	10	9	9	1	9	8	13	10	6	2	0	2	0	0	3	3	0
December	7.6	SW.	38	W.	0	0	5	8	9	6	14	16	4	0	13	8	10	12	6	7	0	0	6	0	15	2	0
Year	6.9	SW.	42	SW.	3	69	89	86	131	36	142	96	70	11	115	126	124	133	101	22	4	4	32	20	98	39	0

CLEVELAND, OHIO.

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

January	17.2	SW.	54	W.	8	0	3	1	17	9	20	9	3	0	2	7	22	20	12	16	0	0	14	0	27	0	0
February	18.9	S.	57	W.	7	2	8	1	9	14	11	6	5	0	5	8	15	19	13	14	0	0	12	0	25	1	0
March	13.1	SE.	48	SW.	4	8	10	4	11	11	8	9	1	0	5	12	14	16	10	2	0	5	1	0	7	2	0
April	15.9	N.	50	NW.	5	11	11	3	10	7	6	6	6	0	11	9	10	15	11	2	0	0	1	0	3	2	0
May	13.5	SE.	45	S.	1	9	17	3	14	8	4	4	3	0	15	12	4	6	5	0	0	0	0	0	1	10	0
June	12.1	N.	47	W.	1	6	11	4	5	8	10	6	9	1	8	9	13	17	11	0	0	0	0	0	0	6	0
July	11.8	W.	48	W.	2	6	4	1	10	10	10	12	9	0	9	19	3	15	9	0	0	0	0	0	0	13	0
August	11.5	SE.	54	NW.	1	7	8	7	11	4	12	0	11	2	8	15	8	11	8	0	0	0	0	0	0	1	0
September	13.9	SE.	48	W.	3	4	5	3	22	11	4	3	7	1	13	14	3	6	5	0	1	0	0	0	0	6	1
October	17.0	S.	48	NW.	7	5	6	1	11	14	9	4	12	0	10	10	11	11	10	1	0	0	0	0	0	2	0
November	16.5	S.	47	SW.	4	3	1	2	13	15	14	5	7	0	5	6	19	15	12	10	0	0	9	0	13	1	0
December	18.1	SW.	61	S.	6	2	0	0	12	17	24	4	3	0	1	7	23	19	10	17	0	0	18	0	30	0	0
Year	15.0	SE.	61	S.	49	63	84	30	145	128	132	68	76	4	92	128	145	170	116	62	1	5	55	0	106	46	1

COLUMBIA, MO.

[H=784 ft.; h_t=11 ft.; h_r=3 ft.; h_a=84 ft.]

January	9.7	W.	47	NW.	1	2	2	2	3	4	8	4	6	0	12	7	12	10	6	7	0	2	8	0	26	0	0
February	10.1	SW.	39	NW.	0	5	4	2	1	4	7	1	4	0	9	4	15	9	6	4	1	0	9	0	24	2	0
March	8.2	SE.	30	W.	0	3	4	5	9	4	1	4	1	0	11	6	14	13	13	2	0	0	0	0	10	2	0
April	10.6	S.	35	NW.	0	9	0	0	6	7	2	2	4	0	7	14	9	13	8	1	0	0	0	0	2	7	0
May	8.1	SE.	42	SW.	1	0	3	6	9	8	2	1	2	0	7	9	15	17	14	0	0	0	0	0	1	11	0
June	5.1	N.	27	NW.	0	5	3	4	2	2	1	7	6	0	7	10	13	13	9	0	0	0	1	0	0	10	0
July	6.3	S.	28	SW.	0	1	2	7	2	8	6	1	4	0	11	6	14	11	5	0	0	0	0	12	0	9	0
August	5.9	SW.	34	N.	0	4	3	1	3	6	8	2	4	0	6	13	12	13	11	0	0	0	0	0	0	14	0
September	6.8	S.	30	NW.	0	2	1	1	7	13	1	0	5	0	18	8	9	11	8	0	0	0	0	1	0	9	0
October	7.2	SE.	31	NW.	0	5	2	5	5	8	8	1	2	0	17	5	9	7	5	0	0	0	0	0	3	4	0
November	9.3	SE.	38	NW.	0	2	1	5	7	4	2	2	7	0	9	4	17	6	5	2	0	0	6	0	17	2	0
December	9.3	NW.	43	NW.	1	3	2	1	6	3	3	6	7	0	8	14	9	8	4	5	0	0	8	0	20	0	0
Year	8.0	SE.	47	NW.	3	41	27	39	60	66	49	31	52	0	117	100	148	131	94	21	1	3	31	21	108	70	1

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

COLUMBIA, S. C.

[λ=34° 00′ N.; φ=81° 03′ 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	29.681	30.091	29.181	38.9	45.9	51.6	36.3	44.0	70	21	34	38	83	74	.213	.237	3.06	1.33	6.9	4.4	6.5
February	29.767	30.217	28.892	43.9	53.1	59.0	41.1	50.0	74	19	37	40	77	64	.260	.281	7.30	3.19	5.4	4.1	5.6
March	29.780	30.109	29.336	55.5	62.4	69.0	53.2	61.2	80	36	51	52	86	72	.394	.414	3.90	2.02	6.9	6.8	6.7
April	29.580	30.016	29.053	54.7	64.2	71.2	50.4	60.8	85	35	47	49	74	59	.330	.357	3.11	1.51	5.4	3.5	4.8
May	29.705	29.918	29.494	65.6	72.7	80.0	62.0	71.0	97	53	59	61	81	68	.517	.544	2.39	1.35	5.6	5.0	6.6
June	29.563	29.847	29.344	69.7	74.7	83.3	65.1	74.2	91	53	64	65	82	74	.599	.628	9.97	3.60	4.9	5.0	5.6
July	29.646	29.850	29.496	75.3	81.2	90.4	71.1	80.8	98	64	68	68	78	66	.685	.690	2.94	.84	3.6	4.3	4.1
August	29.612	29.960	29.422	74.9	80.0	89.5	71.5	80.5	97	68	70	71	86	75	.739	.755	9.47	2.93	5.1	5.9	5.7
September	29.743	30.046	29.475	67.5	74.2	81.5	64.1	72.8	94	53	62	63	82	68	.573	.581	2.68	2.22	3.9	2.8	4.2
October	29.709	30.072	29.359	56.3	66.4	73.3	53.9	63.6	86	34	52	57	85	73	.408	.463	1.94	1.56	4.5	2.8	4.2
November	29.739	30.206	29.325	45.6	53.2	60.1	43.0	51.6	76	22	41	44	83	72	.290	.324	1.36	.48	5.1	4.2	5.9
December	29.746	30.053	29.293	36.1	45.2	51.8	33.1	42.4	64	19	29	30	74	55	.168	.170	1.70	.79	4.5	1.6	3.9
Year	29.689	30.217	28.892	57.0	64.4	71.7	53.7	62.7	98	19	51	53	81	68	.431	.455	49.82	3.60	5.2	4.1	5.2

COLUMBUS, OHIO.

[λ=39° 58′ N.; φ=83° 00′ W.]

January	29.101	29.521	28.386	25.9	29.5	35.5	21.1	28.3	61	− 3	23	24	88	80	.136	.143	2.11	.82	6.5	6.5	6.9
February	29.195	29.723	28.487	28.7	32.5	39.6	24.0	31.8	64	− 2	25	26	85	78	.151	.156	4.44	1.13	7.0	5.7	6.2
March	29.282	29.615	28.898	42.2	50.3	56.3	39.2	47.8	77	23	39	41	89	72	.254	.275	4.13	1.82	7.5	5.9	7.4
April	29.043	29.530	28.524	47.1	53.4	60.3	42.1	51.2	80	26	39	40	75	64	.250	.265	2.47	.82	6.8	5.9	6.7
May	29.204	29.537	28.970	60.2	69.6	76.9	54.8	65.8	88	34	51	50	72	52	.393	.391	2.18	.80	4.3	4.9	4.6
June	29.073	29.380	28.781	60.7	67.6	74.8	57.3	66.0	87	46	55	55	81	66	.435	.445	3.07	.94	6.4	7.4	6.4
July	29.130	29.349	28.790	69.5	78.4	84.9	64.1	74.5	94	52	60	58	73	52	.538	.503	2.06	.84	3.7	5.6	4.5
August	29.118	29.449	28.945	65.9	76.1	83.7	62.2	73.0	95	54	58	56	77	52	.498	.466	.67	.31	5.0	6.0	4.9
September	29.255	29.528	29.016	59.2	71.6	79.6	55.5	67.6	92	41	52	50	78	48	.410	.380	1.46	.71	3.9	2.6	4.1
October	29.236	29.619	28.842	48.2	57.1	65.2	45.7	55.4	83	27	43	42	82	60	.309	.305	1.84	1.18	3.9	4.1	4.8
November	29.237	29.777	28.785	33.9	39.5	46.6	30.1	38.4	70	12	28	28	79	65	.171	.175	2.01	1.26	5.3	4.8	6.3
December	29.184	29.629	28.578	21.0	26.5	32.4	16.7	24.6	52	1	17	22	85	82	.099	.123	1.71	1.04	6.5	5.8	6.7
Year	29.172	29.777	28.386	46.9	54.3	61.3	42.7	52.0	95	− 3	41	41	80	64	.303	.302	28.14	1.82	5.6	5.4	5.8

CONCORD, N. H.[a]

[λ=43° 12′ N.; φ=71° 32′ W.]

January	29.562	30.284	28.863	17.8	.....	30.5	13.0	21.8	48	−15	12	.....	78	.....	.088	.....	3.61	1.26	6.1	.....	5.4
February	29.633	30.098	28.826	20.6	.....	31.9	16.4	25.6	58	−18	15	.....	77	.....	.092	.....	3.75	1.08	5.9	.....	5.6
March	29.886	30.390	29.215	35.4	.....	49.0	30.6	39.8	77	16	31	.....	84	.....	.177	.....	5.00	1.09	6.5	.....	6.5
April	29.570	30.145	29.066	42.7	.....	55.8	33.4	44.6	84	21	32	.....	66	.....	.187	.....	1.62	.67	5.3	.....	5.3
May	29.814	30.220	29.463	54.9	.....	71.7	43.4	57.6	89	27	43	.....	66	.....	.294	.....	.57	.18	3.0	.....	3.2
June	29.655	30.087	29.405	56.8	.....	68.1	49.6	58.8	83	38	52	.....	85	.....	.395	.....	7.75	2.05	6.7	.....	6.7
July	29.552	29.851	29.290	66.7	.....	78.3	57.7	68.0	95	49	58	.....	76	.....	.502	.....	6.00	2.01	5.9	.....	5.9
August	29.694	30.079	29.416	58.6	.....	71.0	51.2	61.1	82	45	54	.....	86	.....	.423	.....	3.38	1.03	5.6	.....	6.2
September	29.791	30.187	29.377	55.3	.....	73.1	48.5	60.8	90	30	52	.....	88	.....	.411	.....	1.24	.55	3.9	.....	3.8
October	29.695	30.102	29.096	44.3	.....	58.8	39.4	49.1	72	23	41	.....	88	.....	.270	.....	3.27	1.20	5.5	.....	5.9
November	29.674	30.409	29.186	29.0	.....	43.7	25.4	34.6	71	5	25	.....	82	.....	.145	.....	1.40	.63	5.0	.....	4.5
December	29.606	30.183	28.822	17.8	.....	31.0	13.0	22.0	51	− 8	12	.....	78	.....	.067	.....	3.21	1.17	4.9	.....	5.6
Year	29.678	30.409	28.822	41.7	.....	55.5	35.1	45.3	95	−18	36	.....	80	.....	.256	.....	40.80	2.05	5.4	.....	5.4

CONCORDIA, KANS.

[λ=39° 35′ N.; φ=97° 41′ W.]

January	28.534	28.994	28.029	24.5	32.3	38.8	22.6	30.7	55	1	20	25	80	72	.108	.136	.27	.20	3.4	3.4	3.7
February	28.650	29.075	28.028	17.6	25.6	31.9	16.5	24.2	56	−12	14	20	84	77	.086	.114	.80	.34	5.8	5.1	5.1
March	28.611	28.936	28.252	33.1	44.2	50.8	31.1	41.0	74	7	30	38	86	79	.172	.244	1.21	.43	4.5	4.3	4.9
April	28.440	28.941	27.870	45.3	58.2	66.0	42.5	54.2	85	27	39	48	78	70	.246	.342	3.34	2.83	5.0	5.0	4.4
May	28.427	28.782	28.131	56.3	64.2	70.1	53.3	61.7	86	35	52	58	86	81	.402	.499	18.15	3.78	5.5	7.6	7.1
June	28.537	28.932	28.177	61.0	73.0	77.7	57.0	67.4	96	43	56	60	84	67	.452	.537	3.97	.73	4.5	6.1	5.7
July	28.486	28.703	28.188	70.1	83.0	87.8	66.4	77.1	98	53	63	66	80	58	.591	.635	5.22	1.78	5.2	3.7	4.4
August	28.503	28.704	28.232	66.5	78.8	84.0	64.5	74.2	92	50	61	66	84	65	.547	.646	4.32	2.24	4.8	3.2	4.6
September	28.532	28.860	28.100	56.3	68.0	76.6	54.5	65.6	90	36	50	55	80	65	.380	.445	1.84	1.22	4.2	3.7	3.9
October	28.600	28.978	27.936	46.6	59.5	68.7	45.0	56.8	87	31	40	44	79	60	.271	.307	2.88	1.06	3.5	2.9	3.4
November	28.638	29.160	28.167	33.5	41.0	48.6	32.1	40.4	64	10	29	33	84	74	.174	.204	1.07	.70	3.7	3.6	4.4
December	28.636	29.124	28.080	24.9	33.9	44.7	21.2	33.0	58	5	20	24	80	68	.108	.132	.12	.09	3.5	1.6	3.4
Year	28.550	29.160	27.870	44.6	55.2	62.1	42.2	52.2	98	−12	40	45	82	70	.295	.353	38.19	3.78	4.5	4.2	4.6

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

COLUMBIA, S. C.

[H = 351 ft.; h_t = 167 ft.; h_r = 159 ft.; h_a = 175 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	9.2	SW.	38	SW.	0	6	10	3	3	4	19	12	5	0	7	9	15	11	8	0	0	3	0	0	9	0	0
February	10.3	SW.	60	SW.	4	5	12	8	4	4	15	5	3	0	9	9	10	11	9	0	0	5	0	0	5	1	0
March	7.7	NE.	38	NE.	0	4	19	12	12	4	5	3	2	1	4	11	16	11	8	0	0	3	0	0	0	3	0
April	9.7	SW.	38	SW.	0	5	5	3	9	7	14	5	12	0	11	11	8	10	8	0	0	0	0	0	0	6	0
May	8.3	NE.	26	NE.	0	1	17	16	13	5	7	3	0	0	9	13	9	13	9	0	0	0	0	4	0	6	0
June	6.8	SW.	40	W.	1	5	7	6	7	8	13	9	4	1	11	8	11	18	13	0	0	0	0	2	0	11	0
July	6.9	SW.	36	SW.	0	6	7	3	9	13	15	5	4	0	14	13	4	11	7	0	0	0	0	18	0	7	0
August	5.5	E.	25	N.	0	1	3	13	11	8	11	12	3	0	8	12	11	16	14	0	0	0	0	11	0	13	0
September	8.0	NE.	30	SE.	0	9	21	13	10	1	3	1	2	0	13	12	5	3	3	0	0	0	0	2	0	2	0
October	8.8	NW.	46	N.	2	2	10	13	9	3	9	2	14	0	15	9	7	4	2	0	0	5	0	0	0	1	0
November	9.5	NE.	36	NE.	0	6	17	7	4	5	7	5	9	0	6	15	9	8	6	0	0	2	0	0	5	1	0
December	10.1	SW.	44	W.	1	9	4	8	7	2	18	10	4	0	17	8	6	6	6	0	0	2	0	0	12	0	0
Year	8.4	SW.	60	SW.	8	59	132	105	98	64	136	72	62	2	124	130	111	122	95	0	0	20	0	37	31	51	0

COLUMBUS, OHIO.

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

January	13.7	SW.	60	W.	5	5	1	4	11	5	19	14	3	0	6	9	16	13	11	8	0	2	10	0	26	0	0
February	14.8	SW.	61	SW.	6	5	2	7	6	6	17	9	4	0	8	9	11	15	14	5	0	1	6	0	21	0	0
March	11.4	SW.	51	W.	4	9	9	12	5	5	17	4	1	0	3	11	17	10	7	0	0	2	1	0	7	2	0
April	13.1	SW.	52	SW.	3	16	3	3	9	9	12	2	6	0	7	7	16	14	11	0	0	0	0	0	3	2	0
May	10.5	E.	60	NW.	5	5	6	15	15	9	11	0	1	0	11	16	4	7	6	0	0	0	0	0	0	6	0
June	9.8	SW.	38	NW.	0	6	6	12	8	3	17	3	10	0	8	8	14	13	11	0	0	0	0	0	0	8	0
July	10.2	SW.	45	SW.	2	3	12	4	5	6	17	6	9	0	10	17	4	7	6	0	0	0	0	9	0	6	0
August	9.6	SW.	40	SW.	1	7	10	6	4	7	14	7	7	0	10	15	6	8	4	0	0	1	0	4	0	4	0
September	9.2	S.	60	W.	2	8	8	5	15	11	3	4	6	0	15	10	5	6	6	0	0	0	0	4	0	2	0
October	11.1	SW.	48	SW.	2	11	3	2	6	14	13	3	10	0	14	8	9	7	7	0	0	0	0	0	3	3	1
November	10.9	SW.	56	SW.	1	6	3	5	5	9	16	6	10	0	7	7	16	9	6	2	0	1	7	0	15	3	0
December	12.3	SW.	53	SW.	4	5	0	2	9	8	28	6	4	0	6	10	15	13	8	10	0	1	13	0	30	0	0
Year	11.4	SW.	61	SW.	35	86	63	77	93	92	184	64	71	0	105	127	133	122	97	25	0	8	37	17	105	36	1

CONCORD, N. H.

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

January	6.2	NW.	33	W.	0	7	5	0	4	2	1	4	8	0	11	10	10	11	10	7	0	3	15	0	29	0	0
February	6.8	W.	37	W.	0	2	1	4	3	2	2	8	6	0	8	11	9	11	10	7	0	1	11	0	24	1	0
March	5.5	NE.	35	W.	0	5	5	5	4	1	5	2	4	0	8	8	15	12	11	2	0	1	1	0	15	0	0
April	6.9	NW.	27	E.	0	7	7	4	0	1	2	1	8	0	11	10	9	8	7	1	0	0	0	0	12	0	0
May	5.3	N.	28	NW.	0	9	8	1	5	3	1	1	3	0	19	10	2	4	4	0	0	2	0	0	2	2	0
June	4.7	N.	32	E.	0	8	6	5	8	0	1	1	1	0	7	7	16	17	16	0	0	1	0	0	0	2	0
July	5.1	NE.	24	W.	0	2	8	1	4	2	2	7	5	0	7	17	7	13	12	0	0	1	0	2	0	6	0
August	4.8	N.	20	NW.	0	8	6	1	5	5	0	3	3	0	8	12	11	15	9	0	0	7	0	0	0	1	1
September	4.4	N.	28	E.	0	8	8	0	4	2	2	4	2	0	15	13	2	6	5	0	1	1	0	0	1	1	0
October	6.1	NW.	28	NW.	0	4	2	4	4	4	0	5	8	0	10	8	13	12	9	0	0	3	0	0	8	0	0
November	5.1	NW.	24	NW.	0	3	2	2	1	3	4	7	8	0	14	10	6	8	5	3	0	1	6	0	19	0	0
December	6.3	W.	32	NE.	0	4	1	3	1	4	4	8	6	0	13	3	15	10	9	8	0	0	12	0	31	0	0
Year	5.6	N.	37	W.	0	67	59	30	43	29	24	51	62	0	131	119	115	127	107	28	1	21	45	2	141	13	1

CONCORDIA, KANS.

[H = 1,398 ft.; h_t = 42 ft.; h_r = 34 ft.; h_a = 47 ft.]

January	7.3	S.	38	NW.	0	8	4	2	6	14	7	7	12	2	16	10	5	5	1	3	0	1	5	0	26	0	0
February	7.1	N.	32	NW.	0	10	9	6	1	6	7	6	10	1	12	6	10	8	6	8	0	0	13	0	28	1	0
March	8.0	S.	28	S.	0	8	4	7	12	17	1	1	10	2	13	5	13	11	9	3	0	3	0	0	16	2	0
April	10.7	S.	39	S.	0	13	5	2	2	17	3	3	11	4	14	9	7	9	4	2	2	0	0	0	3	1	0
May	9.5	S.	45	S.	2	10	4	5	10	22	4	2	2	3	4	11	16	20	19	0	1	2	0	0	0	13	0
June	5.2	N.	24	S.	0	12	6	3	10	10	3	5	6	5	5	19	6	12	10	0	1	2	0	4	0	6	0
July	7.6	S.	32	SE.	0	3	6	9	17	19	2	1	3	2	12	15	4	11	9	0	0	0	0	13	0	9	0
August	6.8	S.	27	W.	0	3	7	10	7	22	2	1	6	4	7	21	3	9	6	0	0	0	0	6	0	9	0
September	8.9	S.	30	S.	0	8	4	4	5	27	0	3	3	6	14	10	6	4	2	0	0	0	0	0	0	2	0
October	7.1	S.	30	NW.	0	9	6	3	13	14	5	1	7	4	19	6	6	8	8	0	0	0	0	0	1	1	0
November	7.2	SE.	28	S.	0	7	4	5	13	11	1	1	13	5	12	11	7	4	3	1	0	0	3	0	15	1	0
December	6.8	S.	28	NW.	0	6	3	2	7	13	8	8	13	2	18	9	4	2	1	1	0	1	5	0	30	0	0
Year	7.7	S.	45	S.	2	97	62	58	103	192	43	39	96	40	146	132	87	103	78	18	4	9	26	23	119	45	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

CORPUS CHRISTI, TEX.

[λ=27° 49′ N.; φ=97° 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	30.070	30.512	29.644	50.0	57.8	68.0	48.2	55.6	81	35	45	48	85	74	.323	.364	1.16	.62	5.2	4.5	4.4
February	30.038	30.437	29.581	52.7	57.3	61.6	49.6	55.6	78	27	48	51	86	82	.364	.398	5.81	2.66	8.0	6.7	6.9
March	30.024	30.401	29.772	59.4	63.9	67.7	56.9	62.3	76	42	56	58	89	82	.467	.493	7.69	4.66	6.6	6.5	6.9
April	29.960	30.350	29.639	66.7	70.6	75.3	64.1	69.7	88	52	61	60	82	72	.555	.589	.84	.78	7.6	5.7	5.4
May	29.898	30.309	29.696	71.1	75.7	79.4	69.4	74.4	86	51	66	67	84	75	.655	.670	2.25	2.16	6.6	6.5	4.8
June	29.893	30.128	29.629	74.2	79.2	83.4	71.2	77.3	90	59	70	71	87	77	.734	.768	6.48	4.51	4.9	4.9	4.7
July	29.944	30.061	29.682	78.2	83.3	87.1	75.8	81.4	90	68	74	74	88	75	.852	.847	6.87	4.15	4.3	3.5	3.5
August	29.942	30.127	29.791	78.6	83.4	87.7	76.5	82.1	92	70	74	74	87	74	.845	.839	1.84	.56	3.0	5.0	3.7
September	29.989	30.277	29.801	75.0	80.9	85.0	72.6	78.8	89	54	70	69	83	69	.733	.732	.89	.62	3.9	3.1	3.2
October	30.032	30.308	29.740	66.9	74.3	78.5	64.9	71.7	87	50	62	62	84	66	.570	.578	1.74	.62	3.7	2.1	3.8
November	30.088	30.558	29.796	58.8	65.5	71.0	56.8	63.9	84	37	51	55	78	70	.427	.470	.56	.40	5.8	4.2	4.5
December	30.146	30.518	29.787	51.8	59.9	64.5	49.2	56.8	78	39	46	50	82	72	.337	.381	.79	.55	5.5	4.6	5.8
Year	30.002	30.558	29.581	65.3	71.0	75.4	62.9	69.1	92	27	60	62	85	74	.572	.618	36.92	4.66	5.4	4.8	4.8

DAVENPORT, IOWA.

[λ=41° 30′ N.; φ=90° 38′ W.]

January	29.308	29.723	28.666	21.4	25.8	32.1	17.7	24.9	49	− 2	18	21	87	81	.104	.120	.79	.46	5.2	4.8	5.9
February	29.439	29.865	28.720	19.0	26.8	31.6	15.6	23.6	50	−13	16	21	89	76	.106	.118	1.67	.83	5.4	5.5	5.2
March	29.458	29.816	29.109	36.7	46.5	51.2	33.9	42.6	76	13	33	36	87	69	.201	.228	2.06	1.10	5.9	6.0	6.1
April	29.239	29.603	28.681	45.7	55.2	61.3	42.1	51.7	78	31	38	40	74	60	.234	.262	3.42	1.54	5.9	5.9	5.7
May	29.323	29.734	28.942	58.3	68.3	73.3	55.2	64.2	85	35	50	52	76	59	.392	.411	5.52	2.29	5.5	5.8	5.5
June	29.312	29.640	29.050	60.6	71.1	75.3	56.9	66.1	91	41	56	58	84	65	.451	.494	2.28	1.04	4.7	5.3	5.0
July	29.318	29.536	28.913	68.5	79.2	84.2	64.6	74.4	95	55	63	64	82	62	.584	.613	4.47	1.44	3.1	5.2	3.7
August	29.308	29.541	29.102	65.2	74.6	79.2	62.2	70.7	94	53	61	62	85	66	.539	.568	4.68	2.21	5.5	5.3	5.4
September	29.392	29.615	29.032	58.0	66.7	73.4	54.3	63.8	86	40	53	56	84	71	.422	.474	7.09	3.54	4.3	4.3	4.6
October	29.422	29.879	28.818	46.9	56.5	63.3	45.0	54.2	82	32	42	44	84	63	.280	.305	2.27	1.52	3.5	2.5	3.6
November	29.448	29.954	28.752	32.1	37.5	44.1	28.4	36.2	68	9	27	27	82	66	.165	.169	.70	.53	4.9	3.8	5.0
December	29.403	29.890	28.931	17.3	22.4	29.2	11.6	20.4	44	−15	14	15	85	72	.087	.089	.78	.43	5.9	4.5	6.3
Year	29.364	29.954	28.666	44.1	52.6	58.2	40.6	49.4	95	−15	39	41	83	68	.298	.321	35.73	3.54	5.0	4.9	5.2

DENVER, COLO.

[λ=39° 45′ N.; φ=105° 0′ W.]

January	24.639	24.964	24.190	28.3	37.8	46.4	23.1	34.8	66	9	15	20	60	49	.084	.105	.12	.10	2.5	5.4	4.4
February	24.672	25.040	24.304	16.8	25.0	33.4	12.0	22.7	55	−10	10	16	75	68	.069	.090	.42	.16	3.9	4.2	4.2
March	24.674	24.940	24.325	28.6	41.9	49.3	26.5	37.9	72	10	22	27	78	58	.119	.152	.87	.69	4.2	5.6	5.3
April	24.635	25.008	24.264	38.1	54.6	60.0	36.2	48.1	75	18	25	29	62	48	.138	.163	.81	.29	4.4	5.8	4.7
May	24.651	25.088	24.210	44.0	62.1	67.6	42.2	54.9	84	32	33	32	67	36	.192	.184	.75	.39	3.1	6.5	5.4
June	24.789	25.024	24.475	52.5	68.4	73.6	51.4	62.5	95	41	45	46	78	49	.303	.321	1.62	.60	5.5	6.8	6.8
July	24.772	24.921	24.410	60.8	79.0	87.2	59.8	73.5	95	42	47	48	64	36	.332	.339	1.36	.47	3.6	6.0	4.6
August	24.784	24.986	24.546	58.7	79.7	86.6	58.0	72.3	97	48	48	46	69	34	.340	.322	1.35	.64	2.5	5.3	4.2
September	24.754	25.100	24.394	48.1	68.0	74.2	47.1	60.6	91	32	36	38	65	38	.221	.245	.56	.21	4.4	4.4	4.5
October	24.821	25.081	24.559	39.7	59.4	66.5	38.6	52.6	84	21	28	31	63	39	.152	.179	1.34	.86	3.0	3.5	3.3
November	24.750	25.033	24.240	30.3	45.0	54.6	27.6	41.1	74	3	21	29	69	55	.115	.162	.07	.04	3.4	3.3	4.0
December	24.756	24.968	24.160	28.7	39.6	49.4	23.2	36.3	63	3	18	27	62	60	.096	.145	.23	.14	2.5	2.2	2.7
Year	24.725	25.100	24.160	39.6	55.0	62.4	37.1	49.8	97	−10	29	32	68	47	.180	.201	9.50	.86	3.6	4.9	4.5

DES MOINES, IOWA.

[λ=41° 35′ N.; φ=93° 37′ W.]

January	29.076	29.450	28.537	21.4	27.9	33.9	17.0	25.4	49	− 3	18	21	84	75	.102	.118	.20	.06	5.1	4.6	5.7
February	29.216	29.655	28.550	15.9	26.1	31.1	13.0	22.0	46	−13	12	19	85	74	.084	.110	1.12	.75	4.5	4.9	5.5
March	29.200	29.535	28.905	34.6	43.9	49.5	31.6	40.6	74	15	31	35	86	73	.180	.215	1.09	.67	6.6	6.5	6.3
April	28.997	29.384	28.452	45.0	55.9	61.7	40.8	51.2	78	29	38	38	76	64	.287	.247	1.64	.50	6.1	6.3	6.1
May	29.033	29.418	28.689	57.3	66.6	71.6	53.9	62.8	83	31	51	52	80	63	.396	.418	10.64	5.02	6.5	6.8	6.6
June	29.083	29.450	28.737	60.2	70.8	74.8	56.8	65.8	92	43	55	54	84	59	.441	.438	3.06	1.56	5.1	5.2	5.8
July	29.067	29.274	28.707	68.3	79.0	84.1	64.5	74.3	94	55	63	62	82	58	.577	.570	3.62	1.42	4.4	5.6	5.0
August	29.066	29.263	28.818	68.9	74.4	79.2	61.1	70.2	92	50	60	63	88	68	.527	.582	6.72	3.19	5.1	4.6	6.2
September	29.121	29.348	28.679	54.8	65.1	71.9	51.9	61.9	84	39	50	56	85	72	.376	.462	1.62	.53	4.8	4.2	5.7
October	29.171	29.609	28.429	45.0	57.1	64.9	42.7	53.8	82	29	40	42	84	61	.268	.292	1.32	.60	3.8	3.0	4.7
November	29.202	29.640	28.512	32.0	38.0	44.1	28.2	36.2	69	10	25	27	76	64	.154	.168	.31	.25	5.3	3.9	5.7
December	29.168	29.667	28.742	18.1	24.9	33.8	11.4	22.6	55	− 9	15	14	79	62	.081	.090	.09	.04	4.5	3.1	7.0
Year	29.117	29.667	28.429	43.0	52.5	58.4	39.4	48.9	94	−13	38	40	82	65	.285	.309	31.45	3.19	5.2	4.8	5.9

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

CORPUS CHRISTI, TEX.

[H=20 ft.; h_t=48 ft.; h_r=38 ft.; h_a=53 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.	Precipitation. 0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurorus.
	Miles.		*Mi.*																								
January	10.0	S.	30	N.	0	9	8	7	7	11	4	6	10	0	16	6	9	9	5	0	0	4	0	0	0	1	0
February	11.2	N.	38	NW.	0	16	9	10	6	6	1	1	7	0	5	6	17	13	11	0	0	3	0	0	2	2	0
March	10.4	N.	37	SE.	0	21	8	6	18	2	1	0	7	1	5	10	16	14	11	0	0	6	0	0	0	3	0
April	12.8	SE.	42	E.	1	8	5	5	31	5	1	3	2	0	7	17	6	3	3	0	0	6	0	0	0	1	0
May	12.9	SE.	42	E.	1	5	1	3	36	9	4	1	3	0	9	18	4	6	1	0	1	1	0	0	0	6	0
June	10.1	SE.	34	NE.	0	9	9	6	24	5	3	2	2	0	12	10	8	10	7	0	0	0	0	0	0	5	0
July	10.1	SE.	38	E.	0	2	1	4	36	15	3	0	1	0	18	10	3	7	7	0	0	0	0	0	0	7	0
August	9.9	SE.	36	N.	0	2	5	4	30	14	5	0	2	0	16	13	2	11	8	0	0	0	0	1	0	7	0
September	10.6	SE.	29	E.	0	6	5	10	26	10	1	2	0	0	17	13	0	4	2	0	0	0	0	2	0	8	0
October	8.9	SE.	31	N.	0	13	5	14	19	4	0	0	7	0	14	12	5	12	5	0	0	1	0	0	0	4	0
November	9.3	N.	27	N.	0	16	10	10	15	6	1	0	2	0	11	12	7	5	2	0	0	1	0	0	0	4	0
December	8.8	N.	29	N.	0	18	3	12	11	7	1	2	8	0	7	12	12	8	4	0	0	2	0	0	0	0	0
Year	10.4	SE.	42	E.	2	125	69	91	257	94	25	17	51	1	137	139	89	102	66	0	1	18	0	3	2	43	0

DAVENPORT, IOWA.

[H=606 ft.; h_t=71 ft.; h_r=64 ft.; h_a=79 ft.]

January	8.4	W.	34	W.	0	1	6	5	6	7	11	20	6	0	9	5	17	6	4	6	0	2	13	0	27	0	0
February	8.5	W.	32	NE.	0	5	5	3	2	6	11	15	9	0	11	7	10	6	4	5	0	1	15	0	25	0	0
March	7.6	S.	32	W.	0	7	7	9	3	13	7	11	5	0	8	8	15	12	10	2	0	2	0	0	14	3	0
April	9.8	N.	28	W.	0	10	4	8	3	13	4	11	7	0	10	10	10	13	10	3	0	0	0	0	1	3	0
May	8.4	S.	27	W.	0	2	15	12	9	14	2	7	1	0	7	16	8	14	12	0	0	0	0	0	0	12	0
June	6.4	W.	21	NE.	0	8	15	6	2	3	5	13	7	1	13	7	10	6	6	0	0	0	0	1	0	2	0
July	6.8	W.	32	NW.	0	6	6	7	8	7	8	11	10	0	13	16	2	11	10	0	0	0	0	7	0	11	0
August	6.2	SW.	27	S.	0	5	6	8	5	13	9	8	8	0	11	9	11	8	7	0	0	0	0	3	0	7	0
September	6.9	S.	30	S.	0	3	4	5	8	17	11	8	3	1	14	6	10	11	9	0	0	0	0	0	0	7	0
October	7.0	SW.	34	W.	0	2	4	14	5	3	15	10	8	1	15	9	7	7	4	0	0	0	0	0	0	3	0
November	8.0	W.	30	W.	0	4	5	8	4	10	4	11	14	0	10	11	9	8	8	0	0	2	8	0	21	1	0
December	8.7	W.	29	N.	0	2	2	4	8	4	11	19	17	0	7	9	15	5	4	4	0	0	19	0	31	0	0
Year	7.7	W.	34	W.	0	54	79	89	58	110	98	144	95	3	128	113	124	102	83	20	0	7	55	11	119	49	0

DENVER, COLO.

[H=5,291 ft.; h_t=79 ft.; h_r=74 ft.; h_a=151 ft.]

January	9.1	S.	45	NW.	2	7	0	4	8	18	11	3	11	0	15	8	8	3	1	3	0	0	3	0	25	0	0
February	8.0	S.	38	NW.	0	8	15	2	2	12	7	3	7	0	14	6	8	8	3	8	0	0	12	0	28	0	0
March	7.0	S.	51	N.	1	16	12	3	2	14	10	3	2	0	10	11	10	4	2	4	0	5	4	0	23	0	0
April	9.0	S.	48	NW.	1	8	11	4	1	13	7	5	11	0	9	13	8	6	4	5	0	0	1	0	10	0	0
May	8.9	S.	48	NE.	4	6	15	4	2	14	10	4	7	0	8	16	7	10	5	1	1	0	0	0	1	3	0
June	6.6	NE.	29	SW.	0	16	13	4	3	11	3	4	6	0	5	13	12	12	9	0	1	0	0	2	0	9	0
July	8.3	S.	37	W.	0	9	3	4	3	16	16	5	6	0	10	19	2	6	4	0	2	0	0	14	0	15	0
August	7.5	S.	42	W.	2	5	7	7	3	19	14	4	3	0	14	12	5	9	6	0	2	0	0	9	0	12	0
September	7.8	S.	36	NE.	0	13	10	3	3	22	4	1	4	0	12	13	5	5	5	0	0	0	0	2	0	3	0
October	8.0	S.	42	SW.	3	8	11	5	4	18	11	2	3	0	18	9	4	6	4	2	0	0	0	0	3	0	0
November	7.9	S.	45	NW.	3	3	9	3	3	17	15	8	2	0	15	12	3	2	1	2	0	1	2	0	22	0	0
December	9.0	S.	54	NW.	2	7	5	3	8	17	9	8	5	0	22	8	1	4	2	4	0	0	2	0	29	0	0
Year	8.1	S.	54	NW.	18	106	111	46	42	191	117	59	67	0	152	140	73	75	46	29	6	6	24	27	141	42	0

DES MOINES, IOWA.

[H=861 ft.; h_t=84 ft.; h_r=75 ft.; h_a=99 ft.]

January	8.8	NW.	48	NW.	1	4	5	2	8	10	9	4	20	0	12	6	13	5	3	3	0	0	12	0	29	0	0
February	9.7	SW.	32	NW.	0	8	9	2	2	4	11	6	14	0	6	14	8	6	4	4	0	0	15	0	25	0	0
March	8.6	SW.	34	SW.	0	7	5	5	9	9	13	6	7	1	7	12	12	11	6	4	0	0	0	0	18	2	0
April	10.8	N.	38	S.	0	17	3	4	7	11	5	4	8	1	6	13	11	9	8	1	0	0	0	0	2	4	0
May	10.1	S.	48	SW.	2	2	7	10	12	17	9	4	1	0	3	19	9	20	19	0	1	0	0	0	2	18	0
June	6.8	SW.	28	W.	0	11	6	10	4	4	13	2	10	0	5	17	8	12	11	0	0	0	0	0	1	5	0
July	7.4	SW.	29	NW.	0	6	7	8	5	10	15	4	7	0	8	19	4	10	7	0	0	0	0	5	0	7	0
August	6.7	SW.	30	W.	0	8	2	9	7	6	13	9	8	0	5	15	11	13	12	0	2	1	0	2	0	10	0
September	8.7	SW.	37	S.	0	6	3	2	4	21	14	3	7	0	11	6	13	12	9	0	1	0	0	0	0	6	0
October	8.4	NW.	42	SW.	1	5	3	8	9	10	9	5	13	0	13	10	8	6	4	0	1	0	0	0	3	2	0
November	9.4	NW.	35	W.	0	6	8	5	5	10	8	6	12	0	9	10	11	2	2	0	0	0	6	0	22	0	0
December	9.7	NW.	36	NW.	0	7	3	3	5	6	12	10	16	0	5	9	17	3	1	3	0	0	14	0	31	0	0
Year	8.7	SW.	48	SW	4	87	61	68	77	118	131	68	123	2	90	150	125	109	86	15	5	1	47	8	132	49	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

DETROIT, MICH.

[λ=42° 20′ N.; φ=83° 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	29.121	29.654	28.327	21.9	26.0	29.9	18.3	24.1	53	− 5	20	22	90	84	.113	.125	1.63	.53	8.6	7.5	7.8
February	29.235	29.736	28.406	22.7	2 .6	31.5	19.7	25.6	50	− 4	20	22	89	82	.118	.125	3.19	1.03	5.8	6.2	6.1
March	29.360	29.716	28.978	36.9	42.7	48.8	34.1	41.4	73	19	34	38	88	82	.202	.236	1.36	.36	6.6	6.0	6.7
April	29.126	29.597	28.635	42.6	48.0	55.4	38.4	46.9	79	22	36	38	78	71	.217	.239	5.51	2.06	5.5	5.6	5.0
May	29.293	29.638	28.926	55.4	63.3	70.4	51.1	60.8	87	28	46	48	72	59	.328	.349	1.55	.59	3.9	4.3	3.9
June	29.148	29.483	28.816	59.6	65.5	70.4	55.2	62.8	86	47	53	57	81	76	.415	.474	6.32	3.14	6.7	5.7	6.5
July	29.184	29.444	28.819	67.8	75.1	81.5	63.7	72.6	92	50	61	61	79	62	.542	.544	4.59	2.70	4.7	3.4	4.3
August	29.192	29.534	28.977	63.4	69.3	74.7	60.0	67.4	84	47	58	60	82	74	.486	.524	4.27	1.64	5.8	5.0	5.8
September	29.311	29.580	28.967	58.7	65.2	73.0	55.2	64.1	88	41	54	57	85	76	.445	.495	2.78	1.08	3.7	3.1	4.6
October	29.278	29.650	28.775	47.8	53.9	61.0	45.2	53.1	75	28	42	46	82	74	.291	.323	1.67	1.20	4.0	3.9	4.7
November	29.269	29.864	28.528	32.9	36.8	43.0	29.9	36.4	71	13	29	30	84	76	.170	.179	1.18	.66	7.1	5.4	6.6
December	29.189	29.565	28.625	20.9	23.7	28.1	16.8	22.4	39	1	18	20	88	86	.101	.112	1.88	.93	7.6	7.0	8.2
Year	29.226	29.864	28.327	44.2	49.7	55.6	40.6	48.1	92	− 5	39	42	83	75	.286	.310	35.88	3.14	5.8	5.3	5.8

DODGE CITY, KANS.

[λ=37° 45′ N.; φ=100° 00′ W.]

January	27.386	27.722	26.899	23.9	36.0	46.6	20.3	33.4	70	5	21	24	88	61	.113	.127	.08	.04	2.7	2.9	5.6
February	27.461	27.840	26.965	18.7	27.6	37.4	15.0	26.2	65	−18	17	21	90	77	.097	.116	2.87	.89	5.3	4.0	5.0
March	27.445	27.766	27.101	30.9	45.1	52.2	27.6	39.9	76	− 9	28	33	90	66	.167	.200	.67	.43	4.5	4.6	5.3
April	27.327	27.830	26.802	42.7	59.8	67.6	39.5	53.6	86	25	35	37	77	48	.212	.233	1.97	1.49	3.4	4.4	4.6
May	27.306	27.664	26.956	53.3	63.6	71.7	49.1	60.4	87	34	49	52	87	69	.367	.401	2.88	.69	6.0	6.7	6.2
June	27.430	27.777	27.090	59.3	71.3	76.7	55.0	66.8	97	41	55	55	85	57	.433	.435	1.49	.83	5.8	6.1	6.5
July	27.366	27.574	27.065	68.9	85.8	92.7	65.8	79.2	105	50	60	59	76	43	.585	.509	.59	.39	3.8	3.2	3.4
August	27.385	27.590	27.132	66.9	82.6	89.4	64.3	76.8	103	54	61	60	82	49	.589	.533	2.21	1.29	3.9	3.2	3.6
September	27.402	27.728	27.039	56.2	72.4	81.4	53.0	67.2	95	32	49	48	77	45	.365	.251	.15	.14	3.5	3.0	3.2
October	27.468	27.825	26.805	45.4	61.1	71.6	43.3	57.4	90	27	38	38	76	47	.242	.242	1.28	.68	4.4	2.9	4.0
November	27.475	27.960	26.902	32.1	43.7	55.1	29.9	42.5	77	5	26	30	80	60	.153	.181	1.03	.53	3.4	3.7	5.3
December	27.485	27.850	26.837	24.7	37.2	51.6	20.9	36.0	66	8	18	20	77	50	.100	.108	.05	.06	2.2	1.3	2.8
Year	27.411	27.980	26.802	43.6	57.2	66.1	40.3	53.2	105	−18	38	40	82	56	.277	.286	15.27	1.49	4.1	3.8	4.6

DUBUQUE, IOWA.

[λ=42° 30′ N.; φ=90° 44′ W.]

January	29.205	29.632	28.518	18.8	23.4	29.5	15.3	22.4	45	− 5	15	17	83	73	.091	.098	.17	.04	6.8	5.6	6.8
February	29.342	29.734	28.630	17.1	24.7	30.8	14.0	22.4	49	−14	14	17	83	71	.093	.098	1.19	0.55	6.0	4.4	6.1
March	29.368	29.713	28.994	34.5	41.9	47.6	31.6	39.6	75	11	30	33	83	72	.176	.200	1.84	.40	5.7	5.9	7.2
April	29.164	29.499	28.575	43.6	53.1	59.3	39.8	49.6	75	28	35	38	72	58	.212	.238	3.29	.99	6.7	6.1	6.6
May	29.248	29.612	28.811	56.8	66.0	72.0	53.5	62.8	83	33	48	51	74	61	.371	.397	4.25	2.28	7.0	5.4	6.7
June	29.242	29.583	28.955	58.9	70.0	74.4	54.8	64.6	87	40	52	53	79	57	.399	.421	2.16	.68	5.4	4.5	4.9
July	29.237	29.478	28.864	66.9	76.7	82.0	62.9	72.4	91	53	60	61	80	60	.539	.552	7.10	2.41	4.5	4.4	4.8
August	29.234	29.444	29.010	63.2	71.1	77.1	59.7	68.4	90	51	59	60	86	70	.507	.538	5.27	1.22	6.5	5.4	5.3
September	29.301	29.507	28.890	55.9	64.1	71.5	52.0	61.8	84	35	51	54	84	71	.390	.443	3.20	.78	4.4	4.4	4.2
October	29.335	29.804	28.651	44.9	54.2	61.9	42.8	52.4	81	28	40	42	82	64	.260	.281	1.72	.90	4.8	2.7	3.6
November	29.355	29.841	28.627	29.6	36.1	42.3	26.5	34.4	70	7	25	25	84	63	.148	.152	.75	.69	4.6	4.6	4.9
December	29.300	29.753	28.856	15.1	19.8	27.6	9.2	18.4	46	−17	12	12	88	71	.084	.080	.85	.26	5.8	4.8	5.5
Year	29.278	29.841	28.518	42.1	50.1	56.3	38.5	47.4	91	−17	37	39	82	66	.272	.292	31.79	2.41	5.7	4.8	5.6

DULUTH, MINN.

[λ=46° 47′ N.; φ=92° 6′ W.]

January	29.145	29.587	28.342	9.7	15.0	20.9	4.1	12.5	36	−14	6	10	82	77	.060	.072	.83	.31	4.9	4.5	5.4
February	29.298	29.708	28.717	7.6	17.5	23.8	5.0	14.4	40	−24	2	10	77	71	.056	.078	.67	.19	3.9	2.6	3.9
March	29.328	29.716	28.973	25.7	33.0	36.9	23.5	30.2	57	− 1	20	25	79	72	.115	.134	1.87	.80	5.1	5.6	6.3
April	29.195	29.608	28.533	36.5	42.1	46.3	33.8	40.0	73	22	27	28	70	59	.152	.154	2.16	.57	5.7	4.5	5.5
May	29.248	29.700	28.816	44.6	49.8	53.9	40.6	47.2	70	28	38	38	80	68	.239	.243	3.54	.92	4.5	5.5	5.9
June	29.241	29.659	28.883	55.6	61.3	68.2	49.9	59.0	83	40	47	47	74	61	.332	.325	.79	.22	4.3	3.5	4.4
July	29.178	29.492	28.812	60.5	68.1	72.8	55.8	64.3	92	46	54	54	80	68	.421	.428	3.50	.71	3.7	4.0	5.4
August	29.234	29.495	28.866	56.8	61.5	66.2	54.5	60.4	85	49	51	51	83	72	.385	.383	3.80	1.01	5.4	4.6	6.0
September	29.213	29.513	28.656	45.9	56.9	62.2	47.3	54.8	84	35	43	44	80	63	.287	.297	4.76	2.04	5.7	5.3	5.9
October	29.245	29.788	28.385	42.7	49.9	56.3	40.6	48.4	73	30	35	37	74	63	.210	.226	3.84	1.69	3.9	3.3	4.5
November	29.290	29.737	28.632	24.8	29.6	35.3	21.5	28.4	73	− 4	19	21	76	71	.117	.124	.95	.45	5.8	3.9	5.4
December	29.212	29.586	28.733	7.3	11.2	17.5	1.8	9.6	32	−23	2	6	77	76	.053	.059	1.30	.58	4.6	4.3	5.2
Year	29.236	29.788	28.342	35.1	41.3	46.7	31.5	39.1	92	−24	29	31	78	68	.202	.210	28.01	2.04	4.8	4.3	5.3

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

DETROIT, MICH.

[H=730 ft.; h_t=153 ft.; h_r=147 ft.; h_a=193 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	12.6	W.	40	W.	1	4	5	0	4	5	19	19	6	0	2	9	20	18	7	14	0	2	14	0	27	0	0
February	13.8	SW.	41	W.	2	8	4	1	4	2	19	15	3	0	9	6	13	10	9	7	0	2	13	0	23	0	0
March	11.6	SW.	50	SW.	1	6	11	8	5	8	13	7	4	0	6	9	16	12	9	2	0	3	1	0	10	2	0
April	13.7	NE.	41	SW.	2	12	10	9	4	2	12	6	5	0	13	7	10	13	10	2	1	0	0	0	3	3	0
May	10.7	NE.	48	SW.	1	2	19	5	14	7	9	3	3	0	13	12	6	8	6	0	1	0	0	0	1	7	0
June	9.9	NE.	30	SW.	0	9	17	8	1	1	7	12	5	0	5	13	12	16	15	0	1	0	0	0	0	5	0
July	9.5	W.	40	SE.	1	7	5	3	7	5	8	11	16	0	9	20	2	12	10	0	0	0	0	1	0	9	0
August	9.8	NE.	31	NW.	0	5	14	10	1	4	7	13	8	0	7	15	9	13	11	0	0	0	0	0	0	6	0
September	10.2	SW.	31	NW.	0	6	2	2	7	16	13	9	4	1	10	14	6	9	8	0	0	1	0	0	0	5	0
October	11.8	SW.	41	S.	1	8	3	2	3	5	18	14	9	0	13	7	11	7	5	0	0	0	0	0	2	4	0
November	11.3	SW.	36	SW.	0	6	2	2	0	9	18	16	7	0	5	7	18	11	5	8	0	3	10	0	16	1	0
December	13.2	SW.	36	SW.	0	3	4	0	3	6	19	21	6	0	2	6	23	12	6	10	0	3	18	0	30	0	0
Year	11.5	SW.	50	SW.	9	76	96	50	53	70	162	146	76	1	94	125	146	141	101	43	3	14	56	1	112	42	0

DODGE CITY, KANS.

[H=2,509 ft.; h_t=44 ft.; h_r=36 ft.; h_a=54 ft.]

January	10.4	S.	36	NW.	0	8	3	2	10	9	2	10	18	0	9	11	11	4	1	3	0	1	3	0	31	0	0
February	10.5	NE.	42	SW.	1	10	11	5	5	3	4	6	11	1	14	1	13	10	8	10	0	0	14	0	28	0	0
March	12.4	SE.	50	S.	1	14	2	1	17	11	4	5	8	0	11	8	12	4	3	1	1	6	2	0	20	2	0
April	15.7	SE.	48	S.	6	11	3	3	11	10	2	7	13	0	15	6	9	6	5	3	0	0	0	0	5	3	0
May	16.5	S.	72	S.	9	11	5	2	21	11	1	2	9	0	8	9	14	16	14	0	3	1	0	0	0	8	0
June	9.0	S.	36	NW.	0	10	7	7	11	14	1	2	8	0	8	6	16	8	7	0	0	1	0	4	0	6	0
July	11.9	S.	40	NW.	1	6	5	7	19	18	3	3	1	0	20	6	5	7	4	0	0	1	0	21	0	11	0
August	11.5	S.	39	S.	0	5	4	9	22	17	2	2	1	0	16	12	3	11	5	0	0	0	0	15	0	13	0
September	13.2	SE.	44	S.	2	11	6	1	20	16	2	3	1	0	19	6	5	2	1	0	0	2	0	8	0	2	0
October	10.5	SE.	44	SE.	2	9	8	6	14	5	2	5	13	0	17	6	8	7	5	0	0	0	0	0	2	4	0
November	10.2	N.	38	NW.	0	9	5	3	15	6	2	7	13	0	11	7	12	5	3	1	0	1	1	0	17	0	0
December	9.5	W.	39	SE.	0	8	3	3	11	5	3	16	13	0	22	4	5	2	1	0	0	0	2	0	31	0	0
Year	11.8	S.	72	S.	22	112	62	49	176	125	28	68	109	1	170	82	113	82	57	18	4	13	22	48	134	49	0

DUBUQUE, IOWA.

[H=698 ft.; h_t=100 ft.; h_r=95 ft.; h_a=117 ft.]

January	7.7	NW.	35	NW.	0	1	4	2	10	9	8	4	24	0	9	5	17	7	1	6	0	2	18	0	29	0	0
February	8.0	NW.	32	NW.	0	5	3	2	4	8	9	7	18	0	9	6	13	8	5	6	0	1	15	0	25	0	0
March	6.7	SE.	26	SW.	0	2	3	6	15	8	6	7	15	0	7	4	20	12	11	3	0	5	0	0	13	3	0
April	10.1	N.	34	NW.	0	13	7	2	11	11	3	3	10	0	8	5	17	15	11	1	0	0	0	0	2	5	0
May	7.1	SE.	28	S.	0	2	10	6	23	8	4	2	6	1	6	9	16	18	12	0	0	0	0	0	0	12	0
June	5.2	NW.	22	NW.	0	4	11	7	3	4	5	7	18	1	14	8	8	11	8	0	0	0	0	0	0	3	0
July	6.3	NW.	38	NW.	0	7	4	4	12	4	6	10	15	0	10	15	6	9	8	0	0	1	0	1	0	9	0
August	5.9	NW.	24	NW.	0	5	6	5	11	11	7	1	16	0	10	12	9	14	10	0	1	1	0	1	0	9	1
September	7.1	S.	28	SE.	0	4	3	1	14	19	4	3	12	0	15	8	7	12	12	0	0	2	0	0	0	8	0
October	6.1	NW.	30	NW.	0	3	3	4	11	9	12	4	16	0	18	9	4	5	4	0	0	0	0	0	1	2	0
November	7.8	NW.	32	NW.	0	3	3	1	16	6	7	6	18	0	11	12	7	4	2	2	0	3	8	0	21	0	0
December	7.8	NW.	26	NW.	0	2	0	1	7	11	5	15	21	0	12	9	10	11	5	10	0	0	19	0	31	0	0
Year	7.2	NW.	38	NW.	0	51	57	41	137	108	76	69	189	2	129	102	134	126	89	28	1	15	60	2	122	51	1

DULUTH, MINN.

[H=702 ft.; h_t=95 ft.; h_r=90 ft.; h_a=116 ft.]

January	9.9	NW.	51	NW.	2	3	4	1	5	4	12	15	18	0	8	15	8	10	6	10	0	0	27	0	31	0	0
February	11.6	SW.	56	NW.	2	1	8	0	3	1	20	7	16	0	14	10	4	9	7	9	0	0	20	0	28	0	0
March	10.0	NE.	32	NE.	0	9	22	8	2	1	8	7	5	0	9	9	13	13	10	9	0	3	7	0	27	2	0
April	11.6	NE.	38	SW.	0	11	23	8	0	0	5	7	5	1	11	8	11	11	10	4	0	1	1	0	7	0	0
May	8.0	NE.	36	SW.	0	5	45	0	2	0	3	3	2	2	10	10	11	16	13	2	0	5	0	0	1	5	0
June	8.2	NE.	30	NW.	0	5	31	3	3	1	4	5	8	0	14	13	3	10	7	0	0	0	0	0	0	4	0
July	8.7	NE.	35	W.	0	7	21	2	0	1	13	5	13	0	7	18	6	15	12	0	0	2	0	1	0	10	0
August	10.4	NE.	38	NE.	0	5	32	3	1	0	8	4	8	1	8	13	10	14	11	0	0	3	0	0	0	5	1
September	11.0	NE.	41	SW.	1	8	15	0	0	0	19	3	15	0	7	13	10	10	10	0	0	0	0	0	0	2	0
October	10.2	SW.	39	NW.	0	7	10	1	0	3	20	13	8	0	13	12	6	11	9	0	0	0	0	0	1	2	2
November	11.2	SW.	48	NW.	3	2	6	1	1	4	16	13	16	1	10	12	8	6	5	6	0	0	13	0	24	0	0
December	10.3	SW.	43	NW.	2	3	0	2	1	3	25	10	18	0	10	12	9	11	9	11	0	0	30	0	31	0	1
Year	10.1	NE.	56	NW.	10	66	217	29	18	18	153	92	132	5	121	145	99	136	109	51	0	14	98	1	150	30	4

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

EASTPORT, ME.

[λ=44° 54′ N.; φ=66° 59′ 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	29.723	30.499	28.963	18.4	22.1	28.5	13.8	21.2	45	14	15	18	83	82	.099	.111	3.85	1.10	5.7	8.7	5.7
February	29.773	30.284	28.789	18.7	23.7	29.1	15.2	22.2	52	− 7	14	19	81	81	.091	.112	4.01	.88	4.8	4.2	5.5
March	30.109	30.633	29.354	32.1	34.3	40.3	28.2	34.2	49	4	28	30	85	83	.161	.167	4.98	1.14	6.1	3.9	6.1
April	29.788	30.224	29.298	36.5	40.1	46.0	32.8	39.4	72	17	31	34	81	81	.180	.203	3.38	1.04	6.0	4.6	6.2
May	30.031	30.451	29.594	46.0	47.4	56.8	41.0	48.9	76	28	41	42	82	80	.262	.268	2.52	1.81	3.7	2.8	4.5
June	29.922	30.269	29.639	51.6	52.4	59.4	46.8	53.1	75	41	48	48	88	87	.334	.343	1.69	.94	5.3	5.5	6.8
July	29.749	30.033	29.404	57.1	58.2	67.3	51.5	59.4	84	45	54	54	89	88	.414	.425	3.85	1.36	6.1	4.8	6.9
August	29.911	30.269	29.402	55.6	57.3	65.0	51.0	58.0	73	47	50	52	93	82	.366	.384	1.14	.44	4.0	3.2	5.2
September	29.977	30.378	29.491	55.2	56.3	65.2	49.8	57.5	85	38	51	51	86	84	.384	.385	1.62	.47	3.6	2.2	4.8
October	29.918	30.305	29.160	46.0	47.3	52.5	42.2	47.4	71	27	41	41	82	79	.269	.269	2.83	1.21	6.4	5.3	6.4
November	29.849	30.037	29.286	34.6	36.1	41.2	29.9	35.6	64	13	29	31	79	81	.173	.182	3.59	.76	6.1	5.5	7.1
December	29.807	30.284	28.980	20.9	23.6	30.4	15.2	22.8	51	− 6	16	19	81	79	.108	.109	3.26	1.03	5.6	5.2	6.2
Year	29.879	30.637	28.789	39.4	41.6	48.5	34.8	41.6	85	−14	35	37	83	82	.237	.246	36.67	1.81	5.3	4.2	6.0

ELKINS, W. VA.

[λ=38° 53′ N.; φ=79° 49′ W.]

January	27.901	28.251	27.330	25.7	30.7	39.2	20.6	29.9	68	3	22	24	84	75	.130	.140	3.79	.93	7.7	6.3	7.7
February	27.992	28.429	27.232	27.4	33.4	44.5	20.1	32.3	63	− 5	23	26	83	75	.146	.163	5.72	1.23	7.2	5.5	6.8
March	28.108	28.406	27.607	42.0	49.1	59.3	37.9	48.6	77	16	38	40	86	72	.243	.265	3.64	1.11	7.5	4.9	7.0
April	27.872	28.320	27.373	42.5	51.0	60.9	35.7	48.3	84	14	37	39	83	66	.228	.242	3.38	.77	6.8	6.9	6.6
May	28.088	28.268	27.935	55.3	63.2	75.3	46.0	60.6	85	27	50	50	82	64	.371	.375	5.37	1.67	5.6	4.5	5.2
June	27.931	28.237	27.671	57.1	62.6	71.5	51.1	61.3	82	40	53	55	86	78	.411	.445	5.51	1.34	8.2	6.5	7.1
July	28.014	28.221	27.753	64.2	70.3	81.8	56.3	69.0	90	44	60	62	88	75	.527	.554	3.60	1.71	6.3	5.0	5.5
August	27.999	28.310	27.830	62.4	68.7	80.2	56.6	68.4	90	45	59	63	90	82	.508	.572	2.48	.59	6.9	4.5	6.2
September	28.139	28.368	27.790	50.9	61.2	76.6	46.3	61.4	88	32	49	55	94	81	.369	.448	1.69	.93	3.9	1.4	4.7
October	28.070	28.366	27.766	42.7	50.7	63.4	39.0	51.2	84	29	39	43	88	75	.260	.298	1.79	1.00	5.3	3.9	5.6
November	28.040	28.528	27.559	28.4	36.0	46.9	24.3	35.6	72	5	25	28	86	74	.148	.172	2.71	1.22	5.7	6.2	6.7
December	27.971	28.335	27.460	19.0	26.0	35.4	14.2	24.8	55	− 2	14	20	81	76	.087	.108	2.16	.83	7.0	5.5	6.5
Year	28.010	28.528	27.232	43.1	50.2	61.2	37.3	49.3	90	− 5	39	42	86	74	.286	.315	41.84	1.71	6.5	5.1	6.3

EL PASO, TEX.

[λ=31° 47′ N.; φ=106° 30′ W.]

January	26.206	26.491	25.922	35.6	51.5	57.9	33.8	45.8	75	23	26	25	68	38	.137	.134	.61	.48	2.5	3.2	3.7
February	26.130	26.439	25.801	33.7	50.2	56.1	31.9	43.6	73	14	25	23	72	39	.136	.128	1.09	.87	3.7	3.5	4.4
March	26.168	26.491	25.877	42.1	64.1	68.0	40.7	54.4	82	25	26	22	53	22	.143	.124	.15	.11	2.1	3.7	3.7
April	26.110	26.484	25.889	52.6	73.0	78.2	51.1	64.6	88	40	31	23	46	18	.183	.130	.54	.54	3.4	3.6	3.9
May	26.090	26.343	25.891	66.0	78.1	83.4	55.5	69.4	91	45	36	27	48	20	.217	.162	.29	.26	1.9	3.2	2.5
June	26.132	26.324	25.915	63.9	83.8	88.1	62.7	75.4	102	51	50	40	63	27	.363	.256	2.50	1.09	2.4	3.5	2.8
July	26.143	26.276	25.897	70.5	90.8	96.0	69.5	82.8	102	65	51	44	53	24	.388	.313	1.19	.91	1.3	3.5	2.2
August	26.154	26.329	25.955	69.0	84.6	92.1	68.1	80.1	101	62	56	52	65	36	.462	.406	1.73	.47	3.2	6.1	4.4
September	26.182	26.451	25.973	63.0	80.1	86.0	61.5	73.8	96	47	50	45	65	33	.372	.310	3.52	1.48	3.4	3.5	3.7
October	26.240	26.500	25.964	49.2	69.6	78.3	47.5	62.9	89	37	34	32	57	26	.201	.190	.00	.00	.3	.3	.5
November	26.247	26.552	25.987	38.9	61.2	71.5	37.2	54.4	81	24	24	25	58	25	.124	.132	.00	.00	1.1	1.7	1.7
December	26.285	26.544	25.920	32.7	51.0	58.5	30.2	44.4	72	21	18	21	55	30	.099	.114	.01	.01	2.5	4.2	3.6
Year	26.174	26.552	25.801	50.6	69.8	76.2	49.1	62.6	102	14	36	32	58	28	.235	.200	11.63	1.48	2.3	3.3	3.1

ERIE, PA.

[λ=42° 7′ N.; φ=80° 5′ W.]

January	29.148	29.669	28.456	24.4	28.2	32.6	20.4	26.5	58	− 1	21	23	87	80	.122	.134	1.49	.51	7.2	8.0	8.2
February	29.253	29.736	28.418	27.0	27.0	34.7	21.0	27.8	61	− 4	22	23	82	83	.135	.129	3.59	1.00	6.8	5.8	6.6
March	29.393	29.762	29.018	39.3	41.9	49.2	34.8	42.0	77	18	35	37	84	82	.213	.230	2.82	.94	7.0	5.3	6.1
April	29.147	29.649	28.699	44.2	46.1	52.9	38.1	45.5	80	20	37	36	76	70	.222	.219	3.81	1.56	5.4	5.7	5.9
May	29.331	29.655	29.022	57.4	61.6	67.5	51.6	59.6	84	32	48	46	72	59	.346	.330	3.20	2.07	4.1	3.3	3.9
June	29.161	29.522	28.835	60.8	62.4	67.8	55.8	61.8	80	49	53	54	78	76	.416	.427	4.50	1.13	5.9	5.1	5.2
July	29.200	29.474	28.797	69.3	72.0	76.8	63.6	70.2	88	53	61	61	76	70	.553	.549	3.57	1.24	5.4	4.1	4.6
August	29.215	29.610	29.030	65.4	68.0	73.2	60.7	67.0	85	51	58	59	79	74	.499	.508	3.28	1.13	6.2	5.9	5.4
September	29.846	29.634	28.947	61.2	64.8	73.1	56.7	64.9	88	40	54	55	77	71	.429	.454	1.50	.56	4.4	3.7	4.6
October	29.290	29.580	28.816	51.5	54.1	60.1	47.4	53.8	80	35	44	44	77	71	.309	.309	3.70	1.44	6.3	6.2	6.2
November	29.283	29.888	28.754	35.4	38.5	43.3	31.8	37.6	67	18	29	29	77	68	.172	.172	1.87	.78	7.0	6.7	7.6
December	29.214	29.629	28.672	23.2	25.7	30.7	19.3	25.0	49	5	19	20	84	78	.104	.110	2.25	.47	8.4	8.9	8.7
Year	29.248	29.888	28.418	46.6	49.2	55.2	41.8	48.5	88	− 4	40	41	79	74	.293	.298	35.58	2.07	6.2	5.7	6.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

EASTPORT, ME.

[H=76 ft.; h_t=69 ft.; h_r=62 ft.; h_a=82 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.	Precipitation. 0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Maximum temp. Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Electricity. Auroras.
	Miles.		*Mi.*																								
January	13.0	W.	40	S.	1	3	4	1	4	1	11	23	15	0	9	12	10	12	12	8	0	3	14	0	26	0	0
February	16.2	NW.	52	NE.	5	4	3	4	1	3	9	16	16	0	7	11	10	16	11	13	0	3	18	0	27	0	0
March	12.5	SW.	43	NE.	2	6	9	5	5	2	14	9	10	2	10	7	14	17	13	5	0	3	3	0	19	0	0
April	12.9	NW.	42	SW.	2	5	13	4	4	8	9	4	13	0	6	14	10	11	10	6	0	2	1	0	9	0	0
May	10.1	SW.	32	NW.	0	7	8	7	3	10	14	4	9	0	14	11	6	6	6	0	0	3	0	0	1	2	0
June	9.9	NE.	42	NE.	1	1	18	10	4	11	5	5	5	1	6	11	13	8	8	0	0	7	0	0	0	4	0
July	8.2	S.	44	NE.	1	2	2	1	0	23	11	9	10	4	5	13	13	14	10	0	0	0	13	0	0	0	4
August	8.1	S.	42	NE.	1	4	5	4	4	9	11	11	12	2	10	13	8	11	7	0	0	6	0	0	0	2	1
September	8.7	S.	36	SW.	0	4	1	2	0	14	14	9	12	4	11	11	8	8	7	0	0	4	0	0	0	3	2
October	13.2	NW.	50	SE.	1	6	6	5	3	8	12	10	12	0	7	9	15	12	9	2	0	1	0	0	4	1	1
November	11.9	W.	52	NE.	1	11	5	2	3	3	7	16	13	0	6	7	17	12	11	8	0	0	9	0	18	0	1
December	14.7	W.	60	SE.	5	1	8	0	3	1	9	20	19	1	9	7	15	17	13	11	0	1	19	0	31	0	1
Year	11.6	NW.	60	SE.	20	54	82	45	34	93	126	136	146	14	100	126	139	144	117	53	0	46	64	0	135	12	6

ELKINS, W. VA.

[H=1,940 ft.; h_t=41 ft.; h_r=34 ft.; h_a=50 ft.]

January	6.3	W.	34	S.	0	4	0	0	4	9	10	25	4	6	0	15	16	18	17	13	0	2	7	0	27	0	0
February	6.3	W.	40	W.	1	7	0	3	4	5	9	17	7	4	4	13	11	19	15	11	1	2	7	0	21	0	0
March	4.3	N.	29	SE.	0	14	3	3	5	12	5	11	6	3	2	15	14	13	11	1	0	3	0	0	9	0	0
April	4.8	NW.	32	W.	0	13	1	2	1	9	7	9	14	4	7	9	14	14	9	1	0	2	0	0	8	0	0
May	4.0	N.	33	NW.	0	14	1	4	11	12	2	4	7	7	9	17	5	13	11	0	0	1	0	0	3	13	0
June	3.3	N.	16	NW.	0	14	1	1	6	6	8	10	13	1	2	14	14	18	16	0	0	0	0	1	0	5	0
July	3.3	N.	23	NW	0	17	3	3	0	3	8	16	9	3	7	18	6	13	10	0	0	0	0	0	0	5	0
August	2.7	W.	18	N.	0	6	3	5	4	4	5	16	15	4	2	22	7	16	9	0	0	0	12	0	0	6	0
September	2.6	N.	18	W.	0	12	4	2	0	5	10	4	8	15	11	14	5	7	6	0	0	0	21	0	0	0	0
October	3.5	N.	23	S.	0	15	1	0	4	3	5	10	11	13	9	13	9	12	7	0	0	0	6	0	0	1	0
November	3.6	W.	24	W.	0	12	1	0	1	6	4	16	12	8	6	8	16	13	10	6	0	0	2	0	0	2	0
December	5.1	W.	32	W.	0	6	0	0	1	6	11	27	11	0	5	13	13	17	9	13	0	0	7	0	0	0	0
Year	4.2	W.	40	W.	1	134	18	23	41	80	84	165	117	68	64	171	130	173	130	45	2	71	31	1	129	31	0

EL PASO, TEX.

[H=3,762 ft.; h_t=10 ft.; h_r=2 ft.; h_a=110 ft.]

January	11.6	NW.	44	W.	2	0	10	5	0	0	6	15	24	2	15	13	3	4	3	2	0	1	0	0	14	0	0
February	11.4	NE.	45	SW.	5	2	14	11	1	0	3	11	14	0	11	10	7	7	4	4	0	0	0	0	14	1	0
March	11.1	NW.	42	W.	3	0	8	10	6	1	7	14	15	1	14	14	3	3	2	0	0	0	0	0	3	0	0
April	14.3	W.	73	SW.	5	1	7	10	4	3	6	16	13	0	12	15	3	1	1	0	0	0	0	0	0	2	0
May	12.4	NW.	52	W.	6	1	7	9	5	1	6	13	20	0	20	9	2	3	1	0	0	0	0	0	0	2	0
June	10.0	E.	59	NE.	2	2	16	14	3	1	1	10	12	1	17	11	2	9	4	0	0	0	0	1	0	2	0
July	9.3	E.	43	SW.	2	0	11	22	8	1	2	9	9	0	21	10	0	7	4	0	1	0	0	30	0	4	0
August	8.8	E.	46	SE.	3	1	10	18	10	6	0	7	10	0	8	21	2	11	7	0	1	0	0	24	0	10	0
September	9.9	E.	38	NE.	0	1	10	13	9	1	4	7	14	1	14	11	5	5	5	0	1	0	0	7	0	4	0
October	8.4	E.	43	W.	1	1	6	24	5	0	2	9	15	0	30	1	0	0	0	0	0	0	0	0	0	0	0
November	7.8	NW.	44	SW.	1	1	3	8	3	0	4	16	25	0	23	6	1	0	0	0	0	0	0	0	4	0	0
December	7.9	NW.	48	W.	2	3	10	7	1	0	2	16	23	0	16	10	5	1	0	0	0	0	0	0	18	0	0
Year	10.2	NW.	73	SW.	32	13	112	151	55	14	43	143	194	5	201	131	33	51	31	6	3	1	0	77	53	25	0

ERIE, PA.

[H=713 ft.; h_t=92 ft.; h_r= 82 ft.; h_a=102 ft.]

January	14.2	W.	50	NW.	1	3	2	2	2	12	16	14	11	0	1	7	23	20	12	15	0	1	12	0	26	1	0
February	14.0	W.	40	S.	1	1	6	3	0	7	18	17	4	0	5	8	15	13	12	10	0	0	12	0	23	0	0
March	9.8	W.	41	S.	1	6	13	1	4	8	13	11	5	1	11	6	14	14	11	2	0	4	1	0	8	1	0
April	10.4	W.	42	S.	2	4	12	6	4	6	8	12	8	0	11	6	13	15	13	1	0	0	2	0	4	2	0
May	10.6	E.	36	S.	0	5	9	18	3	15	6	4	1	1	21	7	3	8	6	0	0	0	0	0	0	6	0
June	8.2	W.	26	SE.	0	9	8	9	5	7	9	12	1	0	13	10	7	16	16	0	0	0	0	0	0	5	0
July	8.7	W.	33	S.	0	13	5	1	1	7	15	13	7	0	15	12	4	14	10	0	1	0	0	0	0	9	0
August	8.6	N.	33	NW.	0	10	12	5	3	10	8	10	4	0	9	14	8	11	8	0	0	0	0	0	0	5	1
September	9.8	S.	35	NW.	0	5	2	3	7	18	13	2	10	0	16	8	6	8	7	0	0	0	0	0	0	2	0
October	12.0	SW.	37	N.	0	11	5	3	0	16	16	8	3	0	9	8	14	15	11	1	3	0	0	0	0	4	0
November	10.7	S.	30	SW.	0	11	0	1	5	10	14	10	9	0	6	2	22	14	12	9	2	0	0	0	12	1	0
December	14.8	W.	37	SW.	0	8	0	2	1	8	14	22	12	0	1	2	28	23	11	21	0	0	15	0	30	0	0
Year	11.0	W.	50	NW.	5	81	74	54	35	124	150	135	75	2	118	90	157	171	129	59	6	5	51	0	103	36	1

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

ESCANABA, MICH.

[λ=45° 48′ N.; φ=87° 5′ 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	29.223	29.710	28.580	14.0	19.2	24.7	9.5	17.1	42	− 4	12	15	90	81	.078	.089	1.01	.38	5.0	6.5	6.3
February	29.356	29.796	28.648	12.7	20.5	26.6	9.4	18.0	42	−15	10	14	88	73	.077	.090	.70	.29	6.0	2.1	5.0
March	29.449	29.861	28.818	28.8	32.8	37.5	25.8	31.6	46	6	27	29	93	86	.149	.161	2.70	1.01	5.7	5.7	6.3
April	29.295	29.639	28.744	35.8	39.5	44.9	31.9	38.4	60	18	32	31	85	73	.179	.178	1.69	.40	6.1	5.2	5.6
May	29.395	29.771	28.767	48.0	52.0	58.2	42.9	50.6	71	22	43	43	85	74	.284	.287	3.41	.58	6.1	5.4	4.5
June	29.320	29.714	29.007	55.4	61.7	67.3	49.1	58.2	79	37	48	49	78	65	.344	.361	1.13	.71	3.9	4.8	4.9
July	29.290	29.595	28.941	62.9	67.0	73.9	55.9	64.9	85	45	57	58	81	76	.477	.500	7.85	2.01	4.6	5.3	4.9
August	29.322	29.669	28.938	58.1	63.1	68.8	52.6	60.7	89	43	53	54	85	74	.413	.431	4.97	1.38	6.4	6.0	5.8
September	29.361	29.619	28.862	52.1	57.0	63.8	47.1	55.4	77	32	48	50	86	79	.347	.380	4.73	1.09	5.4	5.9	4.9
October	29.361	29.798	28.664	42.4	49.1	55.5	38.4	47.0	65	26	39	40	87	73	.247	.267	1.75	.99	4.1	3.1	3.1
November	29.354	29.955	28.640	27.4	30.7	38.0	23.5	30.8	68	5	24	25	86	78	.137	.143	1.76	.55	6.6	4.4	5.8
December	29.269	29.661	28.722	14.1	16.5	21.9	9.2	15.6	35	−15	13	12	95	82	.085	.080	.88	.33	6.6	4.6	7.1
Year	29.333	29.955	28.580	37.6	42.4	48.4	32.9	40.7	89	−15	34	35	87	76	.235	.247	32.58	2.01	5.5	4.9	5.4

EUREKA, CAL.

[λ=40° 48′ N.; φ=124° 11′ W.]

January	30.056	30.384	29.372	46.0	51.0	53.6	43.6	48.6	66	36	42	46	88	84	.278	.317	16.07	5.10	6.1	6.8	7.4
February	30.091	30.350	29.726	40.8	49.9	51.6	38.6	45.1	64	28	36	40	84	70	.219	.252	3.80	1.02	4.8	4.4	4.4
March	29.916	30.198	29.495	45.3	52.8	55.2	43.1	49.2	67	34	41	42	84	67	.258	.267	7.42	2.55	6.9	7.7	6.6
April	30.062	30.331	29.705	45.5	52.1	53.8	43.6	48.7	64	34	40	41	81	68	.247	.263	1.23	.36	5.8	5.0	4.9
May	30.039	30.210	29.863	48.4	53.9	55.3	47.7	51.5	62	42	44	46	87	74	.296	.307	.70	.35	6.4	4.3	4.4
June	29.992	30.206	29.732	52.0	58.5	61.0	51.3	56.2	85	41	49	50	90	74	.345	.362	.57	.30	6.0	5.7	6.1
July	30.026	30.125	29.871	52.1	56.3	58.1	51.3	54.7	64	47	49	49	90	78	.349	.352	.06	.05	7.6	4.4	5.8
August	29.955	30.087	29.768	53.3	57.9	59.6	52.5	56.0	66	48	50	52	92	80	.369	.387	.53	.21	8.5	4.9	6.0
September	29.988	30.148	29.795	51.6	57.5	59.8	50.6	55.2	71	44	49	50	92	78	.350	.367	.28	.14	8.5	3.4	4.9
October	30.026	30.240	29.682	51.6	56.3	59.3	49.9	54.6	72	42	49	52	91	84	.348	.382	2.42	1.13	4.0	4.4	7.0
November	29.998	30.339	29.595	50.7	55.4	58.7	47.8	53.2	69	37	47	50	88	82	.329	.363	10.79	1.60	6.7	7.4	7.7
December	30.181	30.395	29.792	44.8	53.3	55.1	42.8	49.0	64	35	41	46	87	79	.260	.316	4.03	1.70	8.6	4.7	4.5
Year	30.023	30.395	29.372	48.5	54.6	56.8	46.9	51.8	85	28	45	47	88	76	.304	.328	47.90	5.10	5.7	5.3	5.8

EVANSVILLE, IND.[a]

[λ=37° 58′ N.; φ=87° 33′ W.]

January	29.554	29.992	28.988	30.1	.....	40.2	26.2	33.2	66	4	27	.....	87	.....	.160	.....	2.43	1.07	6.2	.....	6.3
February	29.646	30.197	29.060	31.8	.....	43.6	28.2	35.9	61	−3	28	.....	85	.....	.171	.....	5.88	2.10	5.7	.....	5.8
March	29.673	29.985	29.356	45.5	.....	58.4	43.6	51.0	77	22	41	.....	84	.....	.279	.....	4.66	2.72	7.5	.....	7.1
April	29.442	29.852	28.988	51.4	.....	64.7	47.1	55.9	80	31	44	.....	78	.....	.304	.....	3.17	1.07	6.1	.....	6.3
May	29.554	29.962	29.385	63.2	.....	78.2	59.6	68.9	88	35	56	.....	77	.....	.469	.....	2.28	1.23	5.5	.....	5.3
June	29.466	29.714	29.219	64.4	.....	78.6	61.1	69.8	88	44	59	.....	82	.....	.502	.....	2.52	.77	4.6	.....	4.9
July	29.524	29.725	29.353	73.4	.....	88.3	70.5	79.4	96	61	66	.....	77	.....	.636	.....	2.28	1.63	4.0	.....	4.3
August	29.510	29.808	29.393	69.8	.....	85.1	67.8	76.4	94	56	65	.....	84	.....	.620	.....	4.54	1.88	3.6	.....	4.2
September	29.645	29.881	29.524	62.2	.....	81.3	59.3	70.3	92	44	54	.....	76	.....	.447	.....	.49	.22	2.6	.....	3.2
October	29.644	30.071	29.211	51.3	.....	68.5	49.4	59.0	88	34	46	.....	82	.....	.332	.....	1.87	.98	2.6	.....	3.3
November	29.665	30.195	29.159	38.0	.....	50.5	34.7	42.6	73	16	32	.....	79	.....	.209	.....	1.77	.78	5.5	.....	5.3
December	29.674	30.113	29.306	25.6	.....	38.4	22.7	30.6	50	3	21	.....	82	.....	.118	.....	3.02	1.26	4.5	.....	4.3
Year	29.583	30.197	28.988	50.6	.....	64.6	47.5	56.1	96	−3	45	.....	81	.....	.364	.....	35.45	2.72	4.9	.....	5.0

FLAGSTAFF, ARIZ.

[λ=35° 12′ N.; φ=111° 37′ W.]

January	23.330	23.625	23.057	22.4	34.8	42.5	18.2	30.4	54	6	.....	.....	.....	.....	.....	.....	.45	.19	5.7	6.9	3.7
February	23.217	23.525	22.901	13.3	29.3	35.6	8.3	22.0	50	−18	.....	.....	.....	.....	.....	.....	2.62	.80	3.6	3.5	3.6
March	23.287	23.568	23.014	28.1	42.3	46.8	24.6	35.7	58	10	.....	.....	.....	.....	.....	.....	3.77	1.24	4.7	5.9	5.4
April	23.268	23.507	23.014	29.1	50.2	54.9	27.1	41.0	69	19	.....	.....	.....	.....	.....	.....	3.85	2.95	3.5	3.6	3.5
May	23.287	23.532	22.994	35.2	59.6	64.7	32.9	48.8	78	26	.....	.....	.....	.....	.....	.....	1.39	.98	2.8	5.5	4.8
June	23.384	23.494	23.234	43.8	69.0	74.6	40.8	57.7	86	32	.....	.....	.....	.....	.....	.....	1.88	.40	2.4	5.1	4.3
July	23.444	23.581	23.204	52.9	76.9	81.7	50.8	66.2	92	40	.....	.....	.....	.....	.....	.....	3.01	1.08	3.8	5.5	4.8
August	23.444	23.546	23.261	52.3	73.3	81.3	51.2	66.2	90	45	.....	.....	.....	.....	.....	.....	2.26	.62	3.1	6.7	5.3
September	23.411	23.558	23.125	44.1	61.3	68.0	41.8	54.9	80	26	.....	.....	.....	.....	.....	.....	4.68	1.56	4.3	5.5	5.0
October	23.451	23.626	23.257	32.7	55.5	64.0	29.9	47.0	72	14	.....	.....	.....	.....	.....	.....	1.04	.82	1.0	1.3	1.1
November	23.421	23.602	23.222	25.2	47.0	58.0	22.7	40.4	68	11	.....	.....	.....	.....	.....	.....	.00	.00	2.5	3.0	3.0
December	23.408	23.624	23.067	16.6	34.1	46.2	13.4	29.8	60	− 1	.....	.....	.....	.....	.....	.....	.10	.08	1.0	2.4	1.8
Year	23.363	23.626	22.901	33.0	52.8	59.9	30.1	45.0	92	−18	.....	.....	.....	.....	.....	.....	25.05	2.95	3.2	4.6	3.9

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

ESCANABA, MICH.

[H=612 ft.; h_t=40 ft.; h_r=33 ft.; h_a=48 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	8.4	W.	27	NW.	0	7	2	1	3	3	13	17	15	1	6	13	12	9	5	9	0	3	24	0	31	0	0
February	9.3	N.	37	N	0	8	4	0	1	5	12	10	15	1	8	13	7	11	5	10	0	3	17	0	28	0	0
March	7.9	N.	31	S.	0	15	7	2	9	11	7	2	9	0	7	8	16	10	9	4	1	9	3	0	25	1	0
April	11.7	N.	34	N.	0	23	4	4	4	9	5	3	8	0	12	3	15	10	9	4	0	1	1	0	12	1	0
May	8.9	N.	28	S.	0	16	9	5	7	15	3	3	3	1	13	9	9	18	16	0	1	3	0	0	1	6	0
June	7.8	N.	28	NW.	0	27	6	1	5	8	6	1	6	0	11	10	9	6	4	0	0	1	0	0	0	2	0
July	6.7	S.	24	NW.	0	15	3	1	3	15	14	2	9	0	12	9	10	13	10	0	2	1	0	0	0	8	0
August	7.1	N.	31	SE.	0	14	11	6	4	7	5	7	7	1	7	14	10	15	14	0	1	1	0	0	0	9	1
September	8.2	S.	27	NW.	0	6	3	0	9	11	17	6	8	0	10	12	8	16	12	0	1	2	0	0	0	5	0
October	7.6	SW.	39	NW.	0	7	3	3	7	5	20	8	9	0	19	8	4	7	5	0	0	3	0	0	6	1	2
November	8.8	W.	30	N.	0	3	3	1	1	4	17	15	16	0	11	6	13	6	5	6	0	0	8	0	22	0	1
December	7.6	W.	25	NW.	0	4	0	0	2	4	19	18	15	0	7	4	20	11	6	10	0	1	27	0	30	0	0
Year	8.3	N.	37	N.	0	145	55	24	55	97	138	92	120	4	123	109	133	132	100	43	6	28	80	0	155	33	4

EUREKA, CAL.

[H=62 ft.; h_t=62 ft.; h_r=54 ft.; h_a=80 ft.]

January	5.6	SE.	38	SW.	0	6	3	3	20	9	9	6	4	2	3	8	20	17	16	0	3	6	0	0	0	2	0
February	6.1	N.	39	SE.	0	13	5	6	10	5	9	3	4	1	11	9	8	11	11	0	1	2	0	0	5	1	0
March	7.5	SE.	33	NW.	0	8	3	2	15	11	9	7	6	1	4	11	16	16	16	0	1	1	0	0	0	0	0
April	10.5	N.	44	N.	1	21	8	4	4	6	4	1	11	1	11	10	9	9	7	1	2	0	0	0	0	0	0
May	9.5	N.	39	N.	0	32	3	2	3	4	2	4	12	0	13	11	7	8	3	0	0	2	0	0	0	0	0
June	6.9	N.	35	NW.	0	20	2	2	5	3	5	8	15	0	8	7	15	6	4	0	0	1	0	0	0	0	0
July	7.1	NW.	40	N.	1	16	2	1	3	9	6	8	16	1	5	14	12	2	1	0	0	2	0	0	0	0	0
August	5.4	NW.	27	NW.	0	12	0	0	4	3	11	12	19	1	9	8	14	6	4	0	0	3	0	0	0	0	0
September	6.4	N.	46	N.	2	18	1	1	4	7	6	7	13	3	11	8	11	6	2	0	0	10	0	0	0	0	0
October	4.6	SW.	29	N.	0	10	6	3	9	7	11	7	8	1	5	10	16	8	6	0	0	14	0	0	0	0	0
November	7.2	S.	37	S.	0	6	3	8	12	13	12	4	1	1	4	6	20	17	17	0	1	2	0	0	0	0	0
December	4.9	SE.	33	N.	0	11	4	8	11	8	11	2	7	0	15	3	13	11	9	0	0	5	0	0	0	0	0
Year	6.8	N.	46	N.	4	173	40	40	100	85	95	69	116	12	99	105	161	117	96	1	8	48	0	0	5	3	0

EVANSVILLE, IND.

[H=431 ft.; h_t=72 ft.; h_r=66 ft.; h_a=82 ft.]

January	8.6	W.	36	W.	0	2	6	1	4	6	3	7	2	0	9	6	16	9	5	4	0	1	6	0	22	0	0
February	9.4	N.	33	W.	0	6	4	1	4	3	2	6	2	0	11	3	14	13	11	2	0	0	4	0	15	0	0
March	6.5	NE.	33	W.	0	5	8	3	3	6	2	2	2	0	3	14	14	14	10	2	0	1	0	0	4	3	0
April	8.8	S.	42	SW.	1	6	1	1	5	8	2	4	3	0	7	9	14	13	9	0	2	0	0	0	1	6	0
May	7.3	S.	44	SW.	1	1	7	5	5	11	1	0	1	0	8	15	8	11	8	0	2	0	0	0	0	7	0
June	5.9	N.	30	S.	0	6	3	3	4	5	3	4	2	0	9	12	9	9	9	0	0	0	0	0	0	7	0
July	6.1	S.	27	NE.	0	3	6	1	3	7	6	3	2	0	12	16	3	9	5	0	0	0	0	15	0	8	0
August	5.8	S.	27	NW.	0	3	7	3	2	10	2	1	3	0	10	18	3	10	8	0	0	0	0	6	0	7	0
September	5.7	NE.	29	S.	0	1	8	6	5	7	0	1	2	0	18	11	1	6	5	0	0	0	0	5	0	1	0
October	6.6	NE.	34	S.	0	4	8	2	4	5	3	3	2	0	19	7	5	5	4	0	0	0	0	0	0	2	0
November	7.6	NW.	30	S.	0	4	6	4	2	4	1	2	7	0	8	10	12	7	5	2	0	2	3	0	13	3	0
December	8.1	S.	36	NW.	0	6	2	2	1	7	3	4	6	0	13	10	8	9	5	4	0	0	6	0	28	0	0
Year	7.2	S.	44	SW.	2	47	66	32	42	79	28	37	34	0	127	131	107	115	84	14	4	4	19	26	83	44	0

FLAGSTAFF, ARIZ.

[H=6,907 ft.; h_t=12 ft.; h_r=3 ft.; h_a=25 ft.]

January	.....	W.	....	.....	.....	11	7	9	4	2	9	13	7	0	18	7	6	5	4	4	0	0	0	0	29	0	0
February	.....	SW.	....	.....	.....	2	5	12	12	2	13	7	2	1	14	8	6	9	7	8	2	0	9	0	28	0	0
March	.....	SW.	....	.....	.....	2	3	8	1	4	22	9	12	1	10	9	12	10	10	9	0	0	0	0	27	0	0
April	.....	SW.	....	.....	.....	3	3	4	1	3	31	9	3	3	16	8	6	7	5	4	1	0	0	0	24	2	0
May	.....	SW.	....	.....	.....	3	5	6	0	2	23	15	8	0	9	16	6	7	5	3	1	0	0	0	13	2	0
June	.....	SW.	....	.....	.....	1	2	8	2	2	20	18	7	0	11	12	7	9	9	0	0	0	0	0	0	9	0
July	.....	SW.	....	.....	.....	0	2	3	0	1	30	14	12	0	12	10	9	10	6	0	0	0	1	0	6	0	0
August	.....	SW.	....	.....	.....	9	2	1	4	3	18	11	13	1	7	17	7	14	11	0	1	0	0	0	0	9	0
September	.....	SW.	....	.....	.....	1	2	11	1	6	19	10	10	0	8	13	9	13	13	0	2	0	0	0	3	3	0
October	.....	E.	....	.....	.....	7	15	16	3	1	7	6	6	1	26	4	1	2	2	.....	1	0	0	0	19	1	0
November	.....	N.	....	.....	.....	16	5	3	4	2	7	9	14	0	14	15	1	0	0	0	0	0	0	0	29	0	0
December	.....	NE.	....	.....	.....	13	17	8	4	2	7	8	8	0	25	3	3	2	1	2	0	0	0	0	31	0	0
Year	.....	SW.	....	.....	.....	68	68	89	36	30	206	129	97	7	170	122	73	88	73	20	8	0	9	1	203	32	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

FORT SMITH, ARK.

[λ=35° 22′ N.; φ=94° 24′ 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	29.565	30.014	29.140	35.9	43.6	49.1	32.2	40.6	72	16	30	32	80	64	.176	.188	1.52	.58	5.7	4.9	5.9	
February	29.618	30.066	28.987	35.1	43.2	48.3	31.5	39.9	74	4	31	32	84	65	.186	.196	5.33	2.18	5.9	5.5	5.6	
March	29.613	30.051	29.271	47.5	59.3	63.9	45.6	54.8	78	23	42	43	82	58	.289	.304	3.96	1.04	6.2	5.5	5.6	
April	29.454	29.942	28.966	53.9	66.8	72.6	51.0	61.8	86	36	45	46	74	49	.320	.329	.36	.16	3.7	4.3	3.8	
May	29.429	29.907	29.296	61.9	71.1	75.2	59.2	67.2	86	34	57	59	84	69	.486	.529	9.23	2.99	6.4	7.3	6.0	
June	29.468	29.755	29.203	64.8	76.9	80.9	62.0	71.4	92	50	60	59	83	55	.517	.511	1.37	.57	3.7	5.9	4.8	
July	29.494	29.665	29.318	74.1	85.3	89.5	70.8	80.2	95	66	69	68	83	58	.702	.688	2.00	1.61	4.5	4.3	4.7	
August	29.487	29.738	29.321	72.6	83.0	88.6	69.9	79.2	94	62	69	70	88	66	.713	.738	4.15	1.23	3.9	3.4	4.1	
September	29.569	29.840	29.297	62.3	75.7	82.4	60.5	71.4	92	43	58	59	84	58	.490	.519	1.33	.73	3.3	3.3	3.6	
October	29.606	29.930	29.101	52.2	64.7	72.1	50.2	61.2	86	35	48	50	87	61	.360	.388	2.71	1.32	4.4	3.9	4.5	
November	29.636	30.214	29.190	41.1	51.1	58.1	38.3	48.2	78	18	34	36	74	56	.209	.232	.86	.57	4.1	3.1	4.2	
December	29.658	30.039	29.108	32.6	45.0	51.9	29.3	40.6	66	17	27	29	79	54	.153	.161	2.64	1.61	3.4	3.7	3.6	
Year	29.550	30.214	28.966	52.8	63.8	69.4	50.0	59.7	95	4	48	49	82	59	.383	.399	35.46	2.99	4.6	4.6	4.7	

FORT WORTH, TEX.[a]

[λ=32° 43′ N.; φ=97° 15′ W.]

January	29.370	29.812	29.078	40.0	.....	54.9	37.0	46.0	85	18	35	....	82	....	.214	.....	1.83	.67	5.2	4.3	5.7	
February	29.372	29.810	28.810	39.0	.....	51.2	35.6	43.4	78	12	35	....	86	....	.230	.....	4.63	2.33	6.1	5.1	6.2	
March	29.392	29.773	29.149	47.4	.....	62.1	46.1	54.1	77	25	43	....	86	....	.299	.....	2.03	1.04	6.0	4.3	4.9	
April	29.280	29.731	28.997	55.0	.....	75.7	53.2	64.4	90	35	48	....	79	....	.362	.....	.59	.58	4.4	2.0	2.9	
May	29.232	29.673	29.092	61.7	.....	79.0	60.3	69.6	91	34	58	....	88	....	.510	.....	1.84	1.15	4.9	3.1	5.3	
June	29.276	29.519	29.000	65.6	.....	83.3	63.3	73.3	94	48	61	....	85	....	.546	.....	4.84	1.38	4.5	3.2	4.2	
July	29.279	29.428	29.120	73.0	.....	89.4	71.9	80.6	98	67	69	....	88	....	.710	.....	1.84	.88	3.0	2.1	3.2	
August	29.259	29.513	29.180	73.0	.....	91.7	72.5	82.1	100	68	69	....	89	....	.718	.....	1.57	.71	3.0	1.5	2.5	
September	29.319	29.613	29.116	65.3	.....	85.6	64.1	74.8	93	44	59	....	80	....	.522	.....	2.70	2.17	3.3	2.0	3.6	
October	29.378	29.678	29.029	54.8	.....	74.5	52.9	63.7	87	38	50	....	83	....	.367	.....	4.53	2.80	3.9	1.9	3.5	
November	29.425	30.010	29.098	45.4	.....	63.0	42.6	53.8	85	20	38	....	76	....	.254	.....	.00	.00	2.1	1.1	2.8	
December	29.458	29.859	28.966	39.1	.....	59.3	35.4	47.4	71	22	32	....	74	....	.193	.....	.30	.21	1.5	2.7	3.2	
Year	29.337	30.010	28.810	54.9	.....	72.6	52.9	62.8	100	12	50	....	83	....	.412	.....	26.70	2.80	4.1	2.8	4.0	

FRESNO, CAL.

[λ=36° 43′ N.; φ=119° 49′ W.]

January	29.807	30.040	29.392	39.0	48.8	50.3	37.6	44.0	66	26	38	42	96	78	.235	.273	1.86	.60	1.9	4.0	8.0	
February	29.753	30.018	29.376	38.0	54.0	55.2	36.5	46.8	69	25	35	40	90	61	.208	.257	.65	.35	1.7	3.8	3.9	
March	29.645	29.889	29.383	47.0	62.2	63.8	45.7	54.8	74	35	43	44	86	56	.283	.307	2.28	.75	5.5	6.5	5.7	
April	29.641	29.849	29.453	46.5	68.4	69.7	45.3	57.5	85	35	40	41	78	39	.250	.261	.50	.22	2.7	2.8	2.6	
May	29.534	29.698	29.305	53.9	82.0	83.0	52.5	67.8	101	43	42	38	67	22	.273	.240	T.	T.	1.0	2.7	1.9	
June	29.507	29.727	29.300	62.1	91.4	93.0	61.3	77.2	107	49	46	40	56	18	.307	.258	T.	T.	1.7	2.4	3.3	
July	29.531	29.671	29.338	61.1	93.9	94.6	60.1	77.4	103	52	44	38	54	15	.292	.234	.00	.00	.6	.6	.8	
August	29.476	29.615	29.277	64.0	97.4	98.1	62.4	80.2	108	57	46	37	62	13	.306	.223	.00	.00	.3	.0	.2	
September	29.527	29.683	29.349	59.6	88.2	89.8	57.5	73.6	106	47	44	36	56	18	.287	.219	.00	.00	.4	1.6	1.3	
October	29.648	29.841	29.387	54.2	81.1	83.4	52.0	67.7	95	46	44	42	70	26	.295	.265	.00	.00	.6	1.4	1.4	
November	29.745	29.918	29.533	47.7	61.7	64.8	45.6	55.2	79	32	43	46	84	58	.279	.310	.68	.46	2.8	4.2	5.9	
December	29.825	30.032	29.600	37.1	53.7	56.1	35.0	45.6	64	27	35	39	94	60	.210	.243	.22	.22	1.0	2.2	3.8	
Year	29.637	30.040	29.277	50.8	73.6	75.2	49.3	62.2	108	25	42	40	74	39	.269	.258	6.19	.75	1.7	2.7	3.2	

GALVESTON, TEX.

[λ=29° 18′ N.; φ=94° 50′ W.]

January	30.009	30.452	29.575	49.1	54.0	57.4	46.9	52.2	70	34	45	49	87	83	.317	.359	4.55	2.09	4.2	4.5	5.3	
February	29.995	30.385	29.548	51.4	55.4	59.0	48.2	53.6	67	24	48	51	87	86	.350	.392	6.84	2.41	6.4	5.4	5.7	
March	29.975	30.289	29.734	59.8	62.5	66.3	57.7	62.0	75	41	57	58	92	87	.481	.495	8.11	3.98	7.4	6.7	6.4	
April	29.924	30.226	29.654	65.1	68.1	72.1	63.0	67.6	81	52	59	59	82	74	.524	.513	1.14	1.10	6.4	6.3	4.5	
May	29.864	30.215	29.653	70.2	73.4	77.2	68.6	72.9	82	52	65	65	83	76	.624	.632	.79	.85	5.8	6.0	5.0	
June	29.855	30.057	29.642	72.8	77.3	81.4	70.7	76.0	88	57	69	68	87	73	.713	.693	3.14	1.51	5.1	5.8	4.5	
July	29.918	30.025	29.725	80.0	82.2	85.8	77.1	81.4	91	67	74	73	82	74	.841	.804	13.79	7.11	4.3	3.7	3.5	
August	29.902	30.098	29.693	80.2	82.8	86.6	77.5	82.0	91	69	74	74	83	76	.852	.851	5.45	1.37	4.9	4.2	3.9	
September	29.962	30.175	29.777	76.4	79.6	83.5	74.7	79.1	88	60	68	67	77	67	.706	.685	2.76	2.33	2.3	1.9	2.3	
October	29.994	30.254	29.725	67.6	72.1	75.4	65.6	70.5	85	54	60	60	79	68	.554	.546	3.60	2.12	3.9	1.9	2.9	
November	30.052	30.503	29.779	58.7	62.9	67.1	56.7	61.9	79	35	52	52	80	76	.431	.438	.03	.03	3.5	2.1	3.6	
December	30.103	30.460	29.746	52.4	56.2	60.5	49.6	55.0	74	35	48	48	84	75	.344	.347	2.27	.94	5.2	3.6	4.3	
Year	29.963	30.503	29.548	65.3	68.9	72.7	63.0	67.8	91	24	60	60	84	76	.561	.563	52.47	7.11	5.0	4.2	4.4	

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued

FORT SMITH, ARK.

[H=457 ft.; h_t=79 ft.; h_r=72 ft.; h_a=94 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	9.0	E.	50	NW.	1	3	5	24	1	1	9	8	11	0	6	14	11	9	6	1	0	0	0	0	13	2	0
February	10.5	E.	48	W.	1	7	3	24	2	0	5	7	8	0	6	12	10	9	9	2	1	1	3	0	12	3	0
March	8.4	E.	42	W.	1	3	9	23	7	1	3	5	11	0	5	18	8	13	11	1	1	1	0	0	3	4	0
April	12.1	E.	50	W.	2	4	1	16	11	8	3	3	14	0	10	20	0	6	3	0	1	0	0	0	0	6	0
May	9.0	E.	42	W.	3	3	4	22	12	12	0	0	9	0	4	18	9	13	11	0	2	0	0	0	0	12	0
June	5.9	E.	31	SE.	0	7	9	16	2	6	9	3	7	1	3	25	2	6	4	0	1	3	0	3	0	5	0
July	6.9	E.	33	NW.	0	5	3	23	8	11	7	1	3	1	5	24	2	5	4	0	0	1	0	17	0	8	0
August	6.0	E.	40	NW.	1	4	10	22	11	7	1	4	3	0	8	22	1	10	8	0	0	1	0	12	0	12	0
September	8.1	E.	32	W.	0	2	12	21	15	1	3	3	3	0	12	15	3	7	5	0	0	0	0	4	0	4	0
October	7.4	E.	32	E.	0	4	9	20	6	3	6	5	8	1	11	12	8	10	6	0	0	2	0	0	0	6	0
November	8.8	E.	36	W.	0	2	9	22	2	2	4	4	13	2	13	10	7	3	3	0	1	1	0	0	0	2	0
December	8.7	NE.	43	W.	2	3	16	15	1	3	9	8	7	0	16	7	8	4	4	1	1	0	0	0	23	1	0
Year	8.4	E.	50	W.	11	47	90	248	78	55	59	51	97	5	99	197	69	95	74	5	8	10	3	36	60	65	0

FORT WORTH, TEX.

[H=670 ft.; h_t=106 ft.; h_r=3 ft.; h_a=114 ft.]

January	10.8	S.	38	W.	0	11	3	2	11	11	10	3	11	0	13	6	12	10	8	0	0	1	0	0	5	0	0
February	11.1	N.	40	N.	1	13	8	8	3	6	4	7	7	0	8	8	12	13	9	1	0	1	2	0	9	3	0
March	9.4	N.	34	NW.	0	15	6	5	17	5	2	0	12	0	16	2	13	7	7	0	0	2	0	0	2	2	0
April	13.9	S.	44	W.	2	7	5	3	12	15	5	2	11	0	19	9	2	2	1	0	0	0	0	0	0	2	0
May	13.7	S.	50	S.	2	5	3	3	13	21	1	2	14	0	5	22	4	6	5	0	1	0	0	1	0	5	0
June	7.5	W.	56	NW.	1	10	9	6	6	7	4	10	7	1	15	11	4	9	8	0	1	0	0	5	0	8	0
July	10.2	S.	30	S.	0	1	3	8	18	23	9	0	0	0	21	6	4	4	3	0	0	0	0	16	0	5	0
August	10.3	S.	30	SW.	0	1	5	3	21	21	8	2	1	0	22	9	0	6	4	0	0	0	0	22	0	8	0
September	11.3	S.	31	S.	0	3	3	7	20	17	3	4	3	0	19	7	4	5	4	0	0	0	0	10	0	4	0
October	9.2	S.	35	SW.	0	5	2	13	11	13	9	2	7	0	16	13	2	7	5	0	0	0	0	0	0	4	0
November	10.6	N.	38	S.	0	9	2	4	13	12	6	3	11	0	24	5	1	0	0	0	0	3	0	0	6	0	0
December	10.9	SW.	38	NW.	0	12	3	1	11	5	14	5	11	0	23	5	3	3	3	0	0	0	0	0	13	0	0
Year	10.7	S.	56	NW.	6	92	52	63	156	156	75	40	95	1	201	103	61	72	57	1	2	7	2	54	35	41	0

FRESNO, CAL.

[H=330 ft.; h_t=67 ft.; h_r=54 ft.; h_a=70 ft.]

January	3.3	E.	18	NW.	0	1	4	16	5	9	0	2	24	1	4	3	24	8	6	0	0	19	0	0	6	0	0
February	3.8	NW.	20	SE.	0	9	3	3	2	8	2	8	21	0	16	4	8	4	4	0	0	5	0	0	8	0	0
March	4.7	NW.	23	S.	0	1	1	11	12	4	6	9	18	0	10	7	14	15	13	0	1	0	0	0	0	1	0
April	4.3	NW.	20	NW.	0	2	1	0	4	1	0	3	49	0	21	5	4	4	4	0	0	0	0	0	0	0	0
May	6.0	NW.	36	NW.	0	1	1	1	0	0	0	1	58	0	25	5	1	0	0	0	0	0	0	5	0	0	0
June	6.7	NW.	34	NW.	0	3	3	0	0	0	1	5	47	1	22	6	2	0	0	0	0	0	0	20	0	1	0
July	6.3	NW.	21	NW.	0	0	2	0	1	0	1	12	46	0	29	2	0	0	0	0	0	0	0	25	0	0	0
August	6.5	NW.	18	NW.	0	1	0	0	0	0	0	12	49	0	31	0	0	0	0	0	0	0	0	29	0	0	0
September	3.4	NW.	10	NW.	0	3	0	2	0	3	8	41	3	26	4	0	0	0	0	0	0	0	0	15	0	0	0
October	3.5	NW.	11	NW.	0	2	6	5	2	3	11	11	21	1	28	2	1	0	0	0	0	1	0	7	0	0	0
November	4.5	NW.	24	NW.	0	9	1	5	15	4	7	1	17	1	9	8	13	5	4	0	0	9	0	0	0	0	0
December	3.3	NW.	14	NW.	0	8	3	11	5	4	1	4	25	1	17	6	8	1	1	0	0	9	0	0	9	0	0
Year	4.7	NW.	36	NW.	0	40	25	54	46	33	32	76	416	8	238	52	75	37	32	0	1	43	0	96	23	2	0

GALVESTON, TEX.

[H=54 ft.; h_t=106 ft.; h_r=98 ft.; h_a=112 ft.]

January	11.9	NW.	36	N.	0	8	9	8	10	6	6	6	9	0	11	5	15	10	7	0	1	4	0	0	0	2	0
February	13.2	SE.	48	NW.	2	6	8	15	13	4	1	3	6	0	6	8	14	13	13	0	1	7	0	0	2	5	0
March	12.1	N.	46	NW.	1	19	8	9	12	6	1	0	7	0	6	11	14	16	11	0	1	7	0	0	0	5	0
April	13.1	SE.	37	SE.	0	5	1	2	24	10	6	3	9	0	15	8	7	6	2	0	0	0	0	0	0	2	0
May	12.7	SE.	38	NW.	0	0	1	2	33	9	6	5	6	0	10	17	4	5	3	0	0	0	0	0	0	5	0
June	10.3	S.	42	NE.	1	6	14	4	9	11	8	1	7	0	15	7	8	7	6	0	0	0	0	0	0	4	0
July	9.7	SE.	33	NE.	0	3	1	2	21	25	4	2	4	0	14	15	2	10	10	0	0	0	0	3	0	10	0
August	9.1	S.	32	SE.	0	3	3	8	13	26	5	2	2	0	13	16	2	13	11	0	0	0	0	1	0	15	0
September	10.4	SE.	28	N.	0	3	10	6	19	15	4	0	3	0	21	8	1	5	3	0	0	0	0	0	0	1	0
October	11.1	NE.	44	NW.	1	10	17	5	13	14	1	0	2	0	20	7	4	8	7	0	1	0	0	0	0	4	0
November	11.4	S.	37	NE.	0	10	12	4	10	14	4	1	5	0	14	11	5	1	0	0	0	2	0	0	0	1	0
December	12.0	S.	42	NW.	1	8	6	10	11	11	5	2	9	0	14	10	7	8	6	0	0	0	0	0	0	1	0
Year	11.4	SE.	48	NW.	6	81	90	75	188	151	51	25	69	0	159	123	83	102	79	0	4	20	0	4	2	55	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

GRAND JUNCTION, COLO.

[λ=39° 9′ N.; φ=108° 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	25.461	25.797	25.021	15.0	29.1	35.8	11.7	23.8	56	−1	10	20	78	67	.070	.108	.15	.06	2.7	4.5	4.5
February	25.392	25.749	24.334	7.7	22.7	29.0	1.6	15.3	40	−15	4	16	81	73	.057	.090	1.05	.41	3.1	3.5	4.1
March	25.357	25.718	25.054	34.2	47.9	52.0	31.4	41.7	66	7	26	31	72	54	.149	.177	.73	.18	5.1	6.3	5.4
April	25.293	25.671	24.942	41.9	59.0	63.5	40.1	51.8	79	27	32	36	67	44	.179	.213	.78	.40	4.4	4.4	4.4
May	25.271	25.639	24.774	48.3	69.2	73.1	46.0	59.6	86	36	35	35	61	32	.206	.209	1.21	.45	3.7	4.8	4.5
June	25.247	25.567	25.042	60.0	79.7	84.4	57.4	70.9	99	51	44	42	58	33	.292	.276	1.22	.78	4.0	5.5	4.3
July	25.274	25.598	25.064	66.0	85.2	90.0	63.5	76.8	98	48	44	42	48	26	.307	.284	.67	.34	2.5	4.4	3.8
August	25.364	25.516	25.116	64.1	87.6	91.5	62.3	76.9	98	50	41	40	44	21	.265	.261	.02	.01	3.2	2.7	3.1
September	25.391	25.713	24.974	51.5	69.3	76.4	48.8	62.6	93	32	38	40	62	39	.286	.260	.69	.18	3.7	3.7	3.7
October	25.485	25.715	25.098	42.0	61.9	68.8	39.8	54.3	80	28	28	29	57	29	.155	.159	.07	.03	2.1	2.6	2.6
November	25.473	25.706	25.049	29.4	47.0	55.0	25.6	40.3	72	12	19	26	63	44	.106	.145	.01	.01	3.0	3.6	3.6
December	25.559	25.848	25.048	16.6	34.1	41.8	13.4	27.6	54	5	9	17	70	46	.064	.091	.02	.02	1.7	1.7	2.5
Year	25.397	25.797	24.774	39.7	57.7	63.4	36.8	50.1	99	−15	28	31	63	42	.174	.189	6.62	.78	3.3	4.0	3.9

GRAND RAPIDS, MICH.

[λ=42° 58′ N.; φ=85° 40′ W.]

January																					
February																					
March																					
April																					
May																					
June																					
July	29.224	29.495	28.953	66.3	74.2	80.7	61.3	71.0	93	49	60	60	81	63	.530	.536	4.14	1.74	5.3	3.3	3.9
August	29.220	29.536	29.000	61.2	68.5	74.0	57.2	65.6	85	47	57	58	87	72	.472	.496	4.83	1.94	6.7	5.2	5.5
September	29.813	29.548	28.942	56.9	63.7	71.6	53.1	62.4	87	40	52	55	84	74	.408	.450	5.22	1.76	5.7	4.3	4.7
October	29.304	29.722	28.693	46.3	52.6	59.8	43.2	51.5	81	27	42	44	87	72	.286	.301	2.31	.97	4.6	3.2	4.7
November	29.293	29.868	28.606	32.2	36.4	42.6	28.7	35.6	71	10	28	29	83	76	.159	.174	.85	.30	6.4	6.5	7.1
December	29.206	29.576	28.719	22.0	22.5	27.9	17.5	22.7	40	3	19	20	88	88	.105	.108	2.29	.57	9.3	7.7	8.7
Year																					

GREEN BAY, WIS.

[λ=44° 31′ N.; φ=88° 0′ W.]

January	29.250	29.728	28.516	13.3	18.2	24.5	8.1	16.3	40	−12	8	12	77	76	.068	.084	1.03	.32	6.2	4.7	6.2
February	29.379	29.771	28.645	13.8	21.5	27.0	10.3	18.6	47	−16	8	15	75	74	.072	.093	1.35	.74	7.1	4.2	5.8
March	29.440	29.847	28.739	31.7	38.3	44.5	28.8	36.6	72	6	27	32	81	76	.151	.182	3.75	1.87	6.2	6.9	7.1
April	29.271	29.575	28.579	38.8	45.7	52.2	35.2	43.7	68	21	31	34	73	64	.177	.197	2.79	.58	6.4	7.0	6.3
May	29.364	29.691	28.830	52.1	59.4	66.3	47.2	56.8	85	28	45	48	76	66	.308	.345	3.32	.99	6.8	6.9	6.7
June	29.309	29.662	29.004	57.2	66.1	72.9	51.6	62.2	86	36	49	55	75	67	.362	.440	1.03	.41	5.4	6.5	6.3
July	29.290	29.584	28.967	64.7	72.3	79.6	59.8	69.7	89	48	58	60	80	65	.497	.523	3.54	.75	5.4	6.1	6.6
August	29.323	29.634	29.032	59.9	65.6	71.7	55.6	63.6	83	46	55	56	84	72	.440	.458	5.38	1.48	6.5	6.7	7.3
September	29.375	29.654	28.884	54.5	60.8	68.9	50.0	59.4	84	33	49	52	81	72	.364	.338	3.39	.60	5.4	6.4	6.1
October	29.391	29.816	28.667	42.4	50.4	58.8	38.8	48.8	81	26	38	42	83	73	.243	.277	1.72	.62	4.3	3.0	5.0
November	29.397	29.991	28.618	26.6	32.9	38.6	23.7	31.2	69	4	21	25	76	71	.126	.150	1.25	.51	5.8	4.5	6.5
December	29.317	29.747	28.790	10.7	16.5	21.2	6.7	14.0	37	−20	5	10	76	75	.059	.074	.34	.16	5.5	5.3	6.6
Year	29.342	29.991	28.516	38.8	45.6	52.2	34.6	43.4	89	−20	33	37	78	71	.239	.268	28.89	1.87	5.9	5.7	6.4

HANNIBAL, MO.[a]

[λ=39° 41′ N.; φ=91° 20′ W.]

January	29.419	29.780	28.846	24.6	.....	36.3	20.9	28.6	61	−4	21	.....	88	.....	.122	.....	1.98	.57	6.0	.....	6.1
February	29.524	29.998	28.939	22.5	.....	36.2	18.9	27.6	58	−18	20	.....	88	.....	.124	.....	2.70	1.07	6.7	.....	6.6
March	29.558	29.897	29.230	38.9	.....	55.2	36.7	46.0	77	13	36	.....	88	.....	.224	.....	2.37	1.05	5.7	.....	5.9
April	29.316	29.639	28.836	49.1	.....	64.7	44.8	54.8	82	30	43	.....	80	.....	.288	.....	4.96	2.74	5.5	.....	5.9
May	29.389	29.840	29.026	61.1	.....	74.4	56.9	65.6	86	30	56	.....	83	.....	.459	.....	5.24	1.93	7.7	.....	6.3
June	29.389	29.730	29.143	62.7	.....	76.5	58.3	67.4	90	43	57	.....	84	.....	.477	.....	2.59	1.16	5.9	.....	4.5
July	29.410	29.610	29.242	72.3	.....	87.0	67.1	77.0	96	57	66	.....	81	.....	.646	.....	2.86	1.04	4.5	.....	2.2
August	29.396	29.643	29.241	68.1	.....	83.6	64.6	74.1	95	52	64	.....	86	.....	.600	.....	5.14	1.71	4.4	.....	2.7
September	29.493	29.734	29.176	60.0	.....	76.7	56.2	66.4	90	38	56	.....	87	.....	.466	.....	4.71	2.73	4.9	.....	3.4
October	29.525	29.976	28.982	48.5	.....	66.5	46.8	56.6	85	27	46	.....	93	.....	.338	.....	1.65	1.47	3.4	.....	2.5
November	29.553	30.039	29.006	33.9	.....	47.8	29.8	38.8	70	7	30	.....	85	.....	.183	.....	1.28	.58	3.7	.....	4.4
December	29.527	30.033	28.971	22.2	.....	36.2	16.8	26.5	58	−4	19	.....	86	.....	.113	.....	.93	.47	3.9	.....	5.1
Year	29.458	30.039	28.836	47.0	.....	61.8	43.2	52.4	96	−18	43	.....	86	.....	.337	.....	36.41	2.74	5.2	.....	4.6

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

GRAND JUNCTION, COLO.

[H=4,608 ft.; h_t=43 ft.; h_r=37 ft.; h_a=51 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.	Precipitation. 0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	3.8	E.	24	SW.	0	2	0	17	21	4	1	5	12	0	12	13	6	5	2	4	0	1	5	0	30	0	0
February	3.4	NW.	17	NW.	0	11	3	7	8	1	0	7	19	0	14	9	5	7	6	7	0	0	16	0	28	0	0
March	5.6	SE.	24	SE.	0	2	3	10	19	4	3	5	16	0	7	15	9	8	5	2	0	0	1	0	14	1	0
April	7.0	SE.	41	SW.	1	7	4	8	17	3	3	6	12	0	11	14	5	6	5	0	2	0	0	0	4	2	0
May	6.1	NW.	29	NW.	0	5	3	8	14	2	5	16	9	0	11	14	6	7	6	0	2	0	0	0	0	1	0
June	5.8	SE.	22	SW.	0	3	4	9	23	3	5	3	10	0	12	14	4	9	6	0	0	0	0	8	0	8	0
July	6.8	E.	28	SW.	0	2	3	15	14	4	8	7	9	0	11	19	1	6	5	0	0	0	0	18	0	12	0
August	5.5	NW.	30	SE.	0	3	2	15	16	1	1	7	17	0	19	11	1	2	0	0	0	0	0	22	0	6	0
September	4.9	NW.	28	SW.	0	1	6	6	16	2	3	7	19	0	18	7	5	12	8	0	0	0	0	2	0	7	0
October	4.3	NW.	26	SW.	0	1	1	4	17	2	3	13	21	0	21	9	1	4	0	0	0	0	0	1	1	1	0
November	4.0	NW.	25	W.	0	3	4	4	13	1	5	6	24	0	16	10	4	1	0	0	0	0	6	0	23	0	0
December	3.4	SE.	17	N.	0	6	5	9	22	0	0	6	14	0	23	5	3	1	0	1	0	0	0	0	31	0	0
Year	5.0	NW.	41	SW.	1	46	38	112	200	27	37	88	182	0	175	140	50	68	43	14	4	1	22	50	131	38	0

GRAND RAPIDS, MICH.

[H=707 ft.; h_t=127 ft.; h_r=121 ft.; h_a=105 ft.]

January																											
February																											
March																											
April																											
May																											
June																											
July	8.8	NW.	56	SW.	1	7	2	3	4	9	9	12	14	2	15	14	2	10	7	0	0	0	0	1	0	8	0
August	9.5	E.	39	SW.	0	5	9	8	6	8	6	7	13	0	10	11	10	12	11	0	0	0	0	0	0	7	0
September	9.6	S.	37	SW.	0	4	2	4	6	14	14	6	8	2	12	14	4	11	11	0	0	0	0	0	0	6	0
October	10.6	SW.	38	SW.	0	10	2	6	5	13	13	5	7	1	12	11	8	7	5	0	0	0	0	0	3	2	0
November	11.0	W.	48	SW.	3	7	3	4	6	11	5	12	11	1	7	5	18	10	7	7	1	2	10	0	19	2	0
December	11.7	SW.	37	SW.	0	1	1	2	9	11	9	14	15	0	0	7	24	22	14	21	0	0	21	0	31	0	0
Year																											

GREEN BAY, WIS.

[H=617 ft.; h_t=49 ft.; h_r=43 ft.; h_a=86 ft.]

January	9.8	SW.	35	W.	0	9	4	2	5	5	24	6	7	0	10	7	14	11	9	10	0	2	22	0	31	0	0
February	11.8	SW.	55	N.	3	9	4	2	1	6	23	5	6	0	8	10	10	11	4	10	0	1	17	0	27	0	0
March	10.6	NE.	38	NW.	0	4	13	2	12	12	9	7	3	0	4	6	21	14	11	3	0	4	0	0	20	2	0
April	15.7	NE.	46	NE.	4	10	15	4	9	9	6	3	4	0	8	7	15	12	8	3	0	0	0	0	7	2	0
May	11.4	NE.	48	NE.	2	5	17	5	11	15	6	3	0	0	4	11	16	16	12	0	0	1	0	0	1	7	0
June	8.6	NE.	31	W.	0	11	12	3	6	8	11	3	6	0	7	11	12	7	6	0	0	0	0	0	0	2	0
July	9.0	SW.	59	NW.	1	4	6	2	11	9	14	8	8	0	4	13	14	11	10	0	0	0	0	0	0	8	0
August	9.5	NE.	43	SW.	2	9	13	9	7	4	10	5	5	0	3	10	18	13	11	0	0	2	0	0	0	6	0
September	10.8	SW.	36	S.	0	0	2	2	10	14	16	6	10	0	9	9	12	14	10	0	1	0	0	0	0	6	0
October	10.0	SW.	42	SW.	2	0	3	3	9	7	24	7	9	0	13	8	10	6	5	0	0	2	0	0	5	3	1
November	11.8	SW.	42	SW.	3	4	1	1	4	12	15	11	12	0	9	5	16	7	4	7	0	4	10	0	23	0	0
December	10.6	SW.	31	NW.	0	3	0	0	4	4	27	11	13	0	6	9	16	9	2	8	0	1	25	0	31	0	0
Year	10.8	SW.	59	NW.	17	68	90	35	89	105	185	75	83	0	85	106	174	131	92	41	1	17	74	0	145	36	1

HANNIBAL, MO.

[H=534 ft.; h_t=75 ft.; h_r=68 ft.; h_a=109 ft.]

January	10.1	NW.	52	NW.	1	5	1	1	3	3	6	5	7	0	8	10	13	10	9	9	0	2	10	0	25	0	0
February	10.6	W.	36	NW.	0	5	3	2	0	0	7	8	3	0	6	9	13	10	9	6	0	1	8	0	24	1	0
March	8.8	SW.	31	NW.	0	8	2	4	1	5	8	2	1	0	10	8	13	10	7	0	0	0	5	0	9	2	0
April	12.0	SW.	38	SW.	0	7	2	2	1	5	10	1	2	0	6	15	9	8	8	1	0	0	0	0	2	3	0
May	9.6	E.	32	NE.	0	0	8	8	1	8	4	1	1	0	2	20	9	15	11	0	0	0	0	0	1	7	0
June	6.9	SW.	27	W.	0	3	6	4	1	1	10	0	5	0	12	13	5	9	7	0	0	1	0	1	0	6	0
July	8.1	SW.	48	SW.	1	2	2	6	1	3	11	1	4	1	25	6	0	9	7	0	0	0	0	11	0	5	0
August	7.6	SW.	42	NW.	1	3	0	3	0	1	14	2	4	4	20	11	0	12	10	0	0	0	0	7	0	5	0
September	9.0	SW.	48	W.	1	2	1	2	2	5	13	1	2	2	15	8	7	10	10	0	1	0	0	0	0	7	0
October	8.5	SW.	37	SW.	0	3	4	5	2	2	11	1	3	0	19	11	1	4	4	0	0	0	0	0	4	2	0
November	9.7	N.	37	W.	0	7	3	2	2	2	4	5	4	1	12	11	7	5	3	2	0	3	5	0	17	3	0
December	10.2	SW.	42	NW.	1	1	0	2	1	2	10	8	6	1	11	11	9	5	3	2	0	0	11	0	29	0	0
Year	9.3	SW.	52	NW.	5	46	32	41	15	37	108	35	42	9	146	133	86	107	88	20	1	12	84	19	111	41	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

HARRISBURG, PA.

[λ=40° 16′ N.; φ=76° 52′ 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	29.590	30.140	28.936	25.9	29.8	34.7	22.4	28.6	46	6	20	22	78	72	.115	.126	3.67	1.23	6.6	5.8	6.9
February	29.675	30.179	28.926	28.3	34.5	39.8	25.7	32.8	62	1	22	24	75	66	.126	.138	4.19	1.10	6.1	3.7	6.7
March	29.808	30.171	29.247	42.5	49.9	55.5	39.4	47.4	70	26	36	39	80	67	.226	.248	3.76	1.96	7.0	3.6	6.8
April	29.506	30.020	28.900	47.2	54.9	59.9	43.1	51.5	86	25	35	35	63	52	.209	.216	3.24	1.24	5.5	6.7	5.9
May	29.786	30.082	29.520	58.4	67.4	74.3	54.4	64.4	91	34	47	49	66	54	.338	.365	.46	.21	4.3	4.9	4.8
June	29.534	29.942	29.251	61.5	67.4	72.4	57.8	65.1	86	49	55	57	80	70	.435	.471	5.63	1.60	7.1	7.2	7.7
July	29.567	29.794	29.230	70.2	75.0	83.1	64.9	74.0	94	53	61	62	73	66	.550	.579	1.76	.82	4.2	5.9	5.4
August	29.601	30.026	29.379	64.6	70.3	75.7	61.5	68.6	92	53	60	61	85	75	.516	.550	5.82	2.39	8.0	6.1	7.0
September	29.749	30.041	29.318	59.6	66.7	74.8	55.7	65.2	87	41	54	57	84	72	.450	.493	1.95	.77	3.4	2.5	3.6
October	29.664	29.914	29.212	51.5	57.1	63.6	48.5	56.0	77	37	43	46	74	67	.302	.331	2.62	.99	6.3	4.4	5.8
November	29.696	30.310	29.225	34.8	41.1	47.4	31.7	39.6	72	17	28	28	77	60	.167	.165	.88	.35	4.1	4.8	5.4
December	29.653	30.161	28.975	25.1	29.8	34.6	22.0	28.3	43	9	19	21	75	68	.105	.113	1.92	1.09	6.1	4.6	5.9
Year	29.647	30.310	28.900	47.5	53.7	59.6	43.9	51.8	94	1	40	42	76	66	.295	.316	35.90	2.39	5.7	5.0	5.8

HATTERAS, N. C.

[λ=35° 15′ N.; φ=75° 40′ W.]

January	30.022	30.452	29.441	43.3	45.9	50.9	40.5	45.7	67	24	40	42	88	88	.261	.283	2.60	1.39	5.3	3.6	5.4
February	30.137	30.617	29.261	48.1	50.0	55.5	44.1	49.8	71	25	42	45	81	84	.298	.331	4.82	3.46	4.7	4.0	5.6
March	30.177	30.449	29.647	56.4	57.1	62.5	53.8	58.2	73	45	53	53	89	88	.414	.418	5.30	1.82	5.6	4.5	6.8
April	29.919	30.489	29.370	59.2	59.1	65.9	54.9	60.4	80	38	52	52	79	78	.408	.398	1.74	.85	4.9	4.2	5.4
May	30.101	30.310	29.933	68.0	65.7	72.8	62.7	67.8	82	52	61	61	80	84	.551	.542	4.43	3.11	3.8	2.8	4.7
June	29.927	30.271	29.693	73.0	71.8	78.4	68.5	73.4	85	60	67	67	81	86	.662	.675	3.35	1.16	5.3	3.8	5.5
July	30.005	30.170	29.813	79.5	78.0	84.7	74.6	79.6	89	67	72	72	79	83	.800	.798	1.94	1.45	2.2	3.3	2.9
August	29.971	30.305	29.792	78.8	77.9	84.7	74.3	79.5	91	69	74	74	86	88	.852	.839	7.13	2.01	4.0	3.5	4.3
September	30.108	30.446	29.687	72.8	71.4	77.4	68.3	72.8	86	58	67	66	81	85	.663	.659	6.30	2.89	5.1	3.3	4.7
October	30.029	30.419	29.357	62.9	62.8	69.6	58.3	64.0	81	43	59	60	86	90	.513	.530	4.47	1.78	3.6	3.8	3.9
November	30.094	30.584	29.656	50.4	50.6	57.1	46.6	51.8	74	27	46	46	87	85	.344	.342	3.52	1.38	4.1	2.1	4.5
December	30.102	30.468	29.467	40.8	42.8	49.5	36.0	42.8	66	22	36	37	85	81	.221	.232	3.27	1.20	4.9	3.1	3.9
Year	30.049	30.617	29.261	61.1	61.1	67.4	56.9	62.2	91	22	56	56	83	85	.499	.504	48.87	3.46	4.5	3.5	4.8

HAVRE, MONT.

[λ=48° 34′ N.; φ=109° 40′ W.]

January	27.270	27.854	26.673	19.3	23.1	33.1	10.1	21.6	51	—11	14	18	82	80	.088	.099	.33	.15	5.1	5.8	5.7
February	27.431	27.833	26.814	9.1	18.6	25.5	3.0	14.2	48	—27	6	15	88	85	.068	.093	.21	.10	2.9	4.1	4.3
March	27.367	27.781	26.848	12.5	25.7	30.9	8.7	19.8	56	—10	10	20	90	80	.076	.111	.52	.34	5.2	5.9	5.1
April	27.277	27.775	26.869	33.8	52.0	55.7	32.2	44.0	75	17	29	31	80	48	.159	.181	.95	.41	6.1	5.4	4.9
May	27.259	27.670	26.872	42.2	58.6	63.0	39.2	51.1	92	28	36	36	79	49	.213	.220	3.47	.96	4.8	6.7	6.1
June	27.370	27.784	27.049	54.1	73.3	77.0	51.0	64.0	90	38	48	48	79	44	.335	.353	1.51	.99	4.5	4.4	4.1
July	27.324	27.489	27.043	55.1	75.8	78.1	53.2	65.6	95	43	50	52	84	45	.367	.390	5.23	1.77	3.7	4.6	4.2
August	27.344	27.536	27.068	53.5	73.8	76.4	52.5	64.4	96	46	50	54	89	54	.364	.430	2.52	.74	3.5	3.3	3.7
September	27.322	27.675	26.877	43.8	62.1	67.1	41.5	54.3	85	27	38	42	82	50	.234	.273	.48	.12	5.7	6.4	5.4
October	27.356	27.772	26.543	39.4	57.0	64.8	34.9	49.8	79	20	32	36	75	49	.182	.219	.21	.10	4.4	4.1	3.1
November	27.389	28.073	26.778	22.0	29.6	36.8	16.4	26.6	75	—29	18	22	84	76	.117	.138	.50	.30	4.7	5.3	4.9
December	27.402	27.784	26.902	27.2	32.3	39.5	20.6	30.0	63	—10	22	25	79	76	.121	.144	.10	.08	4.1	4.5	4.9
Year	27.343	28.073	26.543	34.3	48.5	54.0	30.3	42.1	96	—29	29	33	83	61	.194	.221	16.03	1.77	4.6	5.0	4.7

HELENA, MONT.

[λ=46° 34′ N.; φ=112° 4′ W.]

January	25.745	26.176	25.219	26.4	31.0	36.7	21.5	29.1	55	1	17	21	68	66	.096	.112	.69	.40	3.6	4.4	5.6
February	25.840	26.159	25.480	18.2	27.5	31.4	14.5	23.0	51	— 7	11	16	74	62	.073	.092	.09	.08	3.6	4.6	4.3
March	25.745	26.081	25.406	22.1	33.9	39.6	18.8	29.2	61	— 1	14	18	72	55	.086	.108	.92	.31	5.3	5.8	5.7
April	25.730	26.122	25.403	34.7	47.4	51.5	32.8	42.2	71	17	23	23	63	42	.125	.124	1.57	.50	5.9	5.7	5.8
May	25.744	26.122	25.410	40.7	55.3	59.9	38.6	49.2	85	26	30	29	66	41	.168	.159	1.64	.60	5.6	6.3	6.0
June	25.840	26.172	25.588	54.3	70.3	73.8	52.4	63.1	84	41	41	38	62	35	.262	.240	1.09	.36	4.3	5.5	4.7
July	25.821	25.970	25.585	53.6	70.3	74.9	52.1	63.5	89	39	40	39	62	36	.253	.243	1.90	.64	3.4	6.6	4.9
August	25.800	26.011	25.588	54.4	75.6	78.5	53.5	66.0	91	43	42	41	66	32	.273	.263	.83	.31	2.4	3.2	2.6
September	25.808	26.073	25.407	45.8	60.3	65.5	43.8	54.6	82	30	34	34	63	42	.194	.199	.90	.39	5.2	5.9	5.1
October	25.883	26.160	25.312	43.1	54.2	61.2	40.2	50.7	75	29	27	31	55	42	.147	.172	.28	.17	4.5	8.5	4.4
November	25.840	26.322	25.176	23.7	29.8	36.0	19.6	27.8	65	—16	16	21	74	74	.096	.124	1.09	.49	4.9	5.9	7.3
December	25.909	26.179	25.517	27.6	31.1	36.5	23.3	29.9	57	3	21	22	74	70	.111	.119	.36	.15	4.0	5.8	5.6
Year	25.809	26.322	25.176	37.0	48.9	53.8	34.3	44.0	91	—16	26	28	67	50	.157	.162	11.36	.64	4.4	5.3	5.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

HARRISBURG, PA.

[H=374 ft.; h_t=94 ft.; h_r=87 ft.; h_a=104 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.a	Maximum velocity.	Direction at time of maximum velocity.	Number of winds, 8 a. m. and 8 p. m. Number of days with gales.	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	8.8	W.	53	W.	2	3	3	11	2	1	9	18	15	0	6	8	17	10	8	4	0	2	10	0	22	0	0
February	9.1	W.	50	NW.	3	5	1	9	6	4	9	12	10	0	9	7	12	9	8	3	0	1	5	0	19	0	0
March	6.9	E.	34	NW.	0	7	8	11	11	8	4	6	6	1	7	6	18	13	8	1	0	2	0	0	5	1	0
April	8.8	E.	37	SW.	0	10	7	13	4	4	7	5	10	0	9	6	15	8	8	0	0	0	0	0	3	1	0
May	6.4	SE.	33	NW.	0	8	6	11	13	9	7	3	5	0	13	8	10	7	3	0	0	0	0	1	0	5	0
June	6.2	E.	24	W.	0	6	3	13	10	7	3	10	8	0	2	9	19	17	15	0	1	0	0	0	0	8	0
July	5.9	W.	40	W.	1	8	4	2	6	2	5	20	15	0	7	16	8	9	8	0	0	0	0	4	0	7	0
August	5.0	E.	30	NW.	0	1	8	16	11	8	3	2	12	1	3	14	14	18	16	0	0	1	0	1	0	6	0
September	5.0	NW.	26	NW.	0	9	6	8	11	4	4	3	9	6	17	8	5	6	6	0	0	2	0	0	0	2	0
October	7.8	NW.	32	N.	0	12	2	4	8	7	3	4	20	1	9	10	12	9	7	0	0	0	0	0	1	1	0
November	6.6	NW.	28	NW.	0	7	1	5	3	4	7	9	24	0	9	10	11	7	4	2	0	1	5	0	16	0	0
December	8.9	NW.	37	NW.	0	5	1	4	3	2	8	19	20	0	9	17	5	9	5	7	0	0	12	0	28	0	0
Year	7.1	NW.	53	W.	6	81	50	107	89	60	69	111	154	9	100	119	146	122	96	17	1	9	32	6	93	31	0

HATTERAS, N. C.

[H=11 ft.; h_t=12 ft.; h_r=34 ft.; h_a=47 ft.]

January	15.8	W.	60	W.	7	7	10	6	1	3	8	17	10	0	12	6	13	12	10	0	0	2	0	0	3	0	0
February	17.2	SW.	59	SW.	7	5	14	5	1	3	15	3	9	1	8	10	10	9	7	0	0	1	1	0	3	0	0
March	15.2	NE.	48	SE.	3	4	26	4	3	11	9	4	0	1	3	14	14	15	12	0	0	2	0	0	0	1	0
April	16.6	SW.	53	N.	4	14	7	0	1	2	20	12	4	0	9	9	12	9	7	0	0	0	0	0	0	2	0
May	12.6	NE.	42	NE.	1	3	23	9	4	5	13	4	1	0	11	12	8	5	4	0	0	0	0	0	0	2	0
June	13.5	SW.	37	SW.	0	6	7	6	7	11	12	8	3	0	9	10	11	13	9	0	0	0	0	0	0	2	0
July	13.9	SW.	48	N.	1	2	7	5	6	0	29	7	6	0	20	9	2	4	4	0	0	0	0	0	0	7	0
August	11.1	SW.	38	NW.	0	2	12	8	2	6	20	9	3	0	16	11	4	13	10	0	0	0	0	1	0	8	0
September	14.4	NE.	60	NW.	1	4	27	7	6	4	8	2	2	0	14	8	8	9	7	0	0	0	0	0	0	5	0
October	14.1	N.	63	N.	7	17	11	8	2	5	6	6	7	0	16	8	7	9	8	0	0	0	0	0	0	1	0
November	15.3	N.	45	N.	3	21	13	4	0	1	11	5	5	0	12	13	5	9	8	1	0	1	0	0	3	2	0
December	15.7	N.	45	SW.	3	24	4	2	0	2	10	12	8	0	14	12	5	9	7	0	0	0	0	0	6	0	0
Year	14.6	SW.	63	N.	37	109	161	64	33	53	161	89	58	2	144	122	99	116	93	1	0	6	1	1	15	30	0

HAVRE, MONT.

[H=2,505 ft.; h_t=46 ft.; h_r=38 ft.; h_a=53 ft.]

January	11.0	W.	48	SW.	2	1	12	2	0	0	20	19	7	1	6	17	8	5	3	5	0	0	12	0	31	0	1
February	9.0	SW.	60	SW.	2	1	18	2	0	0	13	17	5	0	14	7	7	5	2	4	0	3	18	0	28	0	0
March	9.1	NE.	39	SW.	0	4	13	12	2	0	16	9	3	3	10	15	6	6	2	5	0	2	16	0	28	0	0
April	9.4	SW.	42	SW.	1	1	11	8	2	1	10	15	8	4	11	12	7	7	5	2	0	0	0	0	15	0	1
May	10.9	SW.	42	NW.	1	5	7	3	2	2	15	16	11	1	6	16	9	12	8	4	0	0	0	1	5	1	0
June	9.1	E.	48	SW.	1	2	12	12	4	1	7	11	8	3	13	14	3	8	5	0	0	0	0	0	0	3	0
July	8.0	W.	40	NW.	1	1	5	7	8	1	10	16	12	2	15	12	4	10	9	0	0	0	0	4	0	7	0
August	8.3	E.	38	NW.	0	2	9	15	4	1	10	9	9	3	18	8	5	12	9	0	0	2	0	1	0	11	2
September	9.7	SW.	48	SW.	2	2	9	12	3	2	10	12	7	3	9	12	9	8	5	0	0	0	0	0	1	1	0
October	10.4	SW.	42	SW.	1	0	3	5	1	2	18	13	13	7	22	6	3	4	2	0	2	0	0	0	10	0	4
November	10.1	SW.	48	SW.	1	1	8	7	2	0	16	17	8	1	11	13	6	7	3	5	0	1	10	0	24	0	2
December	12.3	SW.	46	SW.	1	0	3	7	1	0	22	21	8	0	12	12	7	3	1	2	0	0	4	0	27	0	0
Year	9.8	SW.	60	SW.	13	20	110	92	29	10	167	175	99	28	147	144	74	87	54	27	2	8	60	6	169	23	10

HELENA, MONT.

[H=4,110 ft.; h_t=88 ft.; h_r=80 ft.; h_a=94 ft.]

January	7.1	SW.	45	SW.	2	7	6	0	1	2	30	9	7	0	10	10	11	6	4	4	0	0	12	0	27	0	0
February	6.1	SW.	33	SW.	0	9	4	3	0	2	17	15	6	0	12	9	7	2	1	2	0	0	13	0	28	0	0
March	7.5	SW.	33	W.	0	8	6	2	2	4	17	10	13	0	9	9	13	8	6	6	0	0	7	0	25	1	0
April	8.9	SW.	33	SW.	0	4	3	1	1	0	27	21	3	0	9	9	12	12	4	6	0	0	1	0	12	1	0
May	8.8	SW.	39	W.	0	3	5	5	2	3	21	14	9	0	7	14	10	11	6	7	0	0	0	0	3	2	0
June	8.1	SW.	29	W.	0	7	3	4	1	1	28	6	10	0	14	9	7	10	5	0	1	0	0	0	0	6	0
July	7.8	SW.	34	SW.	0	7	4	3	0	0	33	9	5	1	11	14	6	13	10	0	0	4	0	0	0	16	0
August	7.5	SW.	35	SW.	0	12	6	4	1	2	26	5	6	0	23	5	3	8	3	0	0	0	0	1	0	6	0
September	8.6	SW.	42	SW.	1	4	4	2	2	1	21	22	4	0	9	12	9	7	4	1	2	0	0	0	1	1	0
October	7.9	SW.	48	SW.	2	0	1	0	0	3	38	19	1	0	12	12	7	6	2	0	0	0	0	0	2	1	1
November	6.3	SW.	45	W.	1	3	4	1	0	3	26	16	7	0	4	9	17	10	6	9	0	2	10	0	23	0	0
December	7.2	SW.	42	W.	3	7	4	1	0	2	20	17	10	1	11	7	13	7	3	6	0	0	7	0	28	0	0
Year	7.6	SW.	48	SW.	9	71	50	26	10	23	304	163	81	2	131	119	115	100	54	41	7	2	50	1	149	84	1

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

HOUGHTON, MICH.[a]

[λ=47° 3′ N.; φ=88° 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	29.147	29.563	28.598	16.2	.....	23.7	11.8	17.8	38	− 3	8	....	66	....	.067	.....	2.54	.39	7.9	.....	8.4
February	29.291	29.695	28.809	12.2	.....	25.0	9.0	17.0	46	−13	3	....	65	....	.058	.....	1.74	.70	6.4	.....	6.6
March	29.370	29.767	28.809	26.9	.....	37.5	24.1	30.8	56	5	20	....	74	....	.113	.....	3.27	1.02	6.5	.....	6.9
April	29.236	29.614	28.672	35.2	.....	47.0	31.6	39.3	76	21	26	....	68	....	.141	.....	3.70	1.52	5.8	.....	5.6
May	29.316	29.753	28.845	46.6	.....	60.6	42.0	51.3	89	26	40	....	80	....	.202	.....	4.85	1.29	4.7	.....	5.1
June	29.273	29.694	28.920	54.9	.....	69.8	47.2	58.5	84	35	46	....	74	....	.321	.....	.60	.22	5.0	.....	3.7
July	29.198	29.546	28.844	61.9	.....	73.9	54.2	64.0	94	47	56	....	80	....	.446	.....	4.66	1.29	4.6	.....	3.8
August	29.267	29.586	28.821	57.0	.....	68.0	51.8	59.9	82	44	52	....	85	....	.394	.....	2.03	.72	5.7	.....	4.9
September	29.251	29.623	28.792	50.9	.....	64.1	47.1	55.6	85	35	44	....	79	....	.302	.....	3.03	.66	6.5	.....	5.9
October	29.267	29.741	28.456	43.2	.....	56.5	39.7	48.1	73	31	38	....	83	....	.235	.....	3.52	2.31	3.8	.....	4.5
November	29.276	29.815	28.604	30.7	.....	37.0	27.1	32.0	67	11	24	....	76	....	.139	.....	5.17	1.18	7.9	.....	8.1
December	29.176	29.564	28.632	15.8	.....	21.9	11.4	16.6	34	− 9	10	....	76	....	.072	.....	4.06	.92	9.2	.....	8.6
Year	29.256	29.815	28.456	37.6	.....	48.8	33.1	40.9	94	−13	31	....	76	....	.212	.....	39.17	2.31	6.2	.....	6.0

HURON, S. DAK.

[λ=44° 21′ N.; φ=98° 14′ W.]

January	28.563	28.915	28.013	9.7	17.1	23.8	2.9	13.4	45	−17	6	12	84	78	.061	.078	.08	.03	4.5	3.5	5.0
February	28.748	29.155	28.136	1.8	12.3	18.0	3.0	7.5	39	−29	−2	7	80	77	.045	.068	.31	.23	3.5	4.1	3.5
March	28.686	29.047	28.259	22.7	33.9	40.1	20.8	30.4	65	3	20	26	90	71	.114	.142	1.02	.74	5.8	6.1	5.7
April	28.535	28.994	28.049	35.9	53.6	59.1	32.9	46.0	75	17	31	33	82	49	.178	.194	1.26	.77	5.2	5.3	5.7
May	28.530	28.951	28.096	49.3	65.1	70.7	45.6	58.2	83	31	44	45	83	50	.309	.309	1.99	.60	5.6	5.9	5.6
June	28.616	29.008	28.247	56.5	71.6	76.7	51.1	63.9	87	35	52	52	85	52	.396	.403	2.54	.99	5.0	5.3	5.6
July	28.566	28.795	28.128	61.7	77.3	82.8	57.7	70.2	97	44	56	56	83	50	.462	.471	1.61	.94	5.6	4.4	3.7
August	28.571	28.784	28.235	59.0	75.1	79.9	56.5	68.2	98	42	56	58	91	59	.462	.507	1.09	.27	5.9	4.0	5.4
September	28.570	29.039	27.935	48.1	62.2	71.1	44.6	57.8	88	25	45	45	89	66	.317	.316	2.62	1.68	7.0	5.7	6.6
October	28.637	29.131	27.874	38.8	54.8	66.1	35.9	51.0	82	24	34	34	83	48	.205	.212	.34	.16	4.0	3.8	4.5
November	28.697	29.118	28.118	22.0	31.2	40.8	17.7	29.2	71	− 9	19	21	89	67	.116	.126	.37	.17	5.3	4.2	6.2
December	28.661	29.133	28.219	10.5	16.2	27.5	1.4	14.4	46	−31	8	12	88	82	.065	.079	.60	.31	5.5	4.7	6.0
Year	28.615	29.155	27.814	34.7	47.5	54.7	30.3	42.5	98	−31	31	33	86	62	.228	.242	13.83	1.68	5.2	4.8	5.3

INDEPENDENCE, CAL.

[λ=36° 48′ N.; φ=118° 12′ W.]

January	26.047	26.374	25.612	38.1	49.5	55.5	33.5	44.5	66	22	16	15	40	26	.092	.090	.71	.58	3.4	5.0	4.6
February	26.003	26.270	25.538	30.4	44.2	48.0	27.1	37.6	63	14	16	11	55	27	.090	.073	.27	.18	2.9	2.9	2.9
March	25.911	26.223	25.673	40.8	54.8	58.7	37.5	48.1	71	26	18	15	40	24	.103	.098	.34	.25	4.5	7.5	6.8
April	25.905	26.183	25.602	44.8	63.7	66.1	42.0	54.0	80	32	20	12	37	14	.112	.077	.19	.19	2.7	3.4	3.2
May	25.882	26.100	25.622	55.4	73.0	76.1	52.4	64.2	89	37	25	22	33	16	.138	.118	T.	T.	2.0	6.1	4.6
June	25.909	26.115	25.648	64.6	84.5	86.8	63.2	75.0	99	53	30	32	29	16	.172	.184	.02	.02	2.6	4.8	4.3
July	25.925	26.065	25.667	65.9	88.5	89.7	69.6	76.6	98	54	23	21	20	8	.123	.111	.00	.00	0.6	1.2	1.1
August	25.915	26.049	25.681	67.8	90.4	91.8	65.1	78.4	99	59	30	31	25	12	.172	.175	.00	.00	0.7	2.5	2.1
September	25.949	26.198	25.610	60.6	80.0	82.6	57.6	70.1	94	47	30	31	33	18	.174	.176	T.	T.	1.0	3.7	2.6
October	26.065	26.231	25.751	53.8	71.2	76.2	50.8	63.5	84	44	26	27	35	20	.143	.147	.42	0.9	1.2	1.5	
November	26.044	26.253	25.762	45.3	59.1	65.8	40.9	53.4	75	30	24	24	42	26	.126	.131	T.	T.	3.4	4.6	4.3
December	26.140	26.372	25.750	36.2	49.5	56.2	32.1	44.2	66	24	10	13	33	23	.068	.080	.00	.00	1.6	2.5	2.5
Year	25.975	26.374	25.538	50.3	67.4	71.1	47.2	59.1	99	14	22	21	35	19	.126	.122	1.95	.58	2.2	3.8	3.4

INDIANAPOLIS, IND.

[λ=39° 46′ N.; φ=86° 10′ W.]

January	29.100	29.483	28.428	24.1	28.8	33.8	19.7	26.8	62	− 6	21	23	86	80	.124	.136	2.39	1.16	7.2	6.2	6.6
February	29.201	29.699	28.478	27.2	32.0	38.9	23.0	31.0	68	− 9	23	27	82	82	.141	.161	3.71	1.06	6.8	5.8	5.8
March	29.272	29.560	28.903	41.4	50.1	55.1	39.2	47.2	76	19	38	45	87	82	.242	.311	2.13	.49	7.3	5.4	6.5
April	29.036	29.449	28.468	47.6	54.8	60.7	43.9	52.3	79	26	41	44	78	70	.265	.307	3.72	.95	5.2	6.3	5.9
May	29.180	29.566	28.870	59.9	69.5	75.5	56.6	66.0	85	34	52	55	76	62	.418	.459	3.73	1.27	5.2	6.4	5.3
June	29.080	29.354	28.798	61.1	69.7	75.4	57.4	66.4	87	42	56	56	83	65	.454	.467	3.19	1.65	6.1	5.8	6.1
July	29.130	29.355	28.893	70.3	80.1	85.5	66.5	76.0	94	57	61	61	73	53	.554	.549	2.54	1.48	4.0	4.6	4.9
August	29.116	29.417	28.947	65.5	74.6	81.2	63.1	72.2	92	56	60	62	83	66	.529	.559	3.92	1.52	5.2	5.0	4.6
September	29.238	29.488	28.947	69.8	79.6	77.3	56.6	67.0	90	40	52	54	76	58	.411	.442	1.18	.64	3.6	3.6	3.2
October	29.230	29.646	28.707	48.6	57.8	64.1	46.6	55.4	85	29	43	45	82	64	.309	.331	3.67	1.37	3.8	3.0	3.7
November	29.233	29.778	28.691	34.9	39.7	45.9	30.5	38.2	71	14	30	30	86	69	.188	.188	1.67	.67	5.6	3.7	4.9
December	29.188	29.661	28.712	20.5	27.0	32.2	16.2	24.2	46	− 4	18	22	89	78	.102	.120	.58	.31	4.9	4.6	5.0
Year	29.167	29.778	28.428	46.7	54.6	60.5	43.3	51.9	94	− 9	41	44	81	69	.312	.336	32.46	1.65	5.4	5.0	5.2

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

HOUGHTON, MICH.

[H=668 ft.; h_t=66 ft.; h_r=57 ft.; h_a=71 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Wind. By self-register. Prevailing direction.	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.	Precipitation. 0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.0	NW.	28	W.	0	1	3	7	2	1	2	2	13	0	1	7	23	17	14	16	0	1	25	0	31	0	0
February	7.3	NW.	28	NW.	0	5	2	5	1	1	0	6	8	0	7	9	12	13	13	13	0	0	19	0	28	0	0
March	6.0	W.	35	N.	0	6	2	7	2	3	1	8	2	0	9	6	16	13	7	10	0	1	7	0	24	1	0
April	7.8	E.	29	N.	0	6	1	13	3	0	2	3	2	0	12	5	13	10	9	5	0	0	3	0	14	0	0
May	6.8	S.	27	S.	0	1	0	9	2	12	0	2	5	0	11	10	10	17	15	1	0	4	0	0	2	3	0
June	6.0	E.	24	N.	0	2	0	10	2	0	0	8	7	1	16	9	5	6	5	0	0	2	0	0	0	1	0
July	6.8	W.	29	S.	0	0	0	4	5	0	2	13	7	0	16	10	5	13	12	0	0	1	0	1	0	4	0
August	7.0	W.	28	W.	0	3	0	8	4	0	2	10	4	0	14	9	8	12	8	0	0	1	0	0	0	4	1
September	7.7	E.	27	W.	0	0	0	11	3	0	3	6	7	0	10	5	15	14	11	0	0	0	0	0	0	2	0
October	7.8	NW.	44	W.	2	1	0	5	4	3	2	7	9	0	15	7	9	10	9	1	0	6	0	0	3	3	2
November	8.0	NW.	32	W.	0	5	2	4	2	2	3	4	8	0	4	4	22	19	16	18	0	0	11	0	22	0	0
December	7.5	NW.	25	NW.	0	2	2	3	3	2	5	4	10	0	3	3	25	21	19	21	0	0	26	0	31	0	0
Year	7.2	E.	44	W.	2	32	12	86	33	24	22	73	82	1	118	84	163	165	138	85	0	16	91	1	155	18	3

HURON, S. DAK.

[H=1,306 ft.; h_t=56 ft.; h_r=52 ft.; h_a=67 ft.]

January	12.3	NW.	72	NW.	2	6	1	1	18	6	3	3	24	0	12	11	8	5	0	5	0	1	23	0	31	0	0
February	11.1	NW.	52	NW.	2	11	2	1	15	4	0	7	16	0	17	9	2	2	2	2	0	0	22	0	28	0	0
March	13.1	SE.	47	SE.	1	15	6	2	16	7	1	3	12	0	9	11	11	5	3	2	0	0	7	0	29	1	0
April	15.1	N.	42	S.	1	16	3	4	18	2	3	1	13	0	8	9	13	7	6	2	0	0	1	0	12	1	0
May	13.4	NE.	60	SE.	5	8	13	6	11	10	0	4	10	0	8	13	10	10	9	0	0	1	0	0	1	6	0
June	9.4	SE.	46	NW.	2	4	11	5	15	13	1	2	9	0	9	12	9	7	6	0	1	0	0	0	0	6	0
July	11.5	SE.	44	S.	2	10	6	8	14	9	1	2	12	0	19	8	4	6	5	0	0	0	5	0	0	13	0
August	10.1	SE.	33	NE.	0	11	5	10	19	7	1	1	8	0	12	7	12	12	9	0	0	2	0	3	0	8	0
September	11.7	SE.	46	SW.	1	14	4	2	19	7	0	5	9	0	4	12	14	11	6	0	0	0	0	0	1	6	0
October	13.4	NW.	55	S.	6	9	3	1	23	5	2	1	18	0	12	10	9	4	3	0	0	2	0	0	12	0	2
November	12.0	NW.	36	S.	0	10	2	4	11	12	0	7	13	1	8	7	15	4	3	4	0	1	10	0	26	0	1
December	12.5	NW.	48	NW.	3	6	0	2	10	9	3	8	24	0	8	10	13	7	5	7	0	0	20	0	31	0	0
Year	12.1	NW.	72	NW.	25	120	56	46	189	91	15	44	168	1	126	119	120	80	57	22	1	7	83	8	171	42	3

INDEPENDENCE, CAL.

[H=3,910 ft.; h_t=51 ft.; h_r=43 ft.; h_a=58 ft.]

January	7.2	NW.	75	W.	2	4	2	3	12	4	3	4	30	0	14	8	9	3	3	0	0	0	0	0	11	0	0
February	6.4	N.	48	W.	1	18	2	0	12	4	0	2	18	0	20	4	4	2	2	2	0	0	2	0	20	0	0
March	9.0	S.	38	S.	0	4	0	3	8	22	5	9	11	0	5	10	16	3	2	1	0	0	0	0	9	0	0
April	9.7	NW.	38	W.	0	3	0	1	16	8	2	8	21	1	19	7	4	2	1	1	0	0	0	0	1	0	0
May	9.9	NW.	43	W.	1	3	0	5	8	4	2	13	27	0	13	10	8	0	0	0	0	0	0	0	0	0	0
June	8.9	NW.	36	SE.	0	3	1	2	20	5	2	7	29	0	17	5	8	1	0	0	0	0	0	.8	0	3	0
July	9.2	SE.	38	NW.	0	1	1	1	23	5	4	4	23	0	27	4	0	0	0	0	0	0	0	15	0	0	0
August	7.4	SE.	32	W.	0	1	0	0	19	7	4	11	20	0	23	8	0	0	0	0	0	0	0	23	0	0	0
September	7.3	W.	41	SW.	1	2	4	7	11	3	6	19	8	0	19	8	3	0	0	0	0	0	0	5	0	1	0
October	6.3	NW.	31	SE.	0	0	0	3	21	5	2	17	14	0	27	3	1	1	1	0	0	0	0	0	0	0	0
November	6.2	NW.	39	W.	0	2	1	2	13	7	2	11	22	0	13	7	10	0	0	0	0	0	0	0	1	0	0
December	6.9	NW.	40	W.	1	4	1	1	6	11	0	5	34	0	21	7	3	0	0	0	0	0	0	0	19	0	0
Year	7.9	NW.	75	W.	6	45	12	28	169	85	32	110	248	1	218	81	66	12	9	4	0	0	2	51	61	4	0

INDIANAPOLIS, IND.

[H=822 ft.; h_t=154 ft.; h_r=146 ft.; h_a=164 ft.]

January	12.1	S.	38	SW.	0	1	6	2	11	13	10	11	8	0	9	5	17	12	8	8	0	2	12	0	27	0	0
February	12.4	S.	43	SW.	1	10	7	3	4	9	10	9	4	0	11	4	13	13	10	6	0	0	7	0	20	0	0
March	9.9	NE.	50	SW.	1	11	13	9	11	11	9	6	1	0	2	19	10	12	8	2	0	1	1	0	7	1	0
April	12.5	S.	42	S.	2	13	3	3	4	22	3	3	9	0	9	10	11	14	14	1	0	0	0	0	3	3	0
May	10.5	S.	42	SW.	1	3	12	8	14	17	3	3	2	0	10	11	10	11	7	0	1	0	0	0	0	6	0
June	8.9	N.	29	W.	0	14	12	3	3	7	5	9	7	0	3	18	9	10	9	0	0	0	0	0	0	3	0
July	9.2	NW.	46	SW.	2	7	9	1	8	8	10	7	12	0	9	16	6	7	5	0	0	0	0	12	0	6	0
August	8.2	S.	42	SW.	1	9	6	7	2	13	9	5	11	0	14	9	8	12	10	0	0	0	0	2	0	9	0
September	8.7	S.	37	S.	0	5	1	0	10	20	5	9	10	0	19	7	4	5	4	0	0	0	0	1	0	2	0
October	9.7	S.	48	W.	1	7	5	3	7	17	8	5	10	0	17	6	8	8	6	0	0	0	0	0	4	4	0
November	10.0	S.	41	SW.	1	6	5	4	11	8	2	10	14	0	14	7	9	6	5	2	0	0	6	0	15	2	0
December	12.0	S.	40	S.	2	5	0	1	6	12	18	9	11	0	10	12	9	9	5	6	0	0	14	0	30	0	0
Year	10.3	S.	50	SW.	12	91	79	35	91	157	92	86	99	0	127	124	114	119	91	25	1	3	40	15	106	36	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

JACKSONVILLE, FLA.

[λ=30° 20′ N.; φ=81° 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	30.012	30.375	29.646	48.4	53.3	60.5	45.1	52.8	78	28	44	45	84	75	.309	.321	4.44	1.74	6.2	6.0	7.2
February	30.085	30.442	29.486	54.3	58.9	67.6	50.7	59.2	81	29	49	50	83	74	.384	.394	5.23	2.03	6.7	5.4	6.5
March	30.043	30.314	29.614	62.4	65.8	73.5	60.0	66.8	80	48	58	59	87	80	.503	.513	2.55	1.03	6.0	4.6	6.4
April	29.930	30.275	29.477	61.1	66.9	74.3	56.7	65.5	82	47	53	52	74	61	.412	.405	1.54	1.01	3.5	3.0	3.9
May	29.949	30.115	29.612	69.5	71.2	79.1	65.9	72.5	93	60	65	64	86	80	.619	.597	14.80	9.06	5.7	5.7	6.1
June	29.881	30.103	29.699	74.5	76.8	85.8	70.0	77.9	90	62	68	67	80	74	.688	.677	3.22	1.03	5.2	6.6	6.1
July	29.969	30.118	29.791	78.3	79.4	89.1	73.4	81.2	97	69	72	72	82	79	.794	.783	2.54	.69	3.3	5.5	4.6
August	29.934	30.210	29.757	78.5	79.2	90.2	73.9	82.0	97	69	74	73	86	82	.831	.812	6.60	2.01	3.2	6.6	5.8
September	29.989	30.197	29.807	73.9	76.3	83.6	70.1	76.8	92	61	67	68	81	76	.682	.690	2.80	1.08	3.9	3.6	4.9
October	29.988	30.225	29.648	64.4	68.7	76.7	61.0	68.8	86	41	59	60	82	75	.524	.538	2.83	1.56	3.9	2.5	4.3
November	30.024	30.308	29.734	54.0	59.9	67.4	51.8	59.6	81	25	50	52	88	75	.405	.425	3.82	1.28	4.9	4.5	5.4
December	30.093	30.294	29.615	48.5	51.2	61.1	39.8	50.4	76	26	36	38	76	64	.229	.246	1.66	.67	2.7	1.2	3.1
Year	29.991	30.442	29.477	63.6	67.3	75.7	59.9	67.8	97	26	58	58	82	75	.532	.533	52.03	9.06	4.6	4.6	5.4

JUPITER, FLA.

[λ=26° 57′ N.; φ=80° 7′ W.]

January	30.023	30.234	29.675	63.4	66.1	73.3	59.9	66.6	81	37	59	60	87	81	.530	.541	6.94	3.43	6.4	5.3	5.6
February	30.080	30.353	29.746	69.2	70.6	76.3	64.9	70.6	84	40	63	64	81	79	.590	.608	4.50	2.44	6.0	4.6	5.7
March	30.039	30.231	29.787	72.5	72.2	78.2	69.2	73.7	83	62	66	66	79	80	.638	.634	9.27	2.49	6.0	5.7	5.5
April	29.961	30.243	29.658	70.4	71.1	78.4	65.2	71.8	85	53	60	60	70	67	.525	.525	.44	.31	3.5	2.5	4.0
May	29.949	30.115	29.660	75.9	74.9	81.7	70.3	76.0	85	62	66	66	72	74	.640	.637	2.71	1.26	3.7	4.2	4.2
June	29.927	30.104	29.799	79.4	77.6	85.2	73.8	79.5	90	70	72	71	80	81	.797	.763	7.01	1.54	5.9	6.5	6.3
July	30.006	30.110	29.914	81.2	79.8	86.8	74.7	80.8	91	71	74	74	78	82	.833	.836	3.23	.88	4.5	5.4	5.1
August	29.976	30.189	29.851	82.4	81.5	89.9	75.9	82.9	96	69	76	75	80	80	.882	.860	2.47	.69	3.6	4.4	4.5
September	29.962	30.122	29.632	79.6	79.2	88.4	73.9	79.6	93	69	73	72	81	80	.816	.797	15.82	6.67	6.1	5.8	6.0
October	29.959	30.206	29.652	74.2	75.0	81.4	69.4	75.4	88	52	65	65	73	71	.631	.629	1.81	1.05	4.6	4.0	4.3
November	29.998	30.163	29.797	66.5	68.4	76.5	62.7	69.6	84	30	61	62	83	79	.564	.571	2.50	1.12	4.7	4.2	4.2
December	30.078	30.238	29.737	58.1	62.5	71.3	53.8	62.6	78	40	52	56	82	80	.408	.457	.56	.21	4.6	3.6	4.3
Year	29.996	30.353	29.632	72.7	73.2	80.4	67.8	74.1	96	38	66	66	79	78	.654	.655	57.26	6.67	5.0	4.7	5.0

KALISPELL, MONT.

[λ=48° 10′ N.; φ=114° 25′ W.]

January	26.913	27.437	26.227	25.4	29.7	33.7	21.6	27.6	53	4	22	24	84	77	.116	.125	.91	.37	7.0	8.8	7.5
February	27.016	27.346	26.549	14.4	25.6	30.3	10.8	20.6	46	— 4	11	18	87	72	.074	.100	.48	.19	4.2	4.6	3.6
March	26.847	27.245	26.490	26.4	38.0	41.1	24.3	32.7	58	6	20	23	75	55	.111	.127	.53	.31	5.0	5.2	4.6
April	26.869	27.282	26.556	32.9	47.6	50.6	31.6	41.1	71	22	26	25	77	42	.143	.132	.95	.28	5.4	6.7	5.1
May	26.861	27.225	26.536	38.2	55.7	58.8	37.0	47.9	88	28	33	34	81	46	.189	.195	1.07	.27	6.1	6.1	4.6
June	26.931	27.286	26.645	51.0	70.1	73.5	49.4	61.4	88	41	44	43	78	42	.286	.290	1.61	.59	5.3	4.9	3.4
July	26.923	27.074	26.706	49.0	69.1	72.5	47.9	60.2	90	40	43	45	82	47	.284	.307	1.70	.47	4.4	4.8	3.4
August	26.890	27.124	26.700	49.2	73.3	76.2	48.5	62.4	90	40	43	44	81	58	.279	.296	.78	.31	3.5	3.3	2.9
September	26.919	27.211	26.572	41.0	58.2	62.5	39.2	50.8	78	27	35	38	81	51	.207	.235	1.49	.64	4.9	5.9	5.3
October	27.008	27.289	26.419	35.4	50.6	55.7	33.2	44.4	71	23	31	37	85	62	.176	.225	1.11	.40	3.6	4.7	4.5
November	26.956	27.491	26.347	25.0	31.0	35.5	22.0	28.8	60	—10	22	25	87	80	.126	.143	3.13	1.40	7.5	7.4	7.6
December	27.089	27.397	26.622	23.7	28.2	31.4	19.8	25.6	48	10	21	25	87	86	.111	.131	.87	.34	6.8	7.3	8.8
Year	26.935	27.491	26.227	34.3	48.1	51.8	32.1	42.0	90	—10	29	32	82	58	.176	.192	14.63	1.40	5.3	5.8	5.1

KANSAS CITY, MO.

[λ=39° 5′ N.; φ=94° 37′ W.]

January	29.000	29.381	28.527	26.9	34.3	39.0	24.1	31.6	55	0	22	25	80	69	.123	.143	.50	.24	4.2	3.6	5.1
February	29.107	29.630	28.366	22.7	31.3	36.3	20.7	28.5	64	— 9	19	24	84	72	.111	.136	1.89	.78	5.1	5.7	4.7
March	29.106	29.444	28.817	38.4	50.0	55.1	35.8	45.4	76	17	34	37	84	63	.208	.235	1.92	.87	4.1	4.8	5.5
April	28.905	29.356	28.416	49.2	59.2	65.4	45.9	55.6	83	30	40	40	73	52	.262	.265	2.78	1.36	5.1	4.5	5.2
May	28.918	29.344	28.612	59.2	67.8	72.5	56.5	64.5	84	36	54	55	84	66	.437	.457	7.67	1.67	6.0	6.3	6.3
June	28.982	29.336	28.653	62.2	73.5	77.3	60.6	69.0	92	48	56	56	81	58	.456	.472	2.35	.96	4.9	4.5	4.8
July	28.972	29.162	28.695	72.0	83.4	87.3	70.0	78.6	97	60	64	65	77	55	.607	.623	3.10	1.27	4.1	3.5	2.9
August	28.979	29.186	28.697	68.0	78.9	83.4	66.5	75.0	96	54	64	65	86	63	.594	.623	6.40	2.22	4.9	2.5	4.4
September	29.034	29.248	28.684	59.6	69.4	76.8	57.1	67.0	90	44	53	55	79	62	.418	.457	6.12	4.98	4.6	3.6	4.3
October	29.077	29.456	28.497	50.7	61.0	67.4	49.1	58.2	85	38	42	44	76	57	.293	.312	3.86	1.29	3.2	2.8	3.5
November	29.104	29.594	28.495	37.1	43.0	48.4	34.0	41.2	71	14	30	31	74	62	.181	.191	1.61	1.14	5.3	2.6	5.1
December	29.097	29.568	28.636	26.3	33.7	41.3	22.5	31.9	61	1	21	23	78	63	.115	.127	1.02	.68	3.4	1.6	3.9
Year	29.023	29.630	28.366	47.6	57.1	62.5	45.2	53.9	97	— 9	42	43	80	62	.317	.337	39.22	4.98	4.6	3.8	4.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

JACKSONVILLE, FLA.

[H=43 ft.: h_t=101 ft.: h_r=88 ft.: h_a=129 ft.]

Month.	Wind.														Number of days.													
	By self-register.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.		Minimum temperature below 32°.	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°.		Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.6	NE.	57	SW.	1	9	12	2	3	9	9	8	10	0	7	4	20	14	9	0	0	4	0	0	2	2	0
February	11.8	S.	75	SW.	3	14	8	5	3	11	5	2	8	0	5	9	14	14	10	0	0	1	0	0	1	5	0
March	9.5	NE.	36	SW.	0	4	21	12	11	4	4	1	5	0	4	13	14	11	9	0	0	1	0	0	0	3	0
April	11.3	SW.	51	SW.	2	3	9	2	12	3	13	5	13	0	14	11	5	4	3	0	0	1	0	0	0	3	0
May	9.7	E.	31	E.	0	5	12	16	12	6	8	2	1	0	7	12	12	13	11	0	0	0	0	3	0	8	0
June	9.1	SW.	41	S.	2	3	1	3	17	8	18	2	8	0	3	20	7	10	8	0	1	0	0	0	0	20	0
July	8.2	S.	33	S.	0	4	4	6	11	16	16	3	2	0	11	14	6	11	10	0	0	0	0	10	0	17	0
August	8.3	SW.	55	W.	2	1	0	5	17	8	20	9	2	0	5	19	7	22	16	0	0	0	0	15	0	25	0
September	10.6	E.	46	SW.	1	12	12	15	8	6	3	2	2	0	11	13	6	8	8	0	0	0	0	1	0	7	0
October	8.9	NE.	42	SW.	1	17	15	13	1	1	4	2	9	0	14	11	6	7	5	0	0	1	0	0	0	2	0
November	9.5	N.	33	NE.	0	14	9	3	7	1	7	3	16	0	9	13	8	11	9	0	0	1	0	0	2	3	0
December	8.8	NW.	46	S.	2	10	8	2	5	4	6	6	21	0	18	8	5	6	6	0	0	3	0	0	1	0	0
Year	9.6	NE.	75	SW.	14	96	111	84	107	77	113	45	97	0	108	147	110	131	104	0	1	12	0	29	6	95	0

JUPITER, FLA.

[H=28 ft.: h_t=10 ft.: h_r=3 ft.: h_a=48 ft.]

January	9.9	NW.	36	S.	0	5	8	4	8	8	6	10	13	0	5	19	7	15	12	0	0	0	0	0	0	0	0
February	15.3	SE.	42	SE.	1	4	10	8	14	8	4	1	7	0	5	17	6	9	7	0	0	0	0	0	0	1	0
March	12.6	NE.	36	SE.	0	3	19	16	11	4	3	2	4	0	8	14	9	17	14	0	0	0	0	0	0	6	0
April	12.0	E.	33	SW.	0	5	9	10	5	8	5	10	8	0	14	16	0	5	2	0	0	0	0	0	0	1	0
May	10.8	NE.	32	SE.	0	2	25	13	8	3	3	6	2	0	14	16	1	9	7	0	0	0	0	0	0	6	0
June	9.4	S.	30	S.	0	1	7	11	9	15	8	4	5	0	3	20	7	18	15	0	0	0	0	0	0	17	0
July	8.5	E.	40	SE.	1	5	0	21	13	10	5	3	5	0	5	24	2	15	9	0	0	0	0	1	0	13	0
August	8.8	SE.	48	SE.	1	1	4	15	15	13	8	6	0	0	7	23	1	14	8	0	0	0	0	11	0	15	0
September	12.1	NE.	78	NE.	2	10	17	6	13	1	2	4	7	0	3	21	6	21	17	0	0	0	0	1	0	8	0
October	12.7	NE.	34	NE.	0	4	31	2	2	3	5	7	8	0	13	15	3	10	8	0	0	0	0	0	0	0	0
November	11.5	NE.	38	N.	0	8	13	5	6	5	5	6	12	0	12	17	1	14	9	0	0	1	0	0	0	1	0
December	10.8	N.	30	SW.	0	18	6	5	6	1	6	7	13	0	13	15	3	5	3	0	0	2	0	0	0	0	0
Year	11.2	NE.	78	NE.	5	66	149	116	110	79	60	66	84	0	102	217	46	152	111	0	0	3	0	13	0	68	0

KALISPELL, MONT.

[H=2,965 ft.; h_t=45 ft.; h_r=37 ft.; h_a=51 ft.]

January	4.2	W.	30	SW.	0	1	1	2	4	7	10	29	8	0	4	9	18	12	5	10	0	0	16	0	27	0	0
February	5.1	W.	30	SW.	0	2	0	1	3	2	7	35	6	0	15	10	3	8	4	8	0	0	16	0	28	0	0
March	6.6	W.	32	SW.	0	5	0	0	15	7	8	12	15	0	11	14	6	7	4	4	0	0	6	0	25	0	0
April	5.8	W.	30	SW.	0	1	0	2	9	4	17	24	3	0	10	15	5	9	7	4	0	0	0	0	18	0	0
May	6.3	W.	32	SW.	0	3	0	4	13	2	11	23	6	0	9	18	4	13	8	1	0	0	0	0	3	1	0
June	5.6	W.	24	W.	0	2	4	5	7	1	10	24	7	0	18	9	3	9	6	0	0	0	0	0	0	2	0
July	5.7	W.	24	SW.	0	2	0	7	9	2	7	30	5	0	18	10	3	14	9	0	2	0	0	0	0	7	0
August	5.7	W.	17	SW.	0	5	0	8	6	1	5	31	6	0	21	7	3	6	6	0	0	1	0	0	0	2	0
September	5.9	W.	32	SW.	0	4	0	9	4	4	13	21	4	1	10	11	9	6	5	0	0	2	0	0	0	1	0
October	4.7	W.	30	W.	0	1	1	2	11	7	8	24	7	1	13	12	6	11	6	2	0	1	0	0	14	0	1
November	4.8	W.	30	NW.	0	1	1	3	4	5	8	24	14	0	4	6	20	14	11	10	0	2	12	0	24	0	0
December	3.3	W.	37	SW.	0	1	1	1	0	9	6	40	4	0	1	4	26	9	6	7	0	5	19	0	29	0	0
Year	5.3	W.	37	SW.	0	28	8	44	85	51	110	317	85	2	134	125	106	118	77	46	2	11	69	0	168	13	1

KANSAS CITY, MO.

[H=963 ft.; h_t=78 ft.; h_r=81 ft.; h_a=95 ft.]

January	9.4	NW.	41	NW.	1	8	3	3	7	15	7	4	15	0	10	11	10	5	4	4	0	2	6	0	25	0	0
February	9.3	NW.	34	NW.	0	6	11	3	3	12	6	2	13	0	13	7	8	8	6	5	1	1	10	0	24	2	0
March	7.8	SE.	24	NW.	0	8	4	5	18	11	4	2	10	0	10	10	11	7	5	1	0	3	0	0	11	3	0
April	11.3	NW.	36	SW.	0	7	1	1	12	14	4	2	19	0	7	16	7	10	5	2	0	0	0	0	2	6	0
May	8.5	SE.	33	S.	0	3	7	10	21	15	2	2	1	1	7	9	15	20	14	0	0	0	0	0	0	16	0
June	5.6	N.	25	S.	0	16	8	4	8	8	4	2	10	0	12	8	10	10	8	0	1	2	0	1	0	5	0
July	7.6	SE.	26	SW.	0	1	4	8	18	16	6	1	8	0	19	9	3	9	7	0	0	0	0	10	0	8	0
August	6.8	S.	32	NW.	0	6	9	4	13	13	4	1	10	2	11	14	6	9	9	0	0	1	0	4	0	12	0
September	8.8	SE.	28	S.	0	3	3	1	27	13	1	1	11	0	16	3	11	9	8	0	2	0	0	0	0	6	0
October	7.2	SE.	30	S.	0	3	9	5	18	7	3	5	12	0	18	5	8	8	7	0	0	0	0	0	0	4	0
November	8.9	NW.	36	NW.	0	3	6	5	16	9	3	2	16	0	13	5	12	7	3	2	0	1	5	0	12	3	0
December	8.9	NW.	40	NW.	1	7	6	1	9	10	8	4	17	0	15	8	8	6	5	2	0	1	4	0	24	1	0
Year	8.3	SE.	41	NW.	2	71	71	50	170	143	52	28	142	3	151	105	109	108	81	16	4	11	25	15	98	66	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

KEOKUK, IOWA.

[λ=40° 22′ N.; φ=91° 26′ 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	29.322	29.701	28.782	23.0	27.7	33.0	20.0	26.5	51	−5	19	22	81	80	.112	.129	.77	.21	4.7	3.7	5.2
February	29.447	29.916	28.715	21.1	27.7	34.1	18.6	26.4	51	−13	16	22	79	76	.106	.127	1.42	.69	5.0	4.6	5.1
March	29.455	29.801	29.142	37.5	48.0	53.2	35.6	44.4	77	15	33	40	84	74	.204	.259	3.03	1.80	5.1	4.3	5.2
April	29.228	29.649	28.717	47.2	56.1	62.2	44.8	53.5	79	31	40	43	78	63	.258	.286	4.91	2.86	4.8	4.7	5.1
May	29.294	29.724	28.921	59.1	67.2	73.6	56.2	64.9	85	32	53	56	80	69	.420	.469	3.56	1.40	5.3	4.5	5.1
June	29.301	29.644	29.009	61.3	70.7	76.2	57.8	67.0	91	44	56	58	82	67	.447	.500	1.40	.46	4.0	3.7	3.9
July	29.310	29.512	28.950	70.8	80.5	87.3	67.2	77.2	96	57	63	62	77	55	.587	.564	1.27	.41	2.3	3.1	3.0
August	29.303	29.536	29.097	66.7	76.1	83.1	64.0	73.6	96	52	62	62	85	64	.565	.572	4.80	2.07	4.4	3.8	4.5
September	29.386	29.616	29.058	59.2	67.3	75.1	56.1	65.6	89	41	54	58	85	74	.439	.508	7.16	2.11	4.2	3.9	4.0
October	29.417	29.874	28.759	47.9	56.9	64.6	46.6	55.6	84	32	44	48	86	73	.307	.356	3.23	1.89	2.4	2.3	2.7
November	29.449	29.923	28.893	33.4	38.3	44.5	30.5	37.5	67	11	28	29	80	69	.172	.182	.87	.44	3.9	2.9	4.3
December	29.420	29.920	28.941	20.0	26.2	33.4	15.8	24.6	53	−7	15	18	78	71	.099	.105	.86	.52	3.7	4.0	4.6
Year	29.361	29.923	28.715	45.6	53.6	60.0	42.8	51.4	96	−13	40	43	82	70	.310	.338	33.28	2.86	4.2	3.8	4.4

KEY WEST, FLA.

[λ=24° 33′ N.; φ=81° 48′ W.]

January	30.028	30.210	29.766	67.9	69.0	73.8	64.7	69.2	80	54	64	63	87	82	.610	.592	3.43	1.17	6.5	6.1	6.9
February	30.059	30.316	29.815	71.8	73.1	77.7	69.9	73.8	84	54	67	67	85	82	.669	.674	1.97	1.24	4.5	4.7	5.5
March	30.015	30.183	29.807	74.3	74.9	79.5	71.2	75.4	83	67	67	67	79	76	.672	.657	3.23	1.14	5.5	2.9	5.2
April	29.975	30.208	29.760	73.2	73.6	77.7	70.5	74.1	82	64	62	62	69	69	.569	.571	.55	.44	3.4	2.6	3.5
May	29.942	30.089	29.729	76.6	76.4	81.6	73.7	77.6	87	68	67	67	72	72	.656	.654	.76	.34	3.8	4.2	4.2
June	29.928	30.075	29.775	82.0	80.7	87.8	76.6	82.2	91	69	73	73	74	78	.802	.809	4.74	1.95	5.0	4.4	5.4
July	29.989	30.072	29.938	83.4	82.1	88.7	78.8	83.8	91	74	74	74	74	76	.837	.837	2.87	1.11	4.4	4.1	4.4
August	29.965	30.154	29.866	83.2	83.1	89.5	78.5	84.0	93	72	74	74	75	73	.847	.831	4.24	2.29	4.0	3.0	4.2
September	29.952	30.060	29.824	82.0	81.5	87.5	76.6	82.0	93	70	74	73	77	77	.843	.823	3.00	1.22	4.3	5.3	5.6
October	29.945	30.187	29.736	75.8	76.3	81.9	72.6	77.2	86	61	68	69	78	78	.695	.709	4.10	2.09	3.8	1.8	4.9
November	29.998	30.124	29.835	71.2	71.1	76.7	67.9	72.3	83	51	64	65	80	80	.621	.620	.76	.65	2.8	2.7	3.6
December	30.075	30.252	29.858	64.2	65.5	70.0	61.8	65.9	81	56	58	58	80	77	.492	.487	.71	.42	3.2	3.2	4.1
Year	29.989	30.316	29.729	75.5	75.6	81.0	71.9	76.5	93	51	68	68	78	77	.693	.689	30.36	2.29	4.3	3.8	4.8

KNOXVILLE, TENN.

[λ=35° 56′ N.; φ=83° 58′ W.]

January	28.987	29.392	28.507	31.7	39.1	45.2	29.5	37.4	72	12	28	31	87	72	.166	.184	2.10	.51	4.8	5.9	6.8
February	29.058	29.551	28.237	35.3	44.0	52.3	31.6	42.0	72	8	31	34	86	69	.192	.219	8.35	2.51	5.0	4.2	5.4
March	29.087	29.398	28.687	49.5	57.8	64.3	47.4	55.8	78	30	47	48	92	71	.341	.356	6.96	1.86	6.4	6.4	6.1
April	28.883	29.321	28.418	49.4	58.9	67.1	45.3	56.2	84	30	44	45	84	68	.300	.307	7.21	3.10	5.7	5.7	5.0
May	29.012	29.267	28.801	63.0	72.9	80.3	57.7	69.0	92	40	56	54	77	53	.454	.431	3.09	1.49	5.4	5.2	3.9
June	28.900	29.165	28.659	64.1	71.9	78.8	59.4	69.1	87	42	60	60	88	68	.530	.528	3.39	1.15	5.8	5.5	5.3
July	28.987	29.183	28.800	72.5	78.6	87.8	66.8	77.3	95	56	66	65	82	66	.656	.629	2.26	.76	4.8	4.2	4.1
August	28.961	29.276	28.758	70.5	77.1	86.7	66.1	76.4	92	61	67	67	88	71	.659	.657	3.86	1.07	4.7	3.7	3.9
September	29.075	29.312	28.856	62.3	73.0	82.5	57.5	70.0	92	43	56	54	80	53	.463	.442	.62	.40	2.8	1.6	2.6
October	29.070	29.386	28.733	48.7	61.3	69.5	46.0	57.8	85	30	44	44	84	54	.313	.316	1.88	.94	3.0	2.1	3.6
November	29.073	29.534	28.554	37.5	46.4	53.5	35.2	44.4	74	16	33	34	84	62	.215	.218	4.19	2.20	5.3	3.5	5.7
December	29.071	29.361	28.638	28.2	36.5	43.0	25.8	34.4	57	13	23	23	80	58	.127	.128	1.98	1.03	4.5	3.4	4.5
Year	29.014	29.551	28.237	51.1	59.8	67.6	47.4	57.5	95	8	46	47	84	63	.368	.368	45.89	3.10	4.8	4.3	4.7

LA CROSSE, WIS.[a]

[λ=43° 49′ N.; φ=91° 15′ W.]

January	29.191	29.591	28.612	14.9	.....	26.2	9.5	17.8	43	−8	11	.....	82	.....	.078	.....	.20	.05	5.2	.....	5.5
February	29.321	29.730	28.726	12.1	.....	27.2	7.9	17.6	49	−18	8	.....	81	.....	.072	.....	.95	.50	4.8	.....	3.6
March	29.340	29.687	28.960	33.7	.....	45.2	30.7	38.0	71	6	31	.....	90	.....	.179	.....	1.66	.46	5.6	.....	5.7
April	29.145	29.613	28.561	42.7	.....	57.2	40.2	48.7	71	26	37	.....	80	.....	.226	.....	4.81	1.91	5.3	.....	5.6
May	29.226	29.537	28.742	55.7	.....	70.8	52.8	61.8	83	34	51	.....	84	.....	.384	.....	6.74	2.48	5.1	.....	5.5
June	29.239	29.631	28.992	68.2	.....	76.4	55.0	65.2	84	40	53	.....	83	.....	.408	.....	1.88	.87	4.2	.....	4.3
July	29.205	29.500	28.875	66.3	.....	80.4	63.0	71.7	90	47	61	.....	84	.....	.544	.....	4.25	1.56	3.7	.....	4.4
August	29.217	29.450	29.000	61.1	.....	74.4	58.7	66.6	85	50	58	.....	90	.....	.488	.....	8.36	3.04	6.3	.....	6.8
September	29.260	29.506	28.787	54.6	.....	68.9	51.4	60.2	82	37	50	.....	85	.....	.375	.....	3.28	1.01	4.5	.....	4.9
October	29.310	29.770	28.631	44.8	.....	60.5	43.1	51.8	77	32	40	.....	83	.....	.258	.....	1.51	.91	3.3	.....	4.0
November	29.326	29.811	28.626	27.6	.....	40.0	25.4	32.7	66	6	23	.....	82	.....	.133	.....	.04	.02	4.3	.....	5.8
December	29.246	29.703	28.800	12.2	.....	28.7	6.0	14.8	39	−21	8	.....	83	.....	.071	.....	.82	.44	6.0	.....	6.3
Year	29.252	29.811	28.561	40.3	.....	54.2	37.0	45.6	90	−21	36	.....	84	.....	.268	.....	34.40	3.04	4.9	.....	5.2

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

KEOKUK, IOWA.

[H=614 ft.; h_t=63 ft.; h_r=56 ft.; h_a=78 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	8.7	SW.	40	NW.	1	4	6	3	7	5	17	5	15	0	12	5	14	10	7	10	0	2	12	0	25	0	0
February	8.9	SW.	34	W.	0	8	5	6	1	4	14	7	11	0	10	7	11	9	6	7	0	2	10	0	24	0	0
March	7.9	SW.	32	W.	0	10	6	4	8	10	13	5	6	0	11	11	9	11	7	1	1	3	6	0	12	2	0
April	9.9	N.	32	W.	0	15	0	3	14	4	10	2	11	1	10	13	7	11	8	2	0	0	0	0	2	4	0
May	7.8	SE.	30	W.	0	3	8	7	14	12	10	3	5	0	9	15	7	10	9	0	0	0	0	0	0	10	0
June	5.8	NW.	20	NW.	0	11	7	10	1	2	6	6	14	3	11	16	3	8	8	0	0	0	0	1	0	4	0
July	6.8	SW.	30	SE.	0	5	2	8	8	7	17	1	13	1	17	14	0	7	7	0	0	0	0	9	0	6	0
August	6.4	SW.	30	NW.	0	10	3	8	4	6	17	1	12	1	10	16	5	9	7	0	0	0	0	7	0	7	0
September	7.0	S.	24	S.	0	5	0	2	10	20	11	2	8	2	15	5	10	10	10	0	0	1	0	0	0	9	0
October	6.9	SW.	36	W.	0	6	4	8	11	6	14	4	7	2	19	8	4	5	4	0	0	0	0	0	1	4	0
November	8.1	NW.	34	SW.	0	5	4	7	8	6	10	4	13	3	12	11	7	5	3	2	0	3	5	0	18	2	0
December	8.9	NW.	42	NW.	1	3	5	2	5	5	14	13	15	0	12	11	8	5	3	2	0	2	12	0	30	0	0
Year	7.8	SW.	42	NW.	2	85	50	68	91	87	153	53	130	13	148	132	85	100	79	21	1	13	39	17	112	48	0

KEY WEST, FLA.

[H=22 ft.; h_t=10 ft.; h_r=3 ft.; h_a=53 ft.]

January	10.4	NE.	40	NW.	1	9	22	12	4	3	3	2	7	0	6	8	17	11	8	0	0	0	0	0	0	1	0
February	11.4	SE.	36	NW.	0	3	14	12	19	3	1	0	3	1	9	10	9	7	4	0	0	0	0	0	0	1	0
March	10.4	E.	36	W.	0	5	6	31	11	3	1	3	2	0	10	12	9	12	10	0	0	0	0	0	0	3	0
April	11.4	E.	30	NW.	0	2	16	18	6	2	1	2	13	0	15	12	3	4	3	0	0	0	0	0	0	0	0
May	10.0	E.	36	NW.	0	3	10	24	8	1	3	1	12	0	18	9	6	6	4	0	0	0	0	0	0	1	0
June	7.4	SE.	45	NW.	1	5	3	14	12	10	13	2	1	0	8	14	8	11	10	0	0	0	0	3	0	3	0
July	8.1	SE.	35	W.	0	2	5	26	10	7	5	5	2	0	12	18	1	14	10	0	0	0	0	4	0	4	0
August	7.0	SE.	34	E.	0	2	6	18	28	4	3	1	0	0	14	15	2	10	10	0	0	0	0	15	0	7	0
September	7.8	NE.	40	SW.	1	8	19	17	4	4	6	1	1	0	8	11	11	11	8	0	0	0	0	3	0	8	0
October	10.7	NE.	25	W.	0	3	58	12	3	1	0	0	5	0	10	15	6	13	8	0	0	0	0	0	0	1	0
November	10.3	NE.	26	N.	0	13	39	2	1	0	0	3	2	0	13	15	2	3	3	0	0	0	0	0	0	0	0
December	10.3	NE.	40	W.	1	8	39	4	1	1	3	1	5	0	14	10	7	5	4	0	0	1	0	0	0	1	0
Year	9.6	NE.	45	NW.	4	63	217	190	107	39	39	21	53	1	135	149	81	107	82	0	0	1	0	25	0	30	0

KNOXVILLE, TENN.

[H=1,004 ft.; h_t=35 ft.; h_r=25 ft.; h_a=88 ft.]

January	8.1	SW.	40	W.	2	6	3	1	1	9	23	14	5	0	7	4	20	13	9	1	0	4	3	0	20	0	0
February	8.9	SW.	60	SW.	3	9	7	4	4	1	18	8	5	0	13	2	13	14	14	1	0	4	2	0	15	0	0
March	6.3	W.	32	NE.	0	11	8	2	2	9	8	13	8	1	7	10	14	18	15	0	0	2	0	0	1	3	0
April	8.9	SW.	45	SW.	3	12	4	1	0	7	19	8	9	0	13	7	10	13	10	0	0	2	0	0	1	3	0
May	7.3	SW.	30	SE.	0	4	19	5	1	3	20	6	4	0	15	12	4	5	5	0	0	0	0	1	0	5	0
June	6.0	SW.	30	NW.	0	7	10	4	1	3	18	7	10	0	9	14	7	12	10	0	0	1	0	0	0	9	0
July	6.2	SW.	31	SW.	0	5	10	2	1	3	26	6	9	0	13	15	3	10	8	0	0	0	0	13	0	12	0
August	5.4	SW.	70	NW.	2	11	6	1	5	1	18	10	9	1	13	14	4	15	9	0	0	1	0	6	0	12	0
September	5.9	N.	40	S.	1	17	8	7	7	6	6	2	7	0	21	6	3	2	2	0	0	0	0	4	0	2	0
October	6.3	N.	32	S.	0	18	14	3	1	6	14	3	3	0	18	8	5	7	5	0	0	4	0	0	0	2	0
November	6.9	NE.	60	SW.	2	11	18	3	0	3	8	5	10	2	10	8	12	5	5	0	0	7	1	0	12	3	0
December	7.3	SW.	39	SW.	0	13	5	4	3	2	27	4	4	0	16	4	11	10	8	3	0	1	0	0	27	0	0
Year	7.0	SW.	70	NW.	13	124	112	37	26	53	205	86	83	4	155	104	106	124	100	5	1	26	6	24	78	49	0

LA CROSSE, WIS.

[H=714 ft.; h_t=71 ft.; h_r= 63 ft.; h_a=87 ft.]

January	7.6	NW.	38	NW.	0	5	1	1	3	8	1	2	10	0	12	7	12	9	2	8	0	1	19	0	31	0	0
February	8.6	S.	38	N.	0	8	0	0	1	11	0	5	2	1	14	3	11	3	3	2	0	2	16	0	27	0	0
March	7.6	S.	25	NW.	0	8	1	0	1	16	2	1	2	0	9	8	14	12	10	5	0	3	0	0	16	3	0
April	11.5	N.	36	W.	0	18	0	2	3	8	3	1	0	0	10	9	11	15	12	1	0	0	0	0	3	5	0
May	7.8	S.	27	S.	0	3	5	1	5	16	0	1	0	0	7	18	6	19	17	0	0	0	0	0	0	9	0
June	6.1	S.	37	S.	0	7	4	1	1	11	1	4	1	0	14	12	4	8	4	0	0	2	0	0	0	4	0
July	6.6	S.	27	N.	0	7	2	1	3	8	5	4	1	0	12	15	4	9	4	0	0	2	0	0	0	5	0
August	6.1	S.	40	N.	1	4	5	3	6	7	2	1	3	0	3	16	12	14	14	0	1	6	0	0	0	7	0
September	8.3	S.	30	S.	0	5	1	0	4	13	1	1	5	0	11	11	8	12	10	0	1	1	0	0	0	5	0
October	7.4	S.	36	W.	0	4	1	1	2	10	4	6	3	0	18	5	8	6	4	0	0	4	0	0	2	2	0
November	8.5	N.	28	N.	0	10	2	1	1	8	1	3	4	0	8	10	12	2	0	1	0	3	8	0	21	0	0
December	7.8	S.	27	NW.	0	6	0	0	0	12	3	7	3	0	6	13	12	11	4	11	0	0	22	0	31	0	0
Year	7.8	S.	40	N.	1	80	22	11	30	128	23	36	34	1	124	127	114	120	84	28	3	24	65	0	181	40	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

LANDER, WYO.

[λ=42° 50′ N.; φ=108° 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	24.575	24.948	24.119	14.4	27.8	37.5	8.5	23.0	59	−15	9	18	79	68	.066	.099	.25	.19	3.1	3.9	4.5
February	24.611	24.902	24.299	6.5	22.1	29.6	2.3	16.0	48	−28	4	14	87	71	.054	.086	.82	.47	3.6	3.5	4.1
March	24.566	24.823	24.216	18.8	33.5	44.2	16.0	30.1	65	−13	12	22	76	53	.078	.120	2.25	1.90	3.7	4.2	4.9
April	24.554	24.924	24.192	31.3	49.8	54.4	28.5	41.4	72	14	24	25	76	43	.133	.134	2.41	.92	4.0	5.1	4.9
May	24.570	25.015	24.168	38.9	57.8	62.5	35.5	49.0	82	13	33	31	80	40	.191	.178	1.86	.63	4.4	5.4	5.2
June	24.700	24.997	24.330	49.9	70.4	75.2	46.4	60.8	89	37	44	42	80	40	.289	.277	1.99	1.12	4.7	5.6	5.3
July	24.673	24.847	24.297	52.7	76.9	81.6	49.0	65.3	91	34	42	42	70	33	.278	.280	.21	.16	2.1	4.7	3.7
August	24.677	24.877	24.375	50.5	73.4	84.8	47.8	66.3	93	36	42	43	75	29	.273	.284	.19	.17	1.8	3.5	3.5
September	24.665	24.934	24.391	38.8	60.6	66.8	36.5	51.6	90	26	33	37	80	48	.192	.226	2.58	1.37	3.6	4.9	4.3
October	24.749	25.030	24.199	33.5	51.9	62.8	30.4	46.6	78	19	26	34	75	53	.144	.198	.67	.23	2.7	3.8	3.2
November	24.664	24.959	23.940	23.5	36.5	49.3	18.6	34.0	67	− 4	17	25	73	65	.094	.136	.01	.01	3.6	4.2	4.5
December	24.713	24.958	24.212	13.8	24.0	37.0	7.6	22.3	61	−12	8	16	80	69	.063	.088	.94	.56	1.6	1.8	3.2
Year	24.643	25.030	23.940	31.0	49.7	57.1	27.3	42.2	93	−28	24	29	78	51	.156	.176	14.08	1.90	3.2	4.2	4.3

LEWISTON, IDAHO.[a]

[λ=46° 25′ N.; φ=117° 2′ W.]

January	29.282	29.822	28.792	35.9	.....	44.5	34.1	39.3	58	24	32	.....	84	.....	.178	.....	1.07	.43	8.0	.....	8.1
February	29.399	29.648	28.946	30.6	.....	44.7	28.3	36.5	56	16	24	.....	74	.....	.126	.....	.19	.19	5.1	.....	4.9
March	29.160	29.585	28.791	37.5	.....	54.5	35.6	45.0	74	26	30	.....	76	.....	.171	.....	.88	.35	6.7	.....	6.3
April	29.197	29.537	28.927	40.2	.....	62.1	39.6	50.8	81	27	33	.....	77	.....	.191	.....	.69	.47	4.8	.....	4.9
May	29.155	29.505	28.906	47.0	.....	71.3	46.3	58.8	102	35	40	.....	76	.....	.248	.....	1.49	1.05	3.6	.....	4.1
June	29.136	29.539	28.917	59.5	.....	85.1	58.4	71.8	99	49	51	.....	76	.....	.387	.....	1.09	.40	4.2	.....	3.6
July	29.136	29.386	28.808	59.1	.....	85.6	58.3	72.0	105	48	48	.....	66	.....	.331	.....	.85	.51	2.4	.....	2.7
August	29.083	29.289	28.886	59.7	.....	87.7	59.2	73.4	108	51	49	.....	70	.....	.354	.....	1.34	1.08	1.4	.....	1.8
September	29.178	29.510	28.663	50.8	.....	74.3	49.2	61.8	92	35	44	.....	80	.....	.295	.....	1.02	.55	3.9	.....	3.9
October	29.308	29.688	28.860	43.6	.....	65.9	41.9	53.9	74	32	40	.....	89	.....	.252	.....	1.05	.38	3.3	.....	3.0
November	29.217	29.712	28.436	39.6	.....	50.8	37.3	44.0	69	29	36	.....	85	.....	.209	.....	2.84	.84	7.4	.....	7.1
December	29.474	29.775	29.037	32.4	.....	41.8	30.7	36.2	59	25	30	.....	90	.....	.165	.....	.96	.28	4.6	.....	5.8
Year	29.227	29.822	28.436	44.7	.....	64.0	43.2	53.6	108	16	38	.....	79	.....	.242	.....	12.97	1.08	4.6	.....	4.7

LEXINGTON, KY.[a]

[λ=38° 2′ N.; φ=84° 33′ W.]

January	28.989	29.352	28.334	28.6	.....	39.3	24.9	32.1	67	4	25	.....	86	.....	.150	.....	1.68	.48	5.7	.....	6.3
February	29.026	29.567	28.398	31.4	.....	44.0	27.3	35.6	65	− 3	28	.....	85	.....	.170	.....	6.16	1.96	5.9	.....	6.1
March	29.082	29.392	28.732	45.3	.....	57.9	42.8	50.4	76	24	42	.....	88	.....	.268	.....	3.24	.95	7.4	.....	7.3
April	28.858	29.282	28.368	48.7	.....	62.5	44.3	53.4	80	25	43	.....	80	.....	.287	.....	3.29	1.10	6.6	.....	6.4
May	29.015	29.339	28.887	62.6	.....	77.3	58.1	67.7	87	34	54	.....	75	.....	.454	.....	1.75	.57	4.8	.....	5.2
June	28.886	29.137	28.665	63.9	.....	76.1	59.3	67.7	87	42	60	.....	87	.....	.526	.....	2.71	.91	5.0	.....	5.4
July	28.965	29.158	28.760	72.9	.....	85.5	67.8	76.6	94	58	66	.....	79	.....	.651	.....	2.62	1.30	4.1	.....	3.9
August	28.951	29.270	28.825	68.7	.....	83.5	65.3	74.4	93	56	64	.....	84	.....	.594	.....	1.49	.62	3.8	.....	4.7
September	29.080	29.313	28.959	62.4	.....	81.2	58.5	69.8	92	40	55	.....	76	.....	.447	.....	.81	.48	2.4	.....	2.4
October	29.066	29.447	28.572	49.6	.....	66.4	47.4	56.9	86	28	43	.....	78	.....	.307	.....	2.12	.97	4.0	.....	4.0
November	29.067	29.579	28.545	35.6	.....	47.8	32.3	40.0	71	12	30	.....	79	.....	.192	.....	2.84	1.19	5.0	.....	5.7
December	29.072	29.448	28.593	23.7	.....	36.3	20.7	28.5	51	4	19	.....	81	.....	.107	.....	1.99	1.15	5.1	.....	4.4
Year	29.001	29.579	28.334	49.4	.....	63.2	45.7	54.4	94	− 3	44	.....	82	.....	.346	.....	30.70	1.96	5.0	.....	5.2

LINCOLN, NEBR.

[λ=40° 49′ N.; φ=96° 45′ W.]

January	28.714	29.063	28.250	22.6	29.5	36.1	18.8	27.4	53	− 2	18	22	84	71	.104	.119	.25	.21	3.8	4.0	3.9
February	28.847	29.263	28.084	15.0	24.1	29.8	12.5	21.2	49	−13	12	16	86	69	.080	.095	1.39	.88	4.2	4.0	4.6
March	28.818	29.130	28.469	32.7	42.6	48.6	29.6	39.1	74	12	29	32	85	67	.165	.193	.47	.19	4.3	5.9	5.7
April	28.626	29.078	28.074	44.2	56.6	64.1	40.8	52.4	81	25	35	36	71	50	.214	.225	3.59	2.29	4.5	5.1	4.4
May	28.627	28.978	28.285	55.4	65.2	70.3	52.3	61.3	84	34	51	54	86	69	.390	.433	10.72	2.00	6.0	7.1	5.5
June	28.721	29.123	28.315	59.9	72.0	76.0	56.9	66.4	95	44	55	55	85	58	.442	.449	2.60	.90	3.9	5.5	4.7
July	28.678	28.877	28.373	68.5	81.5	85.9	65.1	75.5	99	56	63	63	82	55	.578	.584	3.07	.88	4.3	3.8	3.8
August	28.692	28.898	28.440	64.5	75.4	80.3	62.7	71.5	92	52	61	65	88	70	.538	.616	6.45	2.53	5.3	4.2	4.9
September	28.719	29.033	28.246	55.0	65.9	73.8	52.1	63.0	89	34	49	51	81	62	.365	.398	1.34	.55	4.7	4.2	4.5
October	28.790	29.217	28.050	46.0	58.8	67.0	44.3	55.6	86	31	40	40	79	58	.265	.270	2.90	.92	3.8	2.8	3.6
November	28.829	29.312	28.275	33.6	39.9	46.3	30.7	38.5	64	8	27	28	76	62	.160	.172	1.81	.92	4.6	5.2	5.5
December	28.818	29.330	28.407	23.0	29.5	39.2	17.2	28.2	55	− 1	17	18	76	61	.090	.103	.07	.05	5.0	1.9	4.2
Year	28.740	29.330	28.050	43.4	53.4	59.8	40.2	50.0	99	−13	38	40	82	62	.285	.305	34.66	2.53	4.5	4.5	4.6

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

LANDER, WYO.

[H=5,372 ft.; h_t=26 ft.; h_r=17 ft.; h_a=36 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	SW.	30	NW.	0	1	11	4	8	11	11	13	3	0	9	15	7	4	1	4	0	0	10	0	31	0	0
February	3.1	SE.	32	W.	0	6	7	4	7	9	9	7	6	1	13	9	6	7	4	7	0	0	14	0	28	0	0
March	3.6	SW.	24	SW.	0	4	7	2	3	16	15	7	8	0	9	18	4	7	4	6	0	1	4	0	30	0	0
April	5.1	SW.	32	SW.	0	6	9	2	4	7	19	10	3	0	11	12	7	11	7	6	0	0	1	0	19	1	0
May	4.8	SW.	32	SW.	0	7	7	3	5	11	11	12	6	0	10	12	9	10	6	3	0	0	0	0	5	0	0
June	3.2	NW.	30	W.	0	7	10	1	3	9	8	9	8	5	8	15	7	7	6	0	0	0	0	0	0	4	0
July	3.9	SW.	36	W.	0	8	5	2	3	5	11	15	9	4	14	15	2	4	2	0	0	0	0	1	0	2	0
August	3.5	SW.	34	S.	0	6	4	2	4	10	15	13	8	0	16	12	3	2	1	0	1	0	0	2	0	6	0
September	3.4	SW.	28	SE.	0	6	9	3	0	4	14	14	9	1	14	9	7	8	6	4	1	0	0	0	9	1	0
October	3.4	SW.	30	SW.	0	1	8	7	7	11	15	11	2	0	19	7	5	6	4	1	1	0	0	0	21	1	1
November	3.9	NE.	32	SW.	0	2	7	5	9	13	11	3	9	1	10	15	5	1	0	1	0	0	4	0	30	0	0
December	2.6	SW.	34	N.	0	5	7	5	10	9	15	4	7	0	16	12	3	5	4	5	0	0	7	0	31	0	0
Year	3.7	SW.	36	W.	0	59	91	40	63	115	154	118	78	12	149	151	65	72	45	37	3	1	40	3	204	15	1

LEWISTON, IDAHO.

[H=757 ft.; h_t=52 ft.; h_r=46 ft.; h_a=61 ft.]

January	3.6	E.	30	NW.	0	1	2	13	4	3	2	3	2	1	2	8	21	14	6	5	0	1	0	0	9	0	0
February	4.0	E.	26	W.	0	1	1	15	4	1	0	3	3	0	12	7	9	1	1	0	0	0	0	0	19	0	0
March	3.6	E.	33	NW.	0	0	3	8	6	4	4	3	1	2	8	8	15	11	5	3	0	0	0	0	11	2	0
April	4.7	E.	33	NW.	0	0	1	9	8	3	2	2	2	3	11	11	8	5	4	0	0	0	0	0	1	0	0
May	4.5	E.	38	W.	0	1	3	12	5	4	2	2	0	2	17	7	7	6	5	0	0	0	3	0	0	0	0
June	3.2	E.	26	W.	0	1	0	17	5	2	1	1	1	2	15	12	3	9	6	0	0	0	9	0	7	0	0
July	4.4	E.	33	W.	0	0	0	21	3	3	1	1	1	1	22	6	3	6	4	0	1	0	10	0	4	0	0
August	3.8	E.	34	NW.	0	0	2	22	1	1	2	0	0	3	25	3	3	4	4	0	0	0	14	0	1	0	0
September	3.8	E.	31	NW.	0	0	1	13	7	0	0	4	2	3	15	7	8	8	5	0	1	0	1	0	0	0	0
October	2.7	W.	30	W.	0	0	1	8	4	2	1	12	0	3	21	4	6	8	4	0	1	3	0	0	1	0	1
November	4.0	E.	40	W.	1	1	0	13	1	1	5	7	1	1	3	14	13	14	9	1	0	0	0	0	3	0	0
December	3.6	E.	26	W.	0	1	1	11	2	5	9	1	0	1	9	7	15	10	8	2	0	1	0	0	20	0	0
Year	3.8	E.	40	W.	1	6	15	162	50	29	29	39	13	22	160	94	111	96	61	11	3	5	0	87	64	14	1

LEXINGTON, KY.

[H=989 ft.; h_t=75 ft.; h_r=68 ft.; h_a=102 ft.]

January	13.1	W.	42	W.	3	0	0	3	5	9	5	4	5	0	8	10	13	14	8	7	0	2	7	0	22	0	0
February	13.1	W.	50	W.	5	1	3	2	4	5	6	4	3	0	9	5	14	14	12	4	0	1	5	0	18	0	0
March	10.1	NE.	40	NW.	1	1	8	1	9	4	4	2	2	0	4	9	18	17	11	1	0	3	1	0	5	3	0
April	13.1	S.	50	NW.	3	1	2	1	5	9	8	2	7	0	5	12	13	17	15	0	2	0	0	0	2	5	0
May	9.5	SW.	39	W.	0	0	4	4	9	7	6	1	0	0	9	16	6	7	6	0	0	1	0	0	0	6	0
June	8.5	NW.	30	NW.	0	3	1	5	2	7	2	5	4	1	9	9	12	15	12	0	0	2	0	0	0	6	0
July	9.1	SW.	40	E.	1	1	5	1	5	1	10	7	1	0	14	12	5	11	7	0	0	0	0	0	0	11	0
August	7.6	SW.	42	NW.	1	3	5	2	5	2	9	3	2	0	13	12	6	9	5	0	0	1	0	4	0	5	0
September	8.5	S.	30	W.	0	3	4	3	10	5	0	2	2	1	21	6	3	5	5	0	0	0	0	3	0	2	0
October	9.7	S.	40	S.	1	3	4	2	5	8	4	2	3	0	14	11	6	7	6	0	0	1	0	0	3	2	0
November	10.3	SW.	40	SW.	2	4	2	2	7	2	7	0	6	0	8	9	13	10	9	4	0	2	7	0	15	1	0
December	11.9	W.	54	S.	5	0	4	1	2	8	3	10	3	0	14	8	9	9	5	5	0	1	10	0	29	0	0
Year	10.4	SW.	54	S.	22	20	42	27	68	67	59	42	38	2	128	119	118	135	101	21	2	14	30	16	94	41	0

LINCOLN, NEBR.

[H=1,189 ft.; h_t=75 ft.; h_r=4 ft.; h_a=84 ft.]

January	11.4	NW.	60	NW.	3	2	5	0	5	16	6	6	21	1	17	7	7	4	1	2	0	0	7	0	29	0	0
February	11.7	N.	52	NW.	3	17	10	0	2	10	8	2	7	0	12	8	8	7	5	7	0	0	15	0	28	0	0
March	11.5	N.	32	NW.	0	14	6	4	12	10	4	5	6	1	10	7	14	6	4	4	0	6	2	0	22	1	0
April	15.2	N.	44	N.	1	19	5	1	7	15	3	4	6	0	12	11	7	8	6	1	1	1	0	0	5	5	0
May	12.9	SE.	76	NW.	4	9	8	4	20	14	4	1	2	0	10	10	11	19	17	0	1	1	0	0	0	13	0
June	8.2	S.	38	NW.	0	7	14	4	5	14	7	2	7	0	10	13	7	11	7	0	0	0	0	2	0	7	0
July	9.8	S.	43	W.	1	5	14	5	10	18	4	2	4	0	15	12	4	8	7	0	0	0	0	11	0	12	0
August	8.4	S.	45	SW.	2	10	9	5	8	19	3	4	3	1	12	10	9	13	13	0	2	3	0	2	0	12	0
September	12.1	S.	35	SW.	0	7	4	3	10	24	5	2	5	0	12	9	9	11	5	0	0	0	0	0	0	6	0
October	10.6	N.	49	NW.	2	15	6	2	9	14	7	3	6	0	18	6	7	10	8	0	0	0	0	0	1	4	0
November	11.5	S.	38	NW.	0	11	9	4	8	12	2	3	11	0	9	11	10	6	4	2	0	0	2	5	0	18	2	0
December	10.9	NW.	46	NW.	4	10	6	2	3	10	10	5	16	0	13	14	4	3	1	3	0	0	8	0	31	0	0
Year	11.2	S.	76	NW.	20	126	96	34	99	176	63	39	94	3	150	118	97	106	78	19	4	12	37	15	134	62	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

LITTLE ROCK, ARK.

[λ=34° 45′ N.; φ=92° 6′ 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	29.695	30.151	29.344	37.0	45.7	50.0	35.0	42.5	75	17	30	32	76	61	.180	.194	2.60	.92	6.1	4.1	5.2
February	29.746	30.234	29.155	37.5	45.2	50.2	35.0	42.6	73	7	32	33	80	65	.204	.213	6.50	2.74	5.8	5.1	5.6
March	29.739	30.138	29.426	50.8	60.4	63.7	49.2	56.4	77	27	44	45	77	60	.310	.324	5.09	2.66	7.3	5.7	5.3
April	29.586	29.932	29.158	55.8	66.6	71.2	52.7	62.0	88	38	47	45	73	48	.338	.326	1.58	.91	4.6	4.2	3.5
May	29.582	30.011	29.303	63.3	72.0	76.2	61.0	68.6	84	39	58	59	84	66	.505	.516	5.72	1.58	6.2	6.8	5.2
June	29.577	29.827	29.364	65.7	76.3	79.6	63.6	71.6	92	53	59	60	80	59	.514	.520	.76	.35	5.0	5.1	4.2
July	29.629	29.801	29.497	74.4	82.3	88.2	71.8	80.0	94	67	69	70	85	68	.718	.732	6.18	2.48	4.2	4.9	4.2
August	29.611	29.866	29.439	72.8	82.8	87.6	70.5	79.0	92	64	69	70	88	65	.710	.729	4.69	1.34	4.6	2.9	3.5
September	29.706	29.923	29.499	63.5	74.8	81.1	61.7	71.4	91	47	58	60	84	61	.508	.529	2.09	.90	3.6	3.2	3.7
October	29.731	30.069	29.338	54.5	65.6	71.9	52.8	62.4	87	39	48	50	79	57	.360	.384	2.04	1.49	3.7	2.2	3.6
November	29.765	30.276	29.335	41.9	52.8	68.4	39.6	49.0	76	20	34	35	75	52	.224	.236	.66	.40	4.5	3.5	5.2
December	29.787	30.171	29.282	35.4	45.4	51.1	32.1	41.6	65	18	26	28	69	53	.153	.162	2.60	1.15	3.5	4.3	3.6
Year	29.680	30.276	29.155	54.4	64.2	69.1	52.1	60.6	94	7	48	49	79	60	.394	.405	40.51	2.74	4.9	4.3	4.4

LOS ANGELES, CAL.

[λ=34° 3′ N.; φ=118° 15′ W.]

January	29.713	29.866	29.506	49.9	60.2	67.3	45.9	56.6	85	39	38	47	67	66	.236	.330	2.10	1.66	3.2	3.7	3.8
February	29.683	29.888	29.423	44.5	56.5	63.0	41.0	52.0	78	32	33	38	66	58	.196	.244	1.52	.57	2.4	2.9	3.0
March	29.662	29.849	29.446	50.0	59.2	65.1	47.4	56.2	75	40	42	47	77	67	.281	.331	6.93	3.35	4.7	5.9	5.8
April	29.616	29.772	29.409	51.2	61.1	66.4	49.6	58.0	77	45	47	50	87	67	.326	.357	3.77	2.99	4.4	4.2	5.3
May	29.572	29.714	29.413	54.1	62.8	68.6	52.9	60.8	81	46	50	52	88	70	.370	.399	T.	T.	6.7	4.0	5.6
June	29.545	29.662	29.381	58.4	68.3	75.3	57.3	66.3	84	49	56	57	90	68	.444	.468	.02	.02	7.1	2.4	5.1
July	29.557	29.687	29.369	58.1	71.8	79.9	56.8	68.4	88	52	54	57	88	60	.426	.463	.00	.00	5.5	.2	2.8
August	29.523	29.651	29.339	61.5	72.7	80.9	60.2	70.6	94	54	58	60	88	64	.477	.509	T.	T.	5.8	.4	3.5
September	29.555	29.673	29.399	60.8	70.5	79.3	59.0	69.2	95	52	56	57	85	64	.452	.470	.43	.42	5.0	2.6	4.4
October	29.629	29.798	29.465	57.3	68.2	78.9	53.7	66.3	97	45	48	54	75	64	.345	.418	T.	T.	2.1	1.1	2.3
November	29.676	29.855	29.526	55.4	64.4	74.9	52.1	63.5	90	41	42	51	66	64	.281	.380	.00	.00	3.5	2.8	3.6
December	29.735	29.917	29.541	51.3	61.9	71.1	45.3	58.2	80	37	28	42	47	55	.164	.289	T.	T.	1.0	1.8	2.1
Year	29.622	29.917	29.339	54.4	64.8	72.6	51.8	62.2	97	32	46	51	77	64	.333	.388	14.77	3.35	4.3	2.7	3.9

LOUISVILLE, KY.

[λ=38° 15′ N.; φ=85° 45′ W.]

January	29.460	29.898	28.853	30.2	35.7	40.8	26.3	33.6	67	3	26	26	82	68	.150	.152	2.43	1.00	5.9	4.7	6.2
February	29.544	30.117	28.845	32.6	38.4	45.2	28.4	36.8	68	− 1	28	30	83	72	.170	.186	6.03	2.21	6.1	4.5	6.0
March	29.592	29.924	29.235	46.4	54.5	60.0	43.4	51.7	80	26	42	45	85	72	.289	.319	3.18	.94	7.0	6.3	6.6
April	29.365	29.811	28.873	51.3	58.0	65.5	46.4	56.0	84	29	42	43	72	60	.277	.288	4.82	1.99	6.1	5.6	6.1
May	29.479	29.868	29.282	63.3	73.5	80.6	59.8	70.2	90	36	52	53	69	51	.418	.429	2.23	2.97	4.6	5.1	5.1
June	29.378	29.621	29.105	64.6	73.0	79.0	61.1	70.0	90	44	57	57	78	60	.479	.483	3.52	1.89	4.2	4.4	4.8
July	29.441	29.641	29.230	73.1	82.7	89.2	69.3	79.2	98	60	64	63	73	54	.600	.590	1.25	.54	3.4	3.5	4.2
August	29.427	29.726	29.236	69.1	78.8	86.0	66.7	76.4	96	60	63	63	80	59	.575	.576	3.51	2.13	3.9	4.4	5.3
September	29.557	29.813	29.314	60.8	74.7	82.9	58.5	70.7	95	42	54	53	80	49	.443	.422	.83	.47	2.8	2.0	3.1
October	29.558	29.968	29.213	49.7	62.2	69.5	48.0	58.8	90	30	44	45	82	56	.318	.334	1.60	.77	3.1	2.0	3.6
November	29.575	30.115	29.137	37.4	44.6	50.4	33.7	42.0	70	17	33	35	84	70	.215	.233	2.71	1.39	5.6	3.4	5.2
December	29.555	29.996	29.100	26.0	33.8	38.8	22.7	30.8	55	4	20	23	78	62	.111	.125	1.58	.86	3.9	4.5	4.4
Year	29.494	30.117	28.845	50.4	59.2	65.7	47.0	56.4	98	− 1	44	45	79	61	.337	.345	33.69	2.97	4.7	4.2	5.0

LYNCHBURG, VA.

[λ=37° 25′ N.; φ=79° 9′ W.]

January	29.255	29.714	28.642	32.3	37.6	44.8	28.3	36.6	65	15	26	30	76	73	.144	.171	5.31	2.36	5.6	3.7	5.3
February	29.338	29.851	28.519	35.5	43.3	51.3	31.2	41.2	71	8	29	30	78	61	.184	.183	5.99	1.99	4.8	3.5	4.9
March	29.425	29.766	28.905	46.3	55.2	62.5	43.1	52.8	75	25	41	43	84	67	.278	.299	5.05	1.91	5.7	5.3	6.0
April	29.153	29.635	28.677	50.6	59.1	66.7	45.5	56.1	87	29	40	42	70	58	.262	.277	2.53	.71	4.8	5.2	5.4
May	29.364	29.662	29.172	61.6	69.2	77.9	54.9	66.4	93	37	53	54	74	60	.419	.431	1.13	.68	3.9	4.4	4.5
June	29.189	29.544	28.942	65.5	70.7	77.8	59.9	68.8	88	50	58	60	79	69	.496	.524	4.10	1.25	5.5	5.5	5.3
July	29.260	29.450	29.036	73.7	78.8	88.0	67.2	77.6	96	54	65	66	75	66	.625	.646	2.80	1.01	2.2	4.0	3.6
August	29.249	29.654	29.040	70.0	75.0	82.5	66.0	74.2	95	58	65	68	85	78	.625	.677	6.21	2.78	5.6	5.5	5.2
September	29.404	29.710	29.066	61.6	67.9	78.4	57.2	67.8	90	42	57	61	86	80	.488	.560	3.02	1.21	1.6	2.0	3.1
October	29.334	29.674	28.959	51.1	58.2	68.4	47.6	58.0	81	29	45	48	81	70	.323	.366	2.09	1.40	4.3	3.1	5.1
November	29.303	29.901	28.936	36.9	43.6	54.5	32.5	43.5	76	17	29	33	73	65	.176	.207	1.34	.59	4.0	2.2	4.2
December	29.323	29.702	28.764	29.0	36.0	43.5	25.4	34.4	52	14	20	23	69	58	.113	.123	1.67	.96	4.0	2.1	4.1
Year	29.305	29.901	28.519	51.2	57.9	66.4	46.6	56.4	96	8	44	46	78	67	.344	.372	41.24	2.78	4.3	3.9	4.7

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

LITTLE ROCK, ARK.

[H=357 ft.; h_t=93 ft.; h_r=85 ft.; h_a=100 ft.]

Month.	Wind. By self-register. 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	8.1	NW.	40	NW.	1	5	6	2	5	9	12	12	10	1	10	10	11	10	8	0	0	1	0	0	12	3	0
February	9.2	NE.	38	W.	0	6	15	2	6	6	5	11	4	1	11	5	12	10	10	1	0	0	3	0	11	0	0
March	7.7	NE.	28	S.	0	12	14	8	10	3	3	4	8	0	11	12	8	11	9	0	1	2	0	0	1	6	0
April	10.8	S.	39	NW.	0	5	3	5	8	16	3	5	15	0	17	11	2	7	5	0	0	0	0	0	0	6	0
May	7.7	S.	30	S.	0	3	11	12	13	13	4	4	2	0	7	16	8	10	8	0	1	0	0	0	0	5	0
June	5.2	NW.	26	S.	0	7	11	2	4	6	7	8	13	2	11	15	4	11	6	0	0	0	0	2	0	5	0
July	6.2	S.	40	SE.	1	5	4	6	8	15	16	2	6	0	12	14	5	10	7	0	0	1	0	10	0	11	0
August	5.7	SW.	34	NE.	0	7	4	4	5	18	7	4	13	0	14	15	2	10	8	0	0	0	0	10	0	9	0
September	5.9	NW.	29	NW.	0	2	14	5	11	8	1	1	18	0	17	8	5	8	6	0	0	0	0	3	0	5	0
October	6.9	NE.	27	NW.	0	10	10	2	7	7	10	5	10	1	18	6	7	5	3	0	0	1	0	0	0	1	0
November	7.5	NW.	32	NW.	0	2	12	5	9	4	3	7	18	0	11	11	8	5	3	0	0	1	0	0	9	1	0
December	7.7	NW.	39	NW.	0	5	7	6	6	8	11	6	13	0	19	3	9	8	8	1	0	0	0	0	15	1	0
Year	7.4	NW.	40	NW.	2	69	111	59	92	113	82	69	130	5	158	126	81	105	81	2	2	6	3	25	48	53	0

LOS ANGELES, CAL.

[H=338 ft.; h_t=116 ft.; h_r=108 ft.; h_a=123 ft.]

January	4.8	NE.	18	S.	0	2	23	5	2	4	5	17	2	2	13	13	5	5	4	0	0	1	0	0	0	0	0
February	5.2	NE.	24	SW.	0	4	18	6	0	3	10	10	3	2	16	10	2	4	4	0	1	0	0	0	0	0	0
March	4.9	NE.	20	W.	0	1	18	9	0	3	7	17	4	3	9	8	14	13	8	0	0	0	0	0	0	0	0
April	5.2	SW.	20	SW.	0	3	12	9	0	5	17	12	1	1	9	13	8	4	3	0	0	1	0	0	0	1	0
May	5.2	SW.	26	SW.	0	3	9	1	5	4	21	18	0	1	7	17	7	0	0	0	0	3	0	0	0	0	0
June	5.0	SW.	19	W.	0	5	1	4	9	4	19	15	2	1	6	23	1	1	0	0	0	3	0	0	0	0	0
July	5.1	W.	16	W.	0	3	3	3	5	3	17	25	2	1	11	20	0	0	0	0	0	2	0	0	0	0	0
August	5.1	W.	18	SW.	0	2	1	1	7	3	19	26	2	1	8	23	0	0	0	0	0	4	0	1	0	0	0
September	4.9	W.	18	SW.	0	5	3	5	2	5	12	23	4	1	9	15	6	3	2	0	0	3	0	1	0	1	0
October	4.6	W.	20	SW.	0	6	14	3	0	2	6	27	1	3	22	7	2	0	0	0	0	8	0	3	0	0	0
November	4.6	W.	18	W.	0	6	16	2	1	1	5	27	1	1	15	14	1	0	0	0	0	4	0	0	0	0	0
December	5.0	NE.	17	S.	0	2	26	2	2	1	6	21	1	1	23	5	3	0	0	0	0	2	0	0	0	0	0
Year	5.0	W.	26	SW.	0	42	144	50	33	38	144	238	23	18	148	168	49	30	21	0	1	31	0	5	0	2	0

LOUISVILLE, KY.

[H=525 ft.; h_t=114 ft.; h_r=107 ft.; h_a=136 ft.]

January	9.2	SW.	39	W.	0	4	4	3	5	16	14	13	2	1	9	7	15	12	7	7	0	3	5	0	22	2	0
February	10.3	S.	46	SW.	1	10	4	6	4	9	13	7	2	1	11	4	13	14	13	4	0	4	0	0	16	0	0
March	7.8	N.	48	W.	1	15	8	4	11	7	8	7	2	0	5	8	18	12	8	1	0	1	0	0	3	2	0
April	9.7	S.	46	W.	1	10	2	7	7	14	4	9	7	0	8	10	12	15	12	0	2	0	0	0	2	4	0
May	7.5	S.	30	S.	0	9	7	13	8	13	9	1	2	0	10	14	7	7	4	0	0	0	0	1	0	8	0
June	7.0	N.	25	W.	0	9	8	7	2	7	13	5	9	0	11	11	8	10	10	0	0	0	0	1	0	6	0
July	7.2	SW.	34	SW.	0	16	4	3	5	10	15	7	2	0	15	11	5	6	5	0	0	0	0	1	0	6	0
August	6.0	N.	31	NW.	0	15	5	2	4	14	13	6	3	0	8	17	6	10	7	0	0	0	0	9	0	10	0
September	6.1	N.	32	W.	0	13	4	3	19	7	1	5	6	2	19	8	3	5	5	0	0	0	0	8	0	8	0
October	7.3	N.	30	S.	0	15	4	1	8	12	8	4	6	4	15	13	3	5	4	0	0	0	0	9	0	2	0
November	7.8	N.	41	SW.	1	11	4	4	7	9	6	7	11	1	10	11	9	11	7	4	1	3	0	1	4	3	0
December	8.9	SW.	48	W.	3	7	2	5	6	15	12	11	4	0	14	9	8	8	6	4	0	5	0	14	7	0	0
Year	7.9	N.	48	W.	7	134	56	58	86	133	116	82	56	9	135	123	107	115	88	20	3	5	17	35	87	46	0

LYNCHBURG, VA.

[H=681 ft.; h_t=83 ft.; h_r=77 ft.; h_a=88 ft.]

January	5.1	W.	26	NW.	0	0	9	1	2	6	13	14	14	3	10	11	10	13	9	3	0	2	2	0	19	0	0
February	5.3	SW.	27	NW.	0	0	5	4	4	5	15	12	11	0	13	7	8	11	8	1	0	0	1	0	13	0	0
March	4.3	NE.	20	NE.	0	6	18	7	4	1	12	5	9	0	10	9	12	10	9	0	0	1	0	0	2	1	0
April	5.3	NW.	34	NW.	0	5	7	2	2	5	13	2	21	3	13	6	11	10	8	0	0	0	0	0	1	2	0
May	4.0	E.	30	NW.	0	1	11	18	10	4	9	3	4	2	13	13	5	7	5	0	0	0	0	4	0	4	0
June	3.8	NE.	17	NW.	0	4	14	4	8	3	9	6	10	2	7	14	9	15	13	0	0	0	0	0	0	7	0
July	3.3	SW.	21	NW.	0	2	7	4	1	4	17	20	3	4	15	14	2	8	5	0	0	0	0	12	0	10	0
August	3.2	NE.	24	NW.	0	1	21	10	1	2	11	7	5	4	10	12	9	15	11	0	0	0	0	7	0	4	0
September	3.1	NE.	25	N.	0	6	16	5	7	8	4	0	6	9	17	11	2	6	4	0	0	1	0	0	0	5	0
October	4.4	NW.	28	NW.	0	6	5	5	2	7	13	1	16	7	12	9	10	4	3	0	0	2	0	0	2	1	0
November	4.1	NW.	22	NW.	0	2	4	2	10	4	6	7	21	4	14	11	5	7	5	3	0	1	2	0	18	1	0
December	4.3	NW.	32	NW.	0	1	3	5	2	2	21	7	20	1	14	12	5	5	4	2	0	0	0	0	25	0	0
Year	4.2	NW.	34	NW.	0	33	120	67	53	51	143	84	140	39	148	129	88	111	84	9	0	7	5	23	80	35	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

MACON, GA.[a]

[λ=32° 50′ N.; φ=83° 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 p. m.	Daylight.
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*			
January	29.676	30.049	29.293	39.4	.....	52.7	37.4	45.0	70	22	36	....	88	....	.227	.....	2.88	.79	6.9	.....	7.0
February	29.749	30.174	29.286	43.5	.....	60.0	40.7	50.4	77	21	41	....	90	....	.282	.....	6.25	1.58	7.4	.....	7.6
March	29.728	30.041	29.370	55.4	.....	68.5	53.1	60.8	79	35	54	....	94	....	.429	.....	5.38	1.35	8.0	.....	8.1
April	29.588	29.977	29.153	54.2	.....	71.4	50.4	60.9	81	38	49	....	84	....	.361	.....	4.47	1.97	4.3	.....	5.4
May	29.648	29.811	29.407	65.5	.....	79.4	61.9	70.6	94	47	61	....	85	....	.536	.....	3.30	1.81	5.4	.....	6.3
June	29.537	29.774	29.377	69.7	.....	84.7	65.3	75.0	93	51	64	....	82	....	.606	.....	3.53	1.53	5.5	.....	5.8
July	29.636	29.816	29.505	75.9	.....	89.7	70.9	80.3	96	63	69	....	79	....	.702	.....	4.45	2.18	5.2	.....	4.9
August	29.597	29.888	29.397	76.3	.....	90.1	72.5	81.3	96	70	71	....	84	....	.762	.....	4.57	1.79	4.2	.....	4.5
September	29.690	29.970	29.504	66.8	.....	82.5	63.5	73.0	93	51	62	....	84	....	.572	.....	3.65	2.60	3.5	.....	3.4
October	29.700	30.007	29.417	55.0	.....	74.6	52.7	63.6	88	35	50	....	83	....	.384	.....	2.25	1.98	3.8	.....	3.7
November	29.732	30.144	29.402	45.4	.....	60.3	43.5	51.9	78	22	41	....	85	....	.299	.....	3.05	1.28	6.0	.....	5.3
December	29.753	29.999	29.354	34.2	.....	53.3	31.7	42.5	63	21	29	....	80	....	.164	.....	2.02	1.05	4.1	.....	3.8
Year	29.670	30.174	29.153	56.8	.....	72.3	53.6	62.9	96	21	52	....	85	....	.444	.....	45.80	2.60	5.4	.....	5.5

MARQUETTE, MICH.

[λ=46° 34′ N.; φ=87° 24′ W.]

January	29.071	29.548	28.521	17.8	18.7	24.3	12.9	18.6	42	1	11	12	74	71	.075	.077	1.35	.38	7.7	6.3	7.7
February	29.217	29.640	28.642	14.6	19.7	25.1	11.6	18.4	45	−14	7	11	71	67	.066	.083	1.24	.44	5.7	5.2	5.8
March	29.309	29.733	28.688	29.6	32.0	37.1	26.7	31.9	56	8	24	26	77	78	.130	.141	2.44	.72	6.4	6.6	7.2
April	29.179	29.540	28.528	37.7	38.4	43.3	33.7	38.5	71	23	26	26	64	64	.140	.143	3.60	1.15	6.1	5.6	6.3
May	29.263	29.688	28.691	49.0	52.5	59.3	44.5	51.9	88	24	39	40	70	65	.251	.259	5.24	.90	5.6	5.5	6.0
June	29.207	29.638	28.879	55.8	57.6	63.5	49.3	56.4	86	38	44	46	66	67	.296	.321	2.16	.88	4.8	5.0	5.4
July	29.151	29.462	28.789	64.5	65.1	71.9	55.7	63.8	94	48	54	54	70	70	.418	.430	6.79	2.16	4.6	6.0	5.7
August	29.201	29.551	28.767	58.6	60.8	65.1	54.5	59.8	87	49	51	53	76	76	.378	.404	4.68	1.59	6.9	6.2	6.8
September	29.201	29.460	28.644	53.2	56.5	64.5	48.6	56.6	82	38	43	46	70	69	.290	.327	2.93	.74	6.3	6.2	6.6
October	29.209	29.660	28.480	45.1	49.3	57.7	41.4	49.6	74	31	36	36	71	62	.220	.222	2.30	.68	5.5	3.1	5.1
November	29.202	29.769	28.331	29.8	31.9	38.0	26.3	32.2	74	10	22	23	73	70	.128	.131	4.63	.79	7.2	6.7	7.1
December	29.112	29.464	28.569	16.4	17.1	22.6	11.9	17.2	36	−12	11	11	76	73	.077	.074	2.48	.71	7.6	7.2	8.0
Year	29.194	29.769	28.331	39.3	41.6	47.7	34.8	41.2	94	−14	31	32	72	69	.206	.218	39.84	2.16	6.2	5.8	6.5

MEMPHIS, TENN.

[λ=35° 9′ N.; φ=90° 3′ W.]

January	29.654	30.074	29.315	37.4	44.4	49.3	34.6	42.0	73	18	30	33	75	65	.185	.206	3.31	1.35	4.5	3.9	5.4
February	29.709	30.226	29.085	38.0	44.1	49.3	35.0	42.2	69	6	32	36	80	74	.207	.238	8.06	2.50	5.4	5.6	6.0
March	29.713	30.035	29.420	51.3	59.0	63.2	49.7	56.4	77	29	46	52	83	80	.339	.419	5.59	2.04	7.4	5.6	7.3
April	29.555	29.882	29.153	56.2	64.9	70.1	53.0	61.6	81	42	49	53	77	67	.356	.422	2.69	1.42	4.8	4.8	5.6
May	29.576	29.968	29.365	64.7	72.1	76.8	62.1	69.4	87	40	58	61	80	70	.507	.552	4.76	1.45	6.8	5.1	6.3
June	29.542	29.754	29.338	67.3	74.9	79.2	64.4	71.8	91	54	62	63	82	69	.557	.597	1.87	1.66	5.5	4.8	4.7
July	29.596	29.777	29.464	75.2	83.1	89.0	72.6	80.8	94	67	70	73	86	73	.745	.814	1.09	.51	4.3	3.7	4.0
August	29.576	29.847	29.412	73.1	82.0	86.6	71.9	79.2	92	62	69	74	87	78	.713	.857	1.55	.76	3.0	2.9	3.6
September	29.676	29.886	29.511	65.5	75.7	82.0	63.4	72.7	92	48	59	61	79	63	.514	.559	.35	.19	3.1	2.0	2.2
October	29.697	30.027	29.370	54.4	65.5	71.8	53.3	62.6	87	39	48	53	80	66	.363	.440	.25	.20	3.3	1.9	2.8
November	29.732	30.220	29.317	42.7	51.6	56.8	40.1	48.4	78	20	35	35	74	53	.231	.229	2.38	2.00	4.8	2.3	4.1
December	29.751	30.124	29.325	34.6	44.1	47.6	32.2	39.9	65	16	27	33	74	67	.155	.198	4.27	1.95	3.1	2.8	2.9
Year	29.648	30.226	29.085	55.0	63.4	68.5	52.7	60.6	94	6	49	52	80	69	.406	.461	36.17	2.50	4.7	3.8	4.6

MERIDIAN, MISS.[a]

[λ = 32° 21′ N.; φ = 88° 40′ W.]

January	29.685	30.092	29.330	40.3	.....	54.0	36.8	45.4	76	20	36	....	85	....	.232	.....	4.99	2.85	6.4	.....	6.3
February	29.723	30.162	29.090	42.9	.....	58.7	39.5	49.1	78	15	38	....	83	....	.256	.....	13.30	4.47	6.6	.....	6.8
March	29.695	30.005	29.482	53.7	.....	67.4	52.2	59.8	79	32	50	....	89	....	.392	.....	4.45	1.58	7.8	.....	7.7
April	29.597	29.875	29.263	54.4	.....	73.8	50.1	62.0	85	37	49	....	81	....	.366	.....	1.35	.86	4.1	.....	4.4
May	29.597	29.858	29.381	63.7	.....	79.3	60.1	69.7	89	43	59	....	85	....	.512	.....	1.42	.53	6.7	.....	5.7
June	29.538	29.742	29.373	67.7	.....	83.3	63.2	73.2	92	51	62	....	81	....	.559	.....	3.24	1.57	4.8	.....	4.9
July	29.632	29.774	29.517	73.4	.....	89.9	69.5	79.7	97	61	69	....	86	....	.706	.....	6.68	1.96	4.5	.....	4.3
August	29.604	29.873	29.393	73.4	.....	89.0	70.2	79.6	93	62	70	....	90	....	.736	.....	4.61	1.16	3.9	.....	4.8
September	29.681	29.871	29.514	62.7	.....	85.4	58.9	72.2	94	42	57	....	82	....	.484	.....	.09	.08	1.8	.....	1.9
October	29.701	29.958	29.459	53.4	.....	76.5	50.7	63.6	90	30	48	....	82	....	.364	.....	1.02	.40	2.7	.....	3.4
November	29.730	30.169	29.491	44.2	.....	62.6	40.6	51.6	80	21	40	....	84	....	.293	.....	.71	.28	4.8	.....	4.6
December	29.787	30.034	29.471	33.8	.....	55.4	30.6	43.0	71	20	27	....	77	....	.152	.....	2.73	.91	4.0	.....	3.4
Year	29.664	30.169	29.090	55.3	.....	72.9	51.9	62.4	97	15	50	....	84	....	.421	.....	44.59	4.47	4.8	.....	4.8

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

MACON, GA.

[H=370 ft.; h_t=93 ft.; h_r=86 ft.; h_a=99 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 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.	Precipitation. 0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurora.
	Miles.		*Mi.*																								
January	7.0	NW.	34	NW.	0	4	4	2	1	3	2	4	10	1	7	3	21	13	8	0	0	4	0	0	10	0	0
February	7.6	NW.	45	SW.	1	7	4	0	2	3	2	3	7	0	6	2	20	11	8	0	0	2	0	0	4	2	0
March	6.5	E.	36	NE.	0	5	6	7	2	4	0	3	4	0	3	5	23	14	10	0	0	0	0	0	0	1	0
April	7.7	NW.	38	W.	0	5	1	1	1	6	5	2	9	0	12	4	14	9	8	0	0	0	0	0	0	5	0
May	7.1	E.	26	NE.	0	6	7	8	1	6	0	2	1	0	11	1	19	13	9	0	0	0	0	4	0	4	0
June	5.0	S.	24	SE.	0	8	1	1	3	5	6	1	5	0	9	7	14	13	10	0	1	0	0	4	0	10	0
July	4.6	SW.	30	SW.	0	3	4	1	0	2	10	4	7	0	11	12	8	10	10	0	1	0	0	14	0	11	0
August	4.0	W.	18	E.	0	1	2	3	1	4	6	4	10	0	11	14	6	13	10	0	0	0	0	17	0	14	0
September	5.3	E.	30	E.	0	6	6	9	1	2	0	2	4	0	19	6	5	4	4	0	0	1	0	3	0	0	0
October	5.2	N.	24	NW.	0	16	2	4	1	1	0	0	6	1	17	6	8	3	2	0	0	1	0	0	0	0	0
November	5.8	NW.	23	E.	0	6	6	2	2	1	3	2	8	0	11	7	12	15	5	0	0	2	0	0	6	2	0
December	5.9	NW.	27	NW.	0	6	0	2	0	5	3	3	9	3	18	4	9	6	6	0	0	0	0	0	16	1	0
Year	6.0	NW.	45	SW.	1	73	43	40	15	42	27	30	80	5	135	71	159	124	90	0	2	10	0	42	36	50	0

MARQUETTE, MICH.

[H=734 ft.; h_t=76 ft.; h_r=69 ft.; h_a=116 ft.]

January	12.5	W.	36	S.	0	6	2	1	3	11	1	27	11	0	2	12	17	12	7	12	0	0	21	0	31	0	0
February	12.1	NW.	39	NW.	0	1	2	1	3	6	6	14	23	0	7	11	10	10	5	10	0	1	19	0	28	0	0
March	9.4	NW.	50	SW.	1	9	8	3	4	12	4	3	19	0	4	9	18	13	8	10	0	4	9	0	25	2	0
April	11.1	NW.	36	NW.	0	14	7	4	7	4	4	6	14	0	9	6	15	13	9	10	0	1	3	0	8	1	0
May	9.9	NW.	46	S.	2	9	4	3	6	14	8	4	14	0	9	6	16	18	15	1	0	3	0	0	1	7	0
June	7.1	NW.	28	NW.	0	14	7	4	3	2	4	7	19	0	11	8	11	11	10	0	0	1	0	0	0	3	0
July	9.2	NW.	42	SW.	1	4	4	6	7	5	7	12	17	0	9	12	10	15	11	0	0	0	1	0	1	4	0
August	8.8	NW.	48	SW.	1	5	6	10	5	4	4	8	20	0	6	10	15	15	13	0	0	0	0	0	0	5	1
September	12.8	SW.	48	SW.	0	3	4	3	5	9	16	9	11	0	5	10	15	12	10	0	0	0	0	0	0	1	0
October	12.0	W.	48	SW.	2	4	0	1	6	10	9	17	15	0	11	12	8	10	7	2	0	0	0	0	2	1	2
November	13.2	W.	44	SW.	2	8	3	0	5	6	8	23	7	0	6	6	18	16	12	15	0	0	9	0	21	0	0
December	12.6	W.	36	S.	0	2	0	0	3	9	13	16	19	0	3	7	21	22	13	22	0	0	30	0	31	0	0
Year	10.9	NW.	50	SW.	9	79	47	36	57	92	84	146	189	0	82	109	174	167	120	82	0	10	91	1	147	24	3

MEMPHIS, TENN.

[H=397 ft.; h_t=146 ft.; h_r=134 ft.; h_a=154 ft.]

January	11.6	NW.	47	NW.	1	3	8	3	8	14	6	3	17	0	13	5	13	12	8	0	0	2	1	0	9	1	0
February	11.6	NE.	40	NW.	1	6	10	4	8	6	8	3	11	0	8	8	12	12	10	1	0	2	2	0	8	0	0
March	9.5	NW.	36	W.	0	8	17	4	7	9	2	3	12	0	4	8	19	10	9	0	0	1	0	0	1	3	0
April	12.8	NW.	64	NW.	2	2	6	5	9	14	3	3	18	0	9	10	11	8	6	0	1	0	0	0	0	6	0
May	10.6	SE.	40	NW.	1	1	9	10	17	15	6	2	2	0	5	14	12	13	11	0	0	0	0	0	0	7	0
June	6.9	NW.	36	NW.	0	9	8	3	4	3	7	2	23	1	15	8	7	7	4	0	0	0	0	2	0	4	0
July	7.8	SW.	44	W.	1	5	5	0	8	11	17	7	8	1	16	13	2	9	2	0	0	0	0	14	0	6	0
August	7.2	SW.	36	E.	0	12	6	3	6	9	18	6	2	0	17	11	3	6	4	0	0	0	0	5	0	6	0
September	8.0	N.	26	SW.	0	14	6	5	8	6	4	2	13	2	23	4	3	4	4	0	0	0	0	5	0	0	0
October	9.1	NE.	32	N.	0	16	9	5	3	11	6	2	8	2	19	6	6	2	2	0	0	0	0	0	0	0	1
November	8.4	NW.	39	NW.	0	8	11	3	9	11	3	2	13	0	16	6	8	6	4	0	0	1	0	0	7	2	0
December	9.4	S.	42	NW.	1	6	7	3	7	9	14	7	9	0	21	3	7	12	7	3	0	0	1	0	17	0	0
Year	9.4	NW.	64	NW.	7	90	102	48	94	118	94	42	136	6	166	96	103	101	71	4	1	6	4	26	42	35	1

MERIDIAN, MISS.

[H=375 ft.; h_t=84 ft.; h_r=3 ft.; h_a=93 ft.]

January	6.4	NW.	34	W.	0	4	3	5	1	2	4	6	6	0	9	5	17	13	10	0	0	1	0	0	9	1	0
February	7.2	NE.	34	W.	0	2	7	4	2	4	2	3	2	2	6	6	16	14	10	0	0	1	0	0	7	4	0
March	6.1	NE.	19	NW.	0	6	9	5	3	2	1	2	3	0	3	11	17	16	13	0	0	2	0	0	0	0	0
April	7.6	S.	28	SW.	0	7	2	0	2	8	4	3	3	1	13	11	6	5	4	0	0	0	0	0	0	4	0
May	5.7	NE.	32	NW.	0	0	8	5	4	7	6	0	1	0	11	9	11	8	6	0	0	0	0	0	0	3	0
June	4.5	NE.	32	NW.	0	6	8	0	1	2	6	3	3	1	10	13	7	14	11	0	1	0	0	3	0	7	0
July	3.9	SW.	25	W.	0	4	3	5	0	5	9	2	3	0	10	19	2	16	12	0	0	0	0	13	0	18	0
August	3.9	W.	23	SW.	0	2	2	3	2	0	9	9	3	1	12	14	5	13	11	0	0	0	0	13	0	13	0
September	4.7	NE.	24	NW.	0	5	7	5	3	1	2	2	3	2	24	5	1	2	1	0	0	0	0	7	0	1	0
October	4.7	NE.	28	N.	0	7	7	6	2	3	1	2	3	0	16	10	5	5	5	0	0	1	0	0	1	0	0
November	5.3	NE.	20	SW.	0	6	10	1	1	1	6	1	4	1	13	8	9	6	6	0	0	1	0	0	10	3	0
December	5.3	N.	32	W.	0	7	6	1	3	0	3	6	3	2	19	6	6	8	7	0	0	0	0	0	20	0	0
Year	5.4	NE.	34	W.	0	55	72	40	24	35	53	39	37	10	146	117	102	120	96	0	1	6	0	36	47	49	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

MILES CITY, MONT.

[λ = 46° 25′ N.; φ = 105° 49′ 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	27.395	27.800	26.791	17.8	27.2	33.2	14.9	24.0	50	− 8	16	22	93	80	.094	.117	.19	.08	3.4	4.1	3.8
February	27.569	27.908	27.073	2.8	16.0	23.2	− .9	11.2	42	−30	2	12	94	84	.050	.076	.51	.29	3.8	3.4	3.6
March	27.474	27.920	27.058	20.9	35.1	39.4	19.3	29.4	70	2	16	26	83	69	.090	.149	.28	.20	5.7	5.5	5.6
April	27.377	27.890	26.869	37.5	55.5	59.9	35.4	47.6	82	20	30	46	74	70	.168	.331	.56	.23	3.5	5.0	4.3
May	27.362	27.841	26.932	46.3	68.8	68.1	43.3	55.7	96	30	40	55	80	74	.256	.458	1.07	.26	4.4	4.1	4.3
June	27.462	27.857	27.153	59.6	75.6	81.2	55.5	68.4	100	40	52	66	76	74	.391	.663	.94	.30	3.3	3.7	3.6
July	27.409	27.600	27.050	62.4	78.5	84.2	59.3	71.8	104	52	54	69	76	73	.433	.727	2.70	1.46	3.0	3.5	3.2
August	27.423	27.675	27.148	59.9	78.0	83.4	57.5	70.4	98	50	53	69	79	75	.411	.733	1.43	1.02	3.1	2.8	2.9
September	27.461	27.891	27.096	47.1	62.0	67.2	46.5	56.8	84	32	42	55	82	78	.269	.451	1.58	.68	4.6	4.4	4.5
October	27.511	27.930	26.789	37.6	56.5	65.2	36.5	50.8	80	26	33	49	84	77	.190	.352	.32	.22	2.4	2.7	2.3
November	27.531	28.117	26.797	23.5	33.8	40.5	21.9	31.2	74	−12	21	29	91	82	.120	.171	.26	.08	3.9	4.0	4.0
December	27.509	27.870	27.130	24.9	30.5	38.0	22.0	30.0	62	− 6	21	25	85	79	.115	.137	.14	.10	3.2	3.5	3.5
Year	27.457	28.117	26.789	36.7	51.0	57.0	34.3	45.6	104	−30	32	44	83	76	.216	.364	9.98	1.46	3.7	3.9	3.8

MILWAUKEE, WIS.

[λ=43° 2′ N.; φ=87° 54′ W.]

January	29.198	29.682	28.360	20.1	23.4	28.9	15.7	22.3	44	− 8	17	18	86	79	.101	.106	.60	.17	5.6	5.4	6.0
February	29.325	29.741	28.505	20.7	25.3	30.4	16.3	23.4	45	−12	17	20	85	78	.106	.113	2.01	1.12	5.8	3.4	4.8
March	29.392	29.746	28.824	34.8	39.9	46.9	32.3	39.6	75	11	31	33	86	78	.178	.202	3.20	1.15	6.0	5.7	6.2
April	29.192	29.517	28.552	40.6	45.5	58.1	38.2	45.6	70	26	35	34	82	67	.207	.205	2.68	.56	6.3	6.2	6.2
May	29.313	29.657	28.913	51.4	55.1	63.7	46.8	55.2	83	33	44	47	79	74	.306	.329	3.03	.88	5.8	5.5	5.0
June	29.253	29.592	28.984	58.3	62.6	69.6	53.4	61.5	86	42	53	53	82	73	.405	.415	1.51	.53	5.9	5.0	4.8
July	29.254	29.519	28.870	67.6	71.2	79.2	62.7	71.0	91	56	63	63	86	76	.586	.586	4.53	2.47	4.7	4.1	4.2
August	29.260	29.540	29.020	63.7	67.0	73.7	60.0	66.8	85	53	60	61	88	82	.524	.548	5.56	1.64	6.0	6.4	5.9
September	29.333	29.583	28.928	57.4	63.3	70.7	53.9	62.3	84	39	53	55	84	76	.415	.456	5.02	2.29	5.2	4.6	4.3
October	29.345	29.774	28.711	46.9	52.7	59.6	44.3	52.0	82	31	43	44	86	74	.290	.305	2.13	1.80	4.9	4.1	4.7
November	29.350	29.932	28.545	30.6	35.4	41.4	28.1	34.8	64	11	26	26	81	68	.157	.160	1.49	1.09	4.3	4.5	4.5
December	29.274	29.721	28.807	16.0	19.6	24.7	10.7	17.7	41	−14	11	14	80	79	.078	.088	1.65	.77	5.6	5.9	6.3
Year	29.291	29.932	28.360	42.3	46.8	53.5	38.5	46.0	91	−14	38	39	84	75	.279	.293	33.41	2.47	5.5	5.0	5.2

MINNEAPOLIS, MINN.[a]

[λ=44° 59′ N.; φ=93° 18′ W.]

January				16.7	23.6	5.5	14.6	40	−14		12		80		.082	.22	.09				
February				17.2	24.0	5.6	14.8	42	−24		12		80		.087	.59	.33				
March				36.3	40.5	26.6	33.6	60	8		33		89		.195	2.05	1.13				
April				47.7	54.5	35.7	45.1	73	24		44		87		.298	3.02	.90				
May				63.5	68.1	50.1	59.1	83	32		54		72		.427	4.40	.96				
June				70.5	74.5	65.4	65.4	85	40		53		56		.420	1.02	2.50				
July				74.6	77.7	61.0	69.4	92	51		66		75		.641	7.29	2.40				
August				69.0	72.3	57.9	65.1	88	48		65		87		.620	4.61	1.16				
September				61.0	66.4	50.1	58.2	82	37		58		89		.498	7.77	4.96				
October				52.3	58.4	41.6	50.0	73	30		47		82		.328	4.36	2.63				
November				32.0	37.3	22.2	29.8	66	0		27		81		.171	.31	.12				
December				14.4	21.4	3.8	12.6	35	−19		11		84		.075	.64	.13				
Year				46.3	51.6	34.7	43.1	92	−24		40		80		.320	36.19	4.96				

MOBILE, ALA.

[λ=30° 41′ N.; φ=88° 02′ W.]

January	30.029	30.449	29.662	45.2	51.4	56.5	41.8	49.2	74	25	40	41	82	71	.271	.282	5.39	1.94	5.9	5.1	6.4
February	30.063	30.453	29.446	49.3	56.4	62.2	46.6	54.4	72	24	43	45	81	69	.313	.342	8.83	2.29	6.6	6.0	7.1
March	30.027	30.310	29.740	58.3	63.9	69.0	56.7	62.8	75	44	54	55	87	76	.440	.462	6.63	2.90	6.5	6.7	7.6
April	29.951	30.234	29.536	59.0	67.4	73.5	56.4	65.0	83	45	52	54	79	64	.416	.445	.64	.43	3.2	3.4	3.3
May	29.933	30.128	29.677	66.8	72.7	77.5	64.3	70.9	85	53	63	65	88	76	.585	.615	5.40	2.19	5.8	4.2	5.3
June	29.877	30.055	29.689	71.9	77.7	83.1	69.3	76.2	91	59	66	66	82	70	.654	.664	2.65	.97	5.5	5.3	5.3
July	29.967	30.084	29.851	76.4	81.9	88.0	73.7	80.8	96	66	71	70	83	70	.757	.746	5.03	2.76	4.8	5.6	4.7
August	29.933	30.177	29.670	76.7	80.5	89.1	73.6	81.4	94	70	72	73	86	78	.788	.805	6.37	2.21	2.4	6.3	5.9
September	29.992	30.167	29.794	68.7	78.2	85.5	67.9	76.7	94	54	62	63	79	60	.575	.590	.83	.63	1.4	1.4	2.1
October	30.014	30.259	29.756	59.5	69.3	76.8	58.5	67.4	88	38	53	56	81	64	.447	.483	.99	.70	3.3	2.5	3.1
November	30.059	30.477	29.697	50.5	58.2	65.7	47.8	56.8	79	26	45	47	82	68	.353	.378	.85	.27	3.5	1.6	3.6
December	30.123	30.351	29.759	40.9	50.7	56.9	37.8	47.4	68	26	35	37	79	62	.214	.236	4.40	1.57	3.9	2.2	3.3
Year	29.997	30.477	29.446	60.3	67.4	73.6	57.9	65.8	96	24	55	56	82	69	.484	.504	48.01	2.90	4.4	4.2	4.8

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

MILES CITY, MONT.

[H=2,371 ft.; h_t=42 ft.; h_r=33 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.	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	6.0	S.	40	W.	1	9	2	0	3	19	5	11	11	2	15	13	3	4	3	3	0	0	13	0	30	0	0
February	4.3	SW.	28	W.	0	6	6	1	2	9	12	8	8	4	15	10	3	3	2	3	0	0	17	0	28	0	0
March	6.5	N.	32	NW.	0	16	4	6	8	7	6	3	11	1	10	12	9	4	2	4	0	0	10	0	28	0	0
April	7.8	NW.	38	SE.	0	8	5	3	9	4	9	9	12	1	13	13	4	5	4	2	0	0	0	0	8	0	0
May	8.7	W.	54	SW.	2	4	2	5	5	15	5	16	10	0	15	8	8	8	6	0	0	0	0	1	1	1	0
June	6.5	SE.	34	NW.	0	6	7	9	14	5	1	3	14	1	18	8	4	8	6	0	0	0	0	2	0	4	0
July	6.8	NW.	40	NW.	1	8	11	5	4	9	3	9	12	1	22	6	3	7	5	0	0	0	0	8	0	8	0
August	6.0	E.	34	W.	0	4	13	18	3	0	5	14	5	0	21	8	2	8	6	0	0	0	0	7	0	6	0
September	5.9	NE.	30	W.	0	10	12	2	7	8	6	5	9	1	16	6	8	6	6	1	0	0	0	0	9	0	0
October	5.7	S.	48	W.	2	4	3	3	12	15	9	3	9	4	25	5	1	2	2	0	0	0	0	0	9	0	0
November	6.2	S.	36	SW.	0	7	4	2	5	17	7	9	9	0	16	10	4	7	4	4	0	0	8	0	21	0	0
December	7.4	W.	48	W.	1	6	3	1	4	9	14	16	9	0	18	10	3	2	2	2	0	0	5	0	27	0	0
Year	6.5	NW.	54	SW.	7	88	72	55	76	117	82	106	119	15	204	109	52	64	48	19	0	0	53	18	152	19	0

MILWAUKEE, WIS.

[H=681 ft.; h_t=124 ft.; h_r=116 ft.; h_a=142 ft.]

January	11.2	W.	30	W.	0	8	1	3	1	4	12	26	7	0	11	4	16	14	5	12	0	2	18	0	29	1	0
February	12.1	W.	56	NE.	2	7	4	1	2	2	13	20	7	0	11	9	8	11	6	9	1	1	15	0	24	0	0
March	10.6	SW.	44	SW.	1	9	11	1	10	7	14	8	2	0	8	10	13	12	8	4	0	2	1	0	13	4	0
April	15.0	N.	42	N.	3	22	6	3	12	4	4	7	2	0	5	8	14	12	9	2	1	0	0	0	3	4	0
May	10.8	N.	46	SW.	3	15	16	1	10	10	6	3	1	0	11	10	10	15	11	0	1	1	0	0	0	9	0
June	8.9	N.	34	NE.	0	16	8	2	5	5	5	9	9	1	12	10	8	10	9	0	0	0	0	0	0	5	0
July	9.0	SW.	50	E.	1	12	4	1	8	6	11	13	6	1	16	8	7	10	10	0	0	0	0	2	0	7	0
August	10.5	NE.	36	S.	0	7	17	6	5	5	8	7	7	0	11	6	14	15	12	0	0	1	0	0	0	5	0
September	10.5	SW.	37	S.	0	4	7	1	5	11	12	13	7	0	15	7	8	11	10	0	0	0	0	0	0	7	0
October	10.0	SW.	39	S.	0	9	9	3	3	3	14	17	4	0	14	6	11	5	5	0	0	2	0	0	3	3	1
November	10.5	W.	41	SW.	1	7	2	1	2	7	12	15	14	0	13	8	9	5	4	3	0	2	10	0	22	1	0
December	11.2	W.	34	SW.	0	1	0	1	1	3	11	32	13	0	9	6	16	15	8	15	0	0	22	0	30	0	0
Year	10.9	W.	56	NE.	11	117	85	24	64	67	122	170	79	2	139	92	134	135	97	45	3	11	66	2	124	46	1

MINNEAPOLIS, MINN.

[H=—— ft.; h_t=99 ft.; h_r=95 ft.; h_a=208 ft.]

January	12.1	NW.	40	NW.	1	2	0	2	9	1	0	7	10	0	9	8	14	7	3	7	0	4	22	0	31	0	0
February	11.6	W.	50	N.	1	1	0	1	1	4	0	11	10	0	16	9	3	5	3	4	0	0	20	0	27	0	0
March	11.0	NW.	38	NW.	0	6	1	5	6	2	0	4	7	0	8	8	15	7	5	1	0	0	3	0	23	1	0
April	15.7	N.	48	S.	3	9	5	3	4	2	1	2	4	0	6	11	13	15	13	3	0	0	0	0	10	5	0
May	13.0	N.	50	SE.	2	8	5	3	4	7	2	1	1	0	3	12	16	14	11	0	0	0	0	0	0	8	0
June	9.3	NE.	40	NE.	1	4	6	2	4	2	5	3	4	0	6	17	7	6	4	0	0	0	0	1	0	2	0
July	10.9	N.	60	NW.	3	8	3	0	5	6	1	4	4	0	6	11	14	8	7	0	0	0	0	1	0	5	0
August	11.0	NW.	60	NW.	1	3	5	3	5	4	2	1	8	0	6	14	11	12	10	0	0	0	0	0	0	5	0
September	13.2	S.	46	S.	1	2	0	2	6	8	3	3	6	0	10	10	10	11	11	0	0	0	0	0	0	4	0
October	11.9	W.	45	W.	1	0	1	2	9	6	0	10	3	0	11	11	9	9	3	0	1	2	0	0	1	2	1
November	12.6	NW.	38	N.	0	3	1	1	5	5	4	4	7	0	8	12	10	3	3	3	0	3	12	0	22	0	0
December	12.5	NW.	38	W.	0	0	0	1	4	3	4	7	12	0	10	11	10	13	6	11	0	0	24	0	31	0	0
Year	12.1	NW.	60	NW.	14	46	27	25	62	50	22	57	76	0	99	134	132	110	79	29	1	9	81	1	145	32	1

MOBILE, ALA.

[H=57 ft.; h_t=88 ft.; h_r=78 ft.; h_a=96 ft.]

January	7.5	N.	35	N.	0	22	5	0	7	7	6	3	12	0	9	5	17	13	11	0	0	1	0	0	3	1	0
February	8.6	N.	27	NW.	0	15	5	3	8	10	3	2	10	0	7	3	18	12	12	0	0	5	0	0	1	3	0
March	6.7	N.	25	N.	0	19	5	7	10	12	3	1	3	2	3	9	19	13	12	0	0	6	0	0	0	1	0
April	9.5	S.	30	NW.	0	11	5	1	4	14	10	5	9	1	19	7	4	4	3	0	0	0	0	0	0	0	0
May	7.0	S.	24	SW.	0	16	9	5	10	16	4	1	1	0	9	14	8	10	9	0	0	2	0	0	0	4	0
June	6.6	SW.	23	SW.	0	10	4	3	2	10	19	8	4	0	8	13	9	12	8	0	0	0	0	2	0	8	0
July	6.0	SW.	30	NW.	0	11	2	4	2	12	14	9	6	2	12	11	8	14	10	0	0	0	0	10	0	10	0
August	5.7	W.	28	W.	0	13	9	1	1	6	10	15	7	0	5	22	4	13	11	0	0	0	0	8	0	14	0
September	7.3	N.	24	NW.	0	18	2	4	5	7	6	4	13	1	23	6	1	5	3	0	0	0	0	3	0	2	0
October	7.4	N.	34	N.	0	22	4	6	5	9	4	1	10	1	18	9	4	5	5	0	0	1	0	0	0	1	0
November	7.3	N.	30	N.	0	23	4	4	3	6	7	1	7	5	14	15	1	4	4	0	0	2	0	0	4	2	0
December	7.0	N.	27	N.	0	19	4	1	6	10	5	3	14	0	21	4	6	8	8	0	0	0	0	0	4	2	0
Year	7.2	N.	35	N.	0	199	58	39	68	119	91	53	96	12	148	118	99	113	96	0	0	17	0	23	12	48	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

MODENA, UTAH.

[λ=37° 58′ N.; φ=113° 54′ 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	24.643	24.994	24.224	23.2	36.2	44.2	20.0	32.1	58	7	17	21	75	54	.093	.113	.12	.08	3.0	4.1	3.7
February	24.588	24.879	24.135	6.3	22.1	28.0	2.0	15.0	48	−17	1	13	76	68	.048	.083	.85	.52	1.8	2.8	2.9
March	24.551	24.835	24.260	29.2	44.3	47.9	27.4	37.6	63	8	22	24	75	48	.123	.134	.74	.32	5.0	5.3	5.2
April	24.527	24.804	24.248	31.5	54.8	58.3	29.9	44.1	76	18	21	17	65	26	.116	.097	.61	.34	4.1	3.5	3.4
May	24.521	24.805	24.082	39.9	64.8	68.8	37.3	53.0	84	27	23	21	52	22	.125	.115	.55	.26	1.9	4.4	3.4
June	24.599	24.808	24.399	51.2	78.6	82.6	48.8	65.7	94	41	27	28	42	20	.153	.171	.13	.06	1.8	3.8	2.6
July	24.636	24.775	24.338	53.0	82.1	86.1	51.6	68.8	93	39	24	26	36	16	.145	.154	.14	.09	1.1	2.4	1.9
August	24.634	24.747	24.398	55.9	81.6	88.2	55.1	71.6	94	43	35	35	48	24	.220	.220	.92	.31	.9	2.9	1.7
September	24.637	24.864	24.299	46.1	70.4	74.1	44.3	59.2	89	30	31	27	57	25	.182	.163	1.48	.56	3.4	4.1	3.0
October	24.738	24.916	24.492	35.9	61.9	66.6	33.4	50.0	74	17	24	24	62	25	.135	.131	1.39	1.16	1.1	1.5	1.4
November	24.692	24.890	24.430	27.9	48.1	55.3	24.5	39.9	68	13	17	24	63	38	.098	.127	.00	.00	2.6	3.4	3.1
December	24.758	25.026	24.344	15.7	34.1	43.0	12.2	27.6	60	3	8	16	70	46	.061	.089	.00	.00	.7	1.3	1.1
Year	24.627	25.026	24.082	34.6	56.6	61.9	32.2	47.0	94	−17	21	28	60	34	.125	.133	6.93	1.16	2.3	3.3	2.8

MONTGOMERY, ALA.

[λ=32° 23′ N.; φ=86° 18′ W.]

January	29.847	30.250	29.422	41.0	48.8	54.2	38.6	46.4	76	24	37	38	85	67	.235	.245	3.16	1.29	5.9	4.2	5.7
February	29.894	30.341	29.134	45.6	54.7	60.3	42.1	51.2	80	19	42	45	87	72	.291	.333	11.76	3.22	6.4	5.1	6.9
March	29.866	30.174	29.519	56.2	63.3	68.3	54.5	61.4	82	39	53	56	90	79	.424	.474	5.21	1.54	7.2	7.2	7.8
April	29.747	30.099	29.273	55.7	66.3	72.7	52.3	62.5	84	39	50	54	82	66	.380	.437	3.04	1.11	3.8	3.6	4.3
May	29.771	29.959	29.528	65.6	74.0	79.4	62.3	70.8	91	48	60	62	84	69	.535	.564	6.11	2.72	4.6	5.8	5.9
June	29.691	29.897	29.487	69.4	77.4	83.9	65.9	74.9	93	53	65	66	85	69	.620	.640	5.63	3.05	4.4	5.7	5.4
July	29.784	29.954	29.619	75.4	82.4	89.5	71.6	80.6	96	65	70	69	85	66	.745	.712	2.25	.84	3.9	6.3	5.9
August	29.747	30.022	29.527	75.6	81.6	90.2	72.6	81.4	97	68	72	72	88	74	.781	.786	4.57	3.41	2.8	6.2	5.5
September	29.818	30.061	29.467	66.5	78.3	84.2	63.6	73.9	95	49	62	62	84	58	.561	.559	1.06	.90	2.0	2.4	3.3
October	29.848	30.123	29.604	56.7	69.2	76.2	54.6	65.4	90	36	52	54	85	59	.416	.438	1.65	.94	2.5	2.6	3.6
November	29.887	30.283	29.444	46.0	55.6	62.2	43.0	52.6	80	23	43	46	90	69	.316	.343	1.61	.62	4.4	3.2	5.1
December	29.936	30.150	29.580	36.1	47.9	54.5	33.6	44.0	63	23	31	37	81	68	.180	.227	2.94	1.08	3.6	2.6	3.2
Year	29.820	30.341	29.134	57.5	66.6	73.0	54.6	63.8	97	19	53	55	86	68	.457	.480	48.99	3.41	4.3	4.6	5.2

MOORHEAD, MINN.

[λ=46° 52′ N.; φ=96° 44′ W.]

January	28.944	29.402	28.305	6.0	11.4	18.1	−.1	9.0	40	−22	4	10	93	92	.057	.073	1.18	.50	5.3	5.1	5.5
February	29.117	29.569	28.508	−1.3	9.0	15.6	−4.9	5.4	38	−30	−3	6	90	89	.042	.066	.70	.42	2.2	3.2	2.8
March	29.085	29.499	28.648	21.0	29.6	33.6	18.5	26.0	61	3	20	26	94	87	.110	.146	.85	.52	6.6	6.0	6.5
April	28.942	29.363	28.364	34.9	47.6	53.1	32.4	42.8	74	20	31	36	86	66	.178	.214	2.56	.66	5.0	4.6	5.1
May	28.934	29.423	28.476	48.5	63.6	67.9	44.2	56.0	85	28	42	45	81	54	.287	.312	3.36	1.50	4.9	4.0	5.3
June	29.010	29.425	28.571	55.5	72.3	76.2	49.7	63.0	85	36	49	50	80	46	.354	.364	.80	.28	3.2	2.7	3.4
July	28.938	29.212	28.638	59.5	74.4	78.1	56.0	67.0	92	44	55	57	86	57	.446	.486	2.86	1.22	5.2	3.6	4.4
August	28.973	29.178	28.599	56.2	69.3	74.3	53.1	63.7	92	44	53	57	91	66	.413	.465	5.58	1.36	6.0	5.4	5.6
September	28.951	29.437	28.170	46.0	57.0	64.2	42.7	53.4	82	29	42	45	87	66	.281	.311	5.60	2.28	5.4	5.6	6.1
October	28.994	29.555	28.090	38.0	50.5	58.5	36.0	47.2	71	24	35	40	88	69	.210	.258	3.66	1.80	6.0	3.5	4.5
November	29.071	29.505	28.429	19.2	26.7	34.2	14.8	24.5	72	−11	16	21	86	79	.101	.130	.24	.18	4.7	4.0	5.0
December	29.015	29.428	28.346	4.7	10.4	20.6	−2.0	9.3	35	−21	3	8	91	89	.052	.065	.90	.30	6.0	4.2	5.8
Year	28.998	29.569	28.090	32.4	43.5	49.5	28.4	38.9	92	−30	29	33	88	72	.211	.241	28.29	2.28	5.0	4.3	5.0

MOUNT TAMALPAIS, CAL.

[λ=37° 56′ N.; φ=122° 35′ W.]

January	27.637	27.834	27.108	44.4	46.0	50.9	40.9	45.9	68	31	37	37	79	77	.228	.229	6.37	1.10	3.4	4.3	4.9
February	27.604	27.854	27.199	38.6	43.8	47.4	36.3	41.8	61	25	26	30	63	61	.152	.176	1.79	.63	2.0	2.4	3.3
March	27.498	27.706	27.248	41.5	44.6	48.4	39.3	43.8	63	31	37	37	85	79	.222	.227	6.77	1.44	4.1	5.5	7.1
April	27.547	27.744	27.253	44.9	51.1	56.5	41.8	49.2	70	31	30	38	62	64	.173	.233	.79	.44	1.4	3.2	2.7
May	27.507	27.590	27.336	53.9	60.8	66.2	50.0	58.1	86	36	36	38	53	47	.211	.237	T.	T.	1.2	1.3	1.4
June	27.510	27.644	27.322	60.5	66.4	71.9	56.5	64.2	95	40	34	39	45	42	.206	.246	T.	T.	1.8	1.4	2.2
July	27.538	27.683	27.343	61.1	68.5	73.4	57.7	65.6	88	44	34	39	42	38	.202	.248	.01	.01	1.1	.7	1.3
August	27.497	27.595	27.307	64.7	70.8	76.6	60.0	68.3	91	46	38	40	42	36	.234	.252	T.	T	.0	.5	.6
September	27.520	27.669	27.338	64.8	69.5	75.1	60.6	67.8	93	40	33	36	39	36	.199	.222	T.	T.	0.1	.6	1.2
October	27.609	27.738	27.377	60.8	64.4	70.0	58.2	64.1	86	43	41	43	55	51	.269	.281	.36	.82	1.1	2.0	2.5
November	27.616	27.799	27.337	49.0	50.7	55.2	46.2	50.7	66	37	42	44	80	80	.280	.292	8.67	2.14	3.1	4.8	5.5
December	27.680	27.853	27.439	47.9	49.8	53.5	44.5	49.0	59	39	31	33	57	58	.186	.198	2.70	1.10	1.7	2.6	3.3
Year	27.564	27.854	27.108	52.7	57.2	62.1	49.3	55.7	95	25	35	38	58	56	.214	.237	27.46	2.14	1.8	2.4	3.0

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

MODENA, UTAH.

[H=5,479 ft.; h_t=10 ft.; h_r=2 ft.; h_a=48 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	W.	43	S.	3	6	16	9	0	1	12	18	0	0	18	5	8	2	2	2	1	0	1	0	28	0	0
February	6.7	W.	27	SW.	0	6	12	8	6	0	4	19	1	0	20	1	7	6	2	6	0	0	17	0	28	0	0
March	9.2	SW.	41	SW.	3	1	6	4	4	3	25	12	7	0	9	12	10	7	6	4	0	0	0	0	24	0	0
April	11.1	W.	43	SW.	1	2	4	7	2	7	17	18	3	0	16	9	5	6	4	5	2	0	0	0	19	0	0
May	10.4	W.	48	SW.	3	2	1	7	2	2	20	25	3	0	18	11	2	7	4	1	2	0	0	0	6	2	0
June	11.2	SW.	43	SW.	2	2	4	2	3	9	19	16	5	0	21	7	2	5	1	0	0	0	0	0	4	0	0
July	14.0	SW.	65	SW.	4	1	2	5	0	4	27	22	1	0	23	6	2	3	2	0	0	0	0	0	7	4	0
August	12.1	SW.	44	SW.	3	2	1	3	1	4	26	21	4	0	22	9	0	7	6	0	4	0	0	0	11	0	0
September	10.1	W.	60	SW.	3	2	5	5	5	1	13	22	6	1	21	5	4	7	6	0	1	0	0	0	14	1	1
October	8.5	W.	42	SW.	1	4	6	11	5	2	7	26	1	0	27	2	2	3	2	0	0	0	0	0	25	0	0
November	9.6	W.	42	SW.	2	0	10	6	1	0	19	23	1	0	15	11	4	0	0	0	0	0	0	0	31	0	0
December	8.2	W.	39	SW.	0	3	12	9	3	0	3	26	6	0	27	3	1	0	0	0	0	0	0	0			
Year	10.0	W.	65	SW.	25	31	79	76	32	33	192	248	38	1	237	81	47	53	35	16	10	0	18	21	176	29	1

MONTGOMERY, ALA.

[H=223 ft.; h_t=100 ft.; h_r=70 ft.; h_a=112 ft.]

January	7.4	E.	34	W.	0	9	4	12	5	6	5	9	12	0	11	6	14	11	5	0	0	1	0	0	5	1	0
February	8.3	SE.	42	W.	1	7	9	7	10	8	5	6	4	0	5	7	16	12	10	0	0	1	1	0	4	3	0
March	6.9	E.	26	NE.	0	10	11	15	14	1	2	5	4	0	3	8	20	14	12	0	0	1	0	0	0	1	0
April	8.3	SE.	34	NW.	0	9	4	1	13	8	7	9	9	0	13	10	7	9	7	0	0	0	0	0	0	6	0
May	6.6	SW.	34	SW.	0	9	7	14	9	0	15	7	1	0	9	10	12	14	11	0	0	0	0	0	0	4	0
June	5.4	N.	32	W.	0	14	6	4	5	7	9	8	7	0	9	12	9	11	10	0	0	0	0	0	0	7	0
July	5.2	SW.	30	S.	0	11	8	4	3	11	18	6	0	1	7	16	8	14	9	0	0	0	0	0	0	12	0
August	5.1	W.	29	SE.	0	5	6	6	8	4	11	21	1	0	9	13	9	13	9	0	0	0	0	0	0	12	0
September	6.7	E.	30	NE.	0	9	13	17	6	1	3	6	4	1	19	7	4	5	2	0	0	0	0	0	0	1	0
October	5.9	E.	28	N.	0	15	9	17	9	4	0	2	6	0	16	10	5	3	3	0	0	0	1	0	0	1	0
November	6.4	NE.	34	SE.	0	13	15	4	8	3	6	3	7	1	11	10	9	6	4	0	0	0	4	0	6	2	0
December	6.0	N.	30	NW.	0	16	7	4	5	4	13	6	7	0	19	5	7	7	7	0	0	0	0	0	13	0	0
Year	6.5	N.	42	W.	1	127	99	105	95	57	94	88	62	3	131	114	120	119	89	0	0	8	1	42	28	50	0

MOORHEAD, MINN.

[H=935 ft.; h_t=54 ft.; h_r=44 ft.; h_a=60 ft.]

January	11.8	NW.	40	NW.	1	5	5	1	17	1	5	4	24	0	11	7	13	10	8	10	0	0	25	0	31	0	0
February	9.5	NW.	36	NW.	0	4	0	2	8	8	9	6	19	0	21	2	5	6	6	6	0	0	23	0	28	0	0
March	11.5	NW.	46	SE.	2	11	2	2	20	1	2	4	20	0	7	9	15	6	4	5	0	0	14	0	29	0	0
April	11.9	SE.	38	SE.	0	14	4	2	19	3	1	3	14	0	10	10	10	10	10	2	0	0	0	0	14	1	0
May	10.6	SE.	48	SE.	1	5	13	4	18	5	5	4	8	0	13	9	9	10	9	0	1	0	0	0	6	5	0
June	8.1	SE.	30	NE.	0	11	9	3	18	3	6	1	8	1	17	10	3	7	7	0	0	0	0	0	0	1	0
July	8.9	SE.	35	E.	0	4	4	1	19	3	2	8	20	1	13	11	7	10	8	0	0	0	0	0	1	6	0
August	8.4	SE.	39	SE.	0	5	12	7	17	3	2	3	12	1	11	8	12	13	13	0	0	0	1	0	7	1	1
September	10.2	NW.	51	SW.	1	4	4	5	13	4	7	4	19	0	8	9	13	12	11	0	1	0	0	0	3	4	1
October	11.5	SE.	48	SE.	1	8	0	1	25	7	2	2	17	0	14	7	10	7	6	1	0	0	0	0	12	3	2
November	10.6	NW.	35	SE.	0	7	2	1	15	7	2	8	18	0	11	11	8	3	2	3	0	0	14	0	25	0	1
December	11.3	NW.	36	NW.	0	6	1	3	12	7	5	7	21	0	10	8	13	13	8	13	0	0	27	0	31	0	0
Year	10.4	SE.	51	SW.	6	84	56	32	201	52	48	54	200	3	146	101	118	107	92	40	2	0	103	2	178	27	5

MOUNT TAMALPAIS, CAL.

[H=2,375 ft.; h_t=11 ft.; h_r=5 ft.; h_a=18 ft.]

January	19.3	NW.	86	NW.	11	9	9	2	3	4	9	5	21	0	12	9	10	13	11	1	0	14	0	0	2	0	0
February	17.5	NW.	56	NW.	9	8	10	8	3	4	4	4	15	0	15	9	4	8	6	3	2	6	0	0	10	0	0
March	14.3	SW.	52	NW.	7	1	3	2	10	7	24	9	6	0	3	15	13	16	13	2	2	19	0	0	2	0	0
April	18.2	NW.	71	NW.	17	11	1	0	1	1	7	9	30	0	16	14	0	5	3	0	0	9	0	0	1	0	0
May	22.7	NW.	90	NW.	22	10	0	0	0	0	0	12	40	0	25	4	1	0	0	0	0	1	0	0	0	0	0
June	23.6	NW.	68	NW.	22	2	2	0	0	0	2	19	35	0	22	7	1	0	0	0	0	3	0	0	0	0	0
July	15.1	NW.	71	NW.	9	2	1	0	3	0	4	14	38	0	24	7	0	1	0	0	0	3	0	0	0	0	0
August	16.5	NW.	66	NW.	15	4	0	0	0	0	8	16	34	0	28	3	0	0	0	0	0	1	0	1	0	0	0
September	14.1	NW.	75	NW.	9	5	3	0	5	0	6	11	29	1	27	1	2	0	0	0	0	3	0	0	0	0	0
October	14.3	NW.	62	NW.	9	9	6	2	10	3	6	6	20	0	20	8	3	3	2	0	0	7	0	0	0	0	0
November	19.7	NW.	65	NW.	12	5	5	3	8	9	11	6	13	0	11	8	11	13	12	0	0	17	0	0	0	0	0
December	19.6	NE.	47	NW.	7	12	21	3	4	2	7	3	10	0	20	4	7	9	7	0	0	10	0	0	0	0	0
Year	17.9	NW.	90	NW.	119	78	61	20	47	30	88	114	291	1	224	89	52	68	54	6	4	95	0	3	15	0	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

NANTUCKET, MASS.

[λ=41° 17′ N.; φ=70° 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	29.900	30.623	29.163	30.2	32.0	37.6	25.7	31.6	52	4	24	25	77	75	.141	.147	3.02	.70	5.8	4.7	6.5
February	29.982	30.486	28.841	31.2	32.8	38.2	27.2	32.7	52	8	26	27	80	78	.149	.158	3.32	1.04	6.4	4.8	6.0
March	30.207	30.682	29.403	41.9	41.4	47.2	37.1	42.2	59	25	38	38	87	89	.239	.237	3.53	1.47	4.9	4.1	6.5
April	29.864	30.470	29.439	46.1	44.4	50.4	41.0	45.7	73	28	40	39	80	82	.252	.244	3.04	1.14	5.9	4.8	6.2
May	30.132	30.504	29.785	54.8	51.5	60.7	46.9	53.8	77	36	48	47	81	86	.351	.331	.93	.83	3.9	4.7	4.3
June	29.947	30.404	29.514	57.5	55.7	62.5	52.8	57.6	71	47	54	53	90	92	.430	.411	1.10	.56	6.3	5.5	7.1
July	29.891	30.181	29.500	67.4	65.2	73.6	61.5	67.6	87	56	61	60	81	84	.545	.527	1.81	1.01	4.8	6.1	4.9
August	29.997	30.380	29.706	64.5	62.5	69.0	59.4	64.2	77	55	59	59	83	89	.504	.504	2.09	.72	6.1	5.8	6.2
September	30.120	30.407	29.628	63.2	61.4	67.8	57.9	62.8	78	49	56	55	79	80	.470	.448	1.37	.90	4.9	2.9	4.8
October	29.991	30.367	29.408	54.5	53.9	58.9	49.8	54.4	70	34	49	48	81	82	.363	.361	3.33	2.00	5.8	4.7	6.0
November	29.983	30.676	29.503	41.8	43.2	47.6	38.0	42.8	64	23	35	37	78	79	.222	.238	3.82	1.55	5.8	5.1	6.4
December	29.960	30.537	29.359	30.6	33.1	39.0	26.4	32.7	54	8	23	26	72	73	.140	.152	2.97	.64	6.0	4.3	6.4
Year	29.998	30.676	28.841	48.6	48.1	54.4	43.6	49.0	87	4	43	43	81	82	.317	.318	30.33	2.00	5.6	4.8	5.9

NARRAGANSETT PIER, R. I.[a]

[λ=41° 19′ N.; φ=71° 17′ W.]

January						38.4	20.7	29.6	50	1							4.27	1.15			
February						40.1	22.5	31.3	56	2							5.19	1.12			
March						49.6	34.9	42.2	61	19							8.95	2.25			
April						54.9	37.5	46.2	84	26							6.05	1.80			
May						65.5	46.0	56.0	85	32							.80	.55			
June						63.2	52.5	57.8	77	40							6.22	1.05			
July						78.2	60.4	69.3	94	49							2.29	.85			
August						71.5	56.8	64.2	81	52							4.55	1.32			
September						70.3	52.8	61.6	85	36							.84	.40			
October						60.7	45.8	53.2	73	24							2.41	1.10			
November						48.9	30.0	39.4	71	12							2.31	1.05			
December						37.8	18.3	28.0	57	1							3.56	1.20			
Year						56.6	39.9	48.2	94	— 2							47.44	2.25			

NASHVILLE, TENN.

[λ=36° 10′ N.; φ=86° 47′ W.]

January	29.490	29.909	28.993	34.6	41.4	46.4	30.9	38.6	74	15	29	31	80	66	.177	.186	1.80	.75	6.4	4.9	5.8
February	29.554	30.093	28.968	36.5	43.2	50.5	32.2	41.4	69	1	32	34	83	70	.204	.224	4.81	1.14	5.3	4.6	5.1
March	29.577	29.910	29.247	49.0	56.5	61.6	46.8	54.2	76	29	45	48	87	74	.326	.360	5.17	1.29	7.9	7.0	7.2
April	29.395	29.756	28.918	51.6	60.5	67.5	47.6	57.6	82	33	45	46	79	60	.311	.319	4.00	2.00	5.1	6.1	5.3
May	29.467	29.800	29.264	62.8	72.3	79.1	59.0	69.0	90	39	56	56	79	60	.468	.478	5.64	2.55	5.2	4.7	4.8
June	29.382	29.605	29.155	65.1	74.5	79.7	61.1	70.4	89	47	60	61	86	65	.536	.554	7.58	3.49	3.6	3.9	4.2
July	29.454	29.653	29.310	74.0	82.7	89.0	70.2	79.6	94	61	68	68	82	62	.690	.689	3.04	.85	4.6	4.5	4.4
August	29.428	29.715	29.246	71.9	81.0	88.5	69.3	78.9	97	56	67	67	84	63	.661	.662	1.42	.53	3.9	4.9	4.1
September	29.545	29.767	29.381	61.8	76.8	84.1	59.0	71.6	96	43	55	53	79	45	.449	.435	.13	.13	3.0	2.6	3.0
October	29.553	29.912	29.295	51.4	63.9	71.7	49.8	60.8	92	32	46	45	81	53	.332	.340	2.06	.80	3.8	2.5	3.1
November	29.581	30.056	29.075	39.1	47.9	54.0	36.4	45.2	73	18	34	35	83	61	.227	.237	3.47	1.32	5.1	2.5	4.2
December	29.583	29.957	29.158	28.6	38.8	43.8	26.0	34.9	58	10	22	27	75	62	.117	.150	3.91	2.58	3.9	2.8	3.5
Year	29.501	30.093	28.918	52.2	61.6	68.0	49.0	58.5	97	1	47	48	82	62	.375	.386	43.03	3.49	4.8	4.2	4.6

NEW HAVEN, CONN.

[λ=41° 18′ N.; φ=72° 56′ W.]

January	29.827	30.496	29.106	25.8	30.0	36.7	21.7	29.2	49	4	19	21	74	67	.115	.125	3.17	.78	5.0	4.2	4.7
February	29.911	30.391	28.940	27.7	33.1	39.2	24.2	31.7	57	1	20	26	71	75	.120	.152	3.98	1.00	5.6	3.7	4.0
March	30.100	30.514	29.352	41.2	45.4	52.6	36.6	44.6	66	23	35	39	78	79	.211	.245	5.09	1.51	5.0	4.5	4.6
April	29.774	30.384	29.328	47.4	49.7	57.2	40.5	48.8	84	25	36	36	66	63	.221	.224	2.61	.97	3.9	4.1	3.6
May	30.029	30.408	29.718	57.8	60.3	70.0	49.6	59.8	90	34	46	47	66	64	.326	.334	.31	.20	2.6	2.6	2.2
June	29.833	30.285	29.499	58.9	61.1	67.5	54.1	60.8	85	44	53	55	82	81	.410	.437	7.41	2.77	7.0	6.3	6.8
July	29.796	30.060	29.517	70.6	71.8	81.3	62.8	72.0	94	52	60	62	72	74	.586	.578	2.17	1.01	3.2	4.9	3.1
August	29.896	30.318	29.610	68.2	65.9	73.2	57.5	65.4	86	52	56	58	80	78	.459	.493	6.96	2.29	6.0	5.8	5.0
September	30.021	30.311	29.598	60.6	63.0	71.9	53.9	62.9	88	41	54	56	79	78	.436	.467	2.20	.89	4.7	3.7	4.1
October	29.907	30.255	29.434	51.5	54.7	62.3	46.5	54.4	77	30	45	48	79	79	.324	.357	2.94	1.31	5.2	4.6	4.9
November	29.925	30.623	29.469	35.0	39.2	47.1	30.2	38.6	72	13	27	28	72	65	.161	.167	1.85	1.19	3.8	2.9	3.2
December	29.883	30.474	29.132	24.8	28.9	35.2	19.7	27.4	51	2	17	21	69	69	.104	.118	2.53	.88	4.1	3.0	4.3
Year	29.908	30.628	28.940	47.0	50.3	57.8	41.4	49.6	94	1	39	41	74	73	.265	.308	41.22	2.77	4.6	4.2	4.2

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

NANTUCKET, MASS.

[H=12 ft.; h_t=43 ft.; h_r=38 ft.; h_a=82 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.	Precipitation. 0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Maximum temp. Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Electricity. Auroras.
	Miles.		*Mi.*																								
January	16.7	W.	49	SE.	6	2	4	1	5	3	8	27	12	0	8	8	15	14	12	7	0	5	8	0	20	0	0
February	16.8	NW.	48	NW.	7	2	2	2	3	7	10	14	16	0	12	6	10	11	10	4	2	4	4	0	18	0	0
March	14.2	SW.	43	NW.	2	7	8	7	5	8	15	5	7	0	7	8	16	9	8	0	0	11	0	0	5	0	0
April	17.0	N.	48	N.	4	11	12	2	4	9	8	5	9	0	4	17	9	10	9	1	0	4	0	0	2	0	0
May	12.4	SW.	41	NE.	1	10	7	8	12	5	12	6	2	0	12	15	4	6	2	0	0	6	0	0	0	2	0
June	13.3	SE.	48	SE.	2	7	10	9	12	11	7	2	2	0	2	11	17	14	7	0	0	15	0	0	0	0	0
July	12.1	SW.	48	SE.	1	5	0	0	3	7	24	15	8	0	6	20	5	6	4	0	0	6	0	0	0	3	0
August	11.1	SW.	46	E.	1	7	5	7	8	12	12	5	6	0	3	18	10	13	8	0	0	7	0	0	0	3	0
September	12.0	SW.	38	NE.	0	9	9	4	1	11	15	3	8	0	10	13	7	4	4	0	0	8	0	0	0	1	0
October	18.2	N.	48	NE.	5	9	9	5	9	5	7	9	9	0	8	11	12	11	9	0	0	1	0	0	0	0	2
November	14.7	NW.	43	N.	3	10	4	0	1	6	6	14	19	0	6	9	15	15	12	4	0	0	1	0	8	1	0
December	16.2	W.	50	S.	2	2	6	1	4	3	7	24	15	0	9	6	16	17	15	3	1	0	7	0	22	1	0
Year	14.6	SW.	50	S.	34	81	76	46	67	87	131	129	113	0	87	142	136	130	100	19	3	67	20	0	75	11	2

NARRAGANSETT PIER, R. I.

[H= — ft.; h_t=10 ft.; h_r=1 ft.; h_a= — ft.]

January		W.			0	3	1	1	2	3	5	8	8	0	13	7	11	9	9	8	0	3	8	0	26	0	0
February		NW.			1	1	1	0	1	2	8	5	10	0	17	2	9	10	9	2	1	2	4	0	25	0	0
March		N.			0	6	5	0	5	5	1	4	0	0	13	4	14	12	10	0	0	5	0	0	9	0	0
April		NW.			1	3	4	4	0	4	6	2	7	0	15	6	9	9	9	0	0	1	0	0	4	0	0
May		SE.			0	3	3	2	9	3	8	1	2	0	21	6	4	4	4	0	0	4	0	0	0	1	0
June		E.			1	2	7	7	3	7	4	0	0	0	8	3	19	15	14	0	0	8	0	0	0	2	0
July		SW.			1	1	0	2	5	6	9	8	0	0	20	5	6	10	8	0	0	1	0	0	0	6	0
August		SW.			2	2	6	3	2	5	9	4	0	0	16	3	12	14	13	0	0	1	0	0	0	1	0
September		S.			0	5	0	0	3	11	8	3	0	0	17	4	9	4	4	0	0	4	0	0	0	2	0
October		NW.			3	5	5	1	4	3	3	4	6	0	16	4	11	10	10	0	0	0	0	0	4	1	0
November		NW.			0	2	3	1	1	6	1	7	9	0	19	0	11	9	8	2	0	1	3	0	18	0	0
December		W.			0	0	2	1	2	1	7	13	5	0	17	4	10	10	10	4	0	0	9	0	29	1	0
Year		SW.			9	33	37	22	37	56	73	56	51	0	192	48	125	116	108	11	1	30	24	3	115	14	0

NASHVILLE, TENN.

[H=546 ft.; h_t=122 ft.; h_r=115 ft.; h_a=134 ft.]

January	7.7	NW.	32	NW.	0	2	4	9	7	10	8	7	15	0	10	9	12	8	7	1	0	0	2	0	18	0	0
February	8.4	NW.	36	SE.	0	2	7	5	6	11	7	1	16	1	13	2	13	14	13	2	0	0	3	0	13	3	0
March	6.6	S.	29	S.	0	7	9	6	11	15	1	4	9	0	6	6	19	15	13	0	1	1	0	0	3	2	0
April	9.5	NW.	37	SW.	0	4	3	4	5	16	4	3	21	0	10	9	11	11	9	0	0	0	0	0	0	6	0
May	6.9	S.	30	S.	0	3	9	9	16	10	9	2	4	0	13	9	9	10	7	0	0	1	0	0	0	6	0
June	5.3	NW.	29	S.	0	9	3	1	5	3	8	15	16	0	14	11	5	10	10	0	0	0	0	0	0	8	0
July	5.4	SW.	42	NW.	1	5	10	4	4	8	14	7	10	0	11	16	4	14	8	0	0	0	0	0	0	9	0
August	4.9	NW.	30	NW.	0	7	5	5	5	7	16	5	12	0	13	15	3	9	6	0	0	0	0	0	0	9	0
September	6.2	NW.	25	S.	0	10	8	6	10	8	2	4	9	3	20	6	4	1	1	0	0	0	0	0	0	0	0
October	6.4	NW.	30	SW.	0	10	7	6	7	5	8	5	13	1	20	5	6	6	5	0	0	0	0	0	0	0	0
November	7.2	NW.	32	SW.	0	12	6	2	9	15	1	5	10	0	12	10	8	8	6	0	0	2	0	1	1	3	0
December	6.9	NW.	42	NW.	1	10	3	4	5	13	9	9	8	1	18	6	7	8	6	1	0	0	2	0	25	0	0
Year	6.8	NW.	42	NW.	2	81	74	61	90	121	87	67	142	6	160	104	101	114	91	4	1	4	8	39	69	39	0

NEW HAVEN, CONN.

[H=106 ft.; h_t=117 ft.; h_r=110 ft.; h_a=140 ft.]

January	10.2	N.	38	W.	0	19	3	6	1	2	5	12	14	0	15	6	10	10	7	4	0	2	8	0	23	0	0
February	10.0	W.	42	SW.	1	12	3	1	1	2	10	18	9	0	16	4	8	11	8	4	0	1	5	0	21	1	0
March	9.5	NE.	34	NE.	0	10	14	2	5	8	12	7	4	0	13	9	9	14	8	0	0	4	0	0	8	0	0
April	11.7	N.	40	N.	1	20	13	2	4	2	9	7	3	0	16	7	7	9	7	1	0	0	0	0	3	0	0
May	8.0	S.	33	NW.	0	11	13	3	12	7	8	5	3	0	23	6	2	4	3	0	0	0	0	1	0	2	0
June	8.5	NE.	41	E.	1	9	15	6	10	10	6	3	1	0	7	5	18	15	12	0	0	0	0	0	0	4	0
July	7.8	SW.	37	N.	0	12	2	3	1	7	13	12	12	0	20	9	2	10	9	0	0	0	0	4	0	8	0
August	7.3	N.	30	E.	0	16	13	2	4	4	9	7	7	0	12	8	11	13	10	0	0	0	0	0	0	2	1
September	7.9	SW.	60	S.	2	21	2	1	3	5	17	3	8	0	15	9	6	8	7	0	0	1	0	0	0	3	0
October	11.3	N.	43	NE.	2	14	14	3	3	4	10	3	11	0	14	7	10	14	7	0	0	0	0	0	2	0	1
November	8.4	N.	36	W.	0	27	2	0	1	1	6	12	11	0	20	3	7	6	4	0	0	0	3	0	16	0	0
December	10.9	W.	38	SW.	0	8	7	1	0	2	15	13	16	0	17	5	9	10	8	5	0	0	10	0	28	0	0
Year	9.3	N.	60	S.	7	179	101	30	45	54	120	102	99	0	188	78	99	124	90	14	0	8	26	5	101	20	2

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

NEW ORLEANS, LA.

[λ=29° 58′ N.; φ=90° 4′ 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	30.032	30.440	29.703	47.5	53.1	59.1	44.8	52.0	77	31	43	44	85	73	.298	.315	4.01	1.94	6.6	6.5	6.0
February	30.048	30.416	29.415	52.8	57.7	64.1	48.6	56.4	80	27	47	48	82	71	.363	.371	10.20	3.63	6.4	7.5	7.4
March	30.010	30.290	29.746	59.4	64.7	70.6	57.5	64.0	82	45	56	57	88	78	.469	.481	14.61	8.66	6.6	7.2	7.4
April	29.953	30.174	29.643	61.8	69.8	76.1	59.4	67.8	85	48	53	55	80	62	.462	.457	.97	.97	4.3	5.6	4.8
May	29.917	30.149	29.700	68.6	74.1	80.8	65.8	73.3	86	52	65	64	87	71	.618	.597	1.11	.75	5.2	7.1	5.9
June	29.877	30.071	29.702	73.3	78.1	85.0	69.8	77.4	93	60	68	67	82	71	.688	.676	3.61	1.70	6.8	6.6	6.2
July	29.962	30.073	29.861	78.6	81.4	89.0	74.5	81.8	95	69	72	72	81	74	.797	.784	7.17	2.08	5.6	6.1	6.2
August	29.938	30.134	29.675	79.1	81.5	90.4	75.7	83.0	94	69	74	72	86	74	.852	.794	7.48	2.83	5.8	6.1	6.4
September	29.994	30.188	29.840	72.5	78.7	85.7	70.0	77.8	92	58	65	68	79	61	.648	.607	3.32	1.34	2.8	2.6	2.9
October	30.015	30.289	29.764	64.1	70.6	77.7	62.2	70.0	89	49	57	57	80	65	.507	.507	.81	.31	5.5	2.9	4.5
November	30.064	30.494	29.770	53.1	60.5	68.5	50.4	59.4	83	29	49	49	85	66	.391	.385	.18	.11	4.4	2.0	4.0
December	30.127	30.414	29.745	45.9	52.5	60.9	43.4	52.2	76	33	40	40	80	66	.260	.271	3.71	1.79	5.9	3.3	4.3
Year	29.995	30.494	29.415	63.1	68.6	75.7	60.2	67.9	95	27	58	57	83	69	.529	.520	57.18	8.66	5.5	5.3	5.5

NEW YORK, N. Y.

[λ=40° 43′ N.; φ=74° 0′ W.]

January	29.615	30.233	28.921	28.4	31.7	36.8	24.4	30.6	51	8	22	22	77	67	.132	.129	3.44	1.05	5.3	4.3	6.1
February	29.698	30.177	28.819	30.6	35.7	40.4	28.5	34.4	62	2	23	25	71	66	.134	.148	3.83	1.14	5.2	4.0	5.1
March	29.865	30.245	29.164	43.5	48.6	54.5	40.5	47.5	67	28	38	41	80	76	.232	.270	3.65	1.14	4.9	4.6	6.2
April	29.545	30.114	29.080	48.3	52.8	59.5	45.0	52.2	85	28	36	40	64	63	.222	.256	2.88	1.10	4.5	4.1	5.1
May	29.804	30.172	29.507	58.7	64.5	72.4	55.8	64.1	91	40	49	51	72	63	.362	.389	.33	.14	4.4	3.1	4.3
June	29.609	30.034	29.123	61.4	61.4	69.5	58.6	64.0	83	53	56	59	83	84	.456	.509	7.42	2.49	6.7	7.8	7.6
July	29.599	29.827	29.268	70.3	74.8	82.1	66.4	74.2	94	57	63	63	78	68	.561	.586	3.23	1.13	4.1	5.5	5.1
August	29.670	30.089	29.358	66.3	69.6	75.0	63.5	69.2	88	56	60	60	80	74	.516	.532	5.96	2.65	5.6	5.8	6.7
September	29.800	30.094	29.391	62.1	66.8	71.9	59.0	65.4	84	45	56	60	82	79	.478	.528	2.60	1.30	4.5	3.3	4.7
October	29.690	30.019	29.246	53.8	57.5	62.7	50.5	56.6	75	34	46	48	76	74	.335	.366	11.55	9.40	5.5	4.5	5.9
November	29.713	30.372	29.276	38.7	42.8	48.0	34.9	41.4	70	17	30	30	70	61	.184	.181	.90	.42	3.6	3.3	4.0
December	29.665	30.232	28.874	27.8	31.1	36.5	23.7	30.1	52	7	20	21	72	64	.119	.116	2.81	.94	5.4	3.5	5.2
Year	29.689	30.372	28.819	49.2	53.4	59.1	45.9	52.5	94	2	42	43	75	70	.312	.334	48.60	9.40	5.0	4.5	5.5

NORFOLK, VA.

[λ=36° 51′ N.; φ=76° 17′ W.]

January	29.932	30.412	29.310	37.1	42.6	49.3	33.2	41.2	66	20	32	34	81	72	.195	.213	1.94	.41	6.4	3.9	5.7
February	30.027	30.547	29.027	41.8	46.0	54.7	37.2	46.0	74	14	35	35	77	67	.237	.223	3.24	.76	4.8	3.8	4.4
March	30.107	30.438	29.495	50.5	53.6	62.7	46.5	54.6	77	35	49	48	93	82	.357	.345	6.01	1.89	5.5	4.3	5.8
April	29.813	30.381	29.070	54.4	58.6	66.5	49.6	58.0	86	30	50	49	86	73	.370	.361	4.34	1.81	5.6	5.3	5.2
May	30.033	30.323	29.834	63.8	65.0	74.0	58.0	66.0	91	46	58	56	83	74	.502	.458	2.27	1.28	5.5	3.7	4.5
June	29.836	30.180	29.576	67.7	70.3	77.7	62.9	70.3	91	54	62	61	83	74	.568	.555	3.40	.83	5.6	4.9	5.3
July	29.894	30.084	29.644	75.9	79.2	87.3	70.1	78.7	96	64	70	68	82	70	.736	.692	4.00	1.85	4.0	2.7	3.4
August	29.884	30.270	29.672	74.6	76.4	83.8	70.6	77.2	97	66	70	70	86	80	.737	.725	7.68	2.14	5.5	4.4	5.3
September	30.049	30.383	29.654	68.6	69.8	77.0	63.8	70.4	88	50	62	61	81	75	.579	.569	2.79	1.80	3.4	3.4	4.7
October	29.964	30.316	29.420	56.6	60.0	68.7	52.4	60.6	85	36	52	51	85	74	.412	.400	6.08	2.04	4.0	4.1	5.5
November	30.019	30.563	29.565	44.1	47.8	54.4	39.8	47.1	78	23	38	36	80	64	.258	.238	2.14	1.90	3.8	3.8	5.4
December	30.002	30.445	29.406	35.7	38.6	45.7	30.6	38.2	61	17	28	25	72	58	.159	.140	2.21	1.07	4.5	4.0	5.1
Year	29.963	30.563	29.027	55.9	59.0	66.8	51.2	59.0	97	14	50	50	82	72	.426	.410	46.10	2.14	4.9	4.0	5.0

NORTHFIELD, VT.

[λ=44° 10′ N.; φ=72° 41′ W.]

January	28.908	29.577	28.249	12.6	18.9	26.7	6.5	16.6	44	−19	7	12	79	73	.074	.083	2.21	.76	7.2	6.9	6.5
February	28.993	29.391	28.243	16.6	22.0	29.8	8.7	19.2	59	−17	11	14	75	70	.080	.094	3.58	1.08	7.7	6.0	6.6
March	29.242	29.689	28.646	33.7	37.3	46.4	28.7	37.6	75	4	28	31	81	77	.165	.178	3.87	1.25	6.9	6.4	6.8
April	28.957	29.480	28.462	38.6	42.4	51.8	29.7	40.8	82	14	29	30	70	63	.167	.174	.97	.30	6.0	5.0	5.8
May	29.189	29.556	28.927	53.2	56.5	69.8	38.6	54.2	84	18	40	40	61	56	.259	.266	.19	.16	2.9	4.8	3.5
June	29.033	29.477	28.724	56.5	59.6	68.6	46.5	57.5	83	31	48	50	76	74	.354	.380	4.75	1.54	6.7	7.6	7.0
July	28.966	29.235	28.680	65.0	64.9	74.3	53.8	64.0	89	41	56	57	74	77	.466	.477	2.71	.58	6.3	7.4	7.1
August	29.083	29.490	28.740	56.8	58.7	67.7	47.1	57.4	79	37	50	52	80	80	.370	.391	2.94	.97	5.9	6.5	6.5
September	29.172	29.515	28.732	53.6	56.8	70.6	42.9	56.8	87	30	46	50	83	78	.360	.374	1.21	.64	3.7	3.4	3.4
October	29.077	29.483	28.536	42.1	46.9	56.0	34.9	45.4	69	18	38	40	86	77	.244	.258	2.75	.76	7.0	6.8	7.2
November	29.050	29.777	28.534	26.4	28.9	39.2	20.2	29.7	68	−2	22	22	82	78	.128	.124	1.04	.42	6.4	4.3	6.2
December	28.958	29.576	28.188	12.1	16.2	26.0	3.5	14.8	45	−20	7	10	79	76	.070	.076	2.92	1.19	7.6	6.6	7.5
Year	29.052	29.777	28.188	38.9	42.4	52.2	30.1	41.2	89	−20	32	34	77	73	.228	.240	29.09	1.54	6.2	6.0	6.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

NEW ORLEANS, LA.

[H=51 ft.; h_t=88 ft.; h_r=78 ft.; h_a=121 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	9.3	NE.	32	SE.	0	9	12	4	9	7	5	5	9	2	8	9	14	13	9	0	0	3	0	0	1	4	0
February	10.4	NE.	42	NW.	1	8	15	3	10	7	3	5	5	0	4	6	18	13	12	0	0	3	0	0	1	6	0
March	8.9	NE.	29	N.	0	11	19	7	13	4	2	3	3	0	5	7	19	17	16	0	1	4	0	0	0	5	0
April	10.0	SW.	32	N.	0	8	6	0	9	14	9	2	12	0	12	11	7	1	1	0	0	2	0	0	0	1	0
May	8.2	SE.	26	N.	0	5	8	4	25	10	3	2	5	0	8	12	11	7	4	0	0	1	0	0	0	8	0
June	7.4	SW.	33	NW.	0	3	13	0	8	7	18	9	2	0	5	13	12	14	9	0	0	0	0	7	0	8	0
July	6.4	SE.	24	SE.	0	2	6	2	14	10	12	12	4	0	8	9	14	14	9	0	0	0	0	13	0	17	0
August	6.1	W.	24	N.	0	4	12	3	4	12	12	11	3	1	3	18	10	16	12	0	0	0	0	19	0	20	0
September	7.7	NE.	30	SE.	0	8	15	3	12	4	0	12	6	0	17	11	2	5	5	0	0	0	0	5	0	2	0
October	8.2	NE.	28	N.	0	12	18	8	9	4	3	1	7	0	12	12	7	6	4	0	0	2	0	0	0	0	0
November	8.4	N.	28	NW.	0	14	18	2	7	7	6	1	5	0	15	10	5	3	2	0	0	7	0	0	2	1	0
December	8.9	N.	40	SE.	1	16	12	6	13	8	4	4	4	0	15	7	9	7	6	0	0	0	0	0	0	2	0
Year	8.3	NE.	42	NW.	2	100	154	42	133	89	77	67	65	3	112	125	128	116	89	0	1	22	0	44	4	74	0

NEW YORK, N. Y.

[H=314 ft.; h_t=108 ft.; h_r=305 ft.; h_a=350 ft.]

January	17.4	W.	62	W.	9	0	6	5	3	1	17	18	12	0	8	9	14	12	8	6	0	4	8	0	22	0	0
February	18.0	W.	72	NW.	11	6	2	4	1	4	7	19	13	0	10	9	9	9	8	3	0	1	4	0	17	1	0
March	12.5	E.	54	W.	4	4	7	14	3	12	8	7	7	0	8	8	15	11	9	0	0	5	0	0	2	0	0
April	15.7	NW.	55	NW.	7	9	9	7	2	8	5	4	16	0	12	6	12	9	9	1	0	0	0	0	2	0	0
May	9.9	E.	54	NW.	1	1	8	10	10	13	6	7	7	0	15	9	7	5	3	0	0	0	0	1	0	1	0
June	9.6	E.	40	W.	1	4	4	16	16	6	4	7	3	0	3	7	20	17	16	0	0	1	0	0	0	7	0
July	11.5	NW.	72	NW.	2	0	1	2	3	8	12	14	22	0	9	18	4	14	10	0	0	0	0	2	0	8	0
August	9.7	NW.	56	NW.	2	4	10	7	8	12	3	4	14	0	7	9	15	17	12	0	0	0	0	0	0	3	0
September	10.2	NW.	65	NW.	4	8	5	4	6	11	9	5	12	0	11	10	9	7	5	0	0	0	0	0	0	2	0
October	14.3	NW.	53	NW.	3	7	7	6	4	5	11	10	12	0	8	9	14	13	7	0	0	1	0	0	0	1	0
November	13.7	NW.	59	NW.	3	2	4	2	2	5	5	18	22	0	17	5	8	6	4	0	0	0	5	0	12	0	0
December	16.7	W.	62	NW.	7	6	4	2	1	6	9	24	10	0	10	10	11	10	9	5	0	1	9	0	25	0	0
Year	13.3	NW.	72	NW.	54	61	67	79	69	91	96	137	150	0	118	109	138	130	100	15	0	13	26	3	80	23	0

NORFOLK, VA.

[H=91 ft.; h_t=102 ft.; h_r=96 ft.; h_a=111 ft.]

January	9.8	W.	37	S.	0	3	12	2	8	8	7	15	7	0	8	11	12	11	9	0	0	1	1	0	12	0	0
February	10.8	S.	40	SW.	1	5	9	2	14	9	9	5	3	0	15	4	9	8	6	0	0	2	1	0	8	0	0
March	9.4	NE.	37	NE.	0	8	19	7	7	12	4	1	4	0	11	7	13	13	10	0	0	7	0	0	0	5	0
April	10.4		37	SW.	0	13	3	4	6	15	4	7	8	0	12	7	11	11	10	0	0	0	0	0	1	3	0
May	9.1	NE.	34	N.	0	3	18	14	10	8	6	1	2	0	10	15	6	8	6	0	0	0	0	1	0	1	0
June	8.6	S.	26	SW.	0	4	12	6	12	12	6	4	4	0	8	14	8	12	10	0	0	0	0	1	0	5	0
July	8.3	SW.	30	SW.	0	5	7	5	10	13	13	4	4	1	21	7	3	8	6	0	0	0	0	13	0	7	0
August	7.1	NE.	30	NW.	0	6	15	8	14	7	10	2	0	0	9	15	7	11	10	0	0	0	0	5	0	7	0
September	8.5	NE.	28	NW.	0	13	13	4	15	9	4	0	2	0	14	7	9	8	5	0	0	0	0	0	0	2	0
October	9.7	N.	45	N.	1	16	3	3	6	14	7	4	9	0	12	6	13	9	9	0	0	1	0	0	0	1	0
November	8.3	N.	31	SW.	0	17	8	1	2	11	8	4	9	0	11	7	12	5	4	1	0	2	1	0	8	1	0
December	9.2	N.	34	SW.	0	15	7	4	3	12	8	8	5	0	13	8	10	6	5	0	0	0	1	0	17	0	0
Year	9.1	NE.	45	N.	2	108	126	60	107	130	86	55	57	1	144	108	113	110	90	1	0	13	4	20	46	32	0

NORTHFIELD, VT.

[H=876 ft.; h_t=16 ft.; h_r=3 ft.; h_a=60 ft.]

January	8.2	S.	36	SW.	0	12	3	0	1	31	5	1	9	0	4	14	13	12	10	9	0	0	19	0	30	0	0
February	9.0	S.	46	SW.	1	9	2	0	2	20	9	1	13	0	4	12	12	11	10	8	0	0	15	0	27	1	0
March	8.7	S.	36	SW.	0	11	2	1	3	31	6	0	8	0	6	9	16	14	11	5	0	4	2	0	16	0	0
April	9.5	N.	38	SE.	0	18	8	1	5	17	2	0	9	0	7	10	13	7	5	2	0	0	1	0	17	0	0
May	8.8	S.	34	NW.	0	11	5	3	10	24	2	1	6	0	17	12	2	3	1	0	0	0	0	0	7	1	0
June	7.2	S.	32	S.	0	7	6	0	9	28	5	1	4	0	7	3	20	17	12	0	1	0	0	0	1	6	0
July	7.5	S.	44	NW.	3	5	7	1	10	22	8	1	10	0	4	9	18	17	16	0	0	0	0	0	0	6	0
August	6.7	S.	26	NW.	0	10	5	0	7	27	6	0	7	0	6	13	12	13	9	0	0	1	0	0	0	4	0
September	7.1	S.	36	SW.	0	6	6	3	7	32	3	1	2	0	16	10	4	5	3	0	0	0	0	0	4	2	0
October	8.4	S.	32	W.	0	9	3	1	6	28	5	0	10	0	6	9	16	12	8	2	0	0	1	0	10	0	2
November	7.0	S.	34	NW.	0	13	3	0	0	28	4	2	10	0	8	10	12	8	6	5	0	0	10	0	25	0	0
December	7.7	S.	35	SW.	0	13	3	0	2	27	8	4	5	0	3	7	21	13	9	11	0	0	22	0	31	0	0
Year	8.0	S.	46	SW.	4	124	53	10	62	315	61	12	93	0	88	118	159	132	100	42	1	5	70	0	168	20	2

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

NORTH HEAD, WASH.

[λ=46° 16′ N.; φ=124° 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	29.763	30.141	29.049	44.6	45.6	48.7	41.3	45.0	59	33	43	42	93	89	.280	.271	8.74	2.18	6.8	6.7	8.2
February	29.949	30.224	29.159	39.4	45.3	47.0	37.5	42.2	61	30	37	37	91	76	.228	.224	2.00	1.12	4.5	6.2	5.8
March	29.719	30.068	29.248	41.7	45.7	48.5	39.1	43.8	60	31	39	38	90	77	.241	.236	4.93	1.74	5.6	6.1	6.4
April	29.859	30.144	29.561	43.9	47.3	50.0	41.9	46.0	68	33	41	41	90	78	.258	.255	4.15	1.20	7.9	7.4	7.6
May	29.865	30.174	29.547	48.1	50.8	52.5	46.7	49.6	60	42	46	46	93	84	.314	.311	2.70	.54	7.2	7.7	7.7
June	29.816	30.145	29.520	54.2	57.3	59.6	52.5	56.0	96	44	51	51	90	83	.376	.378	3.21	1.24	8.4	8.1	7.4
July	29.882	30.071	29.591	54.5	57.3	58.5	53.5	56.0	61	49	52	53	94	86	.396	.403	.91	.26	8.5	7.3	7.6
August	29.824	29.992	29.537	55.6	59.0	60.5	54.8	57.6	67	50	54	54	95	84	.416	.421	1.01	.37	8.9	6.5	7.7
September	29.849	30.110	29.466	54.5	56.8	60.0	52.4	56.2	73	49	53	52	95	86	.401	.395	3.07	.81	5.2	4.1	5.7
October	29.846	30.121	29.380	53.0	55.7	58.8	51.0	54.9	77	46	51	50	93	84	.373	.367	4.55	1.14	5.7	5.5	7.2
November	29.695	30.162	28.895	47.4	47.9	51.7	43.7	47.7	66	35	45	43	90	84	.300	.286	9.63	1.47	7.5	8.8	9.2
December	29.945	30.289	29.368	45.4	47.3	50.2	42.7	46.4	61	37	43	43	90	86	.276	.279	5.57	1.05	5.8	6.8	6.5
Year	29.834	30.289	28.895	48.5	51.3	53.8	46.4	50.1	96	30	46	46	92	83	.321	.319	50.47	2.18	6.8	6.7	7.2

NORTH PLATTE, NEBR.

[λ=41° 08′ N.; φ=100° 45′ W.]

January	27.032	27.381	26.552	21.3	31.3	39.7	18.3	29.0	53	− 5	18	22	84	65	.099	.117	.27	.26	2.5	3.0	3.1
February	27.147	27.506	26.606	14.1	23.0	29.2	10.9	20.0	48	−11	12	17	90	77	.079	.098	1.29	.52	5.6	5.1	5.8
March	27.111	27.368	26.761	26.6	40.6	46.9	25.7	36.3	75	5	24	31	90	70	.134	.175	.12	.06	4.7	5.1	5.3
April	27.000	27.460	26.450	38.6	56.5	62.5	36.9	49.7	82	19	33	36	81	48	.196	.217	.95	.31	4.0	4.5	4.8
May	27.002	27.356	26.522	49.8	63.1	68.7	46.9	57.8	86	34	45	48	85	60	.313	.340	3.74	1.78	4.9	5.9	6.0
June	27.124	27.455	26.718	56.5	70.6	75.3	52.5	63.9	91	43	53	55	87	60	.404	.446	3.99	1.24	4.8	6.0	5.6
July	27.077	27.279	26.677	64.7	78.6	84.0	60.9	72.4	98	47	59	61	83	57	.512	.544	2.93	.84	4.9	4.0	4.8
August	27.088	27.331	26.782	62.1	77.4	83.5	59.8	71.6	97	47	59	62	90	62	.503	.575	3.58	1.28	5.0	3.3	4.2
September	27.071	27.446	26.652	48.7	68.7	76.4	46.7	61.6	96	24	42	47	78	50	.283	.343	.76	.70	4.7	3.5	4.4
October	27.157	27.527	26.495	40.0	55.4	69.5	38.7	54.1	89	28	34	38	79	49	.206	.239	.44	.18	2.4	3.3	3.0
November	27.151	27.596	26.552	28.2	39.9	51.7	25.0	38.4	77	0	23	28	82	63	.135	.165	.28	.16	3.8	3.9	4.4
December	27.138	27.496	26.634	22.0	33.3	46.5	16.8	31.6	62	3	17	21	80	59	.096	.112	.01	.01	2.3	2.8	3.6
Year	27.092	27.596	26.450	39.4	53.2	61.2	36.6	48.9	98	−11	35	39	84	60	.247	.281	18.36	1.78	4.1	4.2	4.6

OKLAHOMA, OKLA.

[λ=35° 26′ N.; φ=97° 33′ W.]

January	28.740	29.140	28.348	32.5	40.9	48.0	29.3	38.6	70	13	27	30	81	68	.156	.174	.27	.07	4.5	5.5	5.1
February	28.801	29.231	28.208	29.3	36.4	43.4	25.7	34.6	69	4	25	28	82	72	.141	.161	2.65	1.38	5.9	5.0	5.1
March	28.798	29.226	28.483	41.2	53.1	58.7	30.1	48.9	77	18	37	40	85	65	.232	.268	2.68	1.82	5.2	5.3	5.5
April	28.648	29.141	28.059	51.2	65.5	71.2	48.4	59.8	87	33	42	40	72	42	.287	.268	.64	.44	3.6	3.9	3.1
May	28.610	29.044	28.365	59.6	68.3	73.1	56.9	65.0	84	55	55	56	86	69	.458	.480	10.79	4.06	6.5	6.5	6.3
June	28.696	29.021	28.398	63.8	76.2	79.7	61.3	70.5	91	48	57	56	80	52	.477	.463	1.15	1.11	5.7	5.1	4.3
July	28.680	28.870	28.463	72.0	85.7	90.2	69.8	80.0	101	60	66	66	82	52	.635	.637	1.97	.96	3.4	2.1	3.1
August	28.681	28.988	28.494	70.9	83.8	89.5	69.5	79.5	97	61	66	64	84	53	.635	.594	2.07	1.26	3.2	2.7	3.7
September	28.737	29.021	28.418	61.9	74.8	81.6	59.6	70.6	94	44	55	56	78	54	.451	.457	1.89	.62	3.3	4.1	3.8
October	28.781	29.114	28.191	52.9	64.0	72.1	51.5	61.8	89	38	45	46	75	55	.328	.338	2.41	1.08	4.6	4.1	4.1
November	28.814	29.386	28.291	39.6	49.3	57.3	37.0	47.1	84	13	31	33	72	55	.193	.208	.40	.34	4.5	2.1	4.1
December	28.834	29.240	28.354	33.1	45.3	53.4	28.8	41.1	63	14	23	26	66	47	.131	.149	.69	.63	2.7	1.8	3.1
Year	28.735	29.386	28.059	50.7	61.9	68.2	48.1	58.1	101	4	44	45	79	57	.344	.349	27.61	4.06	4.4	4.0	4.3

OMAHA, NEBR.

[λ=41° 16′ N.; φ=95° 56′ W.]

January	28.810	29.146	28.332	21.8	29.1	35.3	18.9	27.1	51	− 3	18	21	83	70	.101	.115	.07	.03	4.6	3.4	5.2
February	28.946	29.434	28.197	15.1	24.1	29.2	13.0	21.1	47	−15	12	18	88	77	.081	.106	1.12	.68	5.0	4.2	5.9
March	28.921	29.239	28.590	33.0	42.9	48.5	30.6	39.6	74	14	29	33	85	68	.166	.196	.58	.26	4.7	6.2	6.0
April	28.729	29.214	28.212	44.6	57.2	63.4	42.3	52.8	82	27	35	36	71	50	.215	.227	2.01	1.45	7.0	5.5	5.7
May	28.741	29.065	28.415	56.8	66.6	71.5	54.3	62.9	84	35	52	57	86	73	.409	.479	8.32	1.43	6.1	7.0	5.8
June	28.821	29.213	28.414	61.2	72.9	76.3	58.8	67.6	95	48	55	58	81	63	.443	.492	1.31	.47	4.2	5.2	4.4
July	28.787	29.005	28.486	69.4	80.8	85.6	67.3	76.4	98	56	62	63	77	56	.559	.581	2.67	1.18	4.5	4.3	4.5
August	28.794	28.998	28.547	65.6	75.8	79.5	63.7	71.6	92	54	61	64	85	67	.539	.599	12.50	7.03	5.5	4.1	5.7
September	28.825	29.121	28.350	55.1	66.4	73.0	53.1	63.0	87	36	49	53	82	65	.367	.426	2.50	1.08	5.3	4.1	5.2
October	28.888	29.321	28.128	47.9	60.1	66.5	46.2	56.4	85	36	40	40	74	52	.263	.274	1.19	.54	4.1	3.4	4.3
November	28.925	29.381	28.321	33.5	39.3	45.2	31.2	38.2	65	8	27	28	76	65	.161	.175	1.01	.61	5.9	5.7	6.1
December	28.902	29.410	28.475	21.7	27.9	36.2	15.9	26.0	51	− 7	17	19	80	68	.095	.107	.15	.12	5.3	3.4	5.6
Year	28.841	29.434	28.128	43.8	53.6	59.2	41.3	50.2	98	−15	38	41	81	64	.283	.315	38.43	7.03	5.2	4.7	5.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

NORTH HEAD, WASH.

[H=211 ft.; h_t=11 ft.; h_r=3 ft.; h_a=56 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of winds, 8 a. m. and 8 p. m. Number of days with gales	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	19.7	SE.	84	SE.	12	3	0	13	18	11	10	2	5	0	6	0	25	23	22	2	2	6	0	0	0	0	0
February	12.8	E.	80	S.	5	8	3	16	10	3	1	1	14	0	9	5	14	11	6	2	0	1	0	0	7	0	0
March	15.0	NW.	90	S.	7	8	5	11	7	6	4	3	18	0	10	5	16	15	11	3	0	0	0	0	2	0	0
April	16.4	NW.	50	SE.	7	2	2	5	8	9	8	7	19	0	3	8	19	23	18	2	3	0	0	0	0	0	0
May	17.3	NW.	56	SE.	7	5	2	1	6	7	6	5	30	0	2	8	21	19	14	0	0	5	0	0	0	0	0
June	15.8	NW.	54	SE.	5	4	0	5	9	10	6	1	25	0	3	9	18	16	9	0	0	0	0	1	0	2	0
July	15.5	NW.	46	NW.	3	4	1	0	3	6	2	3	43	0	5	3	23	10	8	0	0	2	0	0	0	0	0
August	11.3	NW.	36	NW.	0	12	0	1	5	6	0	3	35	0	3	5	23	12	8	0	0	5	0	0	0	0	0
September	14.2	NW.	72	NW.	6	7	1	1	13	9	2	2	25	0	11	6	13	16	14	0	0	7	0	0	0	0	0
October	14.8	SE.	73	S.	6	8	2	5	17	10	5	2	13	0	5	5	21	14	11	0	0	6	0	0	0	0	0
November	23.7	SE.	90	SE.	17	1	1	16	22	7	5	3	5	0	0	5	25	25	24	0	1	2	0	0	0	1	0
December	15.3	E.	73	SE.	6	5	5	18	20	6	3	0	5	0	9	5	17	17	14	0	1	4	0	0	0	0	0
Year	16.0	NW.	90	SE.	81	67	22	92	138	90	52	32	237	0	66	64	235	201	159	9	7	38	0	1	9	3	0

NORTH PLATTE, NEBR.

[H=2,821 ft.; h_t=43 ft.; h_r=34 ft.; h_a=52 ft.]

January	8.0	W.	43	NW.	1	1	1	1	5	6	10	24	14	0	18	12	1	3	1	3	0	0	5	0	31	0	0
February	8.1	W.	38	NW.	0	6	5	4	2	7	9	12	11	0	9	8	11	10	8	10	0	0	14	0	28	0	0
March	9.1	S.	31	NW.	0	7	8	3	9	12	9	5	9	0	10	12	9	3	2	0	0	1	2	0	22	1	0
April	11.0	NW.	36	S.	0	5	3	6	7	8	2	13	15	1	14	11	5	4	4	1	0	0	1	0	8	1	0
May	10.9	NW.	40	S.	1	3	4	4	9	11	6	6	17	2	5	20	6	15	10	0	0	0	0	0	0	5	0
June	7.0	SE.	49	N.	1	4	5	5	17	9	5	9	6	0	6	19	5	12	11	0	0	0	0	1	0	8	0
July	8.8	SE.	48	W.	3	6	3	9	24	8	3	5	4	0	9	19	3	9	8	0	0	1	0	6	0	11	0
August	7.3	SE.	46	NW.	1	3	6	9	22	10	5	2	5	0	11	18	2	12	10	0	0	0	0	5	0	8	0
September	9.2	NW.	32	W.	0	7	9	2	10	7	6	9	10	0	13	12	5	6	2	0	0	0	0	6	2	4	0
October	8.4	W.	38	NW.	0	4	4	5	8	8	6	15	12	0	17	12	2	3	3	0	0	0	0	0	9	1	0
November	8.3	NW.	34	NW.	0	8	2	3	10	8	5	11	13	0	17	6	7	4	3	0	0	0	2	0	23	0	0
December	8.9	W.	43	NW.	1	6	0	4	7	2	3	22	18	0	15	16	0	1	0	1	0	0	4	0	31	0	0
Year	8.8	NW.	49	N.	8	60	50	55	130	96	69	133	134	3	144	165	56	82	62	15	0	2	28	18	154	39	0

OKLAHOMA, OKLA.

[H=1,214 ft.; h_t=79 ft.; h_r=71 ft.; h_a=86 ft.]

January	11.3	N.	40	N.	1	17	3	3	2	16	8	7	6	0	10	9	12	7	4	0	0	2	3	0	22	1	0
February	12.2	N.	40	N.	1	20	6	3	9	6	3	5	4	0	12	6	10	8	6	3	0	1	6	0	21	1	0
March	11.2	S.	38	N.	0	23	4	4	9	17	3	1	1	0	10	9	12	10	6	1	0	6	0	0	5	2	0
April	16.2	S.	44	SW.	6	13	4	1	4	21	4	4	9	0	19	8	3	6	3	0	0	0	0	0	0	5	0
May	13.9	S.	40	S.	3	15	1	4	16	19	3	0	4	0	5	14	12	16	9	0	2	2	0	0	0	11	0
June	8.2	S.	36	E.	0	12	10	11	4	8	5	3	6	1	11	17	2	4	2	0	0	0	0	2	0	6	0
July	11.4	S.	42	N.	1	2	2	6	21	24	3	2	0	2	17	13	1	3	3	0	0	0	0	15	0	3	0
August	10.9	S.	38	SW.	0	4	8	7	15	24	4	0	0	0	16	10	5	9	5	0	0	0	0	17	0	9	0
September	13.3	S.	38	S.	0	8	2	2	21	24	1	2	0	0	15	11	4	7	6	0	0	0	0	6	0	7	0
October	10.6	SE.	48	NW.	1	9	3	5	21	10	5	7	2	0	17	5	9	4	4	0	0	0	0	0	0	6	0
November	11.6	N.	42	NW.	2	20	3	1	7	16	2	1	8	2	14	11	5	3	3	0	0	1	1	0	9	2	0
December	11.7	N.	40	N.	12	13	3	3	8	10	6	4	14	1	18	10	3	3	2	0	0	1	0	0	21	1	0
Year	11.9	S.	48	NW.	27	156	49	50	137	195	47	36	54	6	164	123	78	80	53	4	2	13	10	40	78	51	0

OMAHA, NEBR.

[H=1,105 ft.; h_t=115 ft.; h_r=107 ft.; h_a=121 ft.]

January	9.8	NW.	52	NW.	2	6	1	1	6	15	10	3	19	1	9	12	10	5	0	2	0	2	9	0	29	0	0
February	10.7	N.	41	N.	1	22	4	2	0	9	10	1	8	0	8	9	11	7	4	7	0	1	15	0	27	0	0
March	9.3	S.	28	NW.	0	17	4	2	5	18	6	4	6	0	10	7	14	7	4	4	0	5	0	0	20	0	0
April	12.5	N.	38	N.	0	22	3	5	3	13	5	3	6	0	7	12	11	9	6	2	1	0	0	0	4	3	0
May	9.7	S.	37	SE.	0	11	5	2	14	19	8	3	0	0	8	15	8	19	18	0	1	1	0	0	0	12	0
June	6.9	N.	36	N.	0	16	10	1	9	7	9	1	4	3	14	11	5	11	8	0	0	1	0	2	0	8	0
July	7.7	S.	34	N.	0	9	8	7	14	15	2	3	4	0	10	14	7	12	8	0	1	0	0	10	0	11	0
August	6.6	S.	35	SW.	0	10	7	6	9	17	7	0	4	2	9	13	9	14	13	0	0	2	0	4	0	9	0
September	9.2	S.	32	N.	0	8	3	2	8	27	4	5	3	0	12	6	12	11	5	0	0	0	0	0	0	5	0
October	8.7	S.	34	NW.	0	12	7	2	8	15	7	2	8	1	15	9	7	9	6	0	0	0	0	0	0	3	0
November	9.9	S.	37	NW.	0	17	4	7	1	14	3	3	11	0	7	12	11	9	4	5	0	1	6	0	15	2	0
December	10.6	NW.	43	N.	3	13	3	1	1	16	8	6	14	0	8	12	11	4	1	4	0	1	8	0	31	0	0
Year	9.3	S.	52	NW.	6	163	59	38	78	185	79	34	87	7	117	132	116	117	77	24	3	14	38	16	126	53	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

OSWEGO, N. Y.

[λ=43° 29′ N.; φ=76° 35′ 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	29.531	30.174	28.820	21.7	25.1	30.5	16.5	23.5	46	− 8	20	21	91	84	.115	.120	3.49	.82	8.4	7.8	8.2
February	29.627	30.075	28.773	25.0	28.9	33.3	19.9	26.6	57	− 2	21	24	84	80	.122	.132	3.08	.51	8.5	7.0	7.1
March	29.812	30.210	29.346	38.2	40.4	47.1	33.7	40.4	76	18	35	36	88	84	.212	.220	4.82	1.46	8.0	4.8	6.4
April	29.551	30.040	29.064	41.7	44.1	50.2	36.1	43.2	85	21	33	33	73	68	.197	.197	3.25	1.27	4.9	4.7	4.4
May	29.757	30.085	29.510	54.3	57.8	65.3	47.2	56.2	82	29	43	43	67	60	.293	.289	.32	.15	3.8	2.9	2.6
June	29.558	29.985	29.223	58.3	60.4	67.0	52.9	60.0	83	47	52	52	81	77	.397	.404	5.57	2.26	5.3	5.5	4.8
July	29.553	29.847	29.307	66.0	67.7	73.9	60.0	67.0	86	50	59	59	78	74	.502	.509	2.61	.81	6.2	4.5	4.5
August	29.613	30.070	29.381	61.8	64.1	69.5	56.6	63.0	82	48	56	56	80	78	.441	.451	3.08	1.12	7.1	6.5	5.6
September	29.730	30.053	29.188	59.2	63.3	70.8	53.8	62.3	87	42	52	53	76	71	.406	.427	2.21	1.30	3.8	3.4	3.4
October	29.654	29.940	29.223	48.9	52.9	58.2	44.9	51.6	73	30	43	44	80	74	.286	.305	4.88	1.50	7.1	5.7	6.4
November	29.666	30.336	29.167	33.2	36.7	42.2	30.3	36.2	64	14	28	28	80	72	.159	.160	2.46	.59	7.7	7.1	6.7
December	29.580	30.173	28.912	22.3	24.8	30.6	15.9	23.2	42	− 6	19	20	88	82	.107	.112	3.88	.75	9.7	8.6	9.4
Year	29.636	30.336	28.773	44.2	47.2	53.2	39.9	46.1	87	− 8	38	39	80	75	.270	.277	39.65	2.26	6.7	5.7	5.8

PALESTINE, TEX.

[λ=31° 45′ N.; φ=95° 40′ W.]

January	29.553	29.997	29.110	41.8	50.8	55.6	40.0	47.8	81	23	38	39	86	67	.243	.258	2.96	1.05	5.6	4.9	6.1
February	29.564	29.940	29.101	42.0	49.0	53.8	40.1	47.0	78	14	40	40	91	74	.268	.267	5.97	1.48	6.5	6.9	7.2
March	29.549	29.974	29.246	52.0	61.7	66.1	51.0	58.6	78	30	48	50	87	69	.359	.385	4.66	2.25	6.9	6.9	7.3
April	29.459	29.883	29.062	56.6	69.5	73.9	55.4	64.6	84	40	50	50	80	52	.391	.387	.80	.65	5.7	4.7	5.5
May	29.404	29.815	29.227	63.3	73.8	77.9	61.5	69.7	86	39	60	61	88	66	.534	.550	1.89	.65	6.0	5.1	6.2
June	29.424	29.632	29.140	66.8	77.4	81.8	64.6	73.2	91	48	63	64	88	64	.579	.600	4.19	1.18	5.2	4.8	5.6
July	29.471	29.620	29.263	73.6	82.8	88.1	71.2	79.6	93	67	71	72	91	74	.759	.773	8.76	3.00	4.8	4.9	5.3
August	29.461	29.686	29.301	73.9	82.7	89.2	72.3	80.8	95	67	71	72	92	72	.765	.788	1.56	.50	4.5	4.0	5.1
September	29.523	29.793	29.322	65.0	78.0	84.2	64.0	74.1	90	47	61	63	89	62	.566	.607	2.45	1.72	3.9	3.0	4.3
October	29.563	29.836	29.176	50.7	67.2	74.4	55.3	64.8	86	43	52	54	85	64	.418	.444	4.90	2.17	4.5	3.4	4.3
November	29.603	30.113	29.237	48.2	59.0	65.6	46.3	56.0	84	23	43	42	83	55	.312	.300	.01	.01	2.7	1.6	4.3
December	29.641	29.969	29.210	42.1	53.4	60.2	39.8	50.0	70	28	36	36	78	53	.226	.221	1.33	.86	4.0	3.1	4.2
Year	29.518	30.113	29.062	56.8	67.1	72.6	55.1	63.8	95	14	53	54	86	64	.452	.465	39.48	3.00	5.0	4.4	5.4

PARKERSBURG, W. VA.

[λ=39° 16′ N.; φ=81° 36′ W.]

January	29.389	29.758	28.703	29.3	33.9	40.1	25.9	33.0	73	6	25	28	84	79	.147	.168	2.77	.90	7.1	7.1	7.6
February	29.420	30.002	28.726	31.4	36.2	43.2	26.5	34.8	68	− 2	27	28	84	73	.166	.170	6.23	1.83	6.6	5.7	6.5
March	29.494	29.846	29.065	44.9	53.3	60.7	42.7	51.7	81	26	40	43	82	70	.258	.298	5.35	2.23	7.3	5.4	6.8
April	29.250	29.751	28.734	47.9	56.2	63.2	43.3	53.2	83	25	39	43	73	64	.250	.288	4.59	1.34	6.0	7.0	6.9
May	29.418	29.750	29.217	60.5	71.5	78.9	55.0	67.0	89	36	50	52	68	54	.385	.420	2.87	1.00	4.0	4.5	4.0
June	29.277	29.613	29.002	62.8	70.8	75.9	57.9	66.9	88	47	56	58	80	67	.461	.496	4.13	1.18	5.8	5.1	5.6
July	29.332	29.544	29.018	70.4	78.1	85.5	64.7	75.1	94	49	63	65	77	65	.586	.624	4.25	2.16	4.0	4.1	2.9
August	29.317	29.647	29.135	67.4	78.0	84.9	63.3	74.1	95	54	61	64	79	63	.538	.603	3.82	2.21	3.5	4.9	3.7
September	29.472	29.748	29.172	58.6	71.1	80.8	54.9	67.8	92	37	53	60	81	69	.423	.544	1.08	.90	2.6	2.2	3.9
October	29.459	29.842	29.009	48.4	58.4	66.3	45.6	56.0	88	27	43	49	83	72	.302	.372	2.86	.99	4.2	2.8	5.3
November	29.478	30.016	29.032	34.2	41.7	48.4	30.8	39.6	74	16	29	32	83	70	.175	.203	1.94	1.34	5.5	5.7	7.1
December	29.433	29.867	28.837	23.1	29.7	35.7	19.2	27.4	52	5	18	22	80	71	.101	.120	2.23	.82	5.9	5.2	8.0
Year	29.391	30.016	28.703	48.2	56.5	63.6	44.2	53.9	95	− 2	42	45	80	68	.316	.359	42.07	2.23	5.2	4.9	5.7

PENSACOLA, FLA.[a]

[λ=30° 25′ N.; φ=87° 13′ W.]

January	30.034	30.446	29.677	47.4	.....	56.8	44.1	50.4	66	27	40	.....	78	.....	.278	.....	6.37	3.27	6.5	.....	6.1
February	30.069	30.449	29.484	51.5	.....	62.2	48.9	55.6	70	27	44	.....	78	.....	.328	.....	8.31	3.25	6.5	.....	6.6
March	30.026	30.313	29.797	60.1	.....	67.5	57.7	62.6	73	45	54	.....	83	.....	.458	.....	6.36	1.75	6.7	.....	6.8
April	29.958	30.239	29.620	61.7	.....	71.9	58.6	65.2	81	47	52	.....	73	.....	.425	.....	.10	.09	3.2	.....	3.1
May	29.934	30.097	29.694	70.1	.....	76.7	65.9	71.3	85	56	63	.....	78	.....	.581	.....	2.24	.74	5.5	.....	5.1
June	29.879	30.076	29.710	74.5	.....	81.2	70.4	75.8	87	60	67	.....	78	.....	.677	.....	3.28	1.85	5.2	.....	5.1
July	29.968	30.087	29.845	79.0	.....	87.3	74.7	81.0	95	70	71	.....	78	.....	.767	.....	8.07	4.39	4.5	.....	4.9
August	29.934	30.184	29.706	79.6	.....	88.9	75.8	82.4	94	70	73	.....	81	.....	.810	.....	2.73	1.37	3.3	.....	4.8
September	29.986	30.156	29.689	71.7	.....	84.3	68.6	76.4	93	55	62	.....	72	.....	.572	.....	.47	.38	2.4	.....	2.5
October	30.013	30.256	29.737	62.9	.....	76.2	60.9	68.6	89	40	54	.....	73	.....	.456	.....	6.00	5.60	3.5	.....	3.6
November	30.056	30.434	29.838	52.8	.....	65.7	50.5	58.1	78	28	46	.....	77	.....	.365	.....	11.46	7.51	3.2	.....	3.6
December	30.124	30.341	29.797	44.0	.....	58.4	41.3	49.8	67	26	35	.....	70	.....	.217	.....	3.49	1.86	2.7	.....	3.0
Year	29.998	30.449	29.484	62.9	.....	73.1	59.8	66.4	95	26	55	.....	77	.....	.494	.....	58.88	7.51	4.4	.....	4.6

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

OSWEGO, N. Y.

[H=335 ft.; h_t=76 ft.; h_r=68 ft.; h_a=91 ft.]

Month.	Wind. By self-register. 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 lower 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	14.7	S.	42	W.	3	4	2	1	10	18	9	7	11	0	2	5	24	23	16	18	0	1	17	0	28	1	0
February	15.2	S.	44	W.	2	3	4	3	6	12	7	10	11	0	6	4	18	16	13	13	0	0	10	0	24	1	0
March	10.5	S.	35	NW.	0	6	8	3	10	12	8	9	6	0	10	4	17	12	11	5	0	4	0	0	10	0	0
April	11.1	W.	34	W.	0	9	7	2	8	7	7	15	5	0	15	5	10	10	8	2	0	1	1	0	3	1	0
May	9.1	S.	36	NW.	0	9	5	3	6	20	2	12	5	0	20	8	3	4	3	0	0	0	0	0	2	0	0
June	8.0	SE.	23	SE.	0	7	3	2	17	12	4	10	5	0	10	15	5	15	15	0	1	0	0	0	0	7	0
July	8.5	W.	26	NW.	0	5	2	2	6	6	11	26	4	0	13	16	2	15	11	0	0	0	0	0	0	8	0
August	9.1	S.	25	SE.	0	3	1	5	14	15	7	7	10	0	9	12	10	11	9	0	0	0	0	0	0	5	1
September	9.4	S.	29	W.	0	2	2	1	9	27	3	3	13	0	15	13	2	8	5	0	0	2	0	0	0	3	0
October	11.8	S.	38	N.	0	7	5	0	10	18	4	7	11	0	4	16	12	13	12	2	0	1	0	0	0	2	2
November	12.3	S.	34	NE.	0	4	2	1	6	16	15	4	12	0	7	6	17	12	11	7	0	0	8	0	14	0	0
December	14.7	SW.	39	W.	0	2	5	2	10	10	15	6	12	0	0	2	29	23	19	21	0	0	18	0	30	0	0
Year	11.2	S.	44	W.	5	61	46	25	112	173	92	116	105	0	111	105	149	162	133	68	1	9	54	0	111	28	3

PALESTINE, TEX.

[H=510 ft.; H_t=73 ft.; h_r=68 ft.; h_a=79 ft.]

January	8.1	NW.	28	N.	0	8	10	5	4	12	7	4	12	0	9	9	13	13	10	0	0	1	0	0	5	1	0
February	8.7	NE.	28	NW.	0	6	14	6	2	8	5	4	11	0	5	4	19	17	13	1	0	3	1	0	3	3	0
March	7.6	NE.	25	S.	0	14	14	9	10	8	2	2	3	0	4	9	18	13	11	0	0	2	0	0	1	4	0
April	10.4	S.	34	NW.	0	10	2	2	8	23	3	3	9	0	9	10	11	3	2	0	0	0	0	0	0	1	0
May	8.4	S.	32	S.	0	4	8	4	8	22	3	0	12	1	8	16	12	10	10	0	0	0	0	0	0	5	0
June	5.1	NE.	37	NW.	0	8	18	5	3	10	10	1	5	0	6	16	8	11	9	0	0	0	0	0	0	6	0
July	6.1	S.	36	SW.	0	1	4	5	11	25	15	1	0	0	9	12	10	15	12	0	0	0	3	0	0	5	0
August	6.2	S.	24	S.	0	3	5	3	7	24	18	1	1	0	6	21	4	10	8	0	0	2	0	13	0	8	0
September	6.4	SE.	34	S.	0	4	9	8	16	14	7	0	2	0	14	12	4	4	4	0	0	0	0	11	0	10	0
October	6.8	NE.	28	NE.	0	10	17	4	11	9	5	3	3	0	13	11	7	8	7	0	0	0	0	3	0	4	0
November	7.6	S.	24	NW.	0	14	8	5	7	15	6	2	3	0	14	10	6	1	0	0	0	0	0	3	0	5	0
December	8.4	S.	35	SE.	0	9	9	1	4	13	13	4	9	0	14	9	8	6	4	0	0	1	0	0	3	0	0
Year	7.5	S.	37	NW.	0	91	118	57	91	183	94	25	70	1	106	139	120	111	90	1	0	12	1	30	15	47	0

PARKERSBURG, W. VA.

[H=638 ft.; h_t=77 ft.; h_r=69 ft.; h_a=84 ft.]

January	6.9	W.	32	NW.	0	3	8	1	6	13	12	13	6	0	4	9	18	18	12	6	0	0	8	0	22	0	0
February	7.7	S.	39	NW.	0	9	4	3	5	14	6	10	4	1	7	8	13	13	12	3	0	0	5	0	17	0	0
March	5.5	S.	39	NW.	0	10	11	5	5	11	5	7	7	1	5	11	15	13	9	0	0	0	0	0	4	3	0
April	6.5	N.	42	NW.	1	11	6	4	10	10	2	6	10	1	7	5	18	15	10	0	0	0	0	0	2	3	0
May	4.4	SE.	40	NW.	1	11	7	7	12	12	6	3	1	3	14	13	4	9	7	0	1	0	0	0	0	12	0
June	3.9	N.	20	W.	0	10	5	6	9	7	9	5	9	0	5	15	10	11	10	0	0	0	0	0	0	6	0
July	4.7	SW.	36	NW.	0	7	6	6	8	8	12	6	8	1	21	8	2	9	9	0	0	0	0	11	0	6	0
August	4.5	SW.	30	NW.	0	11	5	6	7	8	11	9	5	0	15	14	2	5	4	0	0	0	0	6	0	6	0
September	4.3	SE.	36	NW.	0	2	6	3	23	12	4	5	5	0	10	15	2	5	3	0	0	1	0	2	0	3	0
October	5.5	S.	38	NW.	0	8	3	1	11	17	8	4	10	0	18	6	12	8	8	0	0	4	0	0	0	3	0
November	5.7	S.	42	NW.	1	9	3	3	5	14	8	8	10	0	5	9	16	12	8	4	0	1	6	0	16	1	0
December	6.5	SW.	39	NW.	0	3	2	2	3	15	16	13	8	0	8	7	21	13	8	8	0	1	9	0	29	0	0
Year	5.5	S.	42	NW.	3	94	66	47	104	141	99	89	83	7	109	123	133	131	100	21	1	7	28	19	93	43	0

PENSACOLA, FLA.

[H=56 ft.; h_t=79 ft.; h_r=74 ft.; h_a=96 ft.]

January	10.3	NE.	48	SW.	3	7	11	2	1	0	4	1	5	0	9	5	16	15	11	0	1	4	0	0	2	2	0
February	12.2	E.	45	SW.	2	4	6	7	3	2	1	0	5	0	6	7	15	15	11	0	0	4	0	0	1	3	0
March	9.4	E.	38	SE.	0	2	8	13	4	0	0	0	4	0	4	14	13	15	13	0	0	6	0	0	0	2	0
April	12.3	NW.	36	N.	0	3	4	4	3	3	4	1	8	0	20	7	3	2	1	0	0	0	0	0	0	0	0
May	9.1	E.	36	SW.	0	5	5	9	4	4	2	0	2	0	12	11	8	11	9	0	0	0	0	0	0	4	0
June	9.5	SW.	38	W.	0	3	5	1	0	1	11	5	4	0	11	12	7	9	7	0	0	0	0	0	0	9	0
July	8.1	W.	33	NE.	0	3	6	2	0	4	4	7	5	0	12	11	8	10	10	0	0	0	0	0	0	11	0
August	7.7	NW.	45	W.	1	4	8	0	2	2	1	4	10	0	7	21	3	12	7	0	0	0	0	7	0	17	0
September	10.2	N.	36	N.	0	11	6	5	0	0	1	2	5	0	22	7	1	4	3	0	0	0	0	3	0	4	0
October	9.5	NE.	30	N.	0	12	12	4	1	2	0	0	0	0	15	10	6	6	5	0	0	0	0	0	0	1	0
November	9.9	NE.	30	SW.	0	9	10	2	1	3	0	2	3	0	15	9	6	8	7	0	0	2	0	0	0	6	0
December	9.5	N.	38	NW.	0	8	7	4	1	0	1	2	8	0	21	3	7	8	6	0	0	0	0	3	1	0	0
Year	9.8	NE.	48	SW.	6	71	88	53	20	21	29	24	59	0	154	118	93	115	90	0	1	16	0	17	8	60	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

PHILADELPHIA, PA.

[λ=39° 57′ N.; φ=75° 09′ 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	29.872	30.463	29.213	29.7	33.1	39.8	26.0	32.6	52	10	23	25	75	72	.133	.142	3.52	1.17	6.2	4.2	5.7
February	29.958	30.469	29.071	32.8	38.0	43.6	29.4	36.5	67	3	25	29	73	70	.152	.168	4.29	.91	5.5	5.5	5.0
March	30.065	30.472	29.459	45.0	50.0	57.6	41.2	49.4	72	30	38	41	77	73	.237	.272	4.38	1.02	5.5	4.8	5.7
April	29.774	30.334	29.224	49.9	55.3	61.3	45.2	53.2	90	27	40	41	70	61	.254	.263	3.00	1.11	5.1	5.8	5.5
May	30.024	30.367	29.767	60.6	65.6	75.7	55.5	65.6	92	36	52	53	74	66	.394	.417	.93	.37	6.0	4.7	4.8
June	29.815	30.233	29.485	62.6	66.2	73.0	58.5	65.8	84	51	56	57	80	74	.458	.480	5.48	2.08	8.1	7.2	7.5
July	29.825	30.047	29.480	73.6	76.5	85.1	67.6	76.4	96	57	62	63	68	64	.569	.582	3.84	1.51	3.0	5.4	4.2
August	29.882	30.299	29.608	67.5	71.3	77.7	64.2	71.0	94	57	61	62	81	75	.845	.574	5.57	1.90	6.7	6.1	6.9
September	30.025	30.334	29.623	63.9	68.0	75.6	59.7	67.6	86	47	57	59	80	74	.492	.525	2.31	.80	4.9	3.3	4.0
October	29.920	30.208	29.436	54.2	58.1	65.5	50.2	57.8	80	35	46	47	76	68	.341	.346	3.86	2.06	5.5	5.5	5.6
November	29.967	30.594	29.489	39.1	43.6	49.8	35.2	42.5	72	18	30	31	69	60	.182	.186	1.03	.40	3.9	4.3	4.4
December	29.928	30.479	29.174	29.8	32.2	38.2	25.3	31.8	53	10	21	21	68	62	.119	.116	3.29	1.18	6.2	4.2	4.6
Year	29.924	30.594	29.071	50.7	54.8	61.9	46.5	54.2	96	8	43	44	74	68	.323	.339	41.50	2.08	5.6	5.1	5.3

PHOENIX, ARIZ.

[λ=33° 28′ N.; φ=112° 00′ W.]

January	28.879	29.078	28.610	42.3	60.1	65.8	38.4	51.8	76	31	32	34	67	38	.179	.199	T.	T.	1.7	4.0	3.9
February	28.827	29.080	28.520	38.6	57.7	61.4	36.3	48.8	75	27	30	29	72	36	.166	.163	.64	.38	2.6	2.8	3.1
March	28.797	29.062	28.611	48.2	70.5	73.9	45.6	59.8	86	36	33	32	58	26	.201	.189	.42	.30	2.9	4.3	3.9
April	28.708	28.954	28.446	53.4	78.0	81.0	51.6	66.3	94	45	34	30	49	19	.200	.169	.45	.45	1.9	2.3	2.2
May	28.641	28.814	28.426	61.3	86.6	89.9	59.8	74.8	106	44	34	32	38	15	.206	.183	T.	T.	2.0	2.5	2.3
June	28.626	28.820	28.407	71.2	98.2	101.4	69.4	85.4	111	62	39	35	34	12	.252	.209	.18	.14	1.0	2.1	1.4
July	28.657	28.787	28.417	77.7	101.2	103.7	76.2	90.0	108	70	52	48	45	19	.424	.347	.70	.52	2.6	2.5	2.5
August	28.637	28.832	28.374	80.1	100.9	103.3	78.2	90.8	111	67	60	55	52	23	.527	.442	.70	.26	2.9	2.4	2.6
September	28.697	28.891	28.423	70.6	90.1	94.9	68.5	81.7	109	57	52	49	56	30	.425	.381	3.16	1.72	3.0	3.2	3.1
October	28.795	28.983	28.610	57.5	81.4	87.5	54.5	71.0	95	44	40	39	55	22	.257	.242	.22	.18	1.0	.3	.5
November	28.836	29.000	28.685	48.6	71.6	78.8	45.9	62.4	86	40	33	34	55	26	.188	.196	.00	.00	1.9	2.2	2.3
December	28.919	29.160	28.619	42.1	62.1	68.6	38.1	53.4	76	31	24	26	49	27	.131	.148	.14	.14	1.0	1.8	2.2
Year	28.752	29.160	28.374	57.6	79.9	84.1	55.2	69.7	111	27	39	37	52	24	.263	.239	6.61	1.72	2.0	2.5	2.5

PIERRE, S. DAK.

[λ=44° 22′ N.; φ=100° 21′ W.]

January	28.293	28.634	27.769	15.0	21.5	27.6	11.3	19.4	50	− 9	10	16	79	78	.075	.096	.26	.11	4.0	3.8	4.7
February	28.480	28.908	27.967	7.3	16.9	23.1	4.3	13.7	46	−20	3	11	80	76	.056	.078	.36	.33	4.0	4.0	4.5
March	28.397	28.721	27.950	24.4	35.9	41.2	22.5	31.8	72	4	20	26	83	67	.114	.144	1.03	.45	5.8	5.4	5.6
April	28.261	28.719	27.777	38.5	55.8	60.9	37.1	48.6	82	23	33	31	80	43	.192	.181	1.65	.54	4.3	5.1	4.9
May	28.241	28.689	27.704	50.4	67.6	72.0	48.4	60.2	87	36	43	40	76	38	.291	.259	1.72	.70	4.4	4.7	5.5
June	28.341	28.763	27.981	58.9	75.5	79.7	56.3	68.0	94	43	52	49	78	42	.390	.358	2.14	.64	4.1	4.9	6.3
July	28.283	28.507	27.820	64.7	80.8	85.5	61.9	73.7	105	50	54	55	70	43	.433	.441	4.99	2.34	5.0	3.7	5.1
August	28.293	28.556	27.938	61.9	78.1	81.9	60.0	71.0	102	48	57	58	86	52	.478	.486	3.98	2.12	5.1	3.9	5.6
September	28.317	28.815	27.810	49.2	62.9	69.4	47.6	58.5	86	32	42	44	77	62	.286	.300	1.97	.80	5.2	4.1	5.5
October	28.381	28.800	27.602	41.9	58.0	67.8	40.1	54.0	87	28	32	35	69	44	.188	.213	.25	.11	3.1	3.1	3.7
November	28.436	28.917	27.770	25.4	34.1	41.6	22.8	32.2	72	2	19	21	77	59	.109	.124	.52	.24	4.7	3.7	5.2
December	28.412	28.894	27.932	16.8	22.5	29.8	11.1	20.4	50	−19	12	16	78	74	.077	.095	.66	.36	5.3	3.7	5.8
Year	28.345	28.917	27.602	37.9	50.8	56.6	35.3	46.0	105	−20	31	34	78	56	.224	.231	19.53	2.34	4.6	4.2	5.2

PITTSBURG, PA.

[λ=40° 32′ N.; φ=80° 02′ W.]

January	29.066	29.540	28.319	27.8	32.1	37.6	23.7	30.6	64	2	22	24	76	71	.130	.142	2.33	.56	6.3	7.5	7.5
February	29.159	29.697	28.375	30.7	34.7	41.1	25.7	33.4	62	− 3	25	25	78	68	.154	.153	8.99	.98	6.7	5.4	6.6
March	29.269	29.614	28.851	44.7	51.9	58.1	42.1	50.1	78	25	38	42	79	70	.245	.282	4.29	1.22	6.8	4.5	6.5
April	29.016	29.532	28.511	47.8	55.0	60.8	42.4	51.6	83	24	37	38	67	55	.229	.241	2.82	.83	5.6	6.1	5.8
May	29.200	29.480	29.005	60.9	70.2	76.4	56.5	66.4	88	36	49	48	66	48	.371	.361	1.67	.71	4.1	4.4	4.8
June	29.038	29.369	28.740	62.0	68.0	73.6	58.0	65.8	85	48	54	56	77	67	.431	.456	5.27	1.46	6.3	5.9	6.6
July	29.094	29.339	28.694	70.2	75.9	83.4	65.2	74.3	92	54	62	62	76	64	.564	.564	5.66	1.54	4.1	4.9	4.6
August	29.087	29.430	28.892	66.7	74.0	81.4	62.9	72.2	94	54	59	59	77	61	.512	.515	4.71	2.22	5.8	5.5	4.7
September	29.238	29.541	28.817	60.1	69.6	77.9	56.8	67.4	90	42	54	54	81	58	.434	.431	1.04	.42	3.1	1.6	3.0
October	29.189	29.515	28.791	50.6	57.9	65.1	47.4	56.2	88	32	43	44	76	60	.300	.311	2.88	1.05	3.3	2.7	4.5
November	29.195	29.762	28.633	35.5	40.6	47.3	31.7	39.5	69	17	29	28	76	62	.172	.170	2.60	1.58	5.1	4.7	6.1
December	29.137	29.553	28.475	24.6	28.3	34.6	20.5	27.6	54	6	18	20	75	71	.103	.110	1.55	.72	7.3	5.6	7.5
Year	29.141	29.762	28.319	48.5	54.8	61.4	44.4	52.9	94	− 3	41	42	76	63	.304	.311	38.81	2.22	5.4	4.9	5.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

PHILADELPHIA, PA.

[H=117 ft.; h_t=168 ft.; h_r=166 ft.; h_a=184 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	10.9	W.	36	NW.	0	2	7	6	2	2	9	18	16	0	9	10	12	12	7	4	0	3	7	0	21	0	0
February	10.2	NW.	39	NW.	0	6	2	4	1	3	16	15	9	0	12	5	11	10	10	2	0	0	4	0	16	1	0
March	10.4	SW.	38	S.	0	5	8	14	6	5	12	4	8	0	10	7	14	10	9	0	0	4	0	0	1	1	0
April	11.9	N.	37	SW.	0	12	12	7	3	5	2	9	10	0	10	7	13	9	8	1	0	0	0	0	2	2	0
May	9.6	NE.	36	NW.	0	8	10	7	12	10	8	1	6	0	12	9	10	11	6	0	0	0	0	2	0	5	0
June	9.0	SE.	33	N.	0	3	7	12	12	10	7	5	4	0	3	7	20	12	9	0	3	1	0	0	0	4	0
July	9.4	W.	44	S.	1	9	3	3	2	6	16	8	15	0	15	9	7	14	10	0	1	0	0	9	0	8	0
August	7.0	S.	20	NW.	0	6	11	5	11	11	5	5	8	0	5	9	17	17	13	0	0	0	1	0	0	6	1
September	8.3	N.	36	N.	0	9	10	6	5	12	5	3	10	0	18	4	8	5	5	0	0	2	0	0	0	2	0
October	12.4	N.	37	NE.	0	14	8	5	4	6	9	10	6	0	9	11	11	9	7	0	0	0	0	0	0	1	0
November	10.1	NW.	29	NW.	0	12	4	0	1	2	11	5	25	0	12	12	6	4	4	0	0	1	3	0	0	1	0
December	12.2	NW.	46	NW.	1	5	4	1	1	4	18	5	24	0	16	5	10	9	7	4	0	3	5	0	25	0	0
Year	10.1	NW.	46	NW.	2	91	86	70	60	76	118	88	141	0	131	95	139	122	95	11	4	15	19	12	76	31	1

PHOENIX, ARIZ.

[H=1,108 ft.; h_t=50 ft.; h_r=40 ft.; h_a=56 ft.]

January	3.6	E.	18	E.	0	3	4	20	8	3	4	13	7	0	17	9	5	0	0	0	0	0	0	0	2	0	0
February	3.9	E.	17	W.	0	3	6	11	9	1	7	10	9	0	17	6	5	6	5	0	0	1	0	0	8	0	0
March	4.4	E.	19	SW.	0	5	6	20	9	4	2	9	7	0	16	8	7	5	4	0	0	0	0	0	2	0	0
April	4.6	E.	24	SW.	0	6	4	14	6	3	6	12	9	0	26	0	4	1	1	0	0	0	0	0	1	0	0
May	5.5	E.	24	W.	0	5	1	20	8	2	6	14	6	0	22	7	2	0	0	0	0	0	0	5	0	1	0
June	5.1	E.	30	E.	0	2	7	21	4	1	2	15	8	0	26	3	1	2	2	0	0	0	0	13	0	2	0
July	4.9	W.	48	SE.	1	2	7	14	4	1	8	15	11	0	21	7	3	5	3	0	0	0	0	30	0	4	0
August	4.9	E.	30	NW.	0	4	4	22	3	2	4	17	6	0	25	4	2	4	4	0	0	0	0	29	0	6	0
September	4.8	E.	24	SE.	0	4	5	22	6	2	10	6	5	0	21	5	4	6	5	0	1	0	0	31	0	7	0
October	3.6	E.	20	E.	0	2	11	22	0	3	7	13	4	0	30	1	0	2	2	0	0	0	0	23	0	10	0
November	3.3	E.	18	E.	0	3	4	26	1	0	2	16	8	0	21	5	4	0	0	0	0	0	0	10	0	0	0
December	3.5	E.	23	NE.	0	6	8	15	8	2	6	10	6	1	24	5	2	1	1	0	0	0	0	0	1	0	0
Year	4.3	E.	48	SE.	1	45	67	227	66	24	64	150	86	1	266	60	39	32	27	0	1	1	0	141	11	32	0

PIERRE, S. DAK.

[H=1,572 ft.; h_t=43 ft.; h_r=37 ft.; h_a=60 ft.]

January	7.4	SE.	42	NW.	2	10	2	11	16	1	5	4	12	1	13	9	9	6	3	5	0	0	16	0	30	0	0
February	6.5	E.	46	N.	2	13	7	16	8	2	2	2	6	0	12	10	6	4	1	4	0	0	19	0	28	0	0
March	9.1	SE.	42	N.	1	14	5	12	17	3	4	3	4	0	10	9	12	6	3	4	0	0	9	0	26	0	0
April	10.6	SE.	37	SE.	0	12	9	5	15	5	3	6	5	0	10	13	7	9	8	3	0	0	0	0	9	1	0
May	9.2	E.	43	SE.	2	5	7	10	7	9	8	6	10	0	7	14	10	7	6	0	0	0	0	0	0	5	0
June	7.8	SE.	32	N.	0	4	9	6	25	4	2	0	10	0	5	13	12	8	7	0	0	0	0	2	0	5	0
July	9.0	SE.	49	N.	2	7	8	11	14	7	4	6	5	0	9	14	8	12	11	0	0	0	0	11	0	10	0
August	7.7	E.	35	NE.	0	7	8	16	16	6	3	0	5	1	8	15	8	14	12	0	0	0	0	7	0	12	0
September	7.8	N.	43	NW.	1	15	13	6	7	5	2	3	6	3	10	12	8	12	7	1	0	0	0	0	0	2	0
October	7.9	E.	48	NW.	1	7	2	21	2	4	6	2	17	1	15	11	5	6	2	0	0	0	0	0	2	2	0
November	7.7	NW.	32	NW.	0	8	6	12	12	2	2	4	14	0	10	10	10	4	4	4	0	1	10	0	24	0	0
December	7.8	NW.	45	W.	1	11	4	12	6	1	7	6	14	1	10	8	13	6	6	6	0	0	15	0	31	0	0
Year	8.2	SE.	49	N.	12	113	80	138	145	49	48	42	108	7	119	138	108	94	70	27	0	1	69	20	150	37	0

PITTSBURG, PA.

[H=842 ft.; h_t=116 ft.; h_r=101 ft.; h_a=123 ft.]

January	7.9	NW.	30	NW.	0	0	4	3	8	3	8	3	33	0	3	10	18	15	12	10	0	3	9	0	23	1	0
February	8.2	NW.	42	NW.	1	0	7	0	10	3	13	5	18	0	6	8	14	15	14	6	0	0	6	0	18	0	0
March	5.7	NW.	29	NW.	0	4	8	1	14	7	8	6	14	0	7	9	15	13	10	0	0	3	0	0	4	2	0
April	5.9	NE.	30	NW.	0	7	17	0	12	6	5	4	9	0	9	8	13	12	11	0	0	0	0	0	2	1	0
May	5.9	NW.	21	SW.	0	4	9	6	10	13	4	4	11	1	13	10	8	7	5	0	0	0	0	0	0	6	0
June	5.3	NW.	30	SW.	0	8	7	0	7	4	11	5	18	0	4	15	11	15	14	0	0	1	0	0	0	6	0
July	5.0	NW.	25	W.	0	14	4	0	2	6	8	9	19	0	10	18	3	14	13	0	1	2	0	4	0	10	0
August	4.7	N.	30	NW.	0	16	4	2	7	8	6	11	8	0	10	16	5	13	12	0	0	1	0	2	0	8	0
September	4.7	N.	20	NW.	0	13	4	6	4	8	13	2	10	0	16	12	2	5	5	0	0	5	0	0	0	3	0
October	5.8	N.	30	S.	0	18	2	1	2	8	10	3	18	0	12	12	7	10	5	1	0	0	0	0	0	1	0
November	5.7	NW.	26	NW.	0	7	4	2	3	7	5	9	23	0	7	10	13	7	5	2	0	2	7	0	14	1	0
December	7.8	NW.	31	SW.	0	2	2	3	1	5	12	10	27	0	4	8	19	14	7	12	0	0	11	0	28	0	0
Year	6.0	NW.	42	NW.	1	93	72	24	80	78	103	71	208	1	101	136	128	140	113	31	1	20	33	6	89	39	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

POCATELLO, IDAHO.

[λ=42° 52′ N.; φ=112° 29′ 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	25.522	25.887	24.913	24.7	29.9	35.3	21.0	28.2	48	5	21	24	83	76	.113	.128	1.77	.50	5.9	5.5	5.8
February	25.536	25.832	25.155	11.6	22.2	26.4	8.2	17.3	40	−12	8	15	84	70	.066	.085	.18	.15	4.3	3.6	4.0
March	25.406	25.715	25.100	32.9	41.5	45.3	30.3	37.8	60	9	25	30	73	62	.140	.166	.86	.29	5.7	6.4	5.7
April	25.396	25.717	25.067	36.8	51.0	54.4	33.2	43.8	76	20	28	32	69	50	.153	.187	1.54	.40	4.7	5.6	5.2
May	25.397	25.751	25.043	42.6	60.3	63.5	40.0	51.8	85	28	34	40	71	49	.193	.253	2.18	.91	3.6	4.3	4.4
June	25.468	25.754	25.278	55.0	75.2	78.9	51.7	65.3	87	42	43	50	65	43	.277	.367	.82	.63	3.2	5.7	4.1
July	25.467	25.615	25.097	55.9	79.4	82.5	53.5	68.0	93	40	38	46	52	32	.236	.315	.41	.29	2.7	3.3	3.1
August	25.447	25.652	25.183	58.5	86.3	86.4	55.8	71.1	96	46	36	46	45	28	.223	.315	.59	.54	1.3	1.9	1.5
September	25.485	25.760	25.140	46.8	66.5	70.0	43.8	56.9	90	28	30	32	53	31	.167	.184	.42	.17	3.1	4.1	3.4
October	25.602	25.819	25.176	39.9	57.2	64.3	36.5	50.4	77	20	28	29	62	37	.155	.164	.33	.16	2.4	2.8	3.1
November	25.543	25.799	25.027	34.5	42.5	48.2	29.6	38.9	65	12	23	28	61	59	.126	.159	1.08	.76	4.6	4.9	5.4
December	25.668	25.986	25.173	21.8	31.1	36.0	17.7	26.8	52	1	14	19	71	59	.084	.102	.61	.34	3.5	3.5	3.4
Year	25.495	25.986	24.913	38.4	53.3	57.6	35.1	46.4	96	−12	27	33	66	50	.161	.202	10.79	.91	3.8	4.3	4.1

POINT REYES LIGHT, CALIFORNIA.[a]

[λ=38° 11′ N.; φ=122° 51′ W.]

January	29.577	29.764	29.148	.....	50.8	55.3	46.1	50.7	70	39	....	46	....	84	.....	.310	2.64	.74	.....	4.7	6.0
February	29.550	29.810	29.187	.....	50.5	53.4	45.7	48.6	62	34	....	40	....	69	.....	.254	1.39	.56	.....	3.3	4.8
March	29.432	29.650	29.158	.....	52.1	55.7	46.7	51.2	63	40	....	44	....	75	.....	.291	3.88	1.14	.....	7.0	7.4
April	29.488	29.673	29.191	.....	52.0	54.6	46.3	50.4	61	41	....	45	....	70	.....	.296	.51	.35	.....	3.8	3.8
May	29.405	29.563	29.226	.....	51.7	53.5	46.4	50.0	57	45	....	46	....	83	.....	.316	.00	.00	.....	2.4	5.0
June	29.401	29.575	29.200	.....	56.1	59.0	49.4	54.2	87	46	....	49	....	80	.....	.351	.00	.00	.....	1.9	4.8
July	29.429	29.550	29.190	.....	55.2	57.0	48.7	52.8	64	46	....	50	....	83	.....	.360	.00	.00	.....	1.5	6.1
August	29.382	29.456	29.153	.....	54.9	57.3	49.5	53.4	64	45	....	51	....	88	.....	.379	.00	.00	.....	1.8	6.5
September	29.394	29.506	29.183	.....	56.6	62.0	50.7	56.4	86	48	....	50	....	81	.....	.362	T.	T.	.....	1.6	5.3
October	29.488	29.630	29.308	.....	56.6	62.3	52.4	57.4	78	49	....	52	....	88	.....	.395	.33	.33	.....	2.6	6.0
November	29.530	29.755	29.208	.....	54.3	57.8	51.0	54.4	68	44	....	50	....	87	.....	.369	4.45	1.95	.....	5.3	7.3
December	29.600	29.784	29.378	.....	53.0	58.4	48.6	53.5	67	44	....	46	....	80	.....	.311	3.15	1.53	.....	3.4	4.1
Year	29.473	29.810	29.148	.....	53.6	57.2	48.3	52.8	87	34	....	47	....	81	.....	.333	16.35	1.95	.....	3.8	5.6

PORT CRESCENT, WASH.[a]

[λ=48° 08′ N.; φ=123° 41′ W.]

January	29.694	30.191	29.077	.....	41.7	44.2	35.3	39.8	55	27	....	39	....	91	.....	.243	7.08	1.10	.....	8.7	8.7
February	29.901	30.094	28.980	.....	41.6	43.4	32.1	37.8	53	24	....	37	....	86	.....	.226	3.04	1.67	.....	5.0	5.1
March	29.674	30.059	29.192	.....	42.7	44.6	32.3	38.4	54	21	....	38	....	84	.....	.229	4.45	1.35	.....	5.5	5.5
April	29.784	30.032	29.564	.....	48.3	50.3	36.2	43.2	59	28	....	43	....	84	.....	.282	1.88	.57	.....	6.0	6.5
May	29.793	30.120	29.453	.....	52.0	54.1	41.5	47.8	62	34	....	48	....	87	.....	.334	1.52	.29	.....	6.6	6.1
June	29.763	30.123	29.484	.....	57.5	60.3	48.2	54.2	81	36	....	53	....	87	.....	.411	1.67	.55	.....	6.0	6.3
July	29.837	29.999	29.585	.....	58.2	60.1	48.4	54.2	84	40	....	55	....	91	.....	.436	.79	.33	.....	3.9	4.8
August	29.775	29.953	29.480	.....	59.1	61.0	49.1	55.0	78	40	....	56	....	89	.....	.444	1.49	.71	.....	5.2	5.9
September	29.786	30.008	29.451	.....	56.5	59.1	45.8	52.4	70	37	....	52	....	86	.....	.389	3.06	.94	.....	5.5	5.6
October	29.782	30.038	29.097	.....	53.1	55.2	41.5	48.4	62	34	....	50	....	89	.....	.354	2.94	.77	.....	4.8	4.9
November	29.609	30.183	29.137	.....	44.6	47.3	37.4	42.4	56	29	....	42	....	92	.....	.274	10.48	1.54	.....	8.8	8.5
December	29.885	30.262	29.298	.....	42.8	45.2	36.0	40.6	50	30	....	41	....	94	.....	.257	3.56	.80	.....	7.1	6.7
Year	29.774	30.262	28.980	.....	49.8	52.1	40.3	46.2	84	21	....	46	....	88	.....	.323	41.96	1.67	.....	6.1	6.2

PORT HURON, MICH.

[λ=43° 00′ N.; φ=82° 26′ W.]

January	29.232	29.775	28.378	20.1	24.3	29.4	16.0	22.7	48	− 3	18	20	89	84	.104	.118	6.38	.89	7.6	7.0	7.3
February	29.344	29.825	28.482	20.7	25.1	30.9	17.5	24.2	48	− 5	18	21	89	82	.107	.119	2.46	.84	5.8	6.0	6.3
March	29.480	29.882	29.117	35.9	39.8	46.8	32.5	39.6	74	18	32	34	86	81	.189	.209	1.54	.63	6.2	6.9	7.1
April	29.253	29.720	28.699	41.5	43.9	52.2	36.0	44.1	80	20	34	35	74	71	.197	.211	2.19	.78	5.6	5.6	5.0
May	29.421	29.740	29.019	54.7	57.1	66.8	47.0	56.9	86	26	44	46	70	69	.307	.327	3.68	1.65	4.1	5.2	4.2
June	29.270	29.624	28.925	58.8	60.9	68.0	52.3	60.2	84	46	52	52	79	75	.393	.403	2.47	.92	6.8	7.1	6.6
July	29.297	29.568	28.992	67.5	70.4	78.6	60.1	69.4	90	46	60	59	79	69	.536	.517	4.89	1.40	5.3	4.2	5.3
August	29.312	29.679	29.055	62.7	65.7	72.1	56.7	64.4	83	44	56	58	80	77	.459	.485	4.26	1.38	5.8	6.0	6.1
September	29.427	29.697	29.080	57.9	62.1	71.9	52.2	62.0	86	37	53	54	84	75	.425	.440	3.23	1.01	4.1	3.7	5.5
October	29.387	29.735	28.895	47.1	51.6	59.7	43.2	51.4	76	26	41	43	80	74	.272	.298	2.16	1.04	3.9	4.9	4.6
November	29.381	29.997	28.793	31.0	34.8	41.6	27.7	34.6	70	11	27	27	84	71	.154	.157	2.78	1.13	6.7	5.6	7.5
December	29.295	29.670	28.705	18.8	22.5	27.2	15.1	21.2	38	− 8	16	18	86	81	.091	.101	1.87	.72	6.7	7.4	7.9
Year	29.342	29.997	28.378	43.1	46.5	53.8	38.0	45.9	90	− 5	38	39	82	76	.270	.283	32.91	1.65	5.7	5.7	6.1

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

POCATELLO, IDAHO.

[H=4,482 ft.; h_t=46 ft.; h_r=37 ft.; h_a=54 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.	0.01 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurora.
	Miles.		*Mi.*																								
January	9.6	E.	36	SW.	0	0	0	26	4	6	11	14	1	0	8	11	12	11	7	8	0	3	14	0	30	0	0
February	8.8	E.	34	SW.	0	0	0	30	6	2	8	7	3	0	12	14	2	3	1	5	0	0	18	0	28	0	0
March	11.2	E.	34	SE.	0	0	1	31	15	0	10	3	1	1	7	16	8	12	7	8	0	0	1	0	18	0	0
April	9.2	SW.	35	SW.	0	0	0	13	7	12	11	12	4	1	8	16	6	8	7	5	0	0	0	0	11	1	0
May	9.5	SW.	32	S.	0	1	0	17	11	6	17	9	1	0	10	16	5	9	7	4	0	0	0	0	2	1	0
June	7.6	E.	28	SW.	0	4	0	21	12	3	11	5	4	0	13	16	1	5	3	0	1	0	0	0	0	2	0
July	8.7	E.	36	W.	0	1	1	17	16	5	7	12	3	0	17	14	0	5	3	0	0	0	0	5	0	4	0
August	8.2	E.	34	SW.	0	1	3	19	8	5	6	18	1	1	24	7	0	4	1	0	1	0	0	9	0	3	0
September	8.4	E.	34	S.	0	1	0	16	5	3	22	11	2	0	16	9	5	5	4	0	0	0	0	0	3	1	0
October	7.1	E.	36	SW.	0	0	0	17	11	7	13	12	1	1	17	9	5	7	4	0	0	0	0	0	6	0	1
November	10.0	E.	36	SW.	0	0	1	24	11	3	10	10	1	0	10	9	11	11	4	9	0	0	3	0	20	0	0
December	7.4	E.	33	SW.	0	0	2	18	9	4	13	12	3	1	18	6	7	6	4	7	0	0	8	0	30	0	0
Year	8.8	E.	36	SW.	0	8	8	249	115	56	139	125	25	5	160	143	62	86	52	46	2	3	44	14	148	12	1

POINT REYES LIGHT, CALIFORNIA.

[H=490 ft.; h_t=7 ft.; h_r=2 ft.; h_a=50 ft.]

January	15.8	NW.	72	S.	7	4	5	0	5	2	4	0	11	0	10	7	14	9	8	0	1	10	0	0	0	1	0
February	15.9	NW.	74	S.	8	1	2	0	3	2	2	2	16	0	10	9	9	6	4	0	1	4	0	0	0	0	0
March	17.3	NW.	64	NW.	10	1	0	0	5	7	4	5	9	0	2	12	17	12	11	0	0	4	0	0	0	0	0
April	18.6	NW.	77	NW.	18	0	0	0	1	2	1	0	26	0	17	3	10	4	3	0	0	3	0	0	0	0	0
May	22.4	NW.	94	NW.	21	3	0	0	1	0	2	0	25	0	12	9	10	0	0	0	0	13	0	0	0	0	0
June	31.1	NW.	75	NW.	21	1	0	0	1	0	0	2	26	0	11	11	8	0	0	0	0	10	0	0	0	0	0
July	26.7	NW.	80	NW.	16	1	0	0	1	0	2	2	25	0	7	11	13	0	0	0	0	15	0	0	0	0	0
August	23.9	NW.	65	NW.	17	1	0	0	0	1	1	0	28	0	5	11	15	0	0	0	0	26	0	0	0	0	0
September	20.2	NW.	75	NW.	12	6	0	0	1	2	1	2	18	0	11	6	13	0	0	0	0	18	0	0	0	0	0
October	15.9	NW.	60	S.	7	5	0	0	0	4	1	3	18	0	11	3	17	2	2	0	0	20	0	0	0	0	0
November	20.1	NW.	75	NW.	12	4	0	0	6	3	1	4	12	0	5	8	17	13	11	0	0	16	0	0	0	0	0
December	14.8	N.	57	NW.	7	11	0	3	4	2	0	2	8	1	16	7	8	10	8	0	0	6	0	0	0	0	0
Year	21.9	NW.	94	NW.	156	38	7	3	28	25	19	22	222	1	117	97	151	56	47	0	2	145	0	0	0	1	0

PORT CRESCENT, WASH.

[H=259 ft.; h_t=12 ft.; h_r=3 ft.; h_a=29 ft.]

January	3.4	E.	30	SW.	0	0	0	10	8	1	9	3	0	0	0	6	25	20	20	3	0	2	0	0	8	0	0
February	6.1	E.	22	E.	0	0	6	14	1	0	3	4	0	0	7	14	7	8	8	2	0	0	0	0	14	0	0
March	6.7	NE.	44	NE.	1	0	13	4	2	0	4	8	0	0	10	10	11	13	12	5	0	0	0	0	16	0	0
April	5.2	W.	28	W.	0	0	10	0	0	0	3	17	0	0	0	22	8	11	11	0	0	0	0	0	14	0	0
May	4.7	W.	16	W.	0	0	5	1	1	0	3	20	1	6	4	20	7	16	12	0	0	2	0	0	0	0	0
June	4.5	W.	14	E.	0	0	0	3	0	0	4	23	0	0	5	15	10	12	11	0	0	1	0	0	0	1	0
July	4.2	W.	12	W.	0	0	0	1	0	0	2	28	0	0	10	16	5	5	4	0	0	4	0	0	0	0	0
August	3.9	W.	12	E.	0	0	0	1	1	0	5	24	0	0	6	16	9	9	9	0	0	2	0	0	0	0	0
September	4.6	W.	18	SW.	0	0	0	8	1	0	6	14	0	1	8	12	10	14	11	0	0	1	0	0	0	0	0
October	5.0	W.	16	W.	0	0	0	10	4	0	6	11	0	0	11	12	8	11	9	0	0	3	0	0	0	0	0
November	5.8	SW.	44	NE.	1	0	3	3	9	0	13	2	0	0	1	7	22	25	25	1	0	1	0	0	4	0	0
December	5.1	E.	16	E.	0	0	2	15	1	1	9	3	0	0	5	12	14	16	12	0	0	1	0	0	2	0	0
Year	5.9	W.	44	NE.	2	0	39	70	28	2	67	157	1	1	67	162	136	160	144	11	0	17	0	0	48	1	0

PORT HURON, MICH.

[H=638 ft.; h_t=70 ft.; h_r= 68 ft.; h_a=120 ft.]

January	12.3	SW.	38	W.	0	3	1	5	3	6	17	15	12	0	5	9	17	13	6	9	0	2	15	0	27	1	0
February	13.5	SW.	48	W.	1	2	4	3	2	4	14	15	12	0	7	8	13	11	8	8	0	1	13	0	24	0	0
March	11.5	SW.	45	SW.	1	9	11	6	4	13	9	7	3	0	5	9	17	7	7	1	0	5	1	0	15	2	0
April	14.1	NE.	43	N.	3	11	13	8	5	4	10	4	5	0	13	7	10	14	9	2	0	0	1	0	8	0	0
May	10.9	NE.	40	W.	2	9	10	8	8	15	6	3	3	0	18	7	6	9	7	0	2	0	0	0	2	5	0
June	9.3	NE.	31	N.	0	14	17	6	2	2	4	7	7	1	4	13	13	12	12	0	0	0	0	0	0	4	0
July	9.1	NE.	36	W.	0	10	10	3	3	4	14	6	12	0	7	15	9	12	11	0	0	0	0	0	0	9	0
August	9.1	NE.	42	W.	1	5	13	7	7	5	9	6	10	0	10	7	14	12	9	0	0	0	0	0	0	4	0
September	10.4	S.	34	NW.	0	9	2	0	7	14	14	6	7	1	7	15	8	12	9	0	0	2	0	0	0	3	0
October	12.1	SW.	42	S.	1	5	6	2	3	5	17	7	17	0	13	9	9	6	6	0	0	0	0	0	3	4	1
November	12.2	SW.	38	W.	0	3	1	1	5	7	16	14	12	1	6	5	19	7	5	4	0	3	9	0	20	0	0
December	12.9	W.	39	NW.	0	3	0	2	2	9	17	26	9	0	3	8	20	14	7	14	0	2	22	0	31	0	0
Year	11.4	SW.	48	W.	9	83	88	51	51	88	147	110	109	3	98	112	155	129	96	38	4	15	61	0	130	32	1

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

PORTLAND, ME.

[λ=43° 39′ N.; φ=70° 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	29.743	30.484	29.011	19.7	24.3	30.4	15.6	23.0	48	− 9	13	15	75	67	.092	.097	4.90	2.40	4.7	3.1	4.4
February	29.815	30.291	28.960	22.5	27.9	33.5	19.2	26.4	53	− 5	15	17	71	64	.093	.107	3.44	.91	5.1	4.4	5.1
March	30.085	30.633	29.373	36.3	39.6	46.6	31.6	39.1	78	13	30	33	79	77	.175	.193	5.60	1.43	6.6	5.6	6.1
April	29.768	30.351	29.251	42.1	44.0	51.0	35.4	43.2	78	22	32	33	68	67	.186	.192	2.51	1.30	5.0	3.8	4.9
May	30.007	30.447	29.603	53.6	52.9	61.5	45.1	53.3	87	30	41	42	65	69	.270	.276	.68	.46	3.6	3.5	3.6
June	29.865	30.271	29.574	56.3	56.1	62.6	50.8	56.7	79	46	49	49	80	80	.357	.352	5.53	2.51	6.1	5.5	7.0
July	29.736	30.043	29.437	65.8	65.8	74.8	58.3	66.6	90	51	57	58	75	78	.477	.486	2.50	.93	5.8	6.1	6.0
August	29.887	30.283	29.464	60.4	61.9	68.5	54.5	61.5	82	50	52	54	76	78	.397	.423	1.85	.74	4.9	4.9	5.3
September	29.971	30.332	29.528	58.9	60.6	70.0	52.3	61.2	91	36	52	53	77	76	.400	.415	2.06	.81	3.0	2.0	3.8
October	29.894	30.284	29.260	47.6	50.2	56.7	42.5	49.6	72	26	41	43	79	77	.276	.290	3.57	1.45	6.4	4.8	5.7
November	29.861	30.616	29.335	32.7	36.9	42.9	28.6	35.8	67	10	25	27	72	67	.143	.154	1.44	.37	5.4	4.1	5.3
December	29.806	30.361	28.892	21.1	24.5	31.6	16.2	23.9	52	− 3	16	17	79	70	.100	.101	3.46	1.90	4.6	3.6	5.1
Year	29.870	30.633	28.892	43.1	45.4	52.5	37.5	45.0	91	− 9	35	37	75	72	.247	.257	37.54	2.51	5.1	4.3	5.2

PORTLAND, OREG.

[λ=45° 32′ N.; φ=122° 43′ W.]

January	29.901	30.253	29.075	41.4	44.0	47.1	38.6	42.8	57	29	36	37	83	78	.222	.228	5.43	1.63	7.9	7.5	7.8
February	30.038	30.282	29.378	35.9	46.2	48.4	33.7	41.0	59	24	31	31	84	57	.178	.177	1.44	.71	4.4	4.9	5.4
March	29.790	30.153	29.378	40.0	51.7	53.9	37.6	45.8	72	30	34	34	81	54	.204	.197	4.29	1.70	5.8	5.9	6.1
April	29.918	30.195	29.624	43.2	55.3	57.6	42.0	49.8	73	34	38	38	84	55	.234	.231	2.25	.49	8.3	7.5	7.0
May	29.905	30.219	29.630	48.8	63.4	66.3	47.5	56.9	84	39	44	45	85	55	.297	.313	1.71	.31	7.2	6.6	6.3
June	29.852	30.201	29.543	56.1	70.7	73.3	55.1	64.2	97	45	50	52	80	54	.361	.391	2.00	.98	7.6	6.6	6.5
July	29.909	30.135	29.576	55.1	72.7	74.0	54.4	64.2	94	48	51	54	86	47	.371	.371	.51	.20	6.9	3.7	5.0
August	29.836	30.011	29.613	57.1	74.4	75.6	56.4	66.0	90	49	53	54	86	50	.409	.416	.81	.44	6.4	4.1	5.3
September	29.888	30.154	29.507	52.4	69.3	71.9	51.0	61.4	86	41	48	49	86	51	.339	.350	1.13	.44	4.2	5.0	5.2
October	29.919	30.209	29.470	48.9	61.7	64.0	47.2	55.6	77	38	46	49	92	65	.318	.352	2.20	.66	5.1	5.5	6.4
November	29.830	30.267	29.075	44.0	47.7	51.1	41.2	46.2	65	31	40	42	86	80	.255	.268	10.71	3.50	6.8	8.6	8.7
December	30.064	30.406	29.596	38.8	42.6	45.8	36.3	41.0	54	29	35	36	87	78	.210	.217	3.14	.85	5.1	6.4	7.2
Year	29.904	30.406	29.075	46.8	58.3	60.8	45.1	52.9	97	24	42	43	85	60	.282	.293	35.62	3.50	6.3	6.0	6.4

PUEBLO, COLO.

[λ=38° 18′ N.; φ=104° 36′ W.]

January	25.230	25.557	24.811	24.2	39.0	48.0	19.7	33.8	68	2	13	20	63	46	.077	.105	.23	.20	1.8	3.7	4.3
February	25.257	25.600	24.820	17.7	28.6	36.3	12.1	24.2	58	−13	10	16	72	61	.070	.091	1.20	.35	4.2	4.5	5.1
March	25.252	25.542	24.890	29.9	47.7	54.6	25.9	40.2	75	3	23	24	75	44	.124	.131	1.01	.36	4.4	5.6	5.3
April	25.208	25.663	24.797	39.8	59.1	64.5	36.8	50.6	80	19	27	26	62	31	.148	.141	.86	.25	4.0	5.6	4.7
May	25.202	25.624	24.768	45.4	67.5	71.8	42.8	57.3	83	30	32	28	61	25	.182	.157	.29	.23	3.4	4.9	4.2
June	25.333	25.620	24.978	54.5	70.4	75.3	52.5	63.9	98	42	49	47	82	50	.348	.332	3.24	1.39	6.4	7.7	6.4
July	25.315	25.500	24.974	61.4	82.9	90.5	59.4	75.0	98	41	50	46	68	31	.370	.322	.71	.49	2.5	5.0	3.7
August	25.318	25.519	24.991	60.3	80.9	87.6	58.2	72.9	98	49	50	48	71	35	.368	.345	1.98	1.31	2.3	4.8	3.1
September	25.292	25.628	24.815	50.2	72.9	78.8	47.9	63.4	95	33	35	35	59	28	.212	.211	.21	.15	3.2	4.0	3.4
October	25.379	25.676	24.856	40.0	61.5	68.9	36.7	52.8	86	25	26	27	57	31	.138	.149	.93	.87	2.0	3.0	2.8
November	25.334	25.662	24.849	28.1	44.9	56.0	24.6	40.3	77	1	20	28	71	55	.108	.157	.15	.10	1.3	3.0	3.7
December	25.339	25.357	24.741	24.4	40.1	52.0	17.7	34.8	68	9	13	16	61	38	.076	.088	.04	.03	0.8	1.7	2.0
Year	25.288	25.676	24.741	39.7	58.0	65.4	36.2	50.8	98	−13	29	30	67	40	.185	.186	10.35	1.39	3.0	4.5	4.1

RALEIGH, N. C.

[λ=35° 45′ N.; φ=78° 37′ W.]

January	29.625	30.022	29.049	35.4	42.6	49.6	31.5	40.6	67	18	30	31	81	65	.184	.192	3.04	.80	5.5	4.9	6.1
February	29.716	30.194	28.757	39.9	49.4	56.4	35.9	46.2	71	17	34	35	79	61	.226	.238	6.67	2.48	4.7	4.4	5.6
March	29.769	30.086	29.230	51.2	58.6	66.7	48.1	57.4	79	30	47	49	87	73	.349	.368	7.32	2.79	6.1	4.5	5.9
April	29.519	30.009	29.020	53.9	61.0	68.5	49.1	58.8	87	30	45	44	74	58	.313	.304	5.92	1.45	4.9	4.9	5.2
May	29.698	29.949	29.511	64.2	71.1	79.3	58.4	68.8	95	46	56	55	75	59	.459	.452	2.67	1.28	4.4	5.3	4.5
June	29.527	29.846	29.285	68.9	73.1	81.2	62.7	72.0	92	50	61	62	77	71	.553	.572	4.61	2.26	5.1	5.6	5.3
July	29.602	29.796	29.391	75.7	80.2	89.8	69.1	79.4	96	60	67	67	76	66	.671	.664	4.41	2.92	2.6	3.9	3.3
August	29.577	29.953	29.379	73.4	77.7	87.2	69.4	78.3	99	63	69	70	86	77	.711	.720	3.60	1.35	5.8	5.2	5.2
September	29.737	30.046	29.389	64.8	71.9	80.0	61.0	70.5	87	47	59	61	82	70	.528	.557	1.43	1.23	3.2	2.7	3.4
October	29.675	30.035	29.262	53.3	61.0	70.3	49.3	59.8	85	34	48	50	83	69	.360	.395	5.28	2.02	3.6	3.0	3.8
November	29.720	30.285	29.290	41.4	48.5	57.0	37.5	47.2	79	18	36	36	79	62	.289	.244	.88	.70	4.2	2.6	3.7
December	29.703	30.114	29.181	32.4	39.1	47.3	28.3	37.8	60	14	27	26	80	59	.154	.146	2.21	.98	3.9	2.8	3.3
Year	29.656	30.285	28.757	54.5	61.2	69.4	50.0	59.7	99	14	48	49	80	66	.395	.404	48.04	2.92	4.5	4.2	4.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

PORTLAND, ME.

[H=103 ft.; h_t=81 ft.; h_r=75 ft.; h_a=117 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	9.5	SW.	36	W.	0	5	0	4	0	5	20	16	12	0	15	8	8	9	8	8	0	2	15	0	29	0	0
February	10.8	W.	38	E.	0	4	2	2	3	5	16	14	10	0	11	6	11	11	10	8	0	1	11	0	25	0	0
March	9.6	NW.	38	SW.	0	7	6	3	5	9	12	7	13	0	11	4	16	15	14	2	0	1	1	0	11	0	0
April	11.1	NW.	42	SE.	1	8	7	0	9	6	6	10	14	0	11	12	7	7	7	0	0	2	0	0	5	0	0
May	9.9	S.	36	NW.	0	10	6	3	3	24	6	3	7	0	20	4	7	4	4	0	0	1	0	0	1	1	0
June	8.8	S.	40	E.	1	6	12	6	7	16	7	2	4	0	6	6	18	10	10	0	0	6	0	0	0	0	0
July	8.3	S.	38	NW.	0	4	5	6	3	12	10	16	6	0	6	14	11	12	9	0	0	3	0	0	0	6	0
August	8.1	SE.	23	S.	0	6	7	3	6	15	5	8	12	0	12	9	10	10	9	0	0	1	0	0	0	1	0
September	8.3	S.	48	SE.	1	2	0	1	2	20	11	12	12	0	15	10	5	6	5	0	0	3	0	1	0	2	0
October	10.1	SW.	32	E.	0	10	3	4	5	9	12	11	8	0	9	10	12	11	9	0	0	2	0	0	5	1	1
November	8.3	NW.	34	NW.	0	9	3	0	1	6	14	11	15	1	12	7	11	9	7	4	0	0	6	0	19	0	0
December	11.0	SW.	48	SE.	2	10	0	0	3	7	19	14	9	0	13	8	10	10	8	6	0	0	15	0	31	0	0
Year	9.5	S.	48	SE.	5	81	51	32	47	184	138	124	122	1	141	98	126	114	100	28	0	22	48	1	126	11	1

PORTLAND, OREG.

[H=154 ft.; h_t=68 ft.; h_r=63 ft.; h_a=96 ft.]

January	7.3	SW.	30	E.	0	2	4	12	11	14	10	2	7	0	4	6	21	20	18	3	0	4	0	0	2	0	0
February	5.2	NW.	32	SW.	0	1	3	10	4	5	5	8	20	0	8	11	9	7	5	1	0	3	0	0	13	0	0
March	6.5	NW.	36	SW.	0	2	6	7	4	5	9	6	22	1	10	6	15	11	10	2	0	0	0	0	2	0	0
April	5.8	NW.	30	SW.	0	1	4	2	8	7	12	12	14	0	4	8	18	17	13	2	0	0	0	0	0	0	0
May	5.3	NW.	24	SW.	0	6	1	1	4	12	9	8	21	0	8	8	15	17	14	0	0	0	0	0	0	0	0
June	5.1	NW.	22	SE.	0	4	2	2	4	9	13	4	22	0	6	12	12	12	7	0	0	0	0	2	0	3	0
July	5.1	NW.	27	SW.	0	5	0	6	5	11	5	5	25	0	11	11	9	8	5	0	1	0	0	1	0	0	0
August	4.4	NW.	18	SW.	0	6	1	1	4	9	8	1	32	0	12	7	12	6	4	0	0	0	0	0	0	1	0
September	4.7	NW.	20	SW.	0	2	3	2	7	5	9	8	24	0	10	8	12	11	10	0	0	0	0	0	0	0	0
October	4.8	NW.	30	S.	0	8	1	2	14	11	7	4	15	0	7	10	14	9	9	0	0	4	0	0	0	0	1
November	6.6	SE.	34	W.	0	1	0	8	19	5	10	2	15	0	2	5	23	23	22	0	0	2	0	0	1	0	0
December	5.2	SE.	26	E.	0	3	4	12	13	4	8	2	14	2	5	8	18	14	11	0	0	9	0	0	7	0	0
Year	5.5	NW.	36	SW.	0	41	29	65	97	97	105	62	231	3	87	100	178	155	128	8	1	22	0	3	25	4	1

PUEBLO, COLO.

[H=4,685 ft.; h_t=80 ft.; h_r=71 ft.; h_a=86 ft.]

January	6.8	NW.	40	NW.	1	8	6	6	13	0	4	10	15	0	10	17	4	4	1	3	0	1	1	0	28	0	0
February	7.0	NW.	43	W.	2	6	5	10	16	1	1	6	11	0	8	14	6	11	8	11	0	0	12	0	28	0	0
March	6.4	SE.	36	W.	0	9	4	10	15	1	4	6	13	0	9	14	8	8	5	4	0	2	0	0	22	0	0
April	8.8	NW.	44	NW.	2	13	5	7	10	3	4	8	10	0	11	12	7	6	3	4	1	0	0	0	10	2	0
May	9.0	SE.	43	W.	1	6	9	4	11	0	9	12	11	0	11	17	3	2	2	0	1	0	0	0	2	5	0
June	5.8	SE.	28	NW.	0	6	3	13	16	0	2	10	10	0	3	16	11	13	10	0	0	0	0	4	0	13	0
July	7.3	SE.	41	NW.	2	4	8	9	5	1	6	10	19	0	14	16	1	6	3	0	0	0	0	21	0	12	0
August	6.7	SE.	31	NW.	0	8	3	6	14	2	3	8	18	0	19	10	2	8	6	0	0	0	0	10	0	13	0
September	7.1	NW.	36	NW.	0	4	7	7	16	0	4	5	16	1	19	10	1	5	2	0	0	0	0	3	0	2	0
October	6.9	NW.	38	N.	0	7	7	10	12	0	3	3	20	0	20	8	3	5	2	1	0	0	0	0	9	1	1
November	4.9	NW.	37	W.	0	4	4	8	17	3	4	4	16	0	16	11	3	3	3	0	0	0	0	0	28	0	0
December	6.3	NW.	48	NW.	2	10	7	8	9	3	3	7	15	0	22	9	0	2	0	2	0	0	0	0	31	0	0
Year	6.9	NW.	48	NW.	10	85	68	98	154	14	47	89	174	1	162	154	49	73	45	28	2	1	18	38	158	48	1

RALEIGH, N. C.

[H=376 ft.; h_t=71 ft.; h_r=64 ft.; h_a=79 ft.]

January	6.8	W.	38	NW.	0	8	9	2	1	4	8	17	13	0	9	9	13	11	9	0	0	4	0	0	16	0	0
February	7.4	NW.	36	W.	0	6	4	1	3	7	11	9	15	0	11	4	13	9	8	0	0	1	0	0	8	0	0
March	6.3	NE.	28	NE.	0	3	25	8	3	6	7	5	4	1	8	10	13	14	11	0	0	0	0	0	1	3	0
April	7.7	SW.	30	SW.	0	8	6	3	2	12	11	4	14	0	11	6	13	14	12	0	0	0	0	0	1	4	0
May	6.5	NE.	29	E.	0	2	18	13	2	5	14	6	2	0	13	10	8	5	5	0	0	0	0	5	0	6	0
June	5.8	SW.	20	NW.	0	5	9	9	4	4	12	11	6	0	11	11	8	14	11	0	0	0	0	2	0	9	0
July	6.1	SW.	32	SE.	0	6	11	2	4	3	21	7	7	1	19	9	3	9	7	0	0	0	0	18	0	10	0
August	4.9	NE.	23	SW.	0	8	13	6	7	6	12	6	2	2	9	13	9	13	9	0	0	0	0	12	0	11	0
September	5.6	NE.	28	NW.	0	13	12	9	10	6	6	0	8	1	19	7	4	5	4	0	0	1	0	0	0	2	0
October	5.6	NW.	26	NW.	0	9	11	4	3	7	7	4	12	5	15	10	6	7	5	1	0	2	0	0	0	0	0
November	5.8	N.	21	SW.	0	16	7	5	0	4	6	7	10	5	17	8	5	4	4	0	0	1	0	0	12	1	0
December	6.3	N.	26	NW.	0	14	7	0	3	5	15	11	7	0	20	7	4	6	6	1	0	0	0	0	23	0	0
Year	6.2	NE.	36	W.	0	98	132	62	42	69	130	87	95	15	162	104	99	111	91	2	1	9	1	37	61	46	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

RAPID CITY, S. DAK.

[λ=44° 4′ N.; φ=103° 12′ 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	26.512	26.872	26.013	24.6	30.1	40.7	17.1	28.9	58	− 5	18	22	77	70	.099	.116	.23	.15	2.4	3.4	3.8
February	26.641	27.036	26.197	13.6	21.2	29.6	7.5	18.6	53	−16	10	14	86	74	.075	.085	.47	.21	4.1	3.9	3.9
March	26.599	26.893	26.227	23.6	35.4	42.6	18.9	30.8	67	− 3	20	24	84	66	.112	.133	1.10	.64	4.5	4.4	4.7
April	26.527	26.938	26.065	37.4	50.9	57.7	33.7	45.7	81	21	31	31	79	50	.179	.176	3.51	2.37	3.6	4.3	4.2
May	26.530	26.968	25.978	47.9	58.8	64.8	43.2	53.8	83	32	40	40	75	52	.352	.249	2.94	.89	4.5	5.6	5.7
June	26.646	26.993	26 251	56.4	68.3	73.0	52.0	62.5	92	36	50	50	80	54	.369	.371	3.79	1.54	3.9	5.6	5.1
July	26.595	26 773	26 229	62.3	75.4	80.8	57.5	69.2	98	46	54	54	77	52	.427	.437	3.37	1.09	5.0	4.1	4.6
August	26.597	26 852	26.289	59.5	73 9	79.8	56.1	68.0	100	46	54	55	82	54	.421	.436	2.47	.54	4.0	4.5	4.6
September	26.606	27 002	26.181	48 1	58.2	66.2	43.8	55.0	83	31	39	42	76	60	.251	.271	2.79	1.22	4.3	4.0	4.5
October	26.661	27.046	25 961	44.2	53.8	65.1	38.4	51.8	81	28	32	34	64	48	.186	.198	.30	.26	2.2	2.3	2.8
November	26.644	27 064	26.230	28.6	35.1	45.4	22.6	34.0	72	− 3	21	22	74	61	.114	.123	T.	T.	3.7	3.0	4.1
December	26.626	26.957	26.184	24 7	28.5	40.7	19.2	30.0	57	− 5	21	21	77	72	.116	.116	.31	.22	4.0	3.4	3.7
Year	26.599	27.064	25.961	39.5	49.1	57.2	34.2	45.7	100	−16	32	34	78	59	.225	.226	21.28	2.37	3.8	4.0	4.3

RED BLUFF, CAL.

[λ=40° 10′ N.; φ=122° 15′ W.]

January	29.780	30.058	29.202	38 3	47.9	50.7	36.5	43.6	66	28	37	42	95	83	.226	.273	2.78	.74	3.2	4.8	6.4
February	29.795	30.089	29.350	37.3	52.5	54.2	35.2	44.7	67	27	32	31	80	48	.183	.184	1.53	1.20	2.5	3.3	3.2
March	29.628	29.906	29.274	43.8	55.8	58.1	41.9	50.0	70	32	41	42	92	64	.265	.280	4.99	1.28	4.4	6.6	6.4
April	29.659	29.870	29.410	45.9	66.1	67.8	44.6	56.2	81	36	38	38	76	37	.235	.241	.38	.34	2.1	2.6	2.5
May	29.551	29.754	29.286	56.2	79.8	81.6	55.0	68.3	100	44	44	42	65	30	.293	.283	1.06	.56	.7	2.7	1.8
June	29.525	29.765	29.292	64.3	88.2	90.1	63.1	76.6	105	50	50	50	64	29	.369	.368	.01	.01	2.3	2.8	2.4
July	29.562	29.711	29.321	62.2	89.8	91.0	60.8	75.9	101	54	42	40	50	19	.269	.252	.00	.00	.3	.7	.5
August	29.493	29.635	29.281	64.5	92.6	93.8	62.7	78.2	108	56	44	43	50	20	.294	.281	.00	.00	.6	.6	.6
September	29.548	29.725	29.280	62.8	86.2	87.9	60.6	74.2	104	51	40	37	45	20	.250	.228	.00	.00	1.0	1.1	1.0
October	29.666	29.856	29.391	56.5	78.5	80.8	54.3	67.6	92	46	44	40	63	29	.287	.258	.46	.19	1.7	3.0	2.5
November	29.717	30.012	29.332	48.3	58.5	61.3	46.0	53.6	75	36	45	46	90	66	.313	.320	7.99	2.84	4.5	5.8	5.8
December	29.843	30.047	29.568	42.1	54.5	57.9	40.1	49.1	69	32	38	39	87	61	.233	.245	3.73	1.94	3.2	3.5	3.7
Year	29.647	30.058	29.202	51.8	70.9	72.9	50.1	61.5	108	27	41	41	71	42	.268	.268	22.93	2.84	2.2	3.1	3.1

RICHMOND, VA.[a]

[λ=37° 32′ N.; φ=77° 27′ W.]

January	29.884	30.382	29.362	33.6	.....	46.5	29.9	38.2	64	17	28	....	80	....	.167	.....	3.61	1.67	5.6	.....	5.8
February	29.972	30.508	29.432	37.7	.....	52.2	33.8	43.0	72	11	32	....	80	....	.202	.....	3.02	2.37	5.9	.....	5.4
March	30.052	30.403	29.536	48.3	.....	63.5	45.2	54.4	76	31	44	....	86	....	.304	.....	3.14	3.59	6.5	.....	6.2
April	29.770	30.306	29.295	52.5	.....	67.3	48.4	57.8	88	31	45	....	77	....	.310	.....	2.46	1.34	5.8	.....	5.8
May	29.979	30.289	29.820	62.5	.....	78.2	57.3	67.8	92	43	55	....	78	....	.452	.....	2.36	2.03	6.1	.....	5.0
June	29.782	30.143	29.557	66.4	.....	78.9	61.5	70.2	90	52	60	....	80	....	.523	.....	5.73	2.41	6.1	.....	6.5
July	29.836	30.028	29.615	75.9	.....	89.0	69.6	79.3	97	62	68	....	77	....	.690	.....	5.42	2.16	4.8	.....	4.3
August	29.842	30.236	29.625	72.5	.....	83.9	67.6	75.8	98	63	67	....	83	....	.663	.....	3.21	1.01	6.5	.....	5.7
September	29.999	30.301	29.630	65.0	.....	79.0	59.9	69.4	88	47	59	....	80	....	.515	.....	1.60	.84	3.3	.....	4.3
October	29.923	30.275	29.535	54.5	.....	68.7	49.1	58.9	82	35	47	....	77	....	.349	.....	3.44	1.39	5.1	.....	5.5
November	29.978	30.545	29.545	40.6	.....	54.8	34.9	44.8	75	20	33	....	74	....	.207	.....	1.40	.97	4.9	.....	5.3
December	29.946	30.420	29.508	31.8	.....	44.5	28.0	36.2	56	16	25	....	74	....	.139	.....	2.28	1.21	4.1	.....	4.5
Year	29.914	30.545	29.295	53.4	.....	67.2	48.8	58.0	98	11	47	....	79	....	.377	.....	47.42	3.59	5.4	.....	5.3

ROCHESTER, N. Y.

[λ=43° 8′ N.; φ=77° 42′ W.]

January	29.327	29.911	28.616	23.3	25.2	31.7	19.5	25.6	50	2	18	20	81	79	.109	.115	2.54	.60	8.1	7.7	7.8
February	29.432	29.873	28.676	25.7	27.6	34.1	21.7	27.9	57	− 3	20	22	78	77	.119	.125	2.62	.76	7.0	5.9	6.7
March	29.612	30.017	29.157	39.1	41.5	49.5	35.3	42.4	79	18	35	36	86	79	.214	.220	3.88	1.17	7.6	5.6	7.3
April	29.359	29.836	28.850	43.4	45.3	53.8	36.9	45.4	85	23	36	36	77	72	.223	.220	2.81	1.58	5.1	4.2	5.3
May	29.561	29.875	29.291	56.4	60.7	69.7	49.3	59.5	86	29	46	43	70	54	.329	.294	.53	.30	8.9	2.6	3.4
June	29.369	29.779	29.088	59.7	63.8	71.3	54.5	62.9	87	42	52	54	78	74	.399	.435	3.66	1.02	6.4	4.9	6.1
July	29.379	29.678	29.139	67.3	69.9	79.2	60.8	70.0	92	50	60	59	77	69	.522	.510	2.55	.60	5.9	5.5	5.0
August	29.425	29.880	29.220	62.7	65.0	73.5	57.1	65.3	85	49	55	55	78	72	.445	.437	3.48	1.21	6.5	4.8	6.3
September	29.544	29.870	29.080	59.4	63.5	74.3	53.8	64.0	91	38	52	53	76	70	.404	.426	1.11	.77	4.2	3.7	4.1
October	29.472	29.761	29.053	48.9	52.0	59.9	45.1	52.5	78	29	42	43	78	74	.287	.300	2.93	.97	6.9	5.2	6.6
November	29.477	30.128	28.955	32.5	35.7	42.8	29.8	36.3	67	14	26	27	78	70	.151	.152	1.50	.56	6.8	6.6	6.6
December	29.384	29.920	28.797	21.8	24.2	30.4	17.4	23.9	41	3	18	18	82	77	.096	.102	1.88	.46	8.9	7.6	8.6
Year	29.445	30.128	28.616	45.0	47.9	55.8	40.1	48.0	92	− 3	38	39	78	72	.275	.278	29.44	1.58	6.4	5.4	6.2

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

RAPID CITY, S. DAK.

[H=3,234 ft.; h_t=46 ft.; h_r=35 ft.; h_a=50 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of winds, 8 a. m. and 8 p. m. Number of days with gales.	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	8.3	NW.	44	W.	1	5	2	2	7	1	1	16	28	0	16	10	5	5	1	3	0	2	7	0	30	0	0
February	6.9	NW.	38	NW.	0	13	3	5	5	1	0	13	13	3	15	8	5	7	4	7	0	0	13	0	28	0	0
March	9.0	W.	56	SE.	0	13	4	2	11	3	2	16	8	3	15	6	10	8	4	7	0	0	9	0	27	0	0
April	9.4	NW.	34	N.	0	12	5	2	11	3	2	11	13	1	17	5	8	9	7	3	0	0	0	0	11	1	0
May	8.2	W.	56	W.	1	3	5	4	8	7	4	18	13	0	8	14	9	16	12	0	1	0	0	0	1	5	0
June	7.3	W.	34	W.	0	10	2	3	12	5	4	15	8	1	11	10	9	7	7	0	0	0	0	1	0	4	0
July	7.4	W.	34	W.	0	6	5	6	13	3	5	15	8	1	13	12	6	13	12	0	0	0	9	6	0	8	0
August	7.3	W.	40	NW.	1	8	4	8	10	4	4	12	10	2	12	11	8	12	10	0	1	0	0	4	0	11	0
September	7.1	W.	36	N.	0	4	8	1	12	3	1	16	13	2	14	6	10	8	6	4	1	0	0	0	4	2	0
October	8.2	W.	40	NW.	1	4	0	1	6	2	6	22	20	1	20	7	4	2	2	0	0	0	0	0	4	0	1
November	7.5	NW.	36	N.	0	7	2	3	6	3	3	13	21	2	13	10	7	0	0	0	0	1	8	0	23	0	0
December	9.1	NW.	38	NW.	0	5	4	0	6	1	1	18	27	0	18	4	9	6	1	6	0	0	5	0	29	0	0
Year	8.0	W.	56	W.	4	90	44	37	107	36	33	185	182	16	172	103	90	93	66	30	3	3	42	11	157	31	1

RED BLUFF, CAL.

[H=332 ft.; h_t=50 ft.; h_r=40 ft.; h_a=56 ft.]

January	5.6	SE.	36	SE.	0	12	4	5	27	5	0	2	5	2	7	10	14	10	10	0	0	15	0	0	11	0	0
February	7.3	N.	30	N.	0	31	3	1	9	5	0	1	6	0	17	5	6	4	4	2	0	1	0	0	10	0	0
March	6.2	SE.	31	SE.	0	8	0	1	29	11	3	3	7	0	5	15	11	16	18	0	0	1	0	0	0	0	0
April	6.4	SE.	30	N.	0	16	1	2	20	2	1	6	11	1	20	8	2	2	2	0	0	0	0	0	0	0	0
May	7.0	N.	35	NW.	0	26	3	3	15	3	1	0	9	2	27	3	1	3	3	0	0	0	0	0	0	0	0
June	5.7	SE.	24	SE.	0	20	2	2	25	2	0	1	6	2	21	8	1	1	0	0	0	0	0	0	0	1	0
July	5.5	SE.	35	N.	0	11	0	2	29	2	4	2	11	1	30	1	0	0	0	0	0	0	0	16	0	0	0
August	4.1	SE.	23	N.	0	12	0	0	33	7	0	1	7	2	29	2	0	0	0	0	0	0	0	16	0	0	0
September	6.1	N.	36	N.	0	33	0	0	14	5	0	3	5	0	27	2	1	0	0	0	0	0	0	22	0	0	0
October	4.9	N.	27	N.	0	28	3	1	18	1	2	2	7	0	21	7	3	5	4	0	0	0	0	14	0	0	0
November	6.8	SE.	36	SE.	0	18	0	5	22	4	2	3	6	0	10	8	12	12	12	0	0	0	0	6	0	1	1
December	5.3	N.	25	N.	0	31	0	1	14	5	1	1	7	2	18	3	10	8	7	0	0	2	0	0	0	0	0
Year	5.9	SE.	36	SE.	0	246	16	23	255	52	14	25	87	12	232	72	61	61	55	2	0	19	0	80	21	2	1

RICHMOND, VA.

[H=144 ft.; h_t=82 ft.; h_r=76 ft.; h_a=90 ft.]

January	6.1	W.	25	W.	0	5	6	4	6	7	12	12	10	0	8	12	11	11	10	4	0	5	2	0	18	0	0
February	6.7	SW.	33	SW.	0	11	2	3	4	10	14	8	4	0	11	3	14	8	7	1	0	0	1	0	10	0	0
March	5.3	NE.	28	S.	0	6	14	7	9	11	6	2	7	0	10	6	15	10	7	0	1	3	0	0	1	3	0
April	6.8	N.	33	S.	0	12	6	3	5	10	8	4	11	1	9	7	14	13	11	0	0	0	0	0	1	2	0
May	5.4	NE.	25	NW.	0	9	13	8	10	10	9	1	1	1	12	9	10	10	7	0	1	0	0	3	0	6	0
June	5.1	SE.	20	SW.	0	7	8	7	12	7	6	8	5	0	6	9	15	19	16	0	0	0	0	1	0	8	0
July	5.2	SW.	30	SW.	0	13	3	2	5	10	21	6	2	0	14	12	5	8	8	0	0	0	0	13	0	7	0
August	4.4	N.	18	SW.	0	19	7	3	13	8	8	8	1	0	7	15	9	13	10	0	0	0	0	7	0	8	0
September	4.7	N.	20	S.	0	24	5	2	10	9	5	2	3	0	12	12	6	7	6	0	0	0	1	0	0	2	0
October	5.9	NW.	30	N.	0	9	4	0	3	11	13	6	16	0	11	8	12	11	8	0	0	1	0	0	0	1	0
November	4.7	N.	28	SW.	0	18	4	1	3	9	5	6	11	3	7	13	10	6	5	1	0	1	0	0	14	1	0
December	5.8	S.	26	SW.	0	13	2	2	2	14	12	4	12	1	13	9	9	5	4	1	0	0	0	0	22	0	0
Year	5.5	N.	33	S.	0	146	74	42	82	111	119	67	83	6	120	115	130	121	99	7	2	11	3	24	66	37	0

ROCHESTER, N. Y.

[H=523 ft.; h_t=81 ft.; h_r=78 ft.; h_a=102 ft.]

January	11.5	SW.	45	W.	1	1	0	3	7	8	20	16	7	0	2	8	21	21	13	18	0	1	14	0	26	0	0
February	12.7	SW.	42	W.	2	1	3	4	2	7	20	15	4	0	7	7	14	14	9	11	0	0	11	0	22	0	0
March	8.8	W.	36	SW.	0	1	6	7	7	5	12	17	7	0	5	8	18	14	12	4	0	1	0	0	10	0	0
April	9.4	NW.	37	NW.	0	3	11	8	1	5	12	9	11	0	11	8	11	11	9	3	0	0	0	0	4	1	0
May	7.9	NE.	36	SW.	0	3	18	4	4	12	8	8	5	0	18	7	6	5	4	0	0	0	0	0	2	1	0
June	6.5	SE.	20	SE.	0	2	12	2	12	5	9	8	7	3	5	11	14	13	11	0	0	0	0	0	0	6	0
July	8.0	SW.	31	W.	0	4	2	5	2	4	18	14	13	0	9	16	6	13	11	0	0	0	0	2	0	6	0
August	7.0	SW.	28	W.	0	1	5	10	9	3	15	10	8	1	6	13	12	9	7	0	0	0	0	0	0	5	0
September	7.3	SW.	29	SW.	0	1	2	2	6	11	19	14	4	1	14	9	7	7	3	0	0	0	0	2	0	2	0
October	9.2	SW.	30	W.	0	3	8	0	3	10	19	12	7	0	4	15	12	15	11	2	0	2	0	0	1	3	1
November	9.5	SW.	36	SW.	0	5	0	1	4	6	22	18	4	0	6	9	15	11	7	7	0	1	8	0	16	0	0
December	11.6	SW.	31	NW.	0	0	2	3	4	8	21	22	2	0	0	8	23	16	7	14	0	0	13	0	30	0	0
Year	9.1	SW.	45	W.	3	25	69	49	61	84	195	168	79	5	87	119	159	149	104	59	0	5	46	4	111	24	1

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

ROSEBURG, OREG.

[λ=43° 13′ N.; φ=123° 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	29.523	29.812	28.527	39.1	43.8	46.0	37.0	41.5	60	29	38	40	95	87	.230	.250	9.58	2.55	5.9	7.0	7.9
February	29.607	29.852	29.117	34.0	47.0	48.2	32.2	40.2	61	21	32	34	92	68	.185	.203	1.73	.68	4.8	5.6	5.5
March	29.377	29.684	28.928	39.0	53.8	55.8	37.0	46.4	71	28	35	35	88	54	.208	.209	3.40	.83	6.4	6.5	6.4
April	29.526	29.779	29.166	39.6	56.3	58.5	38.3	48.4	74	27	38	37	92	51	.228	.225	.80	.24	7.3	5.9	6.6
May	29.512	29.770	29.256	44.8	65.8	67.6	44.2	55.9	86	32	43	42	92	45	.277	.272	.65	.26	5.5	5.2	5.4
June	29.461	29.790	29.186	52.8	71.4	73.7	52.5	63.1	101	38	50	50	91	52	.362	.368	.74	.45	6.8	6.4	6.6
July	29.508	29.743	29.253	51.2	74.3	75.5	50.5	63.0	88	42	48	48	89	42	.336	.338	.40	.22	4.7	2.9	3.8
August	29.433	29.594	29.244	53.2	77.8	79.5	52.4	66.0	93	43	50	50	88	39	.358	.360	.30	.21	4.3	1.9	3.1
September	29.491	29.760	29.213	48.4	73.1	74.9	47.1	61.0	92	36	46	46	91	41	.310	.317	.54	.22	3.3	3.2	3.1
October	29.525	29.796	29.094	45.8	64.1	65.7	44.8	55.2	79	38	45	50	97	61	.298	.358	.79	.36	2.7	4.9	3.8
November	29.462	29.857	28.946	45.3	50.3	54.4	42.2	48.3	76	33	43	44	92	82	.282	.295	9.11	1.50	7.7	7.7	7.7
December	29.668	29.942	29.224	37.5	43.7	45.5	36.1	40.8	62	26	36	40	97	87	.219	.247	1.46	.60	4.8	4.7	7.4
Year	29.508	29.942	28.527	44.2	60.1	62.1	42.9	52.5	101	21	42	43	92	59	.274	.287	29.50	2.55	5.4	5.2	5.6

SACRAMENTO, CAL.

[λ=38° 35′ N.; φ=121° 30′ W.]

January	30.090	30.349	29.513	40.9	45.9	47.3	39.4	43.4	60	29	39	42	94	86	.245	.271	3.05	1.40	5.1	7.7	8.5
February	30.051	30.327	29.610	39.6	51.9	53.2	37.8	45.5	63	31	35	35	83	56	.204	.214	1.70	.68	1.9	3.5	3.8
March	29.921	30.169	29.625	46.8	56.8	58.9	45.6	52.2	69	38	43	43	88	62	.285	.283	4.81	.86	5.2	6.9	7.1
April	29.932	30.145	29.699	47.4	64.0	65.8	46.4	56.1	77	40	42	42	84	47	.274	.277	.46	.25	2.1	3.3	2.8
May	29.824	29.978	29.601	53.3	76.2	77.9	52.5	65.2	97	44	46	47	79	37	.319	.338	T.	T.	2.1	2.4	2.2
June	29.709	30.034	29.617	57.8	82.2	84.7	57.3	71.0	101	48	51	52	78	36	.372	.390	T.	T.	2.8	2.4	2.5
July	29.833	29.979	29.613	55.0	82.4	84.4	54.4	69.4	95	50	48	50	80	33	.341	.360	.00	.00	.7	.5	.5
August	29.771	29.905	29.550	57.0	84.8	87.3	56.2	71.8	99	52	50	51	79	33	.366	.380	.00	.00	.3	.3	.4
September	29.809	29.973	29.616	57.6	82.1	85.0	55.8	70.4	102	49	46	47	68	33	.316	.336	.00	.00	1.0	1.4	1.3
October	29.935	30.095	29.729	55.2	77.2	79.8	52.5	66.2	90	44	47	49	76	39	.328	.350	.12	.12	1.1	2.0	2.0
November	30.021	30.253	29.788	49.4	59.2	62.5	47.3	54.9	72	36	47	50	91	73	.327	.364	3.44	1.38	3.8	5.4	6.2
December	30.119	30.324	29.846	41.7	51.4	54.0	39.7	46.8	59	31	40	44	95	77	.253	.286	1.12	.73	2.8	3.1	4.3
Year	29.925	30.349	29.513	50.1	67.8	70.1	48.7	59.4	102	29	44	46	83	51	.302	.321	14.70	1.40	2.4	3.2	3.5

ST. LOUIS, MO.

[λ=38° 38′ N.; φ=90° 12′ W.]

January	29.404	29.824	28.840	30.0	35.8	40.8	26.6	33.7	64	3	25	26	80	66	.148	.152	1.76	.63	5.2	4.2	5.1
February	29.508	30.014	28.734	28.7	35.0	41.1	26.1	33.6	62	− 6	24	28	81	74	.146	.167	3.14	1.21	5.8	5.1	6.1
March	29.529	29.831	29.216	43.1	52.5	57.4	41.8	49.4	78	20	38	41	82	68	.245	.278	3.20	1.03	4.9	4.9	5.5
April	29.302	29.719	28.856	51.4	60.1	66.8	48.1	57.4	85	32	42	44	71	59	.272	.308	2.79	.60	5.9	6.0	6.1
May	29.366	29.808	29.106	62.9	71.8	77.0	61.0	69.0	92	39	55	56	75	60	.448	.474	2.08	1.43	6.7	5.7	6.4
June	29.349	29.679	29.069	65.5	73.9	78.1	62.6	70.4	90	50	56	55	72	54	.458	.448	5.71	3.55	4.2	4.9	4.6
July	29.381	29.583	29.059	75.6	84.1	88.8	72.7	80.8	98	65	65	64	70	51	.626	.596	2.68	1.46	4.5	4.8	4.7
August	29.375	29.660	29.173	70.6	79.1	85.6	68.9	77.2	97	58	63	64	79	62	.590	.615	6.16	2.36	4.5	3.8	4.7
September	29.476	29.700	29.189	62.6	72.2	79.0	60.1	69.6	92	45	57	61	82	70	.483	.562	3.06	1.45	3.8	3.6	4.3
October	29.490	29.929	28.970	51.6	62.4	67.9	50.6	59.2	87	35	46	51	83	67	.341	.400	1.37	.98	3.0	2.3	3.3
November	29.520	30.012	28.972	36.8	43.5	50.2	33.4	41.8	71	14	31	34	80	69	.198	.217	.61	.36	4.8	4.1	4.6
December	29.504	29.984	28.918	25.9	32.6	38.5	21.0	29.8	56	1	18	21	69	62	.105	.117	1.25	.60	3.1	4.5	4.2
Year	29.434	30.014	28.734	50.4	58.6	64.3	47.7	56.0	98	− 6	43	45	77	64	.338	.361	33.81	3.55	4.7	4.5	5.0

ST. PAUL, MINN.

[λ=44° 58′ N.; φ=93° 03′ W.]

January	29.025	29.465	28.145	10.7	18.1	23.4	6.5	15.0	38	−13	8	13	86	78	.065	.085	.27	.12	5.1	4.7	6.3
February	29.191	29.608	28.524	7.7	18.3	23.0	5.6	14.3	42	−24	5	14	86	81	.061	.089	.62	.49	4.0	3.1	3.9
March	29.177	29.552	28.851	29.9	36.9	40.0	28.0	34.0	60	10	27	31	86	78	.149	.174	2.33	1.45	5.1	7.1	6.4
April	29.017	29.446	28.478	39.2	49.3	54.4	37.0	45.7	70	24	33	35	77	62	.191	.213	3.46	1.23	4.8	6.8	5.5
May	29.054	29.452	28.612	52.8	65.0	67.7	51.1	59.4	81	35	47	48	81	57	.337	.356	5.28	1.07	4.8	5.4	5.5
June	29.093	29.516	28.638	58.5	71.6	74.5	56.3	65.4	85	41	51	51	77	50	.389	.382	1.16	.66	3.5	4.5	4.2
July	29.053	29.323	28.715	63.7	75.3	77.4	61.7	69.6	90	52	58	58	83	55	.495	.491	5.61	2.58	4.5	4.4	4.8
August	29.072	29.265	28.758	59.1	70.5	73.5	58.3	65.9	89	48	56	56	88	63	.447	.462	4.90	1.21	6.0	5.0	5.5
September	29.079	29.353	28.520	51.2	61.9	67.6	49.8	58.7	84	37	47	50	87	67	.340	.382	7.84	5.20	4.5	5.2	5.0
October	29.129	29.657	28.310	42.8	53.0	59.3	41.6	50.4	76	31	38	41	84	64	.241	.262	5.41	2.60	3.3	2.9	4.4
November	29.170	29.602	28.554	25.7	32.8	38.1	23.1	30.6	69	0	22	25	83	71	.129	.149	.35	.15	4.5	2.9	5.2
December	29.099	29.520	28.623	9.5	14.5	21.6	4.2	12.9	34	−16	7	9	88	78	.063	.070	.65	.19	5.1	4.2	5.9
Year	29.097	29.657	28.145	37.6	47.3	51.7	35.3	43.5	90	−24	33	36	84	67	.242	.260	37.88	5.20	4.6	4.7	5.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

ROSEBURG, OREG.

[H=518 ft.; h_t=56 ft.; h_r=48 ft.; h_a=67 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.	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	2.7	S.	20	SW.	0	0	3	12	14	9	6	5	10	3	4	6	21	17	15	4	0	10	0	0	6	0	0
February	2.9	E.	17	SW.	0	5	7	8	2	3	7	7	15	2	8	8	12	9	8	3	0	3	0	0	15	0	0
March	3.7	NW.	28	W.	0	9	9	7	10	4	10	0	12	1	7	8	16	15	12	2	1	0	0	0	5	0	0
April	4.0	NW.	26	SW.	0	6	10	9	3	1	7	5	17	2	7	10	13	14	8	1	1	0	0	0	3	0	0
May	4.0	NW.	18	SW.	0	11	19	2	0	2	7	2	15	4	10	9	12	9	5	0	0	2	0	0	0	0	0
June	3.7	NW.	17	NE.	0	13	13	5	0	1	0	5	22	1	7	7	16	11	4	0	0	2	0	3	0	0	0
July	4.5	NW.	18	N.	0	25	10	6	2	0	2	0	16	1	16	10	5	6	4	0	0	0	0	0	0	0	0
August	4.0	NW.	18	N.	0	18	14	6	3	0	0	1	16	4	18	9	4	3	2	0	0	1	0	1	0	0	0
September	3.4	N.	18	W.	0	17	13	6	5	0	3	2	9	5	16	9	5	7	4	0	0	0	0	1	0	0	0
October	2.5	W.	16	SW.	0	9	6	5	6	1	8	11	14	2	17	8	6	7	7	0	0	18	0	0	0	0	0
November	3.4	S.	28	SW.	0	1	3	8	10	7	13	3	12	3	4	6	20	23	18	1	0	6	0	0	0	0	0
December	2.5	E.	13	S.	0	0	10	9	10	6	8	5	13	1	4	10	17	13	9	0	0	16	0	0	7	0	0
Year	3.4	NW.	28	W.	0	114	117	83	65	34	71	46	171	29	118	100	147	134	96	11	2	58	0	5	36	0	0

SACRAMENTO, CAL.

[H=69 ft.; h_t=106 ft.; h_r=100 ft.; h_a=117 ft.]

January	6.8	SE.	40	SE.	2	12	4	4	24	8	3	2	5	0	2	4	25	10	7	0	0	13	0	0	2	0	0
February	9.3	NW.	40	SE.	2	16	7	3	9	2	2	2	15	0	13	10	5	7	7	0	0	1	0	0	2	0	0
March	7.7	SE.	38	SE.	0	8	5	9	14	14	8	1	3	0	4	10	17	14	13	0	0	0	0	0	0	0	0
April	9.1	S.	36	NW.	0	5	5	3	19	13	4	2	9	0	18	9	3	5	3	0	0	0	0	0	0	0	0
May	9.4	S.	40	NW.	1	4	4	0	15	18	6	1	14	0	20	10	1	0	0	0	0	0	0	2	0	0	0
June	9.1	S.	30	SW.	0	3	1	0	19	26	4	1	6	0	20	10	0	0	0	0	0	0	0	0	0	0	0
July	9.8	S.	40	NW.	1	0	1	0	20	30	5	1	5	0	29	2	0	0	0	0	0	0	0	4	0	0	0
August	8.8	S.	26	S.	0	3	4	1	22	30	1	0	1	0	30	1	0	0	0	0	0	0	0	8	0	0	0
September	7.8	SE.	40	NW.	1	7	4	4	16	15	2	0	13	0	23	6	1	0	0	0	0	0	0	7	0	0	0
October	6.1	SE.	27	SW.	0	8	1	7	21	9	4	1	11	0	23	6	2	1	1	0	0	0	0	0	0	0	0
November	8.1	SE.	40	SE.	1	5	5	3	24	9	3	2	9	0	8	8	14	9	7	0	0	7	0	0	0	0	0
December	5.5	SE.	26	SE.	0	13	7	6	18	8	2	0	8	0	16	6	9	5	3	0	0	14	0	0	1	0	0
Year	8.1	SE.	40	SE.	8	84	48	40	220	182	44	13	99	0	206	82	77	51	41	0	0	35	0	30	5	0	0

ST. LOUIS, MO.

[H=567 ft.; h_t=208 ft.; h_r=199 ft.; h_a=217 ft.]

January	11.5	S.	52	W.	1	3	4	2	4	17	7	12	13	0	13	7	11	7	6	5	0	1	6	0	25	0	0
February	11.5	S.	51	SW.	2	9	8	3	1	13	4	9	8	1	8	7	13	13	6	4	0	1	4	0	18	1	0
March	8.7	S.	37	SW.	0	15	5	3	7	17	5	5	5	0	10	8	13	12	8	2	1	3	0	0	5	1	0
April	11.0	S.	44	W.	1	10	2	2	6	21	3	4	12	0	9	8	13	14	12	0	0	0	0	0	1	4	0
May	9.0	S.	38	SW.	0	1	13	4	12	26	2	2	2	0	6	10	15	14	11	0	0	0	0	1	0	9	0
June	8.2	NW.	28	N.	0	12	5	6	5	7	5	6	13	1	12	10	8	8	8	0	0	1	0	0	0	6	0
July	8.1	S.	34	W.	0	6	6	6	1	18	8	8	7	2	12	12	7	7	6	0	0	0	0	14	0	7	0
August	7.9	S.	47	N.	1	10	10	6	5	9	15	2	4	1	11	12	8	12	9	0	2	0	0	8	0	10	0
September	9.6	S.	36	NW.	0	2	9	2	9	22	9	1	5	1	13	9	8	6	6	0	0	2	0	1	0	4	0
October	10.0	SE.	38	NW.	0	5	5	9	14	10	9	4	6	0	17	9	5	7	4	0	0	0	0	0	0	2	0
November	11.6	SE.	44	NW.	1	3	6	8	15	6	4	7	11	0	12	11	7	6	5	1	0	0	4	0	14	1	0
December	12.2	NW.	48	NW.	2	5	6	3	7	8	7	14	12	0	15	9	7	8	3	3	0	0	6	0	27	0	0
Year	10.0	S.	52	W.	8	81	79	54	86	174	78	74	98	6	138	112	115	112	84	15	3	8	20	24	90	45	0

ST. PAUL, MINN.

[H=837 ft.; h_t=102 ft.; h_r=93 ft.; h_a=122 ft.]

January	8.6	NW.	35	NW.	0	2	3	0	18	3	4	6	26	0	9	6	16	9	2	9	0	2	25	0	31	0	0
February	8.1	NW.	36	NW.	0	1	1	2	11	6	6	10	19	0	16	7	5	7	3	6	0	1	22	0	28	0	0
March	8.2	NW.	30	NW.	0	5	3	1	19	4	3	6	21	0	9	6	16	7	5	2	0	1	2	0	20	2	0
April	9.3	NW.	36	NW.	0	11	6	5	14	2	3	1	17	1	14	3	13	16	15	4	0	0	0	0	8	2	0
May	8.0	SE.	25	S.	0	3	12	6	21	7	3	2	8	0	9	11	8	13	11	0	0	0	0	0	0	5	0
June	5.8	NW.	30	NW.	0	7	7	8	12	4	8	4	10	0	16	8	6	7	5	0	0	0	0	0	0	3	0
July	7.1	NW.	46	NW.	2	6	5	1	17	5	5	5	18	0	12	11	8	8	7	0	0	1	0	1	0	6	0
August	6.7	NW.	36	NW.	0	7	5	11	9	7	4	3	16	0	11	9	11	13	11	0	0	1	0	0	0	6	0
September	8.2	SE.	28	NW.	0	3	4	3	21	6	7	3	13	0	13	7	10	11	9	0	0	1	0	0	0	4	0
October	7.9	SE.	36	SW.	0	2	1	1	25	5	4	5	19	0	16	8	7	7	5	0	0	2	0	0	1	2	0
November	9.0	NW.	30	NW.	0	2	1	3	15	7	2	6	24	0	11	7	12	5	2	5	0	3	12	0	21	0	0
December	9.3	NW.	30	NW.	0	2	0	3	12	4	10	8	23	0	10	6	15	15	6	14	0	0	24	0	31	0	0
Year	8.0	NW.	46	NW.	2	51	48	44	194	60	59	59	214	1	146	92	127	118	81	40	0	12	85	1	140	30	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SALT LAKE CITY, UTAH.

[λ=40° 46′ N.; φ=111° 54′ 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	25.680	26.059	25.108	29.3	34.2	39.4	24.6	32.0	53	15	23	25	78	68	.126	.134	2.11	0.58	4.6	5.3	5.6
February	25.677	25.980	25.209	15.6	24.1	28.0	12.1	20.0	42	− 4	11	16	80	68	.072	.089	.82	.62	2.2	3.4	3.6
March	25.560	25.913	25.272	37.6	46.7	50.8	33.8	42.3	65	14	24	26	58	46	.128	.141	1.35	.50	4.4	7.3	6.8
April	25.540	25.853	25.285	42.1	54.5	58.7	37.7	48.2	80	25	27	22	56	31	.146	.124	1.11	.50	4.7	5.8	5.7
May	25.536	25.847	25.189	47.8	61.8	64.9	44.6	54.8	86	33	32	32	59	37	.187	.187	3.55	1.46	4.2	4.1	4.5
June	25.573	25.818	25.376	62.0	78.2	81.8	59.1	70.4	91	54	41	41	47	28	.257	.259	.74	.53	3.3	5.9	4.1
July	25.588	25.777	25.235	64.4	82.8	85.9	61.4	73.6	96	46	38	35	40	20	.240	.214	.14	.14	2.5	3.7	3.4
August	25.569	25.740	25.331	66.4	86.2	89.5	63.6	76.6	98	48	38	36	37	18	.235	.221	.43	.22	1.3	2.1	2.0
September	25.620	25.910	25.252	52.8	68.7	73.1	50.0	61.6	92	37	32	31	48	28	.187	.181	.84	.48	2.3	4.7	4.0
October	25.744	25.931	25.366	47.4	57.6	63.4	42.9	53.2	77	32	29	33	49	41	.161	.187	.81	.61	2.2	2.5	2.6
November	25.706	25.940	25.222	35.9	43.2	51.8	32.3	42.0	70	17	26	29	67	62	.140	.166	2.21	.98	3.3	5.4	5.0
December	25.821	26.130	25.334	26.0	31.7	36.9	22.2	29.6	45	14	20	24	78	72	.106	.127	.51	.22	3.5	3.5	4.2
Year	25.634	26.130	25.108	43.9	55.8	60.4	40.4	50.4	98	− 4	28	29	58	43	.165	.169	14.62	1.46	3.2	4.5	4.3

SAN ANTONIO, TEX.

[λ=29° 27′ N.; φ=98° 28′ W.]

January	29.343	29.773	28.950	43.8	56.0	61.0	41.7	51.4	81	27	39	41	83	62	.249	.282	2.39	.81	3.7	3.8	4.5
February	29.325	29.713	28.904	45.9	52.9	57.9	42.3	50.1	75	19	41	43	83	73	.279	.297	7.88	3.31	7.1	7.1	7.1
March	29.317	29.726	29.017	53.4	62.9	66.9	51.4	59.2	79	35	48	53	82	72	.355	.425	1.29	.82	6.8	7.4	7.0
April	29.242	29.628	28.861	59.8	72.0	76.5	57.7	67.1	89	44	52	56	78	60	.416	.475	1.74	1.68	7.3	5.8	6.0
May	29.179	29.599	28.991	65.3	76.7	81.0	63.0	72.0	88	44	60	62	84	63	.545	.578	1.95	1.20	6.5	6.0	5.9
June	29.196	29.412	28.922	68.6	81.9	85.9	65.7	75.8	99	54	64	63	85	58	.597	.597	4.75	1.55	4.8	4.3	4.5
July	29.234	29.357	28.974	73.7	84.4	88.8	70.8	79.8	96	65	70	70	89	64	.739	.739	7.52	2.95	5.8	3.6	5.0
August	29.235	29.424	29.088	73.6	84.3	90.6	71.8	81.2	96	69	70	70	88	63	.730	.732	.20	.11	5.9	3.2	4.0
September	29.279	29.569	29.045	68.1	80.7	87.3	66.1	76.7	92	50	63	62	86	55	.602	.573	2.96	2.17	5.6	4.6	4.6
October	29.332	29.630	28.987	58.9	72.1	80.1	56.7	68.4	94	40	51	52	76	53	.411	.424	1.61	.64	4.5	3.3	4.0
November	29.375	29.859	29.052	51.6	64.8	71.4	49.1	60.2	87	31	43	44	75	49	.321	.321	T.	T.	3.8	2.8	4.2
December	29.419	29.759	29.061	46.8	58.2	64.7	43.7	54.2	77	33	38	38	72	51	.250	.252	.92	.66	5.1	4.9	4.8
Year	29.290	29.859	28.861	59.1	70.6	76.0	56.7	66.3	99	19	53	54	82	60	.458	.475	33.11	3.31	5.6	4.7	5.1

SAN DIEGO, CAL.

[λ=32° 43′ N.; φ=117° 10′ W.]

January	29.972	30.134	29.774	50.6	60.4	64.6	49.0	56.8	78	43	40	48	70	68	.252	.348	.69	.30	3.7	4.4	3.3
February	29.946	30.149	29.664	46.3	56.7	60.1	44.4	52.2	75	35	41	44	82	65	.262	.303	2.27	1.05	4.1	4.2	2.6
March	29.922	30.064	29.748	52.1	60.3	64.2	51.1	57.6	72	42	44	50	78	71	.305	.373	1.17	.58	6.2	5.2	4.3
April	29.878	29.994	29.694	54.0	60.9	63.8	53.0	58.4	73	47	49	52	84	73	.349	.390	1.40	1.00	6.6	4.4	4.8
May	29.853	29.974	29.697	57.3	61.7	64.4	56.6	60.5	68	50	52	53	82	73	.387	.399	.14	.11	9.4	5.1	5.6
June	29.808	29.907	29.653	60.0	65.0	67.5	59.0	63.2	74	54	57	57	90	76	.466	.474	T.	T.	8.8	2.7	4.1
July	29.821	29.906	29.628	62.5	68.6	70.7	61.6	66.2	78	59	60	61	91	77	.513	.535	.00	.00	9.1	.5	2.3
August	29.795	29.875	29.634	64.6	70.0	73.1	63.6	68.4	85	60	61	61	89	74	.541	.545	T.	T.	7.6	1.8	1.8
September	29.821	29.896	29.672	64.2	69.5	72.9	62.9	67.9	83	56	60	61	88	76	.524	.542	T.	T.	6.8	3.5	3.5
October	29.881	30.023	29.735	58.8	66.6	70.1	56.9	63.5	84	51	54	58	88	77	.433	.490	.07	.05	5.9	1.8	2.0
November	29.930	30.089	29.789	55.6	63.3	69.2	53.9	61.6	84	45	46	55	76	76	.331	.440	T.	T.	4.6	2.4	2.7
December	29.979	30.152	29.800	51.2	61.6	66.8	48.9	57.8	75	44	32	42	56	58	.204	.303	.35	.33	2.5	2.5	1.9
Year	29.884	30.152	29.628	56.4	63.7	67.3	55.1	61.2	85	35	50	54	81	72	.381	.428	6.09	1.05	6.3	3.2	3.2

SAND KEY, FLA.[a]

[λ=24° 27′ N.; φ=81° 53′ W.]

January																					
February																					
March																					
April																					
May																					
June	29.923	30.065	29.815	81.8	.....	85.2	76.7	81.0	93	69	75	.....	81	.....	.877	.....	2.91	.78	4.3	.....	5.0
July	29.979	30.070	29.933	83.0	.....	86.0	78.6	82.3	92	72	77	.....	82	.....	.923	.....	1.41	.49	4.6	.....	5.2
August	29.960	30.152	29.852	83.1	.....	87.7	79.3	83.5	93	71	76	.....	79	.....	.893	.....	3.76	1.37	4.5	.....	4.8
September	29.931	30.037	29.835	81.8	.....	86.5	77.5	82.0	94	72	72	.....	78	.....	.797	.....	3.72	1.45	5.7	.....	5.8
October	29.926	30.168	29.750	76.5	.....	80.1	74.1	77.1	87	63	68	.....	77	.....	.705	.....	1.56	.56	4.3	.....	4.6
November	29.978	30.096	29.858	72.6	.....	76.1	69.7	72.9	82	52	64	.....	75	.....	.607	.....	.61	.48	3.2	.....	4.4
December	30.054	30.205	29.861	65.8	.....	70.8	62.9	66.8	79	56	60	.....	82	.....	.580	.....	.31	.14	3.4	.....	4.6
Year																					

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SALT LAKE CITY, UTAH.

[H=4,366 ft.; h_t=105 ft.; h_r=97 ft.; h_a=110 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	4.8	SE.	44	N.	1	2	1	3	29	5	1	3	17	1	10	9	12	11	8	8	0	1	7	0	27	0	0
February	4.5	SE.	27	NW.	0	2	4	3	17	5	3	9	13	0	16	6	6	9	2	9	0	1	19	0	28	0	0
March	6.8	SE.	29	NW.	0	2	5	5	27	8	6	2	7	0	5	9	17	5	5	4	0	0	0	0	14	3	0
April	7.3	SE.	36	N.	0	11	4	1	20	3	5	2	13	1	6	17	7	8	7	3	0	0	0	0	6	2	0
May	6.1	NW.	36	N.	0	9	5	9	10	7	1	4	16	1	13	8	10	9	8	1	2	0	0	0	0	5	0
June	6.6	SE.	34	E.	0	6	9	10	14	3	1	2	15	0	14	14	2	2	2	0	2	0	0	1	0	6	0
July	7.2	SE.	47	N.	3	5	5	14	18	5	1	3	11	0	18	10	3	1	1	0	0	0	0	12	0	3	0
August	6.2	SE.	35	S.	0	4	5	4	28	4	0	0	17	0	22	9	0	5	4	0	0	0	0	15	0	6	0
September	6.3	SE.	40	NW.	1	8	4	4	17	6	1	4	16	0	14	9	7	7	4	0	0	0	0	3	0	3	0
October	5.3	SE.	36	SW.	0	6	0	10	19	2	3	10	10	2	21	5	5	6	3	0	0	0	0	0	1	0	1
November	5.4	SE.	57	NW.	1	5	1	5	24	3	4	6	8	4	14	5	11	8	5	6	1	1	0	0	14	0	0
December	3.7	SE.	25	NW.	0	6	4	6	21	1	5	1	17	1	16	5	10	6	3	5	0	9	2	0	30	0	0
Year	5.8	SE.	57	NW.	6	66	47	74	244	52	31	46	160	10	169	106	90	77	52	36	5	12	28	31	120	28	1

SAN ANTONIO, TEX.

[H=701 ft.; h_t=80 ft.; h_r=72 ft.; h_a=91 ft.]

January	7.3	N.	36	N.	0	10	5	2	12	9	5	7	10	2	13	9	9	11	5	0	0	6	0	0	1	0	0
February	9.1	N.	44	NW.	1	10	13	5	12	1	2	4	9	0	6	5	17	16	12	0	0	1	0	0	2	5	0
March	8.1	SE.	37	N.	0	15	14	6	20	1	1	2	3	0	3	11	17	7	5	0	0	3	0	0	0	3	0
April	8.0	SE.	33	NW.	0	11	8	2	31	4	1	0	3	0	5	15	10	3	2	0	0	2	0	0	0	2	0
May	7.9	SE.	32	NE.	0	8	6	3	31	1	0	1	10	2	8	7	16	10	5	0	0	1	0	0	0	7	0
June	6.7	SE.	44	N.	1	12	12	10	15	3	4	1	1	2	13	10	7	8	7	0	0	0	0	12	0	8	0
July	5.8	SE.	34	NE.	0	0	4	6	48	2	0	0	1	1	10	12	9	10	10	0	0	1	0	13	0	9	0
August	6.1	SE.	31	N.	0	1	6	8	42	3	0	1	0	1	10	21	0	7	2	0	0	0	0	20	0	6	0
September	6.7	SE.	26	SE.	0	3	7	18	31	1	0	0	0	0	12	10	8	4	4	0	0	0	0	9	0	3	0
October	6.7	SE.	38	N.	0	9	11	10	23	0	0	2	6	1	14	14	3	5	3	0	0	1	0	1	0	4	0
November	6.7	SE.	30	N.	0	14	7	7	19	6	4	0	3	0	14	8	8	0	0	0	0	4	0	0	1	0	0
December	7.2	SE.	32	N.	0	12	8	4	10	7	8	2	10	1	13	7	11	8	3	0	0	2	0	0	0	0	0
Year	7.2	SE.	44	NW.	2	105	101	81	294	38	25	20	56	10	121	129	115	89	58	0	0	21	0	55	4	47	0

SAN DIEGO, CAL.

[H=87 ft.; h_t=94 ft.; h_r=86 ft.; h_a=102 ft.]

January	5.1	NE.	24	S.	0	4	15	9	4	2	2	6	18	2	21	3	7	4	3	0	0	0	0	0	0	0	0
February	5.9	NE.	34	NW.	0	5	10	10	5	1	3	9	15	0	18	8	2	9	9	0	3	0	0	0	0	0	0
March	6.1	NW.	31	S.	0	10	9	5	4	7	2	3	22	0	17	7	7	7	7	0	0	2	0	0	0	0	0
April	6.8	NW.	33	SW.	0	4	5	2	5	3	11	11	19	0	14	7	9	6	4	0	0	2	0	0	0	0	0
May	6.3	SW.	28	S.	0	3	3	1	5	7	13	16	13	1	12	9	10	3	1	0	0	0	0	0	0	0	0
June	5.6	SW.	20	NW.	0	7	0	0	6	4	19	12	12	0	17	9	4	0	0	0	0	0	0	0	0	0	0
July	6.2	NW.	22	NW.	0	10	2	1	1	2	12	9	24	1	27	4	0	0	0	0	0	0	0	0	0	0	0
August	5.4	NW.	20	NW.	0	6	0	0	4	15	11	26	0	26	4	1	0	0	0	0	0	0	0	0	0	1	0
September	5.8	NW.	21	SW.	0	7	0	0	1	7	12	7	26	0	20	5	5	0	0	0	0	0	0	0	0	0	0
October	5.3	NW.	20	NW.	0	13	6	5	3	2	7	2	23	1	26	3	2	2	1	0	0	8	0	0	0	0	0
November	5.1	NW.	21	NW.	0	7	20	5	0	3	3	4	18	0	23	5	2	0	0	0	0	3	0	0	0	0	0
December	5.5	NE.	26	NE.	0	8	17	7	0	3	3	4	19	1	26	1	4	2	1	0	0	2	0	0	0	0	0
Year	5.8	NW.	34	NW.	0	84	87	45	84	45	102	94	233	6	247	65	53	33	26	0	3	17	0	0	0	1	0

SAND KEY, FLA.

[H=25 ft.; h_t=40 ft.; h_r=41 ft.; h_a=75 ft.]

January																											
February																											
March																											
April																											
May																											
June	10.6	SE.	44	SE.	1	0	3	5	9	5	7	1	0	0	10	14	6	11	9	0	0	0	0	2	0	6	0
July	12.1	E.	40	S.	1	0	1	14	7	2	5	1	1	0	6	21	4	11	8	0	0	0	0	1	0	11	0
August	11.5	SE.	62	SE.	3	1	2	9	12	7	0	0	0	0	4	17	5	13	9	0	0	0	0	8	0	2	0
September	12.8	E.	48	SE.	1	3	8	6	3	3	6	1	0	0	7	13	10	15	13	0	0	0	0	5	0	5	0
October	19.0	NE.	40	E.	1	2	21	6	1	1	0	0	0	0	12	13	6	7	6	0	0	0	0	0	0	2	0
November	17.4	NE.	46	NE.	5	8	19	4	0	0	1	0	3	0	10	16	4	5	2	0	0	2	0	0	0	1	0
December	18.1	NE.	56	N.	1	5	19	2	1	0	2	1	1	0	10	15	6	4	2	0	0	1	0	0	0	1	0
Year																											

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SANDUSKY, OHIO.[a]

[λ=41° 25′ N.; φ=82° 40′ 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	29.265	29.773	28.468	23.9	.....	32.0	19.7	25.8	59	— 5	20	....	82	.....	.115	.....	1.62	.50	6.8	.....	6.7	
February	29.361	29.915	28.563	26.2	.....	34.6	22.1	28.4	61	— 4	22	....	83	.....	.133	.....	3.67	1.01	5.7	.....	4.8	
March	29.488	29.796	29.117	39.0	.....	49.6	35.5	42.6	77	22	34	....	84	.....	.210	.....	1.77	.43	6.0	.....	6.0	
April	29.237	29.728	28.724	45.5	.....	55.6	41.2	48.4	81	26	38	....	76	.....	.235	.....	3.96	1.81	5.3	.....	4.2	
May	29.417	29.770	29.178	59.4	.....	69.5	53.6	61.6	86	32	49	....	70	.....	.369	.....	1.43	.76	2.8	.....	2.2	
June	29.260	29.594	29.002	61.3	.....	69.9	57.3	63.6	89	48	55	....	79	.....	.433	.....	3.79	1.11	6.5	.....	5.0	
July	29.302	29.559	28.878	70.9	.....	81.0	65.0	73.0	94	54	62	....	73	.....	.558	.....	4.45	2.41	4.7	.....	3.0	
August	29.311	29.650	29.120	66.8	.....	76.5	62.1	69.3	90	52	59	....	76	.....	.507	.....	6.32	3.73	3.7	.....	3.2	
September	29.442	29.720	29.199	61.1	.....	75.2	56.3	65.8	91	42	52	....	73	.....	.409	.....	1.27	.82	3.0	.....	2.4	
October	29.411	29.790	29.037	50.5	.....	61.8	48.1	55.0	79	28	42	....	74	.....	.289	.....	2.04	1.25	4.9	.....	3.5	
November	29.416	29.998	28.968	34.3	.....	45.0	31.7	38.4	68	14	28	....	79	.....	.168	.....	1.47	.84	6.6	.....	5.6	
December	29.342	29.790	28.743	21.4	.....	29.4	17.2	23.3	45	2	17	....	80	.....	.095	.....	1.78	.65	7.9	.....	7.8	
Year	29.354	29.998	28.468	46.7	.....	56.7	42.5	49.6	94	— 5	40	....	77	.....	.293	.....	33.57	3.73	5.3	.....	4.5	

SAN FRANCISCO, CAL.

[λ=37° 48′ N.; φ=122° 26′ W.]

January	30.010	30.246	29.478	46.0	50.1	52.6	43.2	47.9	59	37	44	45	92	83	.290	.302	3.73	1.01	4.5	5.5	5.5	
February	29.981	30.232	29.602	44.8	52.9	55.2	42.6	48.9	66	37	37	38	75	60	.227	.241	1.76	.74	3.2	2.9	3.3	
March	29.857	30.083	29.569	49.1	54.1	56.9	47.5	52.2	64	41	45	44	86	70	.301	.296	6.23	1.30	6.5	6.6	6.6	
April	29.898	30.075	29.588	49.7	55.8	60.0	47.9	54.0	71	42	43	45	79	68	.283	.302	.56	.39	2.8	3.6	3.2	
May	29.826	29.975	29.655	50.2	56.8	61.8	48.6	55.2	77	46	46	48	87	74	.314	.336	T.	T.	4.4	2.4	2.8	
June	29.805	30.011	29.626	53.1	60.5	65.3	51.7	58.5	96	48	50	50	90	70	.359	.356	T.	T.	4.2	1.9	2.7	
July	29.836	29.948	29.624	53.2	58.7	63.6	50.8	57.2	91	48	49	50	90	76	.351	.368	.00	.00	6.5	2.1	3.6	
August	29.783	29.899	29.551	53.1	59.0	63.9	51.4	57.6	77	46	51	52	94	80	.379	.396	T.	T.	6.5	2.3	3.6	
September	29.798	29.921	29.610	55.6	62.2	68.4	53.7	61.0	92	50	52	52	89	70	.391	.382	T.	T.	3.6	2.8	3.6	
October	29.900	30.103	29.697	56.7	62.7	69.1	54.9	62.0	85	51	53	53	90	74	.409	.404	.17	.15	4.1	2.3	3.0	
November	29.960	30.188	29.709	54.2	58.1	60.8	52.4	56.6	67	46	50	52	88	80	.372	.387	4.25	2.39	6.7	6.0	6.6	
December	30.038	30.224	29.795	49.6	55.1	57.5	47.3	52.4	66	42	45	46	86	74	.305	.311	1.63	1.06	3.5	3.2	3.9	
Year	29.891	30.246	29.478	51.3	57.2	61.3	49.3	55.3	96	37	47	48	87	73	.332	.340	18.33	2.39	4.7	3.5	4.0	

SAN LUIS OBISPO, CAL.

[λ=35° 18′ N.; φ=120° 39′ W.]

January	29.931	30.104	29.676	48.6	59.6	65.5	44.6	55.0	81	30	37	42	69	57	.233	.275	3.67	1.38	1.9	3.3	3.5	
February	29.908	30.106	29.607	41.4	55.4	61.0	37.1	49.0	73	26	33	36	78	51	.194	.226	3.18	1.34	0.8	2.6	2.4	
March	29.839	30.032	29.556	46.7	57.5	62.7	44.3	53.5	76	35	43	46	86	67	.280	.318	4.98	1.04	5.0	5.7	5.9	
April	29.827	29.985	29.524	48.5	58.6	66.0	45.4	55.7	80	36	41	45	77	62	.263	.306	1.66	.80	2.0	2.3	2.7	
May	29.785	29.935	29.637	50.4	59.3	65.9	46.9	56.4	84	36	46	49	86	69	.311	.345	.00	.00	4.6	3.1	4.4	
June	29.716	29.900	29.588	54.2	66.2	76.4	50.3	63.4	98	45	48	51	83	59	.336	.378	T.	T.	2.2	1.0	2.8	
July	29.780	29.866	29.536	51.3	65.6	73.2	48.7	61.0	87	42	48	51	90	59	.336	.369	.00	.00	3.3	0.3	1.8	
August	29.719	29.850	29.526	53.4	70.3	77.5	51.3	64.4	94	44	50	53	91	55	.368	.401	.00	.00	4.9	0.0	1.9	
September	29.745	29.837	29.572	54.6	69.2	76.7	51.8	64.2	91	43	50	52	86	58	.362	.396	T.	T.	4.2	1.3	2.6	
October	29.881	30.000	29.645	53.5	67.2	76.9	50.4	63.6	97	41	48	52	85	60	.341	.389	.02	.02	2.8	1.7	2.4	
November	29.897	30.073	29.668	52.8	62.2	70.6	49.7	60.2	87	38	45	48	77	64	.308	.354	.48	.26	2.4	4.3	4.2	
December	29.941	30.160	29.725	44.5	62.5	69.8	40.6	55.2	79	32	32	36	67	48	.191	.227	.32	.32	0.8	1.4	1.7	
Year	29.829	30.160	29.524	50.0	62.8	70.2	46.8	58.5	98	26	43	47	81	59	.294	.332	14.31	1.38	2.9	2.2	3.0	

SANTA FE, N. MEX.

[λ=35° 41′ N.; φ=105° 57′ W.]

January	23.203	23.483	22.895	24.2	32.5	39.5	21.2	30.4	49	13	13	17	59	52	.075	.093	.11	.04	2.4	2.7	2.8	
February	23.117	23.473	22.772	26.9	29.6	35.9	17.0	26.4	47	— 4	12	17	66	59	.072	.094	1.31	.35	2.9	3.8	3.6	
March	23.211	23.511	22.920	30.0	45.7	49.9	28.6	39.2	64	4	19	18	64	35	.108	.104	1.32	.58	3.3	3.2	3.2	
April	23.189	23.484	22.948	39.0	52.6	57.6	36.5	47.0	68	22	23	19	52	28	.124	.105	.67	.44	3.3	4.1	3.6	
May	23.199	23.503	22.918	45.7	62.2	65.9	42.5	54.2	75	33	27	20	49	22	.150	.116	.17	.08	1.7	3.2	2.7	
June	23.319	23.457	23.144	53.9	66.0	71.7	50.7	61.2	89	42	42	40	67	47	.268	.258	3.87	1.15	4.0	5.5	4.4	
July	23.370	23.490	23.082	61.8	76.7	82.3	59.0	70.6	88	46	42	40	50	29	.277	.238	.56	.24	0.8	4.7	2.6	
August	23.364	23.504	23.201	60.3	78.9	80.3	58.6	69.4	89	52	44	42	56	34	.291	.270	1.18	.66	2.2	4.2	3.5	
September	23.335	23.493	23.067	50.0	64.8	70.3	48.6	59.4	82	37	35	33	58	34	.212	.199	.55	.15	3.3	3.8	3.7	
October	23.351	23.506	23.051	40.4	55.3	63.3	39.0	51.2	73	27	22	21	48	26	.119	.111	.02	.02	0.4	1.6	1.0	
November	23.312	23.474	23.008	33.5	45.4	55.3	31.6	43.4	65	8	15	17	44	30	.081	.090	.00	.00	0.5	1.1	1.1	
December	23.294	23.508	22.892	23.5	33.1	42.9	20.7	31.8	56	8	8	14	49	42	.059	.080	.03	.02	0.5	0.7	0.6	
Year	23.272	23.506	22.772	40.3	53.2	59.6	37.8	48.7	89	— 4	25	25	55	36	.153	.148	9.79	1.15	2.1	3.2	2.7	

[a] 8 a. m. observations.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SANDUSKY, OHIO.

[H=629 ft.; h_t=62 ft.; h_r=55 ft.; h_a=70 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	9.2	SW.	34	W.	0	1	0	3	1	4	12	7	3	0	7	6	18	16	10	11	0	2	13	0	27	0	0
February	9.9	SW.	36	NW.	0	2	2	3	0	5	10	4	2	0	12	7	9	14	9	6	0	0	10	0	22	1	0
March	7.6	SW.	32	NW.	0	2	4	4	1	7	8	3	2	0	8	10	13	13	7	1	0	3	1	0	7	1	0
April	9.8	NE.	36	W.	0	6	7	4	1	2	5	5	0	0	14	9	7	14	11	2	0	1	0	0	3	2	0
May	8.1	NE.	38	W.	0	1	6	5	2	9	5	3	0	0	25	4	2	6	5	0	1	1	0	0	0	4	0
June	7.7	E.	29	W.	0	5	2	7	1	3	3	6	3	0	15	4	11	16	10	0	0	0	0	0	0	4	0
July	7.3	NW.	35	NW.	0	3	0	2	1	5	5	9	6	0	20	10	1	11	8	0	0	0	0	5	0	6	0
August	7.1	NE.	27	NW.	0	2	3	6	2	3	6	7	2	0	15	13	3	14	8	0	0	0	0	0	0	5	0
September	7.3	SW.	35	W.	0	2	1	1	1	10	10	3	2	0	19	9	2	6	5	0	0	0	0	1	0	3	0
October	9.1	SW.	34	NW.	0	5	2	1	1	2	16	1	3	0	18	6	7	7	7	0	0	0	0	0	1	2	0
November	8.7	SW.	33	NW.	0	4	0	0	1	6	10	7	2	0	9	9	12	7	4	3	0	0	9	0	14	1	0
December	9.2	SW.	35	NW.	0	0	0	0	3	3	11	9	5	0	2	9	20	13	7	11	0	0	20	0	30	0	0
Year	8.4	SW.	38	W.	0	33	27	36	15	59	101	64	30	0	164	96	105	137	91	34	1	7	53	6	104	29	0

SAN FRANCISCO, CAL.

[H=155 ft.; h_t=161 ft.; h_r=154 ft.; h_a=167 ft.]

January	7.6	N.	34	S.	0	16	1	1	7	4	5	13	15	0	11	7	13	12	10	0	0	6	0	0	0	0	0
February	7.3	N.	30	W.	0	16	4	1	5	2	0	13	15	0	15	11	2	7	5	0	1	4	0	0	0	1	0
March	7.8	W.	33	W.	0	10	1	6	9	9	8	17	2	0	6	10	15	16	12	0	1	0	0	0	0	0	0
April	10.7	W.	35	W.	0	4	2	1	4	2	6	31	10	0	18	7	5	3	2	0	0	0	0	0	0	0	0
May	13.5	W.	42	W.	1	1	0	0	0	2	10	47	1	1	21	6	4	0	0	0	0	0	0	0	0	0	0
June	14.9	W.	40	W.	1	0	0	1	0	2	6	50	0	1	18	10	2	0	0	0	0	0	0	1	0	0	0
July	13.3	W.	37	W.	0	2	0	0	0	1	20	38	0	1	15	13	3	0	0	0	0	0	0	1	0	0	0
August	13.4	W.	36	W.	0	0	0	0	0	0	22	40	0	0	16	11	4	0	0	0	0	0	0	0	0	0	0
September	10.2	W.	34	W.	0	0	0	0	0	5	12	42	1	0	17	7	6	0	0	0	0	1	0	1	0	0	0
October	8.0	W.	30	S.	0	2	1	0	2	1	8	44	1	3	17	12	2	2	1	0	0	3	0	0	0	1	0
November	7.8	W.	32	SW.	0	9	3	3	7	9	4	18	7	0	9	6	15	11	10	0	0	5	0	0	0	0	0
December	5.6	N.	26	SE.	0	22	3	7	8	1	3	5	13	0	15	8	8	6	5	0	0	2	0	0	0	0	0
Year	10.0	W.	42	W.	2	82	15	20	42	38	104	358	65	6	178	108	79	57	45	0	2	22	0	3	0	2	0

SAN LUIS OBISPO, CAL.

[H=201 ft.; h_t=46 ft.; h_r=39 ft.; h_a=48 ft.]

January	6.1	N.	24	W.	0	31	0	0	0	10	0	15	3	3	18	6	7	7	6	0	0	0	0	0	1	0	0
February	5.2	N.	28	N.	0	24	0	2	0	9	0	18	2	1	20	5	3	5	5	0	0	1	0	0	7	0	0
March	4.5	W.	20	S.	0	17	0	3	0	19	0	20	0	3	7	12	12	14	14	0	0	0	0	0	0	1	0
April	6.4	W.	23	W.	0	14	0	0	1	10	0	32	3	0	20	7	3	3	3	0	0	2	0	0	0	0	0
May	5.8	W.	28	W.	0	15	0	0	0	13	0	34	0	0	14	8	9	0	0	0	0	4	0	0	0	1	0
June	5.5	W.	19	N.	0	14	0	0	0	9	0	32	2	3	20	7	3	0	0	0	0	7	0	4	0	1	0
July	5.1	W.	19	W.	0	7	0	0	0	7	0	42	5	1	31	0	0	0	0	0	0	11	0	0	0	0	0
August	3.8	W.	18	N.	0	4	0	0	0	22	0	34	2	0	30	1	0	0	0	0	0	5	0	1	0	0	0
September	3.7	W.	20	W.	0	12	0	0	0	21	0	27	0	0	23	3	4	0	0	0	0	5	0	2	0	0	0
October	4.5	N.	25	N.	0	26	0	0	0	18	0	17	1	0	24	4	3	1	0	0	0	10	0	2	0	0	0
November	5.3	N.	20	N.	0	29	0	1	0	13	0	13	4	0	15	6	9	6	4	0	0	6	0	0	0	0	0
December	4.7	N.	23	N.	0	26	0	4	0	15	0	15	2	0	24	5	2	1	1	0	0	2	0	0	0	0	0
Year	5.1	W.	28	W.	0	219	0	10	1	166	0	299	24	11	246	64	55	37	33	0	0	53	0	9	8	3	0

SANTA FE, N. MEX.

[H=7,013 ft.; h_t=47 ft.; h_r=39 ft.; h_a=50 ft.]

January	7.3	NW.	28	NW.	0	18	15	1	7	5	4	2	9	1	20	9	2	5	1	5	0	0	2	0	29	0	0
February	8.0	SE.	46	S.	1	10	10	1	11	7	6	4	6	1	17	5	6	9	6	9	0	0	9	0	28	0	0
March	7.1	NW.	36	S.	0	10	7	5	12	8	6	3	11	0	20	7	4	8	7	3	0	0	1	0	17	1	0
April	8.6	SE.	39	SE.	0	2	5	4	15	6	13	7	8	0	14	13	3	6	5	4	0	1	0	0	6	3	0
May	8.1	SW.	39	SW.	0	2	5	6	15	10	13	1	10	0	22	8	1	6	2	0	0	1	0	0	0	4	0
June	5.9	E.	27	S.	0	3	11	9	13	2	7	7	7	1	15	9	6	15	12	0	0	2	0	0	0	9	0
July	7.1	SE.	31	SE.	0	7	11	8	17	7	5	3	4	0	20	11	0	6	5	0	0	0	0	0	0	18	0
August	6.3	SE.	34	SE.	0	7	7	10	17	5	6	4	6	0	15	14	2	7	3	0	0	0	0	0	0	15	0
September	5.8	SW.	28	SW.	0	7	11	7	7	11	11	2	4	0	14	11	5	10	6	0	0	0	0	0	0	2	0
October	5.9	SE.	34	SW.	0	3	11	9	14	9	8	4	4	0	28	3	0	1	0	0	0	0	0	0	2	0	0
November	5.7	SE.	26	SW.	0	9	11	8	18	2	3	1	6	2	26	4	0	0	0	0	0	0	0	0	0	0	0
December	6.2	NE.	25	NW.	0	10	18	4	15	5	4	1	4	1	31	0	0	2	0	2	0	0	1	0	31	0	0
Year	6.8	SE.	46	S.	1	88	122	72	161	77	86	39	79	6	242	94	29	75	47	28	4	0	13	0	124	52	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SAULT STE. MARIE, MICH.

[λ=46° 30′ N.; φ=84° 21′ 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	29.158	29.670	28.518	14.2	18.6	23.7	9.1	16.4	37	− 9	6	14	79	81	.072	.087	1.46	.44	8.2	8.8	7.7
February	29.292	29.806	28.526	12.7	19.3	25.2	8.4	16.8	43	−20	8	13	79	74	.071	.087	1.02	.35	7.5	5.2	6.1
March	29.483	29.837	28.927	27.5	32.5	37.2	25.0	31.1	50	− 1	23	27	82	78	.128	.147	3.01	1.01	6.8	8.5	6.1
April	29.274	29.626	28.620	35.3	40.7	47.2	31.6	39.4	68	14	25	26	66	57	.139	.141	1.19	.39	5.9	4.9	5.0
May	29.393	29.768	28.741	47.8	53.8	62.5	41.1	51.8	83	21	39	42	72	66	.250	.281	2.61	.55	6.2	5.6	5.4
June	29.283	29.731	28.853	55.2	60.8	67.7	47.3	57.5	81	40	45	46	71	60	.311	.316	1.49	.59	5.1	5.0	3.8
July	29.262	29.561	28.898	60.2	64.4	70.6	54.9	62.8	87	48	54	54	80	70	.421	.423	4.66	1.69	6.1	5.5	5.0
August	29.300	29.721	28.897	57.1	61.5	66.9	52.6	59.8	79	46	52	52	83	72	.389	.397	3.37	1.04	7.9	5.8	6.4
September	29.339	29.607	28.881	51.4	54.4	62.9	46.3	54.6	77	34	46	46	82	75	.321	.328	3.31	1.11	7.1	6.0	6.7
October	29.323	29.762	28.686	42.4	46.9	54.1	37.4	45.8	66	29	38	39	84	74	.240	.243	3.49	1.32	5.3	4.7	6.3
November	29.300	29.868	28.426	27.3	30.9	35.9	23.6	29.8	62	4	22	24	79	78	.125	.136	1.69	.63	6.4	7.0	7.9
December	29.194	29.618	28.603	14.3	18.1	23.2	9.6	16.4	34	−17	10	12	78	74	.072	.075	1.74	.32	8.7	7.1	8.3
Year	29.296	29.868	28.426	37.1	41.8	48.1	32.2	40.2	87	−20	31	33	78	71	.212	.222	29.04	1.69	6.8	6.0	6.2

SAVANNAH, GA.

[λ=32° 5′ N.; φ=81° 5′ W.]

January	30.002	30.391	29.494	44.8	50.4	57.5	42.2	49.8	78	27	38	42	79	74	.259	.290	3.64	.82	7.0	5.3	6.7
February	30.083	30.480	29.327	50.0	54.8	63.5	47.2	55.4	80	26	44	47	81	76	.325	.345	4.08	1.83	6.7	4.3	6.0
March	30.067	30.370	29.615	59.1	62.6	70.5	57.3	63.9	81	45	54	57	86	82	.446	.475	5.53	3.34	6.5	4.7	6.4
April	29.913	30.313	29.402	58.1	64.1	72.7	54.6	63.6	83	45	50	50	75	63	.374	.389	1.53	.77	3.4	4.6	4.0
May	29.975	30.160	29.687	68.4	70.5	78.1	65.5	71.8	96	59	63	64	84	80	.580	.597	6.80	2.52	5 8	6.1	5.6
June	29.868	30.119	29.640	73.5	75.3	84.9	69.0	77.0	93	59	67	68	80	78	.669	.685	6.01	1.10	5.2	7.1	4.9
July	29.968	30.125	29.773	77.4	79.9	88.5	73.2	80.8	96	70	71	71	82	76	.760	.767	6.54	4.08	4.0	4.5	4.8
August	29.917	30.220	29.726	77.9	79.9	90.2	74.0	82.1	99	70	73	73	85	80	.807	.808	5.17	2.10	4.2	5.9	5.5
September	30.013	30.270	29.791	70.9	75.0	82.8	67.9	75.4	93	59	66	67	84	78	.645	.681	8.45	2.27	2.7	3.5	4.8
October	30.006	30.319	29.618	59.8	66.1	64.9	57.5	66.2	86	38	54	57	82	74	.448	.497	3.24	2.05	3.9	2.0	3.9
November	30.044	30.429	29.682	50.1	55.7	64.9	48.0	56.4	81	25	43	45	77	69	.325	.345	1.84	.84	3.8	3.6	4.3
December	30.086	30.337	29.587	40.4	48.1	57.3	37.9	47.6	71	26	32	34	70	60	.187	.208	1.34	.50	3.0	1.8	3.1
Year	29.994	30.480	29.327	60.9	65.2	73.8	57.9	65.8	99	25	55	56	80	74	.485	.506	53.67	4.08	4.7	4.4	5.0

SCRANTON, PA.

[λ=41° 24′ N.; φ=75° 42′ W.]

January	29.080	29.637	28.406	24.9	27.9	33.9	19.4	26.6	49	4	18	19	72	66	.108	.112	2.73	.85	8.0	6.7	7.5
February	29.167	29.618	28.389	26.5	31.8	37.6	22.5	30.0	64	− 3	20	21	75	63	.122	.126	3.54	1.13	7.7	5.0	6.9
March	29.332	29.675	28.739	40.8	46.5	54.9	36.8	45.8	72	24	34	36	76	68	.207	.226	4.40	2.07	7.4	4.8	7.4
April	29.048	29.521	28.458	43.2	50.7	57.1	38.0	47.6	86	23	32	33	66	53	.188	.198	2.55	1.00	5.1	5.6	5.6
May	29.287	29.594	29.064	56.0	64.8	72.9	48.6	60.8	88	27	43	42	62	46	.296	.290	.96	.35	3.5	4.9	4.1
June	29.086	29.500	28.765	59.8	65.3	71.8	54.5	63.2	84	46	53	54	79	69	.410	.430	7.73	3.04	6.6	6.5	7.4
July	29.105	29.337	28.802	67.2	71.9	80.7	59.3	70.0	92	44	59	60	76	68	.511	.535	4.89	1.46	5.3	6.0	5.3
August	29.160	29.563	28.918	61.9	66.7	73.9	56.8	65.4	90	44	57	58	83	76	.468	.498	6.03	1.47	7.2	7.2	7.2
September	29.291	29.554	28.824	56.7	64.3	73.0	51.0	62.0	87	34	51	56	83	72	.401	.448	1.27	.72	4.1	3.0	4.5
October	29.193	29.480	28.750	48.4	53.7	61.3	44.0	52.6	77	29	43	45	81	74	.297	.317	6.42	3.74	7.6	5.8	7.2
November	29.198	29.817	28.708	32.4	37.2	45.1	27.6	36.4	69	12	26	26	78	64	.154	.150	1.86	1.09	6.0	5.7	6.2
December	29.130	29.651	28.498	28.9	26.8	33.5	18.1	25.8	50	0	18	17	78	66	.106	.099	2.59	.69	9.0	6.3	7.6
Year	29.173	29.817	28.389	45.1	50.6	58.0	39.7	48.8	92	− 3	38	39	76	65	.272	.286	44.97	3.74	6.5	5.6	6.4

SEATTLE, WASH.

[λ=47° 38′ N.; φ=122° 20′ W.]

January	29.889	30.354	29.176	40.6	45.1	46.8	39.0	42.9	57	30	38	40	90	82	.234	.250	3.12	.69	6.0	8.1	7.8
February	30.080	30.321	29.300	35.6	44.7	46.6	33.8	40.2	58	24	32	33	88	65	.186	.193	1.45	.77	3.8	3.9	4.0
March	29.846	30.246	29.415	38.1	46.6	49.5	35.5	42.5	66	28	34	38	84	62	.196	.191	6.10	2.92	5.1	6.0	5.8
April	29.950	30.196	29.727	42.3	51.8	55.0	40.8	47.9	65	35	38	36	85	57	.231	.212	1.56	.51	8.3	6.4	5.9
May	29.945	30.300	29.678	47.6	59.5	62.6	46.6	54.6	77	41	44	44	89	59	.294	.297	2.39	.46	7.3	5.9	5.7
June	29.907	30.277	29.616	54.9	67.2	69.9	53.9	61.9	96	46	50	50	84	56	.362	.362	1.55	.51	7.5	5.8	5.7
July	29.962	30.156	29.700	54.5	68.4	70.0	53.8	61.9	82	49	50	51	86	55	.365	.372	1.28	.80	6.5	4.2	4.7
August	29.899	30.114	29.648	56.2	69.3	70.8	55.5	63.2	84	52	53	52	88	55	.398	.387	.50	.25	6.8	4.5	5.2
September	29.937	30.199	29.586	52.6	62.4	64.4	51.0	57.7	74	42	49	49	87	63	.345	.348	3.18	1.10	6.1	5.5	5.7
October	29.964	30.297	29.301	49.5	57.1	59.4	47.8	53.6	68	39	46	47	90	70	.317	.324	1.94	.57	4.6	4.6	5.1
November	29.836	30.356	28.878	44.1	47.5	50.4	41.5	46.0	66	33	40	41	88	79	.258	.260	7.34	1.45	6.9	8.3	7.9
December	30.092	30.459	29.563	40.9	44.9	46.8	38.4	42.6	56	32	38	40	90	82	.234	.243	4.14	1.28	5.4	6.4	7.3
Year	29.942	30.459	28.878	46.4	55.4	57.7	44.8	51.2	96	24	43	43	87	65	.285	.287	34.55	2.92	6.2	5.8	5.9

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SAULT STE. MARIE, MICH.

[H=614 ft.; h_t=40 ft.; h_r=85 ft.; h_a=61 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	9.1	E.	44	NW.	1	5	9	8	14	2	10	7	7	0	4	8	19	16	10	16	0	2	23	0	31	0	0
February	8.8	NW.	30	W.	0	3	5	8	6	3	12	7	12	0	9	8	11	10	7	9	0	1	21	0	28	0	0
March	8.7	SE.	38	W.	0	1	3	11	14	6	8	9	10	0	9	9	13	13	7	4	0	2	6	0	23	2	0
April	10.0	NW.	33	NW.	0	2	7	14	7	1	5	9	11	0	12	9	9	10	6	2	1	1	1	0	12	0	0
May	7.3	SE.	30	NW.	0	2	2	16	18	1	8	8	7	0	8	14	9	15	13	2	0	0	0	0	2	2	0
June	7.3	NW.	32	NW.	0	1	4	6	10	3	5	13	18	0	16	7	7	7	7	0	0	0	0	0	0	0	0
July	7.6	W.	33	NW.	0	0	3	11	7	2	3	15	21	0	14	5	12	13	10	0	0	1	0	0	0	7	0
August	7.1	NW.	32	SW.	0	2	7	14	3	3	9	11	13	0	7	11	13	12	10	0	0	0	0	0	6	1	1
September	8.9	NW.	49	NW.	1	2	1	11	12	1	7	8	18	0	9	5	16	15	12	0	0	2	0	0	0	3	0
October	8.8	NW.	45	W.	1	4	3	7	8	2	12	10	16	0	7	11	13	12	10	2	0	5	0	0	6	3	2
November	9.1	SW.	38	N.	0	5	10	5	9	4	10	9	8	0	1	9	20	12	8	10	0	4	13	0	21	0	0
December	9.9	E.	41	NW.	1	3	8	12	11	2	14	2	10	0	3	5	23	19	16	17	0	0	27	0	31	0	0
Year	8.6	NW.	49	NW.	4	34	62	123	119	30	103	108	151	0	99	101	165	154	116	62	1	18	91	0	154	23	3

SAVANNAH, GA.

[H=65 ft.; h_t=79 ft.; h_r=74 ft.; h_a=89 ft.]

January	7.9	W.	34	W.	0	8	10	3	3	2	9	19	8	0	5	11	15	11	9	0	0	4	0	0	2	0	0
February	9.4	SW.	48	W.	1	10	7	6	6	3	12	6	6	0	6	13	9	12	10	0	0	2	0	0	2	1	0
March	8.0	E.	43	NE.	1	6	12	14	9	10	5	3	3	0	2	21	8	13	6	0	0	3	0	0	0	1	0
April	9.4	SW.	32	W.	0	10	6	0	1	7	21	8	6	1	13	14	3	4	4	0	0	0	0	0	0	2	0
May	9.2	E.	35	NE.	0	1	15	14	7	9	8	7	1	0	10	9	12	9	8	0	0	0	0	0	3	4	0
June	7.2	SW.	31	NE.	0	6	1	1	6	13	19	11	3	0	7	19	4	17	13	0	0	2	0	0	3	18	0
July	6.8	SW.	27	E.	0	4	3	2	4	14	26	7	2	0	13	12	6	9	8	0	0	0	0	0	10	11	0
August	6.2	SW.	30	N.	0	6	7	2	3	9	19	15	1	0	8	13	10	15	14	0	0	0	0	0	14	19	0
September	7.5	N.	27	SW.	0	15	11	13	6	5	8	1	1	0	11	11	8	10	7	0	0	2	0	0	1	5	0
October	6.8	N.	30	N.	0	11	14	14	4	4	6	5	4	0	15	10	6	8	7	0	0	0	0	0	0	1	0
November	8.0	N.	27	E.	0	17	7	4	2	4	9	5	11	1	11	15	4	9	4	0	0	1	0	0	2	1	0
December	7.6	W.	32	W.	0	13	5	7	3	3	10	12	9	0	17	10	4	7	5	0	0	1	0	0	3	0	0
Year	7.8	SW.	48	W.	2	107	98	80	54	83	152	99	55	2	118	158	89	124	95	0	4	13	0	31	9	63	0

SCRANTON, PA.

[H=805 ft.; h_t=111 ft.; h_r=102 ft.; h_a=119 ft.]

January	8.8	SW.	38	W.	0	1	8	1	3	1	32	4	12	0	4	7	20	13	11	7	0	0	10	0	26	0	0
February	8.1	SW.	41	W.	1	5	9	5	2	2	20	6	7	0	7	7	14	11	9	4	0	1	8	0	21	0	0
March	7.2	SW.	31	W.	0	7	21	3	3	4	16	5	3	0	6	7	18	12	11	0	0	2	0	0	6	0	0
April	8.9	N.	36	SE.	0	17	17	4	4	4	9	0	5	0	12	5	13	7	7	1	0	0	0	0	3	1	0
May	7.0	NE.	34	NW.	0	11	19	11	4	3	10	2	2	0	14	10	7	8	4	0	0	0	0	0	1	4	0
June	5.5	NE.	20	S.	0	10	14	6	5	5	15	3	0	2	5	6	19	15	13	0	0	0	0	0	0	5	0
July	6.5	SW.	30	NW.	0	6	12	0	3	3	25	6	6	1	8	13	10	16	14	0	0	0	0	2	0	8	0
August	5.9	NE.	40	N.	1	4	16	10	1	6	19	2	3	1	3	14	14	17	17	0	0	1	0	1	0	3	0
September	6.0	SW.	36	SW.	0	8	16	2	2	4	15	7	4	2	15	9	6	4	3	0	0	1	0	0	0	2	0
October	8.0	SW.	33	NW.	0	9	19	1	4	5	13	4	7	0	7	4	20	9	8	0	0	2	0	0	2	0	0
November	6.5	SW.	29	NW.	0	9	11	2	2	3	13	8	12	0	8	7	15	8	6	3	0	0	5	0	18	0	0
December	9.1	SW.	33	NW.	0	3	10	2	0	6	29	7	5	0	2	10	19	12	9	12	0	0	13	0	27	0	0
Year	7.3	SW.	41	W.	2	90	172	47	33	46	216	54	66	6	91	99	175	132	112	27	0	7	36	3	104	23	0

SEATTLE, WASH.

[H=123 ft.; h_t=114 ft.; h_r=107 ft.; h_a=151 ft.]

January	9.1	SE.	34	S.	0	9	4	7	27	12	0	0	2	1	3	6	22	19	14	5	0	1	0	0	2	0	0
February	5.8	N.	38	SW.	0	8	10	8	9	4	1	4	12	0	15	8	5	7	4	2	0	5	0	0	18	0	0
March	7.4	N.	34	SE.	0	12	7	7	12	6	2	2	14	0	10	8	13	16	13	4	0	2	0	0	7	0	0
April	7.6	SE.	34	SE.	0	6	7	3	20	4	5	8	7	0	6	15	9	16	10	0	0	2	0	0	0	1	0
May	7.0	SE.	28	S.	0	6	3	5	22	10	5	3	8	0	7	17	7	18	14	0	0	0	0	0	0	0	0
June	6.4	SE.	29	SW.	0	9	0	2	19	5	7	7	11	0	8	12	10	9	6	0	0	0	0	1	0	1	0
July	5.9	W.	24	S.	0	4	10	8	12	6	6	13	8	0	12	12	7	6	5	0	0	0	0	0	0	1	0
August	5.1	W.	21	NW.	0	4	4	2	12	8	4	17	9	2	10	10	11	3	3	0	0	1	0	0	0	1	0
September	6.5	SE.	32	S.	0	5	7	3	19	6	1	6	12	1	8	11	11	14	10	0	0	2	0	0	0	0	0
October	6.2	SE.	36	SW.	0	16	5	8	15	5	5	4	4	0	11	10	10	9	7	0	0	10	0	0	0	0	1
November	8.5	SE.	40	SE.	1	5	3	8	30	6	3	2	3	0	2	9	19	22	20	2	0	3	0	0	0	0	0
December	5.9	SE.	28	S.	0	8	5	5	30	3	2	2	7	0	4	8	19	15	12	0	0	7	0	0	0	0	0
Year	6.8	SE.	40	SE.	1	92	65	61	227	75	41	68	97	4	96	126	143	154	118	13	0	33	0	1	22	4	1

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SHREVEPORT, LA.

[λ=32° 30′ N.; φ=93° 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	29.818	30.274	29.360	40.9	50.3	55.0	38.7	46.8	80	24	36	37	82	63	.227	.237	2.95	1.35	5.0	4.1	5.1
February	29.840	30.267	29.301	42.9	51.0	56.2	40.8	48.5	73	15	38	41	84	70	.235	.274	5.79	1.70	6.7	6.5	6.4
March	29.827	30.237	29.528	53.7	62.6	66.7	52.3	59.5	79	33	48	49	83	66	.363	.382	2.89	.95	7.0	6.1	6.6
April	29.718	30.050	29.375	57.8	70.2	74.9	55.1	65.0	85	43	50	48	75	48	.381	.367	1.41	1.38	4.6	3.5	4.4
May	29.681	30.097	29.497	64.1	73.9	78.0	61.7	69.8	87	42	59	60	85	64	.523	.533	1.65	.86	5.7	4.8	5.9
June	29.683	29.887	29.452	67.8	79.0	84.1	64.5	74.3	96	53	62	61	82	55	.562	.540	1.55	.48	5.9	4.5	5.4
July	29.741	29.879	29.580	74.9	82.4	90.8	71.5	81.2	97	67	70	70	86	68	.743	.731	3.32	.67	3.9	5.6	5.0
August	29.722	29.696	29.528	74.8	83.6	91.2	72.7	82.0	96	70	71	71	89	67	.765	.762	3.06	1.99	2.9	3.2	3.4
September	29.795	30.047	29.625	66.0	78.2	86.2	63.5	74.8	96	49	62	60	86	56	.571	.540	.35	.18	3.1	2.5	3.3
October	29.852	30.107	29.464	55.8	68.4	75.5	54.0	64.8	88	40	51	51	84	56	.403	.408	2.33	1.55	3.7	2.8	3.8
November	29.871	30.381	29.511	46.3	58.1	64.8	42.8	53.8	83	20	39	37	76	47	.277	.255	.04	.04	5.1	3.1	4.6
December	29.914	30.255	29.466	39.8	51.9	57.8	36.8	47.3	73	28	33	31	76	47	.200	.185	3.92	1.86	4.2	3.4	4.0
Year	29.787	30.381	29.301	57.1	67.5	73.4	54.5	64.0	97	15	52	51	82	59	.439	.434	29.26	1.99	4.8	4.2	4.8

SIOUX CITY, IOWA.[a]

[λ=42° 29′ N.; φ=96° 24′ W.]

January	28.763	29.099	28.427	17.5	.....	31.4	14.2	22.8	51	−6	15	....	88	....	.089	.....	.06	.04	4.9	.....	5.3
February	28.906	29.289	28.183	10.6	.....	25.2	7.2	16.2	45	−18	8	....	89	....	.068	.....	.06	.39	3.2	.....	4.8
March	28.878	29.214	28.568	29.2	.....	44.6	27.4	36.0	67	11	26	....	88	....	.145	.....	1.85	1.22	5.7	.....	6.2
April	28.695	29.126	28.308	41.1	.....	60.5	38.1	49.3	76	22	34	....	78	....	.207	.....	2.39	.80	5.3	.....	5.9
May	28.709	29.033	28.388	54.5	.....	69.7	51.8	60.8	81	34	49	....	83	....	.365	.....	11.78	2.83	6.2	.....	6.8
June	28.795	29.198	28.387	69.9	.....	75.8	56.9	66.9	93	49	55	....	84	....	.446	.....	5.66	2.83	4.2	.....	5.4
July	28.752	29.001	28.437	66.4	.....	81.9	63.1	72.5	93	51	61	....	84	....	.548	.....	5.57	1.82	5.0	.....	5.3
August	28.782	28.960	28.473	62.6	.....	77.7	60.6	69.2	90	47	60	....	90	....	.515	.....	5.67	2.16	6.4	.....	6.3
September	28.776	29.157	28.282	52.7	.....	71.2	50.3	60.8	86	33	48	....	86	....	.356	.....	3.06	1.50	4.8	.....	5.1
October	28.848	29.306	28.012	44.8	.....	65.1	42.4	53.8	84	31	39	....	81	....	.257	.....	3.24	2.02	3.8	.....	4.1
November	28.879	29.297	28.214	29.7	.....	42.4	27.0	34.7	68	5	24	....	79	....	.144	.....	.96	.45	4.9	.....	6.3
December	28.825	29.344	28.496	18.1	.....	32.2	10.6	21.4	48	−13	14	....	82	....	.083	.....	.21	.10	4.4	.....	5.7
Year	28.798	29.344	28.012	40.6	.....	56.5	37.4	47.0	93	18	36	....	84	.....	.269	.....	41.10	2.83	4.9	.....	5.6

SOUTHEAST FARALLON, CAL.[b]

[λ=37° 42′ N.; φ=123° 0′ W.]

January																					
February																					
March																					
April																					
May	30.008	30.170	29.753	(b)	51.7	52.6	49.3	51.0	56	47	(b)	49	(b)	92	(b)	.352	.00	.00	2.2	2.2	2.9
June	29.957	30.155	29.815	(b)	54.7	55.3	51.0	53.2	63	48	(b)	52	(b)	92	(b)	.394	.01	.01	3.5	2.1	2.5
July	29.969	30.088	29.794	53.2	56.0	56.3	52.4	54.4	64	49	52	53	98	89	.394	.398	.90	.00	6.7	4.2	4.3
August	29.909	30.000	29.682	52.2	54.4	54.9	51.6	53.2	60	49	52	52	98	91	.382	.381	T.	T.	4.5	3.2	3.3
September	29.931	30.051	29.715	53.8	56.4	57.7	53.1	55.4	69	49	53	54	98	91	.405	.411	T.	T.	3.3	3.6	4.7
October	30.023	30.208	29.831	56.3	57.7	59.4	55.0	57.2	80	51	56	56	98	94	.446	.444	.14	.13	4.4	4.7	6.0
November	30.068	30.290	29.762	(b)	56.5	57.7	53.7	55.7	61	49	(b)	55	(b)	96	(b)	.432	5.55	1.90	(b)	5.4	6.9
December	30.137	30.322	29.922	(b)	54.7	56.1	51.7	53.9	60	48	(b)	52	(b)	98	(b)	.394	1.78	1.43	(b)	4.0	4.1
Year																					

SPOKANE, WASH.

[λ=47° 40′ N.; φ=117° 25′ W.]

January	28.004	28.541	27.300	29.8	33.8	36.5	27.7	32.1	48	15	27	29	88	81	.145	.159	2.23	.55	8.2	8.6	8.9
February	28.125	28.416	27.603	22.0	34.7	36.8	18.6	27.7	52	4	19	28	88	61	.105	.124	.23	.20	4.6	5.5	6.0
March	27.896	28.314	27.466	32.5	44.9	47.5	30.5	39.0	66	18	26	26	76	48	.142	.146	1.22	.34	5.1	6.7	6.4
April	27.945	28.314	27.628	35.3	52.6	55.4	34.3	44.8	76	26	29	26	76	38	.157	.142	.40	.22	4.6	8.2	6.9
May	27.918	28.239	27.718	43.3	63.6	66.1	42.3	54.2	94	33	36	33	76	35	.215	.190	1.34	.50	5.5	7.5	7.0
June	27.945	28.312	27.615	56.0	76.0	78.4	54.9	66.6	91	45	46	41	70	31	.312	.268	1.35	.71	5.5	6.3	6.1
July	27.951	28.139	27.713	54.1	75.7	78.2	52.8	65.5	97	43	45	40	73	32	.301	.258	1.13	.76	4.5	5.3	5.2
August	27.908	28.123	27.695	55.8	78.1	80.2	54.4	67.3	96	47	46	42	70	31	.308	.269	1.90	.90	4.3	4.2	4.1
September	27.963	28.277	27.556	45.4	64.5	67.4	43.5	55.4	82	29	39	37	78	49	.227	.228	.83	.41	4.7	6.7	6.3
October	28.054	28.332	27.425	40.2	58.0	60.9	37.4	49.2	72	28	35	38	82	49	.205	.231	.79	.50	3.8	5.6	5.6
November	27.983	28.490	27.117	34.0	38.6	42.3	31.4	36.8	70	13	30	32	87	78	.174	.188	3.12	.84	7.8	8.7	9.0
December	28.190	28.489	27.744	29.6	32.7	35.1	27.5	31.3	54	20	28	30	94	88	.153	.163	2.01	.51	7.1	8.0	9.0
Year	27.990	28.541	27.117	39.8	54.4	57.1	37.9	47.5	97	4	34	33	80	51	.204	.197	16.55	.90	5.5	6.8	6.7

[a] 8 a. m. observation.

[b] No regular morning observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SHREVEPORT, LA.

[H=249 ft.; h_t=77 ft.; h_r=77 ft.; h_a=84 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	7.2	SE.	31	NW.	0	4	7	6	15	6	3	10	11	0	14	5	12	9	6	0	0	1	0	0	5	3	0
February	7.5	NE.	38	NW.	0	5	12	7	10	6	3	4	9	0	10	2	16	14	10	1	0	0	0	0	4	4	0
March	7.0	SE.	30	SE.	0	9	12	10	14	7	0	0	10	0	6	8	17	12	12	0	1	0	0	0	0	3	0
April	9.3	S.	34	W.	0	3	4	1	15	17	0	7	13	0	15	7	8	3	2	0	0	0	0	0	0	1	0
May	7.4	SE.	23	S.	0	2	11	3	25	7	3	9	2	0	7	13	11	8	6	0	0	0	0	0	0	1	0
June	5.4	NE.	32	NW.	0	5	23	4	6	4	3	9	6	0	9	12	9	11	6	0	0	0	0	8	0	6	0
July	5.7	SE.	34	NW.	0	3	7	4	23	10	7	4	3	1	9	13	9	16	13	0	0	0	0	18	0	11	0
August	5.1	SE.	30	NW.	0	4	8	5	19	14	6	3	3	0	18	11	2	11	8	0	0	0	0	23	0	6	0
September	5.7	SE.	27	SE.	0	0	13	11	20	4	1	2	9	0	21	4	5	5	3	0	0	0	0	8	0	3	0
October	5.4	NW.	21	NE.	0	11	9	5	12	5	4	3	13	0	19	5	7	5	4	0	0	0	0	0	0	0	0
November	6.2	SE.	23	NW.	0	7	8	7	10	7	6	6	9	0	15	6	9	1	1	0	0	0	0	0	3	0	0
December	7.1	SE.	33	NW.	0	12	3	6	15	8	3	5	10	0	18	4	9	6	6	0	0	0	0	0	7	0	0
Year	6.6	SE.	34	W.	0	65	117	69	184	95	39	62	98	1	161	90	114	101	77	1	1	1	0	57	19	38	0

SIOUX CITY, IOWA.

[H=1,135 ft.; h_t=96 ft.; h_r=86 ft.; h_a=104 ft.]

January	12.5	NW.	72	NW.	3	0	1	1	3	7	3	1	15	0	11	7	13	4	0	3	0	0	14	0	31	0	0
February	12.5	S.	52	NW.	2	3	4	1	1	9	2	0	8	0	11	9	8	5	4	5	0	0	17	0	28	0	0
March	12.9	NW.	41	NW.	1	5	2	1	5	7	1	1	9	0	8	8	15	8	6	3	0	3	3	0	22	2	0
April	16.0	N.	45	S.	5	8	4	1	7	4	0	1	5	0	9	7	14	9	8	2	0	2	0	0	7	6	0
May	14.0	NE.	72	SE.	7	2	8	2	7	7	1	1	3	0	4	11	16	16	13	0	3	1	0	0	0	9	0
June	9.3	NE.	66	NW.	3	2	8	2	4	4	2	1	7	0	8	15	7	13	9	0	0	1	0	1	0	7	0
July	11.5	S.	48	NW.	1	2	5	5	4	7	3	0	5	0	11	11	9	11	9	0	0	0	0	3	0	8	0
August	9.2	SE.	44	SE.	2	5	5	3	8	5	2	0	3	0	7	13	11	13	11	0	1	2	0	0	0	12	0
September	13.7	S.	42	NW.	1	4	1	1	9	9	2	0	4	0	13	6	11	9	8	0	1	0	0	0	0	6	0
October	12.9	SE.	58	W.	3	4	5	0	10	3	2	1	6	0	16	7	8	6	3	0	1	0	0	0	1	3	0
November	14.0	NW.	43	NW.	1	3	6	2	3	6	1	1	8	0	7	9	14	4	3	2	0	1	7	0	21	0	0
December	14.4	NW.	50	NW.	7	1	0	0	3	8	4	1	14	0	8	11	12	5	2	5	0	0	13	0	31	0	0
Year	12.7	NW.	72	NW.	36	39	49	19	64	76	23	8	87	0	113	114	138	103	76	20	6	10	54	4	141	53	0

SOUTHEAST FARALLON, CAL.

[H=30 ft.; h_t=9 ft.; h_r=3 ft.; h_a=17 ft.]

January																											
February																											
March																											
April																											
May	28.3	NW.	60	NW.	13	0	1	0	0	3	4	1	53	0	21	4	6	3	0	0	0	10	0	0	0	0	0
June	20.4	NW.	45	NW.	7	1	0	0	1	1	2	5	50	0	23	4	3	1	0	0	0	9	0	0	0	0	0
July	18.6	NW.	55	NW.	5	0	0	0	0	2	4	8	48	0	16	7	8	0	0	0	0	9	0	0	0	0	0
August	17.3	NW.	48	NW.	4	1	0	0	0	1	5	1	54	0	11	13	7	0	0	0	0	14	0	0	0	0	0
September	14.1	NW.	58	NW.	8	4	0	0	0	7	5	2	42	0	15	5	10	0	0	0	0	12	0	0	0	0	0
October	12.4	NW.	48	S.	2	4	2	0	2	9	2	4	39	0	8	18	10	3	2	0	0	13	0	0	0	0	0
November	15.4	NW.	55	NW.	7	2	0	0	3	6	3	3	13	0	7	7	16	14	11	0	0	0	0	0	0	1	0
December	12.4	N.	42	NW.	2	8	3	2	1	4	0	2	11	0	15	6	10	9	3	0	0	4	0	0	0	0	0
Year																											

SPOKANE, WASH.

[H=1,929 ft.; h_t=101 ft.; h_r=94 ft.; h_a=110 ft.]

January	6.0	S.	30	S.	0	5	12	3	5	16	11	6	4	0	2	2	27	17	11	10	0	2	9	0	28	0	0
February	4.9	E.	36	SW.	0	5	8	14	3	4	10	5	5	2	9	7	12	4	2	4	0	2	8	0	27	0	0
March	7.7	S.	36	SW.	0	4	12	6	5	15	9	7	4	0	9	6	16	11	8	5	1	0	1	0	20	1	0
April	7.9	S.	40	SW.	1	2	8	5	4	15	10	12	4	0	3	10	17	6	2	2	1	0	0	0	10	0	0
May	7.3	SW.	33	SW.	0	3	5	6	5	14	16	9	4	0	3	12	16	11	8	0	2	0	0	1	0	1	0
June	7.1	S.	30	SW.	0	3	9	8	2	16	12	4	6	0	7	11	12	5	5	0	0	0	0	1	0	1	0
July	5.8	S.	24	SW.	0	7	10	6	5	13	9	6	6	0	11	9	11	8	5	0	0	0	0	3	0	6	0
August	5.4	S.	24	SW.	0	5	10	5	6	12	11	8	4	1	16	7	8	7	5	0	0	0	0	4	0	2	0
September	6.6	NE.	33	SW.	0	0	14	8	3	13	11	7	4	0	9	5	16	8	4	0	0	0	0	0	1	0	0
October	5.0	NE.	40	SW.	1	2	18	9	5	9	7	9	2	1	8	11	12	5	4	0	0	1	0	0	4	0	1
November	6.0	S.	24	W.	0	7	11	14	1	17	4	3	3	0	1	3	26	10	10	5	0	3	4	0	14	0	0
December	4.4	NE.	33	W.	0	5	25	5	0	13	11	2	1	0	1	3	27	12	9	7	0	7	11	0	25	0	0
Year	6.1	S.	40	SW.	2	48	142	89	44	157	121	78	47	4	79	86	200	104	73	33	4	15	33	9	124	11	1

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SPRINGFIELD, ILL.

[λ=39° 48′ N.; φ=89° 39′ 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	29.312	29.699	28.719	23.7	28.6	34.8	19.5	27.2	59	− 6	21	24	88	82	.123	.140	1.44	.40		5.5	4.9	5.8
February	29.420	29.907	28.620	23.5	29.4	35.9	20.5	28.2	56	−12	20	24	86	81	.126	.142	3.05	1.24		5.4	6.0	5.9
March	29.457	29.754	29.109	38.9	48.3	54.4	36.5	45.4	76	16	36	39	88	73	.223	.258	1.47	.81		5.4	4.9	5.5
April	29.221	29.599	28.736	46.7	55.9	63.3	43.0	53.2	84	29	40	42	77	64	.251	.284	3.99	1.68		6.8	5.3	5.7
May	29.310	29.726	28.987	60.1	69.3	75.1	55.8	65.4	85	35	53	55	79	62	.434	.452	5.28	1.70		6.5	5.2	5.6
June	29.282	29.594	28.990	61.1	71.6	76.8	57.3	67.0	89	43	55	56	82	60	.446	.462	2.13	.97		5.9	4.7	5.0
July	29.315	29.514	28.926	70.8	81.8	86.8	66.4	76.6	97	58	63	62	77	53	.585	.574	1.59	.79		4.3	4.3	3.7
August	29.303	29.568	29.137	66.6	76.2	82.5	63.7	73.1	94	55	62	63	85	65	.558	.583	2.92	1.29		4.5	4.2	5.2
September	29.404	29.608	29.111	58.8	68.6	77.1	55.6	66.4	89	42	53	56	82	66	.425	.474	2.48	.59		4.7	4.1	4.1
October	29.416	29.842	28.881	48.3	58.5	66.3	46.2	56.2	86	29	43	44	82	60	.304	.322	1.50	.70		4.2	2.7	4.3
November	29.436	29.932	28.788	33.4	39.4	47.1	29.5	38.3	69	13	29	30	83	68	.179	.189	.98	.31		5.5	4.2	5.7
December	29.407	29.880	28.898	20.7	26.6	33.3	15.8	24.6	48	− 7	17	20	85	75	.101	.110	1.50	.81		4.3	4.9	5.8
Year	29.357	29.932	28.620	46.0	54.5	61.1	42.5	51.8	97	−12	41	43	83	67	.313	.332	28.33	1.70		5.2	4.6	5.2

SPRINGFIELD, MO.

[λ=37° 12′ N.; φ=93° 18′ W.]

January	28.599	29.002	28.171	29.5	35.8	41.6	26.2	33.9	65	2	26	28	88	73	.152	.160	1.32	.75		3.5	4.3	4.7
February	28.677	29.131	28.026	27.5	34.4	40.3	23.5	31.9	67	− 3	25	27	90	76	.151	.158	3.35	1.23		5.2	4.6	5.2
March	28.701	29.021	28.377	41.8	52.7	56.6	39.3	48.0	74	17	38	40	88	67	.248	.270	2.82	1.16		4.9	5.0	4.6
April	28.530	28.928	28.076	49.3	60.0	65.4	46.4	55.9	81	31	43	44	79	58	.287	.300	2.85	1.27		4.6	5.3	4.1
May	28.546	28.973	28.348	58.6	67.6	71.5	56.9	64.2	82	32	54	57	87	71	.441	.484	9.96	2.37		6.1	6.3	4.7
June	28.587	28.876	28.337	61.4	71.6	75.1	59.2	67.2	87	47	56	58	85	64	.463	.491	3.99	1.42		4.0	5.1	3.4
July	28.614	28.804	28.402	70.6	81.3	85.0	68.5	76.8	93	63	66	66	86	61	.643	.636	2.96	.86		4.6	4.8	3.4
August	28.606	28.872	28.421	67.6	79.4	83.7	66.0	74.8	92	53	64	66	88	64	.603	.640	4.49	1.90		3.2	3.2	2.4
September	28.683	28.890	28.408	59.3	70.5	77.3	57.1	67.2	88	39	54	56	83	63	.484	.466	4.68	2.26		2.9	2.3	2.7
October	28.697	29.033	28.210	50.5	60.7	67.3	49.5	58.4	84	35	45	46	83	62	.327	.342	4.57	1.88		3.3	3.1	3.3
November	28.701	29.174	28.247	36.4	44.5	51.1	34.0	42.6	73	13	31	32	82	62	.189	.204	.78	.31		4.7	3.4	4.4
December	28.695	29.092	28.186	28.6	36.7	43.1	24.8	34.0	61	7	24	26	83	66	.140	.141	1.75	1.05		2.5	2.7	3.2
Year	28.636	29.174	28.026	48.4	57.9	63.2	46.0	54.6	93	− 3	44	46	85	66	.340	.358	43.52	2.37		4.1	4.2	3.8

SYRACUSE, N. Y.[a]

[λ=43° 2′ N.; φ=76° 10′ W.]

January	29.266	29.865	28.580	22.9	.....	30.9	17.3	24.1	48	− 6	20	.....	88	.....	.114	.....	3.41	.92		8.0	.....	7.4
February	29.318	29.775	28.621	21.9	.....	33.9	20.4	27.2	63	− 2	20	.....	82	.....	.116	.....	2.58	.64		7.9	.....	6.8
March	29.541	29.928	29.061	39.6	.....	49.5	34.7	42.1	76	18	34	.....	82	.....	.208	.....	4.65	1.42		8.0	.....	7.0
April	29.282	29.715	28.830	42.5	.....	52.6	36.4	44.5	84	20	32	.....	66	.....	.184	.....	2.34	.71		5.6	.....	5.6
May	29.505	29.801	29.274	55.8	.....	69.1	48.1	58.6	86	26	42	.....	62	.....	.286	.....	.28	.17		4.0	.....	4.5
June	29.292	29.712	29.018	59.3	.....	69.9	53.5	61.7	84	45	52	.....	77	.....	.392	.....	5.80	2.36		6.1	.....	6.2
July	29.296	29.572	29.098	66.9	.....	75.6	60.1	67.8	89	48	58	.....	73	.....	.487	.....	3.63	1.30		5.7	.....	5.5
August	29.330	29.810	29.139	61.2	.....	70.9	55.7	63.3	82	48	54	.....	78	.....	.422	.....	5.41	1.04		6.3	.....	5.7
September	29.476	29.796	29.073	59.2	.....	71.3	53.3	62.3	86	39	52	.....	77	.....	.407	.....	.99	.54		3.7	.....	4.4
October	29.386	29.678	29.093	48.6	.....	58.3	41.9	51.6	71	29	43	.....	83	.....	.296	.....	6.36	1.87		6.5	.....	6.9
November	29.395	30.044	28.893	33.1	.....	41.8	30.2	36.0	66	9	28	.....	82	.....	.162	.....	2.01	.69		6.6	.....	6.2
December	29.310	29.768	28.787	21.4	.....	30.2	16.2	23.2	45	− 4	18	.....	88	.....	.103	.....	1.92	.62		8.3	.....	7.8
Year	29.370	30.044	28.580	44.6	.....	54.5	39.2	46.9	89	− 6	38	.....	78	.....	.265	.....	39.38	2.36		6.4	.....	6.2

TACOMA, WASH.[a]

[λ=47° 16′ N.; φ=122° 23′ W.]

January	29.803	30.238	29.129	39.5	.....	45.6	37.4	41.5	57	28	38	.....	93	.....	.231	.....	8.23	2.12		7.7	.....	9.5
February	29.984	30.222	29.452	34.1	.....	45.7	31.7	38.7	57	22	32	.....	92	.....	.186	.....	1.35	.72		4.5	.....	6.8
March	29.753	30.151	29.401	36.5	.....	49.0	34.3	41.6	65	28	34	.....	91	.....	.199	.....	5.63	1.44		5.3	.....	7.8
April	29.844	30.044	29.631	40.3	.....	54.2	38.7	46.4	66	32	38	.....	93	.....	.234	.....	3.05	.62		8.0	.....	7.4
May	29.844	30.178	29.596	46.3	.....	61.7	44.9	53.3	78	36	43	.....	89	.....	.282	.....	1.69	.35		7.5	.....	7.5
June	29.804	30.166	29.589	53.3	.....	69.1	52.4	60.8	97	42	50	.....	88	.....	.360	.....	2.59	1.06		7.9	.....	7.4
July	29.841	30.053	29.607	52.7	.....	69.6	52.0	60.8	81	48	50	.....	90	.....	.355	.....	.80	.31		7.7	.....	6.0
August	29.787	30.003	29.551	54.9	.....	70.5	54.1	62.3	83	50	52	.....	91	.....	.391	.....	.75	.24		7.9	.....	6.7
September	29.822	30.096	29.442	50.5	.....	64.7	48.8	56.7	80	37	48	.....	93	.....	.341	.....	3.59	1.44		6.7	.....	7.1
October	29.864	30.183	29.458	47.5	.....	58.9	45.5	52.2	66	33	46	.....	96	.....	.317	.....	2.72	.73		4.6	.....	6.2
November	29.719	30.180	28.778	42.5	.....	50.7	39.9	45.3	69	28	41	.....	96	.....	.267	.....	10.00	1.70		7.3	.....	9.1
December	29.980	30.340	29.470	38.7	.....	45.8	36.2	41.0	56	29	38	.....	97	.....	.233	.....	4.51	.96		5.1	.....	8.3
Year	29.837	30.340	28.778	44.7	.....	57.1	43.0	50.0	97	22	42	.....	92	.....	.283	.....	45.11	2.12		6.7	.....	7.4

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

SPRINGFIELD, ILL.

[H=644 ft.; h_t=82 ft.; h_r=76 ft.; h_a=93 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	10.5	NW.	40	NW.	1	5	3	2	4	10	12	8	18	0	10	5	16	11	9	6	0	2	11	0	27	0	0
February	10.9	NW.	34	NW.	0	5	10	7	2	5	10	7	10	0	9	6	13	10	7	6	0	2	9	0	23	0	0
March	9.4	S.	28	S.	0	8	10	2	6	15	12	4	5	0	11	7	13	8	7	1	0	3	0	0	11	3	0
April	12.3	NW.	36	N.	0	6	4	2	11	13	4	4	16	0	8	12	10	9	7	1	0	1	0	0	2	6	0
May	9.7	S.	34	W.	0	4	7	6	12	22	2	4	5	0	12	6	13	11	9	0	0	0	0	0	0	8	0
June	7.7	NW.	29	E.	0	8	7	10	1	4	7	11	12	0	11	10	9	11	8	0	0	0	0	0	0	4	0
July	8.0	NW.	34	NW.	0	5	4	6	9	8	11	8	11	0	17	9	5	6	6	0	0	0	0	10	0	3	0
August	7.6	NW.	31	NE.	0	9	5	3	9	8	12	7	9	0	12	10	9	5	4	0	1	1	0	4	0	7	0
September	8.5	S.	29	S.	0	4	1	2	11	17	10	4	11	0	15	7	8	11	10	0	0	0	0	0	0	8	0
October	8.5	S.	38	S.	0	7	7	5	8	10	9	10	6	0	11	11	9	5	4	0	0	0	0	0	2	3	0
November	10.0	NW.	31	S.	0	6	5	5	7	11	6	9	11	0	8	12	10	7	5	2	0	3	6	0	17	2	0
December	10.7	W.	46	NW.	1	3	3	0	7	9	15	16	9	0	6	14	11	8	3	4	0	0	13	0	30	0	0
Year	9.5	NW.	46	NW.	2	70	66	50	87	132	110	92	123	0	130	109	126	102	79	20	2	11	39	14	112	44	0

SPRINGFIELD, MO.

[H=1,324 ft.; h_t= 98 ft.; h_r=3 ft.; h_a=104 ft.]

January	11.8	NW.	41	NW.	1	4	2	3	11	5	12	6	19	0	16	2	13	10	5	4	0	2	6	0	25	0	0
February	12.2	SE.	46	W.	3	9	9	6	9	3	6	7	7	0	11	8	9	10	7	4	0	0	8	0	21	1	0
March	10.0	SE.	33	W.	0	8	4	5	26	4	2	3	10	0	14	7	10	11	8	1	0	2	0	0	8	4	0
April	13.6	NW.	42	SW.	1	10	0	1	14	11	6	2	16	0	16	7	7	9	8	1	1	0	0	0	2	8	0
May	11.3	SE.	36	W.	0	4	9	2	29	13	1	2	2	0	15	7	9	16	15	0	1	0	0	0	1	11	0
June	6.7	N.	25	E.	0	16	11	4	7	6	2	4	10	0	22	4	4	9	9	0	0	2	0	0	0	10	0
July	8.9	SE.	39	S.	0	6	4	4	17	15	10	4	2	0	20	8	3	10	8	0	0	0	6	0	0	12	0
August	8.1	S.	67	N.	1	10	10	6	12	16	4	0	4	0	27	4	0	10	7	0	0	1	0	5	0	9	0
September	10.5	SE.	36	W.	0	7	4	1	28	15	2	1	2	0	21	5	4	9	7	0	0	0	0	0	0	6	0
October	10.0	SE.	35	S.	0	6	2	0	25	10	6	6	7	0	19	6	6	8	7	0	0	0	0	0	0	4	0
November	11.5	SE.	36	NW.	0	8	4	4	15	8	5	2	14	0	16	4	10	8	5	0	0	0	4	0	13	1	0
December	11.7	NW.	44	W.	1	2	4	3	11	11	4	7	20	0	21	3	7	7	4	4	0	1	5	0	24	2	0
Year	10.5	SE.	67	N.	7	90	63	39	204	117	60	44	113	0	218	65	82	117	90	14	2	8	23	11	94	68	0

SYRACUSE, N. Y.

[H=597 ft.; h_t=97 ft.; h_r=65 ft.; h_a=113 ft.]

January	14.8	SW.	64	S.	6	2	1	8	4	14	16	8	9	0	3	8	20	24	18	19	0	1	14	0	28	1	0
February	16.6	W.	59	SW.	9	3	2	4	3	13	9	14	8	0	4	8	16	19	10	15	0	0	11	0	23	0	0
March	11.7	NW.	66	S.	6	3	5	7	5	13	7	8	14	0	4	10	17	15	13	4	0	2	0	0	11	0	0
April	13.2	NW.	58	NW.	4	7	3	5	2	9	4	13	17	0	11	7	12	10	8	1	0	0	1	0	4	3	0
May	11.2	S.	48	NW.	2	6	1	7	2	24	0	8	14	0	12	16	3	5	2	0	0	0	0	0	2	1	0
June	8.8	S.	34	SW.	0	3	2	9	10	13	4	8	11	0	7	12	11	16	12	0	0	0	0	0	0	6	0
July	10.3	W.	35	NW.	0	3	2	2	3	10	9	24	9	0	8	18	5	15	12	0	0	0	0	0	0	8	0
August	10.0	S.	37	SW.	0	3	4	11	2	20	4	11	7	0	7	14	10	13	11	0	0	0	0	0	0	5	0
September	11.0	S.	37	NW.	0	1	1	1	6	27	6	13	5	0	13	15	2	8	6	0	0	0	0	0	0	3	0
October	12.4	S.	48	S.	1	7	0	1	6	15	9	11	11	2	1	17	13	16	12	2	0	1	0	0	3	0	0
November	12.5	W.	45	W.	2	3	1	4	3	12	19	12	6	0	5	13	12	12	11	9	0	0	9	0	15	0	0
December	16.0	SW.	57	S.	7	1	3	4	4	11	18	15	6	0	1	7	23	18	11	17	0	1	17	0	30	0	0
Year	12.4	S.	64	S.	37	42	25	63	50	181	105	145	117	2	76	145	144	171	126	67	0	5	52	0	116	27	0

TACOMA, WASH.

[H=213 ft.; h_t=113 ft.; h_r=104 ft.; h_a=120 ft.]

January	6.7	SW.	28	SW.	0	5	5	1	7	12	28	0	1	3	0	0	31	20	20	3	0	2	0	0	6	0	0
February	4.5	S.	30	SW.	0	13	6	3	9	13	6	3	3	0	6	7	15	8	5	3	0	0	0	0	15	0	0
March	7.4	N.	30	SW.	0	18	10	2	6	6	13	3	4	0	4	9	18	15	11	4	0	3	0	0	9	0	0
April	6.6	SW.	28	SW.	0	13	2	1	4	6	21	11	2	0	0	13	17	18	13	1	0	3	0	0	1	0	0
May	6.3	SW.	23	SW.	0	15	1	0	0	5	20	11	10	0	0	13	18	12	10	0	0	3	0	0	0	0	0
June	5.2	N.	22	N.	0	20	1	1	1	1	15	13	5	3	5	5	20	13	7	0	0	0	0	1	0	2	0
July	5.4	N.	23	SW.	0	23	4	1	1	2	9	19	3	0	8	12	11	8	6	0	0	1	0	0	0	0	0
August	4.5	N.	18	SW.	0	23	2	0	1	3	11	15	7	0	5	10	16	6	4	0	0	2	0	0	0	1	0
September	5.8	N.	30	SW.	0	22	2	1	1	4	18	9	0	3	5	8	17	13	13	0	0	4	0	0	0	1	0
October	5.1	N.	36	SW.	0	23	2	2	4	6	17	2	6	0	7	12	12	10	7	0	0	9	0	0	0	0	0
November	6.2	SW.	34	S.	0	9	3	1	8	15	24	0	0	0	0	3	27	23	19	2	0	3	0	0	1	0	0
December	4.2	SW.	30	SW.	0	7	8	3	6	10	21	3	0	4	2	6	28	13	10	0	0	12	0	0	8	0	0
Year	5.7	N.	36	SW.	0	191	46	16	48	83	208	89	41	18	42	98	225	159	125	13	0	50	0	1	40	4	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

TAMPA, FLA.

[λ=27° 57′ N.; φ=82° 27′ 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	30.031	30.358	29.742	54.6	60.8	68.2	51.9	60.0	80	33	51	54	89	80	.402	.444	6.33	2.00	6.7	5.9	6.8
February	30.085	30.413	29.683	59.6	65.3	73.2	56.4	64.8	84	32	54	56	83	74	.453	.476	6.06	3.25	6.8	5.1	5.5
March	30.031	30.247	29.719	65.7	70.8	78.9	63.1	71.0	84	50	62	62	88	76	.561	.568	4.79	1.54	5.8	5.5	5.8
April	29.967	30.273	29.641	63.6	68.9	77.2	59.1	68.2	84	48	56	56	78	64	.470	.454	.74	.58	3.7	2.6	2.9
May	29.941	30.123	29.662	70.8	75.2	84.1	65.6	74.8	94	61	64	64	81	68	.609	.591	1.92	1.11	4.1	3.4	3.9
June	29.909	30.103	29.724	76.1	78.2	87.8	70.7	79.2	94	66	70	69	81	75	.736	.716	5.38	2.07	3.8	5.3	4.7
July	29.986	30.110	29.864	78.0	78.8	90.0	72.1	81.0	94	67	72	72	83	80	.797	.780	9.34	2.30	3.0	5.3	4.8
August	29.962	30.208	29.806	79.9	80.5	90.5	74.6	82.6	95	69	74	74	83	79	.841	.824	6.00	1.79	3.5	4.9	4.6
September	29.963	30.133	29.425	74.7	78.2	86.8	70.9	78.8	91	64	70	69	86	75	.739	.714	10.64	5.47	3.8	4.1	4.6
October	29.974	30.230	29.695	66.3	71.6	80.1	63.3	71.7	89	45	61	61	83	70	.554	.551	.93	.52	3.7	2.4	4.2
November	30.020	30.233	29.778	58.6	63.6	73.3	55.6	64.4	86	32	55	56	89	77	.466	.473	3.09	.88	3.0	2.7	3.2
December	30.102	30.284	29.695	47.5	55.9	66.8	44.7	55.8	80	33	42	45	83	67	.291	.311	1.46	.69	2.8	1.4	2.3
Year	29.998	30.413	29.425	66.3	70.6	79.7	62.3	71.0	95	32	61	62	84	74	.577	.575	56.68	5.47	4.2	4.0	4.4

TATOOSH ISLAND, WASH.

[λ = 48° 23′ N.; φ = 124° 44′ W.]

January	29.829	30.328	29.077	43.2	43.0	46.5	40.4	43.4	52	33	40	39	88	87	.251	.245	10.05	1.96	7.5	8.1	7.9
February	30.059	30.331	29.099	40.3	42.6	45.3	38.6	42.0	54	34	37	38	87	84	.219	.230	2.83	1.75	6.1	5.7	5.8
March	29.826	30.226	29.365	40.3	43.4	46.6	38.1	42.4	56	29	36	36	84	76	.214	.215	4.35	.96	5.4	5.8	5.4
April	29.938	30.248	29.651	43.5	47.0	50.3	41.0	45.6	60	33	41	41	91	81	.256	.262	4.40	1.03	7.0	7.0	6.5
May	29.957	30.324	29.615	46.7	50.0	52.7	45.2	49.0	57	41	44	46	91	85	.291	.307	4.48	1.15	8.0	7.6	8.2
June	29.924	30.322	29.672	51.2	54.7	59.0	49.6	54.3	84	43	49	51	93	88	.351	.375	4.86	1.59	7.7	6.8	8.1
July	29.989	30.196	29.583	51.8	56.0	58.5	50.9	54.7	64	47	50	53	96	89	.366	.398	1.30	.54	7.5	7.3	7.5
August	29.923	30.136	29.659	52.5	56.0	59.3	51.2	55.2	67	48	52	54	98	93	.388	.417	1.33	.40	7.5	7.0	7.9
September	29.935	30.209	29.568	51.4	54.2	57.3	49.5	53.4	68	46	49	51	93	90	.352	.375	6.68	3.79	6.7	4.9	6.2
October	29.904	30.314	29.293	50.4	53.0	55.7	48.2	52.0	61	43	48	49	91	86	.332	.345	5.33	1.07	5.3	7.0	6.7
November	29.753	30.321	29.039	45.7	45.9	48.9	41.8	45.8	57	34	41	42	86	87	.268	.274	15.32	1.83	7.4	9.0	9.5
December	30.029	30.430	29.382	45.0	45.7	47.8	42.7	45.2	54	40	42	42	89	86	.265	.266	7.96	1.69	7.9	7.7	7.8
Year	29.925	30.430	29.039	46.8	49.3	52.4	44.8	48.6	84	29	44	45	91	86	.296	.309	68.89	3.79	7.0	7.0	7.3

TAYLOR, TEX. [a]

[λ=30° 35′ N.; φ=97° 20′ W.]

January	29.465	29.901	29.141	42.2	.....	57.7	39.8	48.8	82	23	39	....	89	....	.255	.....	1.84	.68	4.7	.....	4.7
February	29.450	29.816	28.984	42.0	.....	54.3	39.6	47.0	74	17	39	....	90	....	.261	.....	7.08	3.12	7.5	.....	7.0
March	29.458	29.877	29.215	51.4	.....	65.5	49.7	57.6	78	30	48	....	88	....	.353	.....	3.11	2.52	7.6	.....	7.0
April	29.371	29.763	29.166	67.6	.....	76.3	55.6	66.0	86	40	60	....	78	....	.397	.....	.75	.71	6.0	.....	4.7
May	29.310	29.730	29.156	64.2	.....	80.7	62.1	71.4	90	39	60	....	85	....	.534	.....	1.26	.60	5.3	.....	5.4
June	29.330	29.537	29.043	67.6	.....	84.7	65.3	75.0	93	51	64	....	87	....	.599	.....	3.08	1.28	4.8	.....	4.8
July	29.359	29.492	29.136	73.8	.....	88.7	71.0	79.8	96	65	72	....	94	....	.774	.....	14.37	6.55	4.9	.....	4.5
August	29.359	29.369	29.240	73.5	.....	90.1	70.6	80.4	97	66	72	....	94	....	.820	.....	1.70	1.23	4.4	.....	6.1
September	29.422	29.713	29.268	65.5	.....	86.9	62.9	74.9	93	46	62	....	88	....	.641	.....	.77	.54	4.2	.....	4.8
October	29.469	29.762	29.126	55.7	.....	78.1	52.4	65.2	90	38	50	....	82	....	.468	.....	2.56	1.03	4.0	.....	5.0
November	29.515	30.033	29.245	48.7	.....	69.1	44.7	56.9	85	24	41	....	75	....	.368	.....	.34	.32	4.8	.....	4.9
December	29.553	29.889	29.141	43.0	.....	62.6	39.0	50.8	74	27	35	....	72	....	.295	.....	1.38	.93	4.9	.....	5.6
Year	29.422	30.033	28.984	57.1	.....	74.6	54.4	64.5	97	17	53	....	85	....	.480	.....	38.24	6.55	5.3	.....	5.4

TOLEDO, OHIO.

[λ=41° 40′ N.; φ=83° 34′ W.]

January	29.257	29.755	28.446	23.2	26.6	31.5	18.5	25.0	58	— 7	19	21	84	78	.114	.121	1.10	.41	7.7	7.2	7.1
February	29.370	29.886	28.541	24.4	27.7	33.3	20.8	27.0	56	— 4	21	21	85	76	.124	.125	3.37	.98	6.2	5.7	5.8
March	29.476	29.796	29.067	38.2	43.7	50.6	34.9	42.8	76	21	34	36	84	76	.205	.227	1.67	.48	7.6	5.4	6.0
April	29.238	29.705	28.716	44.2	49.4	57.2	39.3	48.2	80	22	36	36	72	63	.213	.221	3.67	1.44	5.9	5.4	5.1
May	29.401	29.771	29.068	58.0	64.5	71.5	52.7	62.1	88	30	49	49	72	59	.362	.367	1.43	.86	4.9	5.3	3.9
June	29.264	29.590	28.891	60.1	66.1	71.2	55.5	63.4	88	47	53	54	77	67	.404	.428	3.87	1.63	6.7	6.4	5.7
July	29.308	29.564	28.900	68.1	75.8	82.5	63.6	73.0	94	51	60	60	76	60	.528	.533	5.54	2.28	5.2	3.9	3.7
August	29.310	29.628	29.094	64.4	70.8	77.1	60.3	68.7	88	49	57	59	78	67	.481	.509	6.65	3.20	4.9	5.9	4.9
September	29.437	29.709	29.106	58.5	66.8	75.4	54.4	64.9	90	40	51	54	76	65	.395	.446	2.71	1.49	4.4	3.0	3.7
October	29.409	29.798	28.875	47.6	54.9	62.5	44.7	53.6	79	27	41	43	77	66	.278	.301	2.32	1.17	4.5	3.8	4.0
November	29.407	29.999	28.768	33.0	38.9	45.1	29.5	37.3	70	12	27	27	78	68	.163	.157	1.01	.45	6.2	4.8	5.6
December	29.333	29.757	28.761	21.1	23.6	29.1	15.7	22.4	43	0	17	18	82	78	.095	.103	1.74	.85	8.3	5.5	7.4
Year	29.351	29.999	28.446	45.1	50.7	57.2	40.8	49.0	94	— 7	39	40	78	68	.280	.295	35.08	3.20	6.0	5.2	5.2

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

TAMPA, FLA.

[H=34 ft.; h_t=60 ft.; h_r=51 ft.; h_a=67 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	6.6	NE.	36	W.	0	10	15	7	5	4	4	5	11	1	7	8	16	13	10	0	0	6	0	0	0	4	0
February	8.5	NE.	41	S.	1	11	13	7	3	7	6	3	6	0	8	11	9	13	9	0	0	2	0	0	0	1	0
March	6.5	NE.	27	S.	0	6	18	18	4	3	3	5	5	0	6	16	9	14	11	0	0	0	0	0	0	8	0
April	7.3	NW.	22	W.	0	5	9	7	4	1	8	10	16	0	20	8	2	3	3	0	0	0	0	0	0	3	0
May	6.0	NE.	23	S.	0	1	19	14	6	0	2	9	10	1	16	9	6	5	4	0	0	0	0	4	0	7	0
June	6.0	E.	30	SE.	0	5	11	11	9	1	11	5	7	0	11	15	4	11	10	0	0	0	0	5	0	15	0
July	5.2	E.	28	SE.	0	7	13	14	14	3	4	3	3	1	9	17	5	17	15	0	0	0	18	0	0	26	0
August	5.0	W.	30	E.	0	4	9	8	9	8	6	12	5	1	11	16	4	19	17	0	0	0	0	19	0	22	0
September	7.2	NE.	48	NE.	1	15	21	6	4	3	0	8	2	1	11	14	5	10	7	0	0	0	0	4	0	7	0
October	6.3	NE.	24	S.	0	20	22	2	3	0	0	4	11	0	13	12	6	5	4	0	0	1	0	0	0	0	0
November	6.0	N.	20	NE.	0	18	13	4	3	3	2	6	11	0	15	13	2	6	6	0	0	2	0	0	1	2	0
December	5.9	N.	20	SE.	0	29	7	2	5	2	1	1	15	0	22	7	2	6	5	0	0	0	0	0	0	1	0
Year	6.4	NE.	48	NE.	2	131	170	100	69	35	47	71	102	5	149	146	70	122	101	0	0	11	0	50	1	96	0

TATOOSH ISLAND, WASH.

[H=86 ft.; h_t=7 ft.; h_r=4 ft.; h_a=57 ft.]

January	23.7	E.	72	E.	19	0	12	15	7	14	9	4	1	0	4	7	20	22	22	5	0	0	0	0	0	0	0
February	17.3	E.	72	SW.	5	1	6	26	8	4	2	5	4	0	10	5	13	11	9	3	0	0	0	0	0	0	0
March	18.4	E.	66	SW.	9	0	16	18	3	4	9	10	2	0	12	5	14	14	13	5	1	0	0	0	0	3	0
April	14.2	W.	56	SW.	6	3	3	8	6	7	12	16	5	0	6	8	16	18	16	2	0	0	0	0	0	0	0
May	12.6	W.	51	SW.	4	0	4	3	3	8	17	17	10	0	3	5	23	20	17	0	0	6	0	0	0	0	0
June	12.4	SW.	56	E.	4	1	4	6	7	12	15	12	3	0	3	4	23	18	13	0	0	8	0	0	0	1	0
July	10.0	W.	52	S.	2	0	3	0	2	6	20	24	7	0	6	4	21	13	7	0	0	9	0	0	0	0	0
August	10.0	SW.	34	E.	0	1	2	5	5	13	26	7	3	0	2	9	20	14	9	0	0	14	0	0	0	0	0
September	14.1	S.	66	S.	7	1	8	10	3	14	13	7	4	0	9	6	15	12	10	0	0	6	0	0	0	0	0
October	18.1	E.	78	SW.	9	0	5	19	6	15	8	7	2	0	6	8	17	14	12	0	0	5	0	0	0	0	0
November	24.8	E.	78	E.	24	0	0	23	6	18	5	5	3	0	1	2	27	27	26	1	0	1	0	0	0	5	0
December	20.0	E.	64	E.	16	0	5	27	4	17	3	3	3	0	6	3	22	20	20	0	0	1	0	0	0	1	0
Year	16.3	E.	78	E.	105	7	68	160	60	132	139	117	47	0	68	66	231	203	174	16	1	50	0	0	3	7	0

TAYLOR, TEX.

[H=583 ft.; h_t=55 ft.; h_r=48 ft.; h_a=68 ft.]

January	9.1	N.	35	N.	0	8	1	2	0	8	5	2	5	0	13	8	10	11	7	0	0	0	0	0	4	1	0
February	10.2	N.	35	NW.	0	9	1	2	2	5	3	2	4	0	6	6	16	18	12	0	1	0	1	0	5	4	0
March	9.4	N.	28	NW.	0	14	4	1	5	4	0	0	3	0	3	12	16	9	4	0	0	0	0	0	1	2	0
April	11.6	S.	33	SE.	0	3	1	1	3	11	3	0	8	0	11	14	5	4	1	0	0	0	0	0	0	1	0
May	11.0	SE.	34	SE.	0	6	0	0	11	7	0	0	7	0	8	15	8	10	6	0	0	0	0	0	0	3	0
June	6.9	N.	50	NW.	1	9	8	0	2	6	2	1	2	0	11	10	9	9	8	0	0	0	0	10	0	7	0
July	7.0	S.	33	SE.	0	0	1	5	5	16	4	0	0	0	12	13	6	12	11	0	0	0	0	18	0	8	0
August	6.8	S.	30	NE.	0	3	1	2	2	23	0	0	0	0	2	24	5	4	4	0	0	0	0	18	0	1	0
September	7.1	S.	22	S.	0	9	1	1	3	14	1	0	1	0	9	16	5	6	3	0	0	0	0	8	0	1	0
October	7.0	N.	30	SW.	0	11	1	3	2	7	2	4	1	0	11	10	10	5	5	0	1	2	0	1	0	1	0
November	8.3	S.	30	N.	0	8	1	2	1	9	1	4	4	0	9	13	8	3	1	0	1	1	0	0	3	1	0
December	8.6	S.	30	N.	0	8	1	0	2	8	5	3	4	0	8	11	12	6	3	0	0	0	0	0	3	0	0
Year	8.6	S.	50	NW.	1	88	21	19	38	118	26	16	39	0	103	152	110	97	65	0	3	3	1	55	16	30	0

TOLEDO, OHIO.

[H=628 ft.; h_t=120 ft.; h_r=112 ft.; h_a=127 ft.]

January	11.4	SW.	38	W.	0	0	5	2	4	13	18	13	7	0	6	7	18	14	8	10	0	1	13	0	27	0	0
February	12.6	W.	40	W.	1	4	6	2	0	10	16	12	6	0	10	5	13	13	10	6	0	2	12	0	23	0	0
March	10.2	NE.	42	SW.	1	5	13	8	3	9	14	6	3	1	6	15	10	11	7	1	0	4	1	0	9	2	0
April	11.9	NE.	36	W.	0	8	13	7	5	6	9	6	6	0	12	8	10	10	9	2	0	1	0	0	3	1	0
May	10.0	NE.	43	SW.	1	3	18	10	10	8	9	4	0	0	14	13	4	6	5	0	0	0	0	0	1	5	0
June	8.6	NE.	31	SW.	0	7	6	16	1	0	9	11	10	0	10	10	10	17	12	0	2	0	0	0	0	7	0
July	8.2	SW.	63	W.	2	3	2	4	6	2	16	17	12	0	17	13	1	12	10	0	1	0	0	0	6	9	0
August	8.2	SW.	28	W.	0	7	9	8	6	4	9	10	9	0	12	11	8	5	5	0	1	1	0	0	0	4	0
September	8.4	S.	36	SW.	0	4	3	4	6	16	12	6	9	0	18	8	4	7	6	0	0	0	0	1	0	4	0
October	9.7	SW.	38	S.	0	5	3	4	6	5	19	11	9	0	18	4	9	6	5	0	0	0	0	0	2	3	0
November	9.5	SW.	30	SE.	0	4	0	4	4	11	19	10	8	0	7	11	12	8	5	3	0	2	7	0	16	3	0
December	10.9	SW.	33	SW.	0	2	1	1	4	10	27	13	4	0	1	11	19	10	6	7	0	0	19	0	30	0	0
Year	10.0	SW.	63	W.	5	62	79	70	55	94	177	119	83	1	131	116	118	119	88	29	4	11	52	7	111	38	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

TOPEKA, KANS.[a]

[λ=39° 03′ N.; φ=95° 41′ 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						39.4	22.9	31.2	58	0							.44	.30			5.5
February						37.0	18.5	27.8	66	−10							1.14	.48			5.2
March						54.6	33.3	44.0	76	15							1.27	.58			5.9
April						66.3	43.9	55.1	85	29							3.08	.82			5.3
May						72.2	54.8	63.5	85	32							8.63	1.73			6.0
June						77.9	58.4	68.2	94	46							4.91	2.52			5.0
July						87.5	67.7	77.6	98	55							3.74	1.28			4.3
August						84.0	64.5	74.2	95	52							12.69	4.59			4.5
September						77.4	54.6	66.0	90	41							2.74	1.22			4.2
October						67.6	46.4	57.0	85	35							3.50	1.24			4.1
November						48.8	32.8	40.8	73	12							1.09	.65			5.7
December						42.7	21.1	31.9	61	3							.91	.40			3.8
Year						63.0	43.2	53.1	98	−10							44.14	4.59			5.0

VALENTINE, NEBR.

[λ=42° 50′ N.; φ=100° 32′ W.]

January	27.181	27.522	26.696	18.3	25.6	35.0	11.3	23.2	51	−12	15	19	88	76	.090	.107	22	.11	2.9	2.4	2.3
February	27.318	27.723	26.801	10.6	19.5	26.3	5.7	16.0	47	−18	8	15	91	82	.067	.089	73	.43	4.3	4.9	5.0
March	27.281	27.538	26.917	23.7	36.7	43.5	21.1	32.3	75	1	21	27	90	68	.119	.147	.28	.14	5.5	5.3	4.7
April	27.168	27.591	26.656	37.2	54.0	59.4	34.9	47.2	79	19	30	31	76	46	.175	.182	1.81	.73	3.8	4.3	4.2
May	27.167	27.568	26.697	48.9	64.0	69.1	46.3	57.7	87	34	42	40	78	44	.278	.254	2.41	69	4.8	4.9	4.3
June	27.280	27.644	26.907	56.8	71.4	75.3	52.4	63.8	92	37	51	50	80	48	.376	.306	1.43	.64	3.9	3.9	4.5
July	27.282	27.394	26.787	64.2	78.1	82.4	60.9	71.6	98	50	58	57	81	50	.493	.479	3.95	1.69	5.6	2.9	5.2
August	27.288	27.491	26.926	61.5	76.7	80.8	58.6	69.7	96	49	57	58	85	54	.408	.490	4.21	2.42	5.3	2.4	3.6
September	27.230	27.628	26.801	47.5	64.4	70.7	45.4	58.0	91	28	42	44	82	52	.283	.320	1.70	.43	4.9	3.1	5.7
October	27.311	27.686	26.896	40.4	57.7	67.3	37.8	52.6	83	22	33	36	76	47	.197	.218	.22	.20	2.5	2.5	3.6
November	27.312	27.730	26.641	26.8	36.3	47.9	22.9	35.4	78	− 1	22	25	79	63	.121	.151	.04	.02	5.2	4.6	5.9
December	27.314	27.732	26.857	21.4	27.5	39.5	13.8	26.6	54	− 6	16	19	79	71	.094	.107	15	.05	5.5	4.0	5.1
Year	27.253	27.732	26.641	38.1	51.0	58.1	34.3	46.2	98	−18	33	35	82	58	.230	.242	17.15	2.42	4.5	3.8	4.5

VICKSBURG, MISS.

[λ=32° 22′ N.; φ=90° 53′ W.]

January	29.811	30.245	29.443	41.6	50.1	55.5	39.3	47.4	76	24	38	39	87	67	.246	.262	4.10	2.02	6.4	4.9	5.5
February	29.841	30.283	29.359	45.3	52.5	58.1	42.1	50.1	76	18	42	42	87	71	.289	.304	11.45	3.41	7.2	6.5	6.8
March	29.824	30.153	29.530	55.2	63.1	68.4	53.8	61.1	80	36	52	55	88	77	.403	.464	6.00	2.01	8.0	6.5	7.3
April	29.723	29.979	29.392	57.9	68.4	73.6	55.2	64.4	85	44	52	50	89	53	.407	.377	1.00	.98	4.8	4.2	4.3
May	29.702	30.035	29.502	64.8	73.7	79.3	62.3	70.8	87	44	60	61	86	65	.536	.541	2.75	.96	5.9	5.2	5.4
June	29.674	29.875	29.472	68.4	77.1	82.8	64.9	73.8	91	52	62	62	82	61	.577	.560	1.80	.99	5.4	5.2	5.2
July	29.751	29.878	29.606	74.3	81.1	89.4	71.8	80.6	94	64	71	70	88	70	.752	.726	2.11	.82	6.1	6.5	5.4
August	29.715	29.958	29.507	74.2	80.9	88.9	72.5	80.7	93	65	72	72	93	76	.786	.789	2.82	.92	4.3	5.3	4.9
September	29.786	30.006	29.622	65.6	76.5	84.3	63.7	74.0	93	53	62	64	87	66	.565	.606	1.81	.85	2.5	2.7	2.6
October	29.813	30.080	29.550	66.1	67.9	75.9	54.6	65.2	89	39	52	54	88	63	.419	.450	.96	.51	3.0	2.9	3.6
November	29.853	30.330	29.517	47.1	57.3	64.3	44.8	54.6	81	22	42	40	82	53	.301	.279	.25	.12	4.2	1.9	3.6
December	29.900	30.204	29.460	39.6	50.4	56.2	37.7	47.0	73	27	30	32	70	51	.178	.192	2.99	.89	4.0	3.4	3.8
Year	29.783	30.330	29.359	57.5	66.6	73.1	55.2	64.1	94	18	53	53	85	64	.455	.462	38.04	3.41	5.2	4.6	4.9

WALLA WALLA, WASH.

[λ=46° 02′ N.; φ=118° 20′ W.]

January	29.030	29.602	28.195	37.6	38.9	42.4	33.9	38.2	59	20	32	34	82	84	.189	.203	1.34	.51	7.9	8.0	7.7
February	29.145	29.351	28.620	29.8	39.4	42.4	27.1	34.8	57	13	26	30	85	70	.140	.177	.11	.11	4.2	5.2	4.9
March	28.890	29.303	28.512	39.0	49.0	52.5	35.5	44.0	73	21	36	42	89	79	.219	.282	1.92	.55	6.1	5.9	5.7
April	28.949	29.222	28.658	41.4	57.5	60.0	38.8	49.4	75	31	38	46	88	67	.230	.313	.89	.34	5.3	6.3	5.1
May	28.912	29.238	28.681	49.5	68.3	70.1	47.5	58.8	97	38	43	47	78	49	.280	.332	1.26	.40	5.4	4.9	4.3
June	28.883	29.281	28.482	59.0	80.3	82.7	56.7	69.7	96	47	51	53	74	41	.375	.405	.79	.26	4.8	5.2	3.4
July	28.903	29.149	28.656	59.4	81.4	83.4	57.3	70.4	101	47	50	50	71	36	.365	.369	.60	.51	3.5	2.9	2.7
August	28.855	29.067	28.597	61.1	83.5	84.4	59.4	71.9	101	51	50	51	68	36	.363	.386	1.19	.60	2.3	2.3	2.1
September	28.940	29.225	28.445	53.4	70.6	73.4	50.4	61.9	86	38	48	55	83	62	.340	.456	1.47	.71	3.9	4.8	3.7
October	29.027	29.287	28.457	48.1	61.7	65.8	45.0	55.4	77	32	44	52	84	72	.286	.398	1.29	.76	3.2	4.4	3.7
November	28.964	29.451	28.044	40.0	42.8	48.1	36.1	42.1	74	23	36	39	88	88	.215	.248	3.15	1.20	6.3	6.7	7.2
December	29.214	29.536	28.647	32.0	33.8	37.5	29.5	33.5	56	21	30	32	94	92	.170	.181	1.69	.40	4.9	6.1	8.3
Year	28.976	29.602	28.044	45.9	58.9	61.9	43.1	52.5	101	13	40	44	82	65	.264	.312	15.70	1.20	4.8	5.2	4.9

[a] 8 p. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

TOPEKA, KANS.

[H = — ft.; h_t=85 ft.; h_r=78 ft.; h_a=89 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	9.7	NW.	43	NW.	1	6	3	0	2	10	2	3	5	0	11	9	11	5	3	4	0	2	5	0	26	0	0
February	10.5	N.	34	N.	0	6	4	4	0	1	5	2	6	0	10	9	9	7	6	4	0	0	9	0	26	0	0
March	9.1	S.	29	S.	0	6	1	3	4	10	2	2	3	0	7	13	11	5	4	1	0	4	0	0	15	1	0
April	12.8	S.	38	S.	0	6	3	1	4	7	2	3	4	0	7	17	6	9	7	2	1	0	0	0	2	6	0
May	10.5	S.	43	SW.	2	3	3	4	4	13	2	0	1	1	6	13	12	19	17	0	0	0	0	0	0	11	0
June	6.3	N.	27	S.	0	7	4	3	5	4	3	0	3	0	10	14	6	10	9	0	0	0	0	2	0	7	0
July	8.4	S.	39	SW.	0	3	2	4	6	12	0	2	2	0	14	11	6	12	8	0	0	0	0	10	0	9	0
August	7.6	S.	36	N.	0	4	7	2	5	10	1	0	2	0	10	17	4	11	9	0	1	2	0	6	0	12	0
September	9.9	S.	34	S.	0	6	2	1	3	16	1	0	1	0	12	12	6	8	7	0	0	0	0	0	0	8	0
October	7.9	S.	32	SW.	0	3	3	3	9	6	2	2	3	0	15	8	8	8	8	0	0	0	0	0	0	4	0
November	9.6	S.	31	S.	0	9	1	3	4	8	1	1	3	0	9	9	12	5	4	1	0	1	3	0	14	1	0
December	9.4	NW.	35	NW.	0	4	2	2	2	5	2	4	10	0	17	9	5	6	4	2	0	0	5	0	29	1	0
Year	9.3	S.	43	NW.	3	63	35	30	48	102	23	20	43	1	128	141	96	105	86	14	2	9	22	18	112	60	0

VALENTINE, NEBR.

[H=2,598 ft.; h_t=47 ft.; h_r=36 ft.; h_a=54 ft.]

January	11.5	NW.	60	NW.	3	2	0	2	6	1	6	20	25	0	19	8	4	4	2	4	0	1	11	0	31	0	0
February	9.7	NW.	49	NW.	2	9	4	3	4	2	8	10	16	0	11	6	11	6	4	6	0	0	17	0	28	0	0
March	12.0	NW	41	SW.	2	8	8	6	5	6	12	3	13	1	14	8	9	5	3	3	0	0	9	0	27	2	0
April	13.4	N.	55	SE.	2	18	5	4	5	11	3	4	10	0	15	8	7	5	4	1	0	0	0	0	12	2	0
May	13.3	NE.	76	SW.	4	8	13	4	8	9	3	10	7	0	15	11	5	12	8	0	1	0	0	0	0	5	0
June	10.3	S.	50	NW.	1	8	7	7	8	14	4	3	9	0	12	12	6	11	5	0	1	2	0	1	0	7	0
July	11.9	SE.	42	E.	2	7	5	8	17	10	5	2	8	0	12	9	10	12	10	0	0	1	0	8	0	13	0
August	9.8	S.	36	S.	0	10	5	12	10	9	4	5	7	0	15	14	2	7	5	0	1	0	0	3	0	6	0
September	10.5	NW.	37	N.	0	11	6	5	3	6	9	9	11	0	7	11	12	8	7	1	0	1	0	3	3	3	0
October	11.6	NW.	57	NW.	2	11	3	3	5	11	5	6	17	1	18	8	5	3	1	0	0	3	0	0	6	0	1
November	10.4	NW.	36	SW.	0	10	2	7	6	6	7	6	16	0	10	7	13	3	0	2	0	1	4	0	24	0	0
December	11.6	NW.	49	N.	4	9	5	2	1	3	4	14	24	0	12	6	13	5	2	5	0	0	4	0	31	0	0
Year	11.3	NW.	76	SW.	22	111	63	63	78	88	70	92	163	2	160	108	97	81	51	22	3	9	45	15	162	38	1

VICKSBURG, MISS.

[H=247 ft.; h_t=62 ft.; h_r=53 ft.; h_a=74 ft.]

January	8.1	NW.	34	NW.	0	5	9	7	11	7	7	4	12	0	7	15	9	13	11	0	0	1	0	0	5	2	0
February	8.5	NW.	36	W.	0	2	10	9	8	7	6	3	11	0	7	5	16	14	12	1	1	1	0	0	3	7	0
March	6.8	N.	23	NW.	0	15	13	12	9	8	2	2	1	0	3	11	17	13	11	0	0	0	0	0	0	4	0
April	9.4	S.	36	NW.	0	7	6	7	9	13	6	1	11	0	13	11	6	2	1	0	0	0	0	0	0	0	0
May	6.9	E.	38	W.	0	6	4	16	14	11	8	2	1	0	5	17	9	8	6	0	0	0	0	0	0	2	0
June	5.5	NE.	24	N.	0	6	13	6	6	4	12	2	11	0	9	12	9	9	8	0	0	0	0	1	0	7	0
July	5.4	SE.	40	W.	1	4	2	9	12	9	10	7	9	0	11	6	14	10	5	0	0	0	0	8	0	14	0
August	5.1	SW.	35	SW.	0	4	4	6	13	8	14	6	7	0	11	12	8	9	9	0	0	1	0	14	0	17	0
September	5.7	N.	32	NE.	0	19	1	13	9	3	4	0	10	1	22	4	4	4	3	0	0	0	0	5	0	3	0
October	5.5	N.	21	NW.	0	20	7	9	7	5	4	2	8	0	17	8	6	5	4	0	0	0	0	0	0	2	0
November	6.5	N.	26	NW.	0	13	10	9	7	8	6	2	4	1	14	11	5	3	2	0	0	1	0	0	4	2	0
December	7.4	SE.	36	NW	0	10	6	6	15	8	8	2	7	0	17	6	8	8	7	0	0	0	0	0	7	1	0
Year	6.7	SE.	40	W.	1	111	85	109	120	91	87	33	92	2	136	118	111	98	79	1	1	4	0	28	19	61	0

WALLA WALLA, WASH.

[H=1,000 ft.; h_t=65 ft.; h_r=56 ft.; h_a=71 ft.]

January	5.8	S.	32	SE.	0	4	1	2	8	20	14	12	1	0	1	12	18	11	8	5	0	0	5	0	16	0	0
February	4.4	S.	38	SW.	0	4	1	2	5	26	8	8	2	0	12	9	7	1	1	1	0	1	5	0	21	0	0
March	6.4	S.	35	S.	0	3	5	4	7	31	6	5	1	0	9	15	7	12	11	4	0	0	0	0	13	1	0
April	6.6	S.	30	S.	0	5	0	5	9	23	9	5	4	0	8	18	4	8	8	0	0	0	0	0	1	0	0
May	6.1	S.	24	SW.	0	5	5	1	11	22	14	4	0	0	13	16	2	10	9	0	0	0	0	1	0	1	0
June	5.6	S.	38	NE.	0	4	7	9	6	21	4	7	2	0	19	11	0	6	4	0	0	0	0	7	0	4	0
July	6.2	S.	33	NE.	0	2	2	4	13	20	13	7	1	0	21	10	0	5	3	0	0	0	0	7	0	4	0
August	5.2	S.	16	S.	0	2	2	6	8	22	16	4	2	0	27	3	1	3	2	0	0	0	0	9	0	0	0
September	5.5	S.	22	SW.	0	5	2	7	10	13	18	3	2	0	16	11	3	7	5	0	0	0	0	0	0	1	0
October	4.5	SE.	30	SW.	0	3	0	7	15	20	14	1	2	0	16	11	4	6	6	0	0	0	0	0	0	1	1
November	5.8	S.	46	SW.	1	5	1	7	6	25	12	3	1	0	2	13	15	16	12	1	0	6	3	0	8	0	0
December	3.9	S.	26	SE.	0	5	4	3	7	15	12	11	5	0	3	5	23	11	8	2	0	12	11	0	24	0	0
Year	5.5	S.	46	SW.	1	47	30	57	105	258	140	70	23	0	147	134	84	96	78	13	0	19	24	24	83	11	1

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

WASHINGTON, D. C.

[λ=38° 54′ N.; φ=77° 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	29.900	30.447	29.246	29.5	34.4	41.1	25.8	33.4	58	11	23	27	75	74	.131	.156	4.26	1.86	6.1	4.9	6.1	
February	29.983	30.539	29.237	32.6	39.3	46.1	28.6	37.4	73	3	26	28	76	66	.163	.171	5.32	1.70	5.2	4.1	5.1	
March	30.086	30.446	29.487	44.7	52.2	59.3	40.8	50.0	74	25	41	45	88	78	.270	.311	5.73	2.09	5.8	4.8	6.1	
April	29.785	30.328	29.259	49.9	56.8	63.9	44.1	54.0	89	26	44	45	80	68	.293	.303	4.29	1.30	4.7	5.1	5.3	
May	30.014	30.363	29.799	60.6	67.0	75.2	53.7	64.4	91	38	54	55	80	67	.435	.448	2.75	.68	4.5	3.9	4.3	
June	29.812	30.175	29.513	63.6	68.8	75.4	58.7	67.0	87	48	59	61	85	77	.506	.549	3.60	.94	6.9	6.0	6.5	
July	29.845	30.058	29.518	73.3	76.3	86.1	65.9	76.0	96	56	65	67	75	73	.622	.661	5.17	3.11	3.0	4.4	3.4	
August	29.872	30.292	29.649	68.9	72.6	79.4	64.2	71.8	96	54	64	66	84	81	.567	.653	4.52	1.07	6.7	5.4	6.3	
September	30.028	30.321	29.631	63.1	66.5	77.4	56.9	67.2	88	42	57	59	81	77	.498	.520	.74	.48	4.3	2.3	3.7	
October	29.945	30.265	29.523	52.6	57.1	66.3	47.4	56.8	80	33	48	49	83	75	.352	.367	4.48	1.41	4.7	4.1	4.6	
November	29.995	30.600	29.559	36.2	41.6	52.1	31.2	41.6	73	18	31	32	80	69	.186	.200	.80	.36	4.5	2.3	4.3	
December	29.964	30.480	29.333	28.1	33.1	40.2	24.1	32.2	51	12	20	23	72	64	.115	.124	1.89	1.19	4.3	3.5	4.1	
Year	29.936	30.600	29.237	50.3	55.5	63.5	45.1	54.3	96	3	41	46	80	72	.347	.372	43.55	3.11	5.1	4.2	5.0	

WICHITA, KANS.

[λ=37° 41′ N.; φ=97° 20′ W.]

January	28.598	28.990	28.081	27.5	37.6	44.9	24.8	34.8	65	5	24	26	84	62	.131	.143	.08	.02	3.6	4.0	4.6	
February	28.681	29.147	28.101	23.0	32.6	38.7	20.5	29.6	69	− 6	20	23	85	70	.115	.132	1.71	.93	4.4	4.0	4.6	
March	28.672	29.088	28.360	37.0	50.2	55.7	35.3	45.5	76	12	34	40	89	70	.206	.265	1.61	.97	3.4	4.1	5.1	
April	28.505	28.965	27.982	48.6	61.6	68.3	45.3	56.8	89	30	42	45	80	57	.281	.318	3.31	1.72	3.9	3.3	3.8	
May	28.481	28.891	28.151	58.2	65.8	71.3	54.5	62.9	84	34	54	56	88	72	.441	.467	7.97	2.25	6.9	6.6	6.2	
June	28.563	28.957	28.285	61.7	74.2	78.7	59.1	68.9	94	46	57	57	84	57	.465	.470	1.26	.60	5.7	5.4	4.9	
July	28.589	28.739	28.311	71.5	86.2	91.5	68.9	80.2	105	58	66	65	84	51	.645	.626	1.46	.56	5.0	2.8	3.1	
August	28.557	28.738	28.323	68.2	81.8	87.4	66.8	77.1	97	56	64	66	88	61	.614	.652	4.46	1.99	4.0	3.4	3.8	
September	28.600	28.897	28.275	59.4	72.2	80.6	56.9	68.8	93	39	53	54	80	55	.425	.438	2.25	.80	3.6	3.5	3.3	
October	28.649	29.011	27.949	49.8	62.4	69.9	46.4	59.2	85	35	44	45	82	57	.314	.328	5.96	3.26	4.3	3.3	3.9	
November	28.682	29.235	28.152	35.8	45.0	51.7	34.0	42.8	76	12	32	34	87	66	.196	.213	.75	.46	3.9	4.2	4.4	
December	28.589	29.114	28.137	27.3	40.6	49.5	24.3	36.9	64	9	22	25	80	54	.122	.141	.26	.25	3.3	2.3	3.1	
Year	28.603	29.235	27.949	47.3	59.2	65.7	44.9	55.3	105	− 6	43	45	84	61	.330	.349	31.08	3.26	4.3	3.9	4.2	

WILLISTON, N. DAK.

[λ=48° 9′ N.; φ=103° 35′ W.]

January	27.912	28.330	27.251	8.1	14.0	23.1	0.7	11.9	42	−21	3	9	79	77	.056	.069	.40	.10	5.5	5.1	5.5	
February	28.093	28.525	27.522	−4.5	6.8	14.6	− 9.9	2.4	40	−46	−10	1	76	73	.036	.050	.27	.12	4.3	2.5	3.6	
March	28.044	28.504	27.517	13.3	24.2	29.2	7.8	18.5	62	−19	8	15	79	68	.070	.094	.09	.04	6.0	5.0	5.1	
April	27.922	28.434	27.404	33.8	52.2	57.2	30.3	43.8	81	12	26	30	74	45	.147	.173	.79	.41	3.5	4.8	5.1	
May	27.869	28.383	27.319	44.5	60.1	64.7	39.1	51.9	93	23	37	39	44	51	.226	.253	3.94	2.86	4.6	5.4	6.1	
June	28.004	28.425	27.628	53.8	70.2	74.3	50.1	62.2	85	30	48	50	82	51	.344	.371	2.06	1.05	4.2	5.9	5.2	
July	27.948	28.206	27.541	55.2	74.1	77.1	51.8	64.4	95	39	51	53	88	51	.384	.417	2.43	1.24	3.9	4.2	5.4	
August	27.971	28.215	27.664	52.8	71.8	75.1	50.5	62.8	95	37	50	53	89	54	.357	.408	5.02	2.61	4.3	4.4	5.3	
September	27.956	28.397	27.501	42.6	56.2	62.3	39.4	50.8	82	28	39	42	86	61	.242	.273	1.39	.48	6.1	5.3	5.2	
October	27.981	28.374	27.203	34.9	51.1	60.3	31.5	45.9	71	21	29	32	79	50	.160	.185	.05	.04	3.0	2.4	3.1	
November	28.044	28.540	27.397	18.5	26.7	34.7	14.8	24.8	69	−16	15	18	83	72	.093	.106	.18	.06	4.5	4.8	6.0	
December	28.009	28.482	27.406	15.7	18.3	26.4	7.5	17.0	46	−21	12	13	84	79	.079	.087	1.07	.44	5.9	5.4	5.7	
Year	27.979	28.540	27.203	30.7	43.8	49.9	26.1	38.0	95	−46	26	30	79	61	.183	.207	17.69	2.61	4.6	4.6	5.1	

WILMINGTON, N. C.

[λ=34° 14′ N.; φ=77° 57′ W.]

January	29.946	30.361	29.384	41.1	47.3	55.1	37.3	46.2	70	22	35	38	80	72	.233	.256	3.43	1.18	6.0	4.9	5.9	
February	30.047	30.502	29.133	46.0	51.3	61.1	42.3	51.7	76	28	39	42	76	71	.274	.300	3.64	1.67	5.6	4.6	5.8	
March	30.068	30.382	29.606	55.6	60.1	68.8	52.5	60.6	77	38	51	54	84	81	.393	.433	3.32	2.07	5.6	5.4	6.4	
April	29.846	30.301	29.283	57.0	60.5	70.1	51.9	61.0	86	35	49	49	77	67	.370	.362	2.05	1.13	4.6	4.9	5.0	
May	29.990	30.197	29.791	66.5	68.6	77.5	61.0	69.2	92	47	60	61	79	77	.521	.542	2.90	1.88	4.3	5.7	4.9	
June	29.833	30.165	29.575	71.0	73.9	81.8	66.6	74.2	89	55	65	66	82	78	.622	.650	8.63	3.93	5.3	7.2	6.4	
July	29.918	30.096	29.747	76.7	79.0	88.2	71.9	80.0	96	66	70	71	81	77	.743	.757	3.00	1.01	2.8	4.6	3.9	
August	29.879	30.229	29.703	76.5	78.4	87.7	72.0	79.8	97	66	72	73	87	84	.792	.819	14.35	3.87	4.7	5.9	5.3	
September	30.016	30.332	29.678	68.5	72.1	79.9	64.5	72.2	90	53	62	64	81	76	.579	.605	1.16	.40	3.5	3.8	4.4	
October	29.964	30.341	29.412	56.5	62.6	71.9	52.7	62.3	84	37	52	55	85	78	.417	.464	2.46	1.89	3.2	3.3	4.0	
November	30.019	30.454	29.587	45.1	51.3	60.3	41.5	50.9	78	21	39	40	80	67	.276	.291	1.68	.40	4.7	3.7	4.5	
December	30.030	30.402	29.506	36.6	43.5	53.3	32.0	42.6	68	19	29	32	73	62	.175	.188	2.35	.98	3.6	3.3	3.5	
Year	29.963	30.502	29.133	58.1	62.4	71.3	53.8	62.6	97	19	52	54	80	74	.450	.472	48.22	3.98	4.5	4.8	5.0	

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

WASHINGTON, D. C.

[H=112 ft.; h_t=59 ft.; h_r=42 ft.; h_a=76 ft.]

Month.	Wind.														Number of days.											
	By self-register.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.		Minimum temperature below 32°.	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°.		Thunderstorms.	Auroras.
	Miles.		*Mi.*																							
January	7.5	NW.	36	NW.	0	4	4	2	2	13	5	12	20	0	10	5	16	13	9	4	0	3	4	0	23	0	0
February	8.2	NW.	44	SW.	2	4	3	6	3	12	3	11	13	1	11	6	11	10	10	1	0	1	3	0	15	0	0
March	6.9	S.	31	NW.	0	7	5	11	9	15	2	3	9	1	8	11	12	12	8	0	0	3	0	0	4	1	0
April	8.8	NW.	36	NW.	0	9	11	2	3	10	4	2	19	0	12	6	12	11	8	0	0	0	0	0	2	1	0
May	6.1	S.	34	NW.	0	2	12	7	13	11	4	4	9	0	17	7	7	11	10	0	0	0	0	1	0	5	0
June	5.7	S.	25	NW.	0	4	8	9	10	12	4	4	9	0	5	10	15	16	13	0	0	2	0	0	0	7	0
July	5.2	NW.	28	SW.	0	10	4	1	6	8	10	8	12	3	19	9	3	9	9	0	0	0	0	10	0	9	0
August	4.8	NE.	26	NW.	0	7	16	5	13	5	7	1	6	2	8	9	14	14	12	0	0	0	0	2	0	9	0
September	5.1	S.	32	NW.	0	13	5	3	6	15	1	2	15	0	16	9	5	4	3	0	0	0	0	0	0	5	0
October	7.2	NW.	40	NW.	1	7	3	3	6	13	8	2	19	1	16	6	9	10	9	0	0	0	0	0	0	0	1
November	6.2	NW.	28	NW.	0	8	3	1	7	7	3	9	22	0	13	11	6	6	6	1	0	1	3	0	15	0	0
December	7.1	NW.	40	NW.	1	6	4	2	1	10	7	6	26	0	17	5	9	9	5	6	0	0	2	0	24	0	0
Year	6.6	NW.	44	SW.	4	81	78	52	79	131	58	64	179	8	152	94	119	125	102	12	0	10	12	13	83	37	1

WICHITA, KANS.

[H=1,358 ft.; h_t=78 ft.; h_r=71 ft.; h_a=86 ft.]

January	9.4	S.	41	NW.	1	11	7	1	5	15	6	3	13	1	14	9	8	5	0	3	0	5	2	0	25	0	0
February	10.2	NE.	32	N.	0	8	18	2	6	7	6	5	4	0	15	4	9	7	6	3	0	2	9	0	25	1	0
March	9.0	S.	29	SW.	0	10	7	2	13	18	5	3	3	1	10	13	8	7	6	0	0	7	0	0	10	2	0
April	12.6	S.	37	N.	0	13	8	2	5	18	5	1	8	0	18	9	3	9	6	1	0	0	0	0	3	7	0
May	10.8	S.	32	S.	0	10	8	4	11	23	3	3	0	0	6	14	11	16	13	0	1	0	0	0	0	9	0
June	6.5	NE.	28	SW.	0	11	16	6	8	8	4	0	5	2	13	12	5	9	4	0	1	0	0	2	0	4	0
July	8.9	S.	34	SW.	0	5	4	6	16	24	6	0	1	0	24	5	2	6	4	0	0	0	0	21	0	6	0
August	7.6	S.	28	N.	0	6	11	11	16	17	0	0	1	0	14	16	1	6	6	0	0	1	0	8	0	9	0
September	8.9	S.	25	N.	0	10	4	2	21	22	0	0	1	0	20	7	3	6	4	0	0	0	0	5	0	4	0
October	7.2	SE.	26	S.	0	7	12	5	17	12	2	0	7	0	20	4	7	8	8	0	1	0	0	0	0	6	0
November	9.4	N.	30	S.	0	16	11	2	11	10	2	3	5	0	19	4	7	3	3	0	0	0	1	0	13	0	0
December	9.4	NW.	41	N.	1	11	6	2	8	13	3	3	16	0	20	8	3	2	1	0	0	0	2	0	28	1	0
Year	9.2	S.	41	NW.	2	118	112	45	137	187	42	21	64	4	193	105	67	84	61	7	4	15	14	36	104	49	0

WILLISTON, N. DAK.

[H=1,875 ft.; h_t=14 ft.; h_r=4 ft.; h_a=44 ft.]

January	8.9	NW.	66	NW.	4	5	5	3	9	11	9	8	11	1	10	8	13	7	5	7	0	0	26	0	31	0	0
February	7.8	S.	50	N.	1	8	1	2	5	10	12	8	7	3	15	6	7	4	3	4	0	0	25	0	28	0	2
March	9.9	N.	42	W.	1	14	4	9	10	6	2	10	6	1	11	10	10	4	1	4	0	0	21	0	29	0	0
April	11.3	SE.	48	NW.	1	9	5	6	14	4	8	9	5	0	11	9	10	6	5	2	0	0	0	0	16	1	0
May	11.5	W.	66	E.	5	4	7	7	10	8	9	10	7	0	7	10	14	12	9	0	0	1	0	1	3	5	0
June	9.3	SE.	40	NE.	1	11	11	7	9	8	3	6	4	1	11	8	11	10	7	0	0	0	0	0	1	4	1
July	10.4	SE.	50	W.	1	10	9	9	11	4	7	3	9	0	9	10	12	12	6	0	0	0	0	3	0	12	0
August	10.2	SE.	46	NE.	2	10	6	14	10	3	3	4	11	1	11	10	10	14	11	0	1	4	0	2	0	9	3
September	9.3	NE.	45	NW.	1	9	7	7	13	3	3	8	10	0	13	6	11	11	6	1	0	0	0	0	6	2	3
October	9.8	NW.	51	NW.	4	1	3	6	6	10	11	11	14	0	21	5	5	2	1	0	0	2	0	0	13	1	5
November	9.7	NW.	45	N.	1	7	4	2	10	10	4	12	11	0	9	6	15	7	2	7	0	0	14	0	30	0	8
December	10.7	W.	60	NW.	5	6	5	1	8	6	7	16	13	0	10	10	11	8	5	8	0	0	21	0	31	0	1
Year	9.9	SE.	66	NW.	27	94	67	73	115	83	78	105	108	7	138	98	129	79	61	33	1	7	107	6	188	34	18

WILMINGTON, N. C.

[H=78 ft.; h_t=82 ft.; h_r=76 ft.; h_a=90 ft.]

January	8.6	W.	38	NW.	0	6	12	1	3	5	14	13	8	0	7	14	10	12	11	0	0	1	0	0	6	2	0
February	10.1	SW.	51	W.	3	6	12	5	2	6	15	5	5	0	8	8	12	9	9	0	0	1	0	0	6	0	0
March	8.1	NE.	34	E.	0	6	20	7	5	8	11	3	2	0	5	14	12	9	8	0	0	3	0	0	0	1	0
April	9.9	SW.	40	W.	1	5	4	6	1	6	20	9	10	0	11	8	11	12	10	0	1	0	0	0	0	7	0
May	9.1	NE.	32	NE.	0	3	25	7	4	8	11	3	1	0	11	12	8	8	6	0	1	0	0	2	0	3	0
June	8.0	SW.	25	NW.	0	3	8	2	2	5	19	15	6	0	6	12	12	14	13	0	0	0	0	0	0	10	0
July	8.0	SW.	31	SW.	0	3	8	2	2	6	28	8	5	0	11	20	0	6	6	0	0	0	0	0	7	0	0
August	6.4	SW.	42	NW.	1	2	11	3	3	8	17	12	6	0	10	12	9	18	17	0	0	0	0	11	0	12	0
September	7.6	NE.	26	S.	0	12	21	11	5	3	5	0	3	0	14	8	8	6	5	0	0	0	0	0	0	1	0
October	7.4	NW.	35	NW.	0	10	11	6	3	3	11	6	12	0	17	6	8	6	4	0	0	3	0	0	0	0	0
November	7.6	N.	28	N.	0	15	14	1	1	7	4	7	10	1	11	12	7	11	7	0	0	1	0	0	8	1	0
December	8.0	W.	34	SW.	0	12	5	2	0	7	12	13	10	1	16	9	6	7	7	0	0	0	0	0	16	0	0
Year	8.2	SW.	51	W.	5	83	151	52	31	72	167	94	78	2	127	135	103	118	103	0	2	9	0	20	36	44	0

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

WINNEMUCCA, NEV.

[λ=40° 58′ N.; φ=117° 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	25.682	26.056	25.054	22.6	38.7	43.0	18.3	30.6	59	−4	19	28	86	66	.114	.155	1.78	1.40	4.8	6.0	4.9
February	25.699	25.965	25.171	8.3	25.6	28.8	2.9	15.8	44	−21	6	19	87	74	.065	.104	.39	.15	3.2	3.6	3.0
March	25.527	25.846	25.246	31.0	45.8	48.8	27.6	38.2	65	14	27	30	83	58	.146	.167	.98	.50	5.3	5.9	5.9
April	25.564	25.839	25.256	34.0	53.5	56.0	30.8	43.4	74	16	27	28	75	39	.147	.151	.59	.33	3.9	4.2	4.6
May	25.561	25.794	25.229	40.5	65.2	67.6	38.0	52.8	90	30	31	28	68	28	.173	.158	.15	.06	4.0	4.1	4.2
June	25.587	25.886	25.257	52.6	77.9	81.0	49.7	65.4	91	36	39	41	62	30	.246	.268	.74	.66	2.3	3.3	3.9
July	25.604	25.750	25.245	52.9	80.7	82.8	49.7	66.2	90	33	36	45	54	29	.216	.298	T.	T.	1.1	2.8	.9
August	25.586	25.765	25.356	52.4	84.4	86.4	48.8	67.6	96	34	37	48	56	29	.220	.335	.05	.05	.1	.6	.5
September	25.630	25.906	25.217	42.8	71.9	74.7	38.7	56.7	91	25	27	32	54	26	.148	.186	.06	.06	1.5	2.6	1.8
October	25.734	25.951	25.405	38.3	64.2	68.6	33.6	51.1	82	23	26	30	61	30	.148	.167	.47	.40	2.6	3.3	3.0
November	25.667	25.891	25.278	33.5	47.3	53.8	28.1	41.0	68	11	26	32	76	59	.146	.187	1.24	.56	3.3	6.5	5.2
December	25.804	26.080	25.420	21.5	38.5	43.2	17.7	30.4	58	7	16	25	79	56	.093	.129	.08	.08	2.0	4.0	3.1
Year	25.637	26.080	25.054	35.9	57.8	61.2	32.0	46.6	96	−21	26	32	70	44	.155	.192	6.53	1.40	2.8	4.2	3.4

WYTHEVILLE, VA.

[λ=36° 56′ N.; φ=81° 5′ W.]

January	27.574	27.878	27.089	27.7	32.1	40.0	24.4	32.2	62	8	24	27	85	82	.137	.155	3.21	1.54	5.5	4.7	5.7
February	27.668	28.065	26.822	31.5	38.7	48.7	26.8	37.8	66	2	28	30	85	70	.172	.180	5.33	1.88	5.4	4.0	4.6
March	27.768	28.024	27.286	43.4	51.4	58.6	40.0	49.3	72	23	40	43	89	75	.263	.295	5.08	1.74	5.9	5.5	6.5
April	27.546	27.966	27.036	45.2	52.5	61.0	40.1	50.6	79	22	38	40	77	66	.239	.257	3.67	.61	6.3	5.0	5.4
May	27.745	27.929	27.568	57.4	64.7	74.7	49.9	62.3	87	35	50	54	78	69	.385	.427	2.85	1.26	3.6	3.7	3.1
June	27.603	27.891	27.377	59.5	64.2	73.4	53.6	63.5	85	45	55	57	86	78	.439	.473	3.67	2.00	5.1	5.5	4.7
July	27.694	27.886	27.497	66.9	72.7	83.1	59.9	71.5	90	46	62	63	85	72	.565	.577	2.61	1.65	2.5	4.7	2.8
August	27.673	27.986	27.487	65.8	70.7	80.8	60.7	70.8	90	53	62	63	89	78	.562	.584	3.69	1.38	3.8	4.2	4.2
September	27.799	28.024	27.532	55.0	62.0	75.0	49.6	62.3	85	34	52	55	90	74	.408	.445	1.05	.72	2.6	1.5	3.0
October	27.728	27.994	27.426	45.4	54.1	65.1	41.4	53.2	79	24	40	42	81	63	.265	.288	1.60	.82	3.7	3.3	3.7
November	27.694	28.124	27.236	31.9	37.3	49.0	26.2	37.6	72	2	28	30	84	72	.166	.185	2.06	.80	5.6	3.0	4.4
December	27.635	27.937	27.194	24.2	29.3	37.6	20.1	28.8	52	−2	18	22	78	72	.106	.118	1.34	.83	4.8	3.5	4.5
Year	27.677	28.124	26.822	46.2	52.5	62.2	41.1	51.7	90	−2	41	44	84	73	.309	.332	36.11	2.00	4.6	4.0	4.4

YANKTON, S. DAK.[a]

[λ=42° 54′ N.; φ=97° 28′ W.]

January	28.656	29.024	28.234	16.2	.....	31.3	12.1	21.7	49	−9	12	....	81	....	.075	.....	.17	.08	6.4	.....	6.5
February	28.802	29.224	28.040	7.9	.....	24.0	2.9	13.4	47	−22	4	....	84	....	.055	.....	2.58	1.88	4.4	.....	4.1
March	28.783	29.100	28.446	27.9	.....	43.7	25.9	34.8	71	10	23	....	80	....	.126	.....	2.13	.75	5.1	.....	4.9
April	28.565	29.059	28.122	40.8	.....	61.6	36.4	49.0	79	18	36	....	82	....	.215	.....	1.65	.80	4.2	.....	4.4
May	28.588	28.994	28.262	54.1	.....	70.6	49.7	60.2	85	33	48	....	80	....	.347	.....	7.60	1.88	4.9	.....	4.9
June	28.694	29.124	28.267	61.0	.....	77.8	55.9	66.8	93	38	55	....	83	....	.451	.....	3.35	1.39	4.3	.....	4.1
July	28.639	28.877	28.270	68.0	.....	83.3	61.7	72.5	95	48	61	....	80	....	.549	.....	4.88	2.60	5.0	.....	5.1
August	28.635	28.875	28.307	63.9	.....	80.2	60.4	70.3	92	49	60	....	89	....	.584	.....	4.98	1.85	5.5	.....	4.6
September	28.631	29.050	28.082	53.0	.....	72.6	49.1	60.8	95	32	49	....	85	....	.361	.....	1.74	.71	5.9	.....	5.3
October	28.721	29.220	28.100	42.8	.....	67.2	40.5	53.8	86	32	39	....	86	....	.244	.....	1.23	.52	3.9	.....	3.5
November	28.769	29.228	28.131	27.7	.....	42.3	24.7	33.5	70	0	24	....	83	....	.139	.....	.70	.52	5.8	.....	5.6
December	28.716	29.231	28.379	17.4	.....	32.3	10.1	21.2	51	−14	12	....	80	....	.077	.....	.37	.15	5.6	.....	6.2
Year	28.683	29.228	28.040	40.1	.....	57.2	35.8	46.5	95	−22	35	....	83	....	.264	.....	31.38	2.60	5.1	.....	4.9

YELLOWSTONE PARK, WYO.

[λ=44° 58′ N.; φ=110° 42′ W.]

January																					
February																					
March																					
April																					
May																					
June																					
July																					
August																					
September																					
October																					
November																					
December	23.972	24.245	23.479	18.8	24.5	30.5	14.4	22.4	40	2	13	15	76	66	.077	.083	.40	.14	4.6	5.2	5.2
Year																					

[a] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—Continued.

WINNEMUCCA, NEV.

[H=4,344 ft.; h_t=59 ft.; h_r=52 ft.; h_s=70 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	9.1	NE.	61	SW.	3	0	23	3	1	3	16	12	1	3	16	3	12	10	5	4	0	0	4	0	26	0	0
February	8.2	NE.	30	SW.	0	3	31	3	0	2	11	3	2	1	17	7	4	3	3	3	0	0	14	0	28	0	0
March	8.7	NE.	52	SW.	1	4	17	5	2	5	16	6	4	3	8	7	16	12	8	9	0	0	0	0	24	0	0
April	9.3	SW.	38	NW.	0	4	14	2	0	3	19	6	12	0	15	4	11	4	4	2	0	0	0	0	18	1	0
May	8.8	NE.	46	SW.	2	5	20	2	1	4	12	4	14	0	17	5	9	5	2	2	0	0	0	0	4	0	0
June	8.6	NE.	31	SW.	0	1	22	3	0	2	16	11	4	1	16	8	6	5	1	0	0	0	0	2	0	5	0
July	8.9	NE.	42	SW.	1	0	17	3	0	6	16	7	12	1	26	5	0	0	0	0	0	0	0	0	0	0	0
August	7.5	SW.	32	W.	0	0	14	1	0	2	20	14	9	2	29	1	1	1	1	0	0	0	0	8	0	0	0
September	7.3	NE.	44	SW.	1	3	18	1	1	1	9	9	17	1	22	7	1	1	1	0	0	0	0	3	4	0	0
October	8.2	NE.	56	W.	1	6	25	1	2	1	16	6	5	0	20	4	7	4	2	0	0	0	0	0	16	0	0
November	10.5	NE.	60	SW.	4	4	24	4	0	10	8	8	1	1	12	3	15	5	4	0	0	0	0	0	20	1	0
December	7.5	NE.	23	W.	0	1	26	7	1	6	8	9	3	1	18	8	5	2	1	2	0	0	0	0	30	0	0
Year	8.6	NE.	61	SW.	13	31	251	35	8	45	167	95	84	14	216	62	87	52	32	22	0	0	18	13	170	7	0

WYTHEVILLE, VA.

[H=2,293 ft.; h_t=40 ft.; h_r=32 ft.; h_s=47 ft.]

January	7.5	W.	32	W.	0	1	5	7	1	0	15	28	5	0	10	7	14	13	8	8	0	6	5	0	23	0	0
February	7.7	W.	36	W.	0	4	3	7	2	1	4	27	8	0	14	4	10	10	10	0	1	1	3	0	20	2	0
March	4.6	E.	20	NW.	0	6	10	10	7	3	8	11	7	0	6	11	14	11	10	2	0	7	0	0	8	1	0
April	6.1	W.	30	W.	0	3	2	3	1	6	12	18	14	1	12	7	11	12	9	1	0	1	0	0	3	2	0
May	4.5	E.	17	NW.	0	2	4	23	9	3	7	7	7	0	15	14	2	9	6	0	0	0	0	0	0	5	0
June	4.7	W.	28	NW.	0	2	3	14	4	2	8	13	14	0	11	13	6	17	14	0	0	2	0	0	0	7	0
July	4.1	W.	24	W.	0	5	1	4	2	3	19	13	15	0	15	15	1	11	8	0	0	4	0	0	0	12	0
August	4.0	W.	18	S.	0	0	5	10	3	0	18	14	12	0	12	16	3	13	11	0	0	5	0	1	0	9	0
September	3.4	E.	17	NW.	0	5	5	17	5	2	7	10	9	0	18	10	2	5	4	0	0	5	0	0	0	6	0
October	5.5	NW.	24	NW.	0	1	3	5	3	3	8	12	26	1	14	11	6	5	3	0	0	3	0	0	5	0	0
November	4.8	NW.	28	W.	0	5	1	6	1	2	9	18	18	0	11	13	6	10	7	4	0	2	5	0	22	0	0
December	7.4	W.	30	W.	0	1	3	3	1	2	14	32	6	0	17	2	12	8	5	6	0	0	7	0	30	0	0
Year	5.4	W.	36	W.	0	35	45	109	39	27	129	203	141	2	155	123	87	124	95	21	1	36	20	1	111	43	0

YANKTON, S. DAK.

[H=1,233 ft.; h_t=42 ft.; h_r=32 ft.; h_s=49 ft.]

January	7.7	NW.	50	NW.	2	2	1	1	5	3	0	8	11	0	8	7	16	4	2	3	0	0	14	0	31	0	0
February	7.9	W.	42	NW.	2	0	3	2	2	4	4	8	5	0	13	11	4	6	5	6	0	0	17	0	28	0	0
March	8.3	NW.	28	SE.	0	1	4	0	5	3	4	1	13	0	14	7	10	6	5	3	1	1	4	0	23	3	0
April	10.8	NW.	35	N.	0	2	4	3	3	3	0	4	11	0	14	9	7	8	6	2	0	2	1	0	10	3	0
May	9.0	SW.	46	SE.	2	4	5	5	5	3	6	1	2	0	13	12	6	15	13	0	0	1	0	0	0	10	0
June	5.6	E.	37	N.	0	2	1	9	4	0	4	3	7	0	14	12	4	12	10	0	0	2	2	0	2	9	0
July	6.8	E.	34	NW.	0	3	6	7	2	5	3	3	2	0	10	16	5	13	12	0	0	2	0	0	2	9	0
August	5.4	E.	33	NE.	0	3	6	8	3	2	4	2	3	0	16	6	9	12	9	0	0	3	0	0	6	5	0
September	7.7	SE.	31	SE.	0	2	0	6	7	4	3	3	5	0	12	8	10	11	8	0	2	1	0	2	3	9	0
October	8.1	NW.	42	W.	1	1	2	3	5	2	4	6	7	1	20	8	3	5	5	0	0	0	0	0	0	2	1
November	8.3	NW.	29	NW.	0	2	3	4	2	3	3	4	9	0	7	13	10	5	2	3	0	2	7	0	22	0	0
December	8.7	NW.	36	W.	0	1	1	1	3	3	6	7	9	0	5	14	12	5	3	5	0	0	13	0	31	0	0
Year	7.9	NW.	50	NW.	7	23	36	49	46	35	41	50	84	1	146	123	96	102	80	22	5	14	56	12	146	48	1

YELLOWSTONE PARK, WYO.

[H=6,200 ft.; h_t=11 ft.; h_r=4 ft.; h_s=47 ft.]

January																											
February																											
March																											
April																											
May																											
June																											
July																											
August																											
September																											
October																											
November																											
December	7.3	S.	28	NW.	0	2	1	0	6	20	24	2	4	0	8	16	6	8	4	8	0	0	19	0	30	0	0
Year																											

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—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	29.887	30.070	29.587	45.9	66.2	69.4	42.5	56.0	76	33	29	31	54	28	.162	.181	T.	T.	.5	1.8	1.8
February	29.868	30.102	29.535	43.4	62.2	65.0	40.8	52.9	82	29	31	38	63	45	.177	.242	.23	.22	.9	2.0	2.1
March	29.801	30.064	29.574	52.1	74.8	77.2	49.1	63.2	90	38	35	32	53	23	.212	.197	T.	T.	1.2	2.0	1.7
April	29.712	29.957	29.436	55.8	80.6	83.3	53.5	68.4	97	47	37	30	52	17	.228	.169	T.	T.	.5	1.0	.5
May	29.623	29.798	29.405	60.8	88.4	91.5	59.6	75.6	106	50	47	38	61	18	.330	.235	.00	.00	.2	.6	.8
June	29.583	29.744	29.375	70.5	97.9	101.0	69.3	85.2	112	60	55	45	60	18	.441	.316	.00	.00	.2	.5	.5
July	29.609	29.697	29.401	77.5	100.9	104.1	76.0	90.0	111	69	62	53	61	22	.572	.417	.04	.04	1.2	.5	.9
August	29.587	29.786	29.330	79.2	100.5	103.9	78.1	91.0	113	72	68	60	68	28	.680	.536	T.	T.	.4	.9	.6
September	29.654	29.828	29.421	71.2	91.8	96.5	70.4	83.4	112	59	59	55	67	31	.531	.458	.67	.67	1.0	1.3	1.5
October	29.762	29.923	29.565	60.7	84.5	90.8	58.8	74.8	96	51	42	42	54	24	.279	.276	.04	.04	.0	.5	.3
November	29.821	29.979	29.637	54.8	73.7	80.5	50.9	65.7	87	42	33	38	47	28	.197	.235	.00	.00	.2	.9	1.2
December	29.933	30.135	29.626	48.3	63.5	70.2	44.7	57.4	80	34	24	26	40	24	.130	.142	T.	T.	1.0	.9	1.1
Year	29.737	30.135	29.330	60.0	82.1	86.1	57.8	72.0	113	29	44	41	57	26	.328	.284	.98	.67	.7	1.1	1.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903—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-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	5.9	N.	37	N.	0	22	19	4	0	5	1	3	7	1	23	4	4	0	0	0	0	0	0	0	0	0	0
February	7.6	N.	29	NW.	0	29	5	3	3	4	2	4	6	0	20	6	2	2	1	0	0	0	0	0	3	0	0
March	6.5	W.	30	W.	0	9	4	9	3	10	3	14	10	0	23	7	1	0	0	0	0	0	0	0	0	0	0
April	7.0	W.	32	NW.	0	7	4	4	3	8	8	16	10	0	28	1	1	0	0	0	0	0	0	7	0	0	0
May	7.1	SW.	34	S.	0	3	2	1	5	11	21	14	5	0	27	3	1	0	0	0	0	0	0	19	0	0	0
June	5.6	SW.	30	E.	0	3	0	3	2	13	29	9	1	0	28	2	0	0	0	0	0	0	0	30	0	0	0
July	6.3	SW.	23	S.	0	0	2	5	9	12	26	8	0	0	28	2	1	1	1	0	0	0	0	31	0	0	0
August	6.4	SW.	42	S.	1	3	5	3	9	11	15	15	0	1	29	2	0	0	0	0	0	0	0	31	0	0	0
September	6.0	SW.	25	S.	0	2	6	4	11	8	16	10	3	0	23	5	2	1	1	0	0	0	0	23	0	1	0
October	4.8	NE.	27	N.	0	12	18	11	0	2	7	9	3	0	30	1	0	2	0	0	0	0	0	22	0	0	0
November	5.0	N.	26	N.	0	25	13	10	1	6	0	3	2	0	25	4	1	0	0	0	0	0	0	0	0	0	0
December	6.9	N.	30	N.	0	40	8	2	1	3	0	2	6	0	26	3	2	0	0	0	0	0	0	0	0	0	0
Year	6.3	N.	42	S.	1	155	86	59	47	93	128	107	58	2	310	40	15	6	3	0	0	0	0	163	3	1	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, 1903.

The monthly and annual averages given in the following tables are taken largely from the records of unpaid cooperating observers. The paid stations of the Weather Bureau are indicated by an asterisk (*). The records of cooperating observers are given as made; no attempt has been made to reduce them to a homogeneous system. Nearly all of the cooperating 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 cooperating 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 "e" 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, 1903.

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.																	
Anniston (formerly Oxana)	48.0	[c]48.0	57.2	57.7	67.4	70.2	[e]76.4	[f]79.4	72.2	[e]65.4	[d]52.6	38.0	60.6	98	11	Apr. 5	Oct. 25
Ashville	41.8	45.8	58.0	59.6	67.3	71.1	78.2	78.5	69.9	59.8	48.0	39.0	59.8	95	11	Apr. 5	Oct. 25
Bermuda	.....	52.8	63.0	[c]63.5	[e]70.8	75.5	[b]81.1	[b]82.5	.....	.....	54.7	.....	.....	100	.....	.....	Oct. 25
*Birmingham	45.6	49.4	60.6	62.9	71.0	73.5	81.0	80.6	73.0	63.8	50.4	42.2	.....	97	13	Feb. 22	Oct. 25
Camphill	44.8	49.1	60.0	61.0	69.2	73.4	80.2	.....	76.4	65.8	.....	40.4	.....	99	16	Apr. 5	Oct. 25
Citronelle	49.6	54.8	63.0	65.6	71.2	76.2	80.8	81.0	77.2	68.5	57.0	48.6	66.1	98	20	Feb. 18	Nov. 18
*Clanton	.....	.....	58.7	58.2	67.5	72.0	78.2	81.2	73.8	63.3	52.2	40.6	.....	100	.....	Apr. 5	Oct. 25
Cordova	42.6	.....	60.1	60.8	68.3	73.2	79.8	80.6	71.8	61.5	49.3	[f]39.0	.....	99	14	Apr. 4	Oct. 19
Daphne	[c]50.5	55.3	63.4	65.8	71.4	76.8	81.5	82.6	[e]77.2	[f]68.9	58.4	48.6	66.7	99	23	Feb. 18	Nov. 19
*Decatur	45.4	48.6	59.2	61.0	71.2	72.2	80.8	79.6	72.2	63.2	.....	39.0	.....	98	9	Feb. 22	Oct. 25
Dothan	49.2	54.8	64.2	65.2	78.2	77.4	82.2	83.0	75.6	67.2	56.6	47.4	66.3	100	22	Feb. 18	Nov. 19
*Eufaula	46.0	50.9	61.8	61.8	69.7	75.3	79.9	80.7	72.5	62.9	51.8	40.8	62.8	95	20	Feb. 24	Oct. 25
Eutaw	45.5	47.8	[e]61.0	[c]61.8	[b]71.5	[e]76.3	[d]83.0	.....	.....	.....	[f]51.2	.....	.....	100	14	Feb. 23	.....
*Evergreen	46.9	52.8	63.0	62.9	71.3	75.8	80.7	80.8	74.0	64.1	51.7	46.3	64.2	102	20	Feb. 22	Oct. 24
Flomaton	48.6	54.2	63.1	62.9	[b]70.6	75.6	[e]79.4	80.6	74.7	64.2	56.0	.....	.....	99	18	.....	Oct. 25
Florence	41.6	45.4	57.2	59.6	69.0	70.5	79.0	79.8	72.4	61.8	49.6	38.4	60.4	99	3	Apr. 4	Oct. 25
*Fort Deposit	44.1	48.6	60.6	62.3	70.8	74.6	81.6	81.5	73.3	63.8	51.4	42.6	62.9	99	18	Feb. 25	Oct. 25
Gadsden	42.0	45.5	58.2	58.6	68.8	72.8	80.4	81.1	73.4	62.1	49.2	38.3	60.9	100	10	Apr. 5	Oct. 25
*Goodwater	41.4	46.5	58.6	59.2	68.4	72.2	79.5	80.0	72.0	62.2	49.4	39.2	60.7	98	13	Apr. 4	Oct. 25
Greensboro	46.4	51.4	.....	63.2	69.5	73.4	.....	81.0	73.9	64.4	52.4	42.4	.....	96	16	Feb. 23	Oct. 24
Haleysville	.....	.....	57.5	61.4	69.2	72.1	79.2	80.0	74.4	63.5	.....	.....	.....	98	.....	Mar. 25	.....
Hamilton	41.7	45.9	57.3	59.8	68.8	70.9	80.1	.....	.....	61.8	.....	38.1	.....	98	4	Mar. 26	Oct. 19
Highland Home	47.3	51.6	61.5	62.8	69.3	74.2	79.5	79.2	73.0	65.0	53.8	45.4	63.6	97	18	Feb. 22	Nov. 19
*Livingston	.....	50.0	59.9	60.8	70.1	73.6	80.6	81.1	72.5	62.5	48.7	38.0	.....	98	16	Feb. 25	Oct. 26
Lock No. 4	39.2	46.0	58.1	59.2	68.4	72.7	79.7	81.0	72.8	63.3	49.8	39.2	60.8	102	16	Mar. 2	Oct. 25
Madison	42.8	46.6	58.7	60.9	68.6	72.6	81.4	81.4	75.2	.....	50.8	38.2	.....	102	4	Feb. 22	Oct. 25
Maplegrove	39.4	43.8	56.8	57.0	68.0	71.6	77.6	79.6	71.2	61.2	46.8	36.2	59.1	100	10	Apr. 4	Oct. 18
*Marion	43.0	48.3	59.2	62.0	70.0	74.8	82.0	81.6	73.8	64.2	51.6	39.4	62.5	99	14	Feb. 23	Oct. 25
*Mobile	49.2	54.4	62.8	65.0	70.9	76.2	80.8	81.4	76.7	67.4	56.8	47.4	65.8	96	24	Feb. 17	Nov. 19
*Montgomery	46.4	51.2	61.4	62.5	70.8	74.9	80.6	81.4	73.9	65.4	52.6	44.0	63.8	97	19	Feb. 19	Nov. 18
Newbern	46.4	50.3	61.0	62.6	71.4	75.2	83.0	82.8	75.0	65.6	52.4	41.8	64.0	101	14	Feb. 24	Oct. 25
Newburg	41.4	43.9	.....	61.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	Apr. 5	.....
Oneonto	41.7	45.1	57.2	58.0	66.8	70.3	77.2	76.7	71.0	60.3	48.0	38.2	59.2	97	7	Apr. 5	Oct. 25
*Opelika	42.5	.....	59.8	59.0	70.2	73.8	79.8	80.4	72.4	62.6	49.4	39.6	.....	96	.....	Mar. 2	Oct. 25
*Ozark	45.1	52.0	62.6	63.4	71.4	76.2	79.9	82.1	74.9	65.6	[a]47.6	43.8	63.7	98	20	Feb. 22	Oct. 25
Prattville	46.0	49.8	60.6	61.2	69.8	73.5	79.9	80.4	72.2	63.5	51.2	41.2	62.4	96	14	Mar. 26	Oct. 26
Pushmataha	46.0	50.2	60.5	63.0	70.6	74.2	80.2	80.4	73.0	64.0	52.4	42.8	63.1	96	17	Mar. 26	Oct. 25
Riverton	38.4	43.0	55.7	58.6	67.9	69.6	78.8	78.8	70.8	61.1	48.8	37.4	59.1	100	3	Apr. 5	Oct. 18
Scottsboro	38.8	42.0	56.0	57.0	68.9	71.4	78.7	79.3	.....	.....	48.4	37.4	.....	98	8	Apr. 4	Oct. 25
*Selma	44.2	49.2	60.0	61.5	70.6	75.7	81.8	82.6	74.4	64.0	55.8	42.2	63.5	99	16	Feb. 22	Nov. 18
Spring Hill	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57.6	49.4	.....	.....	.....	.....	.....
Talladega	44.1	48.8	58.8	61.1	67.5	73.3	81.0	81.0	73.9	64.5	52.4	40.4	62.2	102	13	Apr. 6	Oct. 25
*Thomasville	44.3	48.7	60.8	[a]2.5	71.0	76.0	82.4	80.2	74.1	64.6	52.4	41.8	63.2	100	17	Feb. 23	Oct. 25
Tuscaloosa	42.5	46.6	59.0	60.6	69.5	[e]71.8	82.0	81.5	74.5	62.4	48.8	39.0	61.5	100	12	Mar. 26	Oct. 25
*Tuscumbia	39.8	42.4	56.4	59.2	70.0	71.6	81.0	81.0	71.8	60.6	.....	.....	.....	98	4	Mar. 26	Oct. 25
Tuskegee	47.3	52.0	62.7	63.7	71.6	75.0	81.2	82.4	75.3	67.0	53.8	44.2	64.7	100	18	Feb. 23	Oct. 25
*Union Springs	45.1	51.2	61.6	62.0	71.4	75.5	80.2	81.8	73.4	63.8	52.3	42.2	63.4	99	20	Feb. 22	Oct. 25
Uniontown	46.2	49.8	60.3	61.8	68.6	73.8	80.4	80.4	72.8	63.4	52.4	42.1	62.7	97	15	Feb. 23	Oct. 25
Valleyhead	40.6	45.4	56.8	57.5	68.7	70.3	77.0	77.6	70.9	60.2	47.2	35.9	59.0	97	7	Apr. 24	Oct. 25
Wetumpka	42.4	51.0	62.0	62.8	[e]70.2	75.2	81.0	82.1	74.4	65.8	53.6	43.6	63.7	99	19	Feb. 24	Oct. 25
Alaska.																	
Coal Harbor	23.2	29.6	35.0	33.5	40.6	46.8	50.2	51.6	48.1	37.5	30.6	31.9	38.2	69	−10	.....	.....
Copper Center	−8.6	8.0	11.8	24.1	47.4	57.0	58.4	58.3	43.3	26.4	−3.6	6.0	27.4	96	−55	.....	.....
Fort Egbert	−19.3	3.0	8.8	20.9	40.1	64.1	65.4	52.6	.....	.....	.....	.....	.....	87	−67	.....	.....
Fort Gibbon	−29.7	−4.4	8.0	14.7	39.4	56.2	57.7	.....	40.7	12.4	−6.5	0.2	.....	88	−68	.....	.....
Fort Liscum	16.2	19.8	21.8	28.7	43.4	48.8	51.2	50.4	44.2	33.6	23.3	28.1	34.1	72	−10	.....	.....
Fort Yukon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−12.6	− 7.1	.....	.....	−65	.....	.....
Juneau	.....	31.2	30.8	39.6	46.8	[c]55.3	[e]57.0	[e]56.8	50.2	.....	.....	.....	.....	79	5	.....	.....
Kenai	5.0	18.2	19.0	28.2	42.6	50.0	51.9	53.8	45.6	31.2	14.6	20.0	31.7	87	−46	.....	.....
Killisnoo	27.1	30.8	29.4	38.6	45.4	53.6	55.3	55.8	49.4	43.0	33.5	36.0	41.5	72	4	.....	.....
Kotzebue	−21.9	−2.8	4.7	4.7	26.8	43.7	58.2	.....	.....	.....	.....	.....	.....	.....	−54	.....	.....
Mine Harbor	14.4	27.2	31.4	32.3	39.6	47.2	.....	50.4	47.4	36.6	28.8	30.0	.....	68	−17	.....	.....
Orca	.....	.....	.....	.....	.....	.....	57.2	56.6	49.6	31.2	34.5	.....	.....	.....	.....	.....	.....
Point Barrow	−21.9	−15.6	−6.4	−3.0	18.1	36.1	38.2	38.5	30.1	5.7	−7.5	− 5.6	8.9	60	−52	.....	.....
Sitka	33.8	34.0	34.0	39.5	43.6	52.8	55.1	57.6	51.2	45.1	36.4	39.8	43.6	79	10	.....	.....
Skagway	19.6	27.1	29.0	39.4	48.4	57.6	58.4	56.9	49.8	40.6	28.1	33.6	40.7	82	−17	.....	.....
Tyoonok	11.0	19.3	24.2	32.2	44.8	52.4	55.3	56.8	49.3	34.6	21.2	25.2	35.5	91	−21	.....	.....
Wood Island	25.2	29.3	37.6	37.4	44.0	51.7	[e]55.8	58.6	54.4	40.7	33.1	35.2	41.9	85	0	.....	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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	51.8	50.5	61.6	68.5	75.6	85.8	91.5	°93.0	84.8	71.8	62.2	53.8	70.9	114	21	Mar. 19	Nov. 4
Arizona Canal Co.'s Dam	54.4	51.6	59.0	66.1	72.8	82.9	90.0	92.0	81.6	72.2	63.8	55.6	70.2	112	29	Feb. 28	Dec. 24
Ashfork			43.0	44.4	54.6	66.6	69.6				45.4					May 29	
Aztec	56.6	54.0	62.4	71.0	82.0		96.0	96.2	85.1	77.4	63.2	52.3		117	24	Mar. 22	Dec. 5
Benson			61.8	69.0	77.7		81.8	80.7	74.6	63.8	59.2	52.6		108		Apr. 10	Nov. 1
Bisbee	45.8	43.2	52.4		64.2	73.8	77.6	°74.8	70.4					98		Mar. 19	
Bowie	46.5	44.0	53.5	53.2				81.8	74.8	62.0	54.8	44.0			17	Apr. 30	Oct. 30
Buckeye	49.8	48.3	56.6	63.2	71.0	77.2	85.2	88.6	78.0	67.8				111		Apr. 28	Dec. 13
Casagrande							°94.8		82.8	72.1	63.0	51.8		117			Dec. 10
Champie Camp	49.4		58.0	63.4		74.2	79.5	81.0	73.6	69.6	61.3	51.1		114		Mar. 19	Dec. 5
Cochise (*a*)	50.7	44.1	56.4	60.7	64.4	76.7	80.0	75.2	69.9	61.3	53.6	46.0	61.6	110	21	Mar. 19	Nov. 19
Congress	52.0	46.0	56.9	68.0	71.5	82.4	85.4	86.2	77.3	71.8	64.8	54.6	67.7	105	26	Feb. 30	
Dragoon (*a*)	37.2				65.2		80.2	78.8	71.6	58.1	51.6	45.1		95			Dec. 11
Dudleyville	48.2	46.2	55.4	64.4	70.3	78.8	85.4	84.6	75.7	64.9	58.0	47.9	65.0	110	21	Mar. 23	Nov. 19
Duncan	41.7	40.4	49.2	57.4	62.2	70.8	79.2	78.2	70.2	56.4	49.2			104		May 19	Oct. 7
*Flagstaff	30.4	22.0	35.7	41.0	48.8	57.7	66.2	66.2	54.9	47.0	40.4	29.8	45.0	92	−18	June 15	Sept. 15
Fort Apache	37.8	34.1	43.7	51.2	58.2	66.9	74.0	72.8	63.7	54.1	48.6	37.5	53.6	100	4	May 19	Oct. 2
Fort Defiance	24.8	19.8	35.0	44.0	50.1	60.2	67.1	°66.6	53.7	45.6	38.2	24.4	44.1	91	−18	May 26	Sept. 15
Fort Grant	46.0	46.1	54.4	60.9	65.8	76.0	81.4	80.0	73.4	64.8	62.5	49.0	63.4	101	24	Mar. 16	Dec. 24
Fort Huachuca	47.0	44.6	55.4	61.5	66.0	79.5	81.2		76.4	69.2	58.6	46.8			19	Mar. 2	Dec. 13
Fort Mohave							91.2	92.8	82.7	72.0	61.6	51.0					Dec. 9
Gilabend				°66.5	75.5	84.0		91.8	87.0	78.4				118			
Globe	46.4	41.2															
Grand Canyon										°49.7	48.7	42.8					Oct. 3
Greaterville				°56.8	61.6	71.0	75.0	73.0	67.8	61.6	°56.9	45.5		94			Oct. 30
Holbrook									65.4	54.4	45.3	32.4					Sept. 17
Jerome	43.2	38.2	50.2	57.1	65.7	76.4	79.4	79.8	68.9	63.4	56.0	45.6	60.3	100	13	Mar. 18	Dec. 4
Kingman						80.2	82.4	83.3	73.6	66.0	56.9	44.7		105			Dec. 4
Maricopa	48.0	46.8	58.8	66.7	74.9	86.0	91.0	91.9	81.2	68.0	58.4	48.6	68.4	113	23	Mar. 18	Nov. 30
Mellen								95.2	83.4	71.7	61.5	50.7					Dec. 11
Mesa	51.4	48.6	59.9	66.0	74.6	84.4	89.6	90.8	81.2	70.2	62.0	53.0	69.3	114	24	Feb. 17	Dec. 9
Mesa (near)	49.2	46.7	57.5	64.2	73.8	84.0	89.2	90.8	80.6	67.0						Mar. 21	Nov. 30
Mohawk Summit	54.7	53.3	63.8	69.1	87.8	92.5	96.4	96.6	88.6	76.6	65.4			120			
Natural Bridge																May 18	Nov. 17
Nogales		45.1	53.0	60.0	66.4	75.2	80.4	79.2		64.1	57.8	47.6		103		Feb. 22	Nov. 16
Oracle	46.2	41.8	52.3	60.8	67.4	77.8	81.0	78.4	72.7	64.3	58.8	48.8	62.5	97	16	Mar. 19	Dec. 24
Parker			61.8	67.9	78.0	88.0	91.2	94.2	84.4	72.2	62.4	50.8		120		Mar. 7	Nov. 17
*Phoenix	51.8	48.8	59.8	66.3	74.8	85.4	90.0	90.8	81.7	71.0	62.4	53.4	69.7	111	27	Feb. 18	Dec. 23
Phoenix [1]	50.1	47.7	58.4	64.8	73.4	83.6	88.6	89.2	80.3	68.8	60.2	50.8	68.0	114	24	Mar. 19	Dec. 5
Pima	44.4	44.0	53.4														
Prescott	35.6	30.8	42.8	47.1	54.4	63.8	67.4	69.6	61.3	49.0	45.7	33.6	50.1	96	− 6	May 25	Sept. 15
St. Johns										52.2	44.6	32.2				May 19	Oct. 4
San Carlos							87.5		76.8	64.6	54.3	45.0					Oct. 31
San Simon	43.7	44.6	52.1	62.2	66.6	74.9	82.5	80.2	73.4	60.2				105		Apr. 29	Oct. 31
Sentinel (*e*)	53.6	52.3	68.1	75.0	84.9	93.2	94.9	97.5	89.5	73.2	67.6	57.4	75.6	114	30	Feb. 9	
Signal	°49.3	45.4	57.2	63.3	72.9	83.4	87.0	89.6	80.2	69.6	59.2	49.2	67.2	117		Mar. 23	
Taylor	32.9	26.8	44.5	51.0	58.0	68.0	73.3	72.2	62.8	51.8	44.2	34.8	51.7	99	−11	May 19	Sept. 19
Thatcher									75.4	62.8	53.6	45.2					Oct. 30
Tombstone					67.5	76.4	79.2	78.0	72.4	64.8	59.6			101			Oct. 31
Tonto	45.3	45.9	53.8					85.0	76.4	66.0	55.6	46.8			20	Mar. 20	Nov. 19
Tuba	34.5	30.2	48.1	57.4	°63.0		76.3	76.0								Apr. 3	
Tucson	48.9	45.3	55.1	62.2	70.0	80.4	85.8	85.8	78.4	67.4	60.1	51.8	65.9	108	21	Mar. 23	Dec. 4
Upper San Pedro	45.6	43.4	53.1			73.0	79.3	77.7	70.8	60.6	54.0	44.0		102	15	Mar. 19	Oct. 2
Vail (*e*)	53.9	50.6	63.3	66.8	71.4	81.0	84.4	83.6	78.6	70.0	69.7	58.6	69.3	101	27	Feb. 16	Dec. 24
Willcox	45.0	40.0		56.6		65.4	75.0	74.1	72.0	57.2	50.8	39.2		104	14	Apr. 21	Oct. 28
Williams									60.2	52.0	47.6	35.6					Sept. 15
Young								81.9	67.3	56.3	49.0	38.6					Oct. 3
*Yuma	56.0	52.9	63.2	68.4	75.6	85.2	90.0	91.0	83.4	74.8	65.7	57.4	72.0	113	29	Feb. 7	None.
Arkansas.																	
Alco	38.9	39.0	53.5	59.2	65.8	67.8	77.6	78.4	70.2	61.8	47.1	38.7	58.2	98	− 4	May 1	Oct. 18
Amity	40.3	43.2	56.5	61.1	66.4	69.8	78.4	78.2	69.9	60.8	50.0	42.4	59.8	97	3	May 1	Oct. 25
Arkadelphia	43.3	44.4	57.8	62.3	68.8	72.2	80.2	80.0	71.0	62.3	48.4	43.2	61.2	98	3	Mar. 25	Oct. 25
Batesville	39.6	40.8	54.2	60.0	68.2	70.9	80.3	79.2	70.0	60.3		38.5		98	− 3	May 1	Oct. 24
Beebranch	41.4	°43.9	54.7	60.4	67.0	69.9	°79.0	78.9	°71.1	°60.0	46.6	41.3	59.5	97	7	May 1	Oct. 18
Blanchard	44.8	46.2	58.4	63.0	69.1	72.0	79.2	79.8	71.4	61.8	50.2	43.6	61.6	96	5	Apr. 4	Oct. 19
*Brinkley	41.3	42.5	56.4	60.4	68.4	70.3	79.8	79.8	70.2	60.2	46.6	38.8	59.6	97	3	Mar. 24	Oct. 18
Camden *b*	46.3	°44.6		63.6	71.2	74.2	81.3	80.4	72.6	63.8	48.9	44.2		98	10	Mar. 1	Nov. 16
Conway	40.2	40.8	55.5	61.1	69.0	72.2	80.9	79.8	71.6	61.9	46.7	39.8	60.0	103	− 2	Apr. 4	Nov. 7
Corning	37.0	37.5	51.9	58.2	68.0	68.8	78.2	77.3	68.8	58.4	43.8	34.7	56.9	97	− 3	Mar. 25	Oct. 23
Dallas	41.0	43.6	56.4	63.3	67.2	70.7	81.0	78.8	71.3	60.2	49.5	41.8	60.4	98	− 3	Apr. 4	Nov. 17
*De Queen					68.2	74.8		82.4	75.6	64.4	49.1	42.9		103		May 2	Nov. 12
Des Arc									76.6	61.0	48.8	41.8					
Dodd City				58.6	66.1	68.6	77.5	76.2	68.4	58.8	43.2	36.5		98		May 1	Oct. 18
Dutton	36.6	36.4	°50.2	57.1				73.4	65.6	58.3	°45.3	36.8			− 7	May 1	Oct. 18
Elon					°68.5	°71.8	°79.4		°72.8			42.8		98			
Eureka Springs	37.4	36.6	50.4	58.8	65.7	67.8	77.5	76.4	68.2	59.2	45.0	37.8	56.7	93	− 4	May 1	Oct. 18
Fayetteville	35.8	35.8	50.1	56.2	64.2	65.9	77.4		68.5	55.8	44.6	°37.2			− 7	Apr. 30	
*Forrest City	40.4	39.0	56.0	61.0	68.0	74.8	81.0	79.8	°69.8	63.6	°49.3	37.7	60.0	95	− 1	Mar. 24	Oct. 24
*Fort Smith	40.6	39.9	54.8	61.8	67.2	71.4	80.2	79.2	71.4	61.2	48.2	40.6	59.7	95	4	Mar. 24	Nov. 17
Hardy	37.7	38.4	51.8	59.0	66.3	68.7	79.0	78.7	70.2	59.8	46.8	38.1	57.9	99	− 6	Mar. 25	Oct. 24
Heber											46.6	38.7					
*Helena			58.6	61.2	70.1	72.3	81.2	79.8	71.9	62.3	49.6	40.4		98		May 1	Oct. 24
Ione									71.2								
Jonesboro	°39.3	42.0	55.2	60.6	68.6	70.2	80.7	°78.8	71.1	62.4	47.4	38.8	59.5	99	9	Mar. 25	Oct. 25
Lacrosse		36.9	51.6	58.4	65.6	69.5	79.2	79.6	69.1	°59.4	°43.8			103	− 5	May 1	Oct. 24
*Lake Village	44.7	46.6	58.8	62.7	69.6	72.6	80.0	80.1	72.0	63.7	°53.2			96	13	Mar. 1	Oct. 25

[1] Agricultural Experiment Station.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
*Little Rock	42.5	42.6	56.4	62.0	68.6	71.6	80.0	79.0	71.4	62.4	49.0	41.6	60.6	94	7	Mar. 1	Nov. 18
Lonoke	40.4	43.4	57.2	61.6	69.8	70.6	79.4	79.2	70.8	61.0	47.8	40.6	60.2	98	1	Mar. 25	Oct. 18
Lutherville	37.6	37.2	52.6	58.2	64.0	68.4	77.2	76.6	70.2	60.0	46.8	37.4	57.2	97	− 6	May 1	Oct. 19
*Malvern	41.0	42.2	56.1	61.4	68.6	71.8	80.6	79.8	70.8	60.9	48.9	40.7	60.2	100	0	Apr. 5	Oct. 24
Marianna	40.8	42.4	56.1	60.4	69.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marvell	43.5	43.8	57.3	61.6	69.9	72.0	80.8	80.4	71.8	62.9	48.9	41.6	61.2	98	3	Mar. 1	Oct. 24
Mossville	34.1	36.0	49.4	55.2	62.6	64.8	74.6	73.4	69.4	57.6	42.8	36.7	54.7	89	3	May 1	Nov. 12
Mountain Home	38.8	36.2	53.2	62.8	66.4	70.5	.....	.....	.....	.....	.....	.....	.....	.....	− 9	May 1	.....
Mount Nebo	38.0	37.8	50.4	59.0	64.4	68.6	78.8	74.4	69.4	60.2	47.8	38.6	57.3	92	0	Mar. 24	Nov. 17
New Gascony	.....	.....	.....	62.8	67.7	[a]68.6	79.5	79.5	70.8	61.8	50.1	[a]41.4	.....	99	.....	.....	Oct. 24
*Newport[1]	40.0	40.6	54.6	61.6	69.4	72.5	81.2	80.2	71.5	61.6	47.4	39.4	60.0	101	0	Apr. 4	Oct. 25
Newport[2]	40.6	41.2	55.0	60.2	68.2	70.4	.....	.....	.....	.....	.....	.....	.....	.....	0	May 1	.....
Oregon	36.4	36.2	49.6	58.2	65.0	68.0	73.8	69.6	64.8	57.1	43.7	36.7	54.9	105	2	May 2	Oct. 18
Ozark	39.6	40.1	55.4	62.5	67.9	70.6	80.0	78.8	73.0	61.3	47.9	37.8	59.6	98	0	Mar. 24	Nov. 17
Paragould	38.3	39.0	52.3	59.4	68.0	70.6	80.6	79.0	70.0	61.0	47.4	38.0	58.6	97	− 4	Apr. 15	Oct. 25
Perry	39.8	41.2	55.6	62.4	68.2	71.2	80.2	78.8	70.2	60.8	48.3	40.3	59.8	99	1	Mar. 24	Nov. 7
*Pine Bluff	.....	41.4	55.3	[a]63.7	70.4	72.0	80.6	80.4	71.2	61.0	47.3	39.2	.....	99	2	Apr. 4	Oct. 24
Pocahontas	37.2	37.3	52.6	59.5	67.4	69.6	80.4	80.0	69.8	60.1	45.6	37.3	58.1	102	−12	May 2	Oct. 25
Pond	35.8	35.2	49.6	57.8	64.4	66.4	78.0	75.8	67.1	58.1	44.0	36.2	55.7	95	−12	May 5	Oct. 18
*Prescott	44.6	44.8	59.7	64.6	70.4	75.3	82.4	83.8	75.4	64.4	51.0	42.8	63.3	102	5	Mar. 1	Nov. 7
Princeton	42.4	43.6	57.0	61.4	68.4	72.6	[a]78.7	78.8	70.8	61.6	49.2	41.3	60.5	96	− 2	Apr. 4	Oct. 19
Rison	41.2	40.4	54.8	59.8	67.4	69.9	78.6	77.4	69.4	[a]59.4	46.2	.....	.....	98	4	May 1	Oct. 18
Rosadale	43.8	45.6	57.4	64.0	68.9	72.9	81.4	81.6	73.6	63.0	50.6	44.0	62.2	100	3	May 1	Nov. 12
*Russellville	40.0	41.2	55.2	58.6	67.9	71.9	81.8	[a]79.6	69.0	58.7	44.6	35.8	58.7	103	− 4	May 1	Oct. 24
Silversprings	37.6	36.5	50.6	59.0	65.4	66.8	77.4	76.6	67.2	59.1	45.6	38.4	56.7	.....	.....	May 1	Oct. 18
Spielerville	40.0	40.3	55.2	62.2	67.6	71.6	.....	.....	73.2	61.6	48.5	40.4	.....	105	− 4	May 1	Nov. 17
Stuttgart	42.2	42.6	57.1	60.0	68.8	70.2	79.6	79.4	71.4	61.0	49.6	40.8	60.2	97	3	Apr. 4	Oct. 18
*Texarkana	44.7	49.2	58.4	64.6	69.2	73.0	81.4	82.0	74.6	64.0	52.6	45.8	63.3	100	9	Mar. 23	Nov. 19
*Warren	43.0	42.7	56.8	61.7	65.1	73.6	81.0	81.2	72.4	62.8	50.6	.....	.....	100	1	Apr. 5	Oct. 24
Washington	43.5	46.2	57.8	63.2	67.3	70.6	78.2	80.8	74.2	63.9	52.2	44.3	61.8	96	4	Mar. 24	Nov. 18
Wiggs	41.2	43.0	55.4	60.6	66.6	68.4	78.7	76.4	66.6	60.2	47.8	40.0	58.7	97	− 2	May 1	Oct. 18
Winchester	42.2	43.7	56.6	[a]61.3	69.0	71.5	[a]80.2	80.2	72.0	[a]63.6	[a]52.0	.....	.....	97	10	Mar. 1	Nov. 18
Winslow	35.2	36.0	49.8	56.4	63.4	66.5	.....	72.4	67.0	58.0	43.0	36.8	.....	.....	− 4	Apr. 30	Nov. 17
Witts Springs	[a]33.4	[a]37.6	50.7	56.1	63.8	66.0	[a]76.6	75.6	69.7	59.0	41.6	33.2	55.3	.....	5	May 1	Nov. 17
California.																	
Angiola	42.1	43.2	53.4	56.6	66.6	75.7	74.7	78.6	75.1	65.7	56.6	46.0	61.2	109	18	Apr. 11	Nov. 17
Azusa	56.2	52.2	58.0	61.4	63.8	70.0	71.5	75.0	71.9	68.1	63.4	57.3	64.1	104	28	Feb. 17	Dec. 23
Bagdad	53.4	49.4	62.0	67.4	79.6	94.0	95.3	95.2	83.6	73.9	62.6	54.8	72.6	113	25	.....	.....
Bakersfield	45.0	45.1	54.8	58.4	69.2	77.3	76.2	77.3	71.5	65.6	55.2	45.0	61.7	109	21	.....	Dec. 25
Barstow	45.0	48.2	51.6	58.2	67.6	77.2	80.0	83.4	72.6	65.0	56.5	48.2	62.4	110	24	Mar. 7	Dec. 8
Berkeley	46.4	46.1	50.8	53.4	57.6	62.9	61.0	60.7	61.2	60.0	53.8	49.0	55.2	101	31	.....	.....
Bishop	42.4	36.4	44.5	50.4	59.6	69.0	69.9	72.0	65.6	[a]59.6	50.2	41.2	55.1	98	4	.....	.....
Boca (*a*)	23.7	14.2	31.6	37.1	45.9	52.2	55.5	60.0	50.8	43.3	39.7	26.8	40.1	88	−30	.....	.....
Bodie	23.0	11.3	21.0	30.2	40.0	49.9	51.4	52.8	45.8	39.2	37.6	26.8	35.8	85	−36	(††)	(††)
Bowman	36.0	29.1	34.6	41.8	54.8	63.2	64.6	67.8	61.7	55.2	44.0	40.8	49.5	92	1	.....	.....
Branscomb	.....	.....	44.3	46.6	56.2	61.2	63.7	64.2	64.0	59.5	50.0	48.0	.....	.....	.....	Apr. 11	Nov. 8
Brush Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.4	48.5	43.3	.....	.....	.....	.....	.....
Caliente (*a*)	45.7	44.2	49.4	56.7	73.0	86.0	86.1	86.6	78.9	71.9	64.3	49.6	66.0	104	28	.....	.....
Calistoga	44.7	48.8	50.6	55.8	64.0	70.8	66.8	67.3	66.0	63.2	56.4	49.0	58.6	105	25	.....	Dec. 5
Campbell	46.9	[a]44.8	51.4	52.4	58.6	63.0	62.8	63.5	63.3	61.6	54.4	48.6	55.9	102	25	Feb. 17	Dec. 5
Cedarville	32.1	23.2	37.8	41.0	52.8	63.8	64.6	68.0	57.3	52.2	40.1	31.0	47.0	101	− 6	May 21	Sept. 14
Chico	41.8	44.8	51.0	56.4	68.4	75.0	73.8	75.6	74.8	69.2	54.2	49.5	61.2	106	20	.....	.....
Cisco (*a*)	31.2	22.2	30.8	36.2	50.3	64.3	63.3	66.1	57.7	51.1	38.5	33.3	45.4	80	3	.....	.....
Claremont	52.2	47.0	52.9	59.4	60.6	66.0	72.4	76.2	71.4	69.6	61.5	55.3	62.0	107	26	Feb. 2	.....
Cloverdale	47.2	46.8	50.0	55.8	63.8	73.0	70.0	72.6	68.6	66.4	54.6	49.6	59.9	105	25	Jan. 29	Dec. 4
Coachella	.....	.....	.....	.....	.....	.....	.....	.....	86.8	77.6	.....	.....	.....	.....	.....	.....	.....
Colusa	42.7	44.0	51.0	55.8	67.6	74.4	73.0	75.0	70.2	65.2	54.4	45.8	59.9	103	27	Jan. 28	Dec. 4
Corning (*a*)	47.1	44.1	50.6	55.4	66.9	77.3	77.8	78.1	73.2	69.6	60.4	50.8	62.6	106	30	Feb. 18	Dec. 6
Coronado	57.2	53.2	59.4	60.6	62.8	65.8	68.2	69.2	68.8	63.2	59.8	55.4	62.0	.....	.....	.....	.....
Crescent City	46.6	44.8	47.9	48.8	52.2	57.7	56.2	56.8	57.0	54.8	52.0	48.2	51.9	82	29	Apr. 12	Nov. 15
Cuyamaca	37.7	28.2	39.2	41.2	49.8	59.7	64.4	64.7	57.6	51.0	46.6	37.4	48.1	87	− 1	May 22	Oct. 3
Delano (*a*)	46.4	47.0	56.9	.....	.....	82.8	88.8	82.6	77.6	68.6	54.6	42.3	.....	.....	.....	Jan. 29	Dec. 11
Delta (*a*)	46.0	41.1	45.0	51.4	71.4	77.5	74.3	74.2	67.3	62.7	52.1	48.0	59.2	108	23	Jan. 28	Dec. 11
Dobbins	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55.8	52.0	.....	.....	.....	.....	.....
Drytown	42.6	43.0	51.1	53.6	63.6	71.5	70.6	72.6	68.4	63.4	52.4	45.0	58.2	106	20	.....	.....
Dunnigan (*a*)	44.2	47.7	53.2	59.0	76.3	82.6	79.6	80.5	76.3	69.4	51.1	48.8	64.1	108	28	.....	.....
Durham	43.0	44.0	51.3	55.6	66.6	74.7	78.5	75.6	72.1	65.9	53.2	44.8	60.0	110	26	Feb. 18	.....
Elcajon	53.3	49.8	55.6	58.2	64.4	68.4	71.6	73.0	70.1	65.8	60.8	53.8	62.1	103	29	.....	.....
Elmdale	43.4	44.1	53.1	55.4	64.6	73.4	73.1	74.7	69.8	65.0	57.1	50.0	60.3	108	22	Feb. 23	.....
Elsinore	53.6	49.0	54.2	58.4	63.5	73.6	.....	.....	72.7	66.0	60.2	52.8	.....	.....	.....	Mar. 2	Nov. 16
Escondido	49.6	46.8	54.0	56.2	63.6	72.0	70.2	70.4	67.2	60.4	54.6	47.4	59.1	104	19	.....	.....
*Eureka	48.6	45.1	49.2	48.7	51.5	56.2	54.7	56.0	55.2	54.6	53.2	49.0	51.8	85	28	Feb. 15	None.
Fallbrook	53.2	47.4	55.0	57.3	61.8	69.0	71.8	73.0	69.2	64.0	59.2	54.7	61.3	100	28	Feb. 19	.....
Folsom	45.0	44.8	53.6	57.4	69.3	76.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fort Ross	48.4	45.6	50.0	50.8	53.1	58.0	56.7	56.6	57.5	57.0	53.4	49.4	53.0	82	27	Feb. 14	.....
*Fresno	44.0	45.8	54.8	57.5	67.8	77.2	77.4	80.2	73.6	67.7	55.2	45.6	62.2	108	25	Feb. 16	Dec. 5
Georgetown	45.0	40.4	44.6	49.4	60.2	69.2	69.6	73.7	68.4	63.9	51.7	48.0	57.0	100	20	.....	.....
Gilroy (near)	48.0	45.8	52.0	54.6	59.9	66.0	64.2	66.2	65.0	63.6	55.2	49.2	57.5	106	21	.....	.....
Greenville	34.5	26.6	40.9	44.7	54.8	66.2	71.0	73.0	68.4	64.0	.....	36.2	.....	103	−11	.....	.....
Hanford	40.8	41.3	54.2	62.3	75.4	79.0	75.5	77.6	71.2	65.8	54.6	44.2	61.8	107	18	Feb. 3	Dec. 5
Healdsburg	45.4	45.7	50.1	54.4	64.0	70.0	67.9	.....	68.7	64.6	54.2	[a]48.9	.....	111	21	Apr. 13	Dec. 4
Hollister	47.6	45.2	52.5	54.2	59.2	65.2	68.8	65.8	64.7	63.2	54.4	48.4	57.0	103	19	Jan. 29	Nov. 9
Idyllwild	.....	.....	38.7	.....	52.4	61.6	64.9	68.0	60.9	55.6	50.1	.....	.....	93	.....	.....	Sept. 11
Imperial	56.4	55.8	69.2	74.4	82.5	93.6	94.9	94.2	85.4	74.2	61.8	53.4	74.6	124	26	Feb. 16	.....
*Independence	44.5	37.6	48.1	54.0	64.2	75.0	76.6	78.4	70.1	63.5	53.4	44.2	59.1	99	14	Feb. 15	Nov. 27

[1] Cotton region observer.

[2] G. B. Irby.

†† Frost every month.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.*		
California—Continued.																	
Indio	58.2	55.0	64.9	72.6	81.0	91.1	94.4	93.1	83.0	81.6	62.0	.....	.....	118	28	.....	.....
Iowa Hill(*a*)	46.4	41.0	45.3	51.0	61.9	68.8	69.5	72.4	67.2	62.9	52.5	48.8	57.3	94	24	May 21	.....
Irvine	57.8	52.4	57.6	61.8	65.0	71.5	72.3	75.4	72.1	.....	.....	.....	.....	.....	.....	.....	.....
Jackson	45.8	43.9	48.1	52.2	62.5	70.4	71.4	75.4	71.8	67.4	47.3	.....	.....	.....	.....	Feb. 14	.....
Jamestown	44.0	41.6	49.4	52.8	62.4	70.5	70.5	73.8	70.6	64.3	50.5	46.8	58.1	102	21	Apr. 10	Nov. 16
Kennedy Gold Mine	40.0	37.8	44.7	45.6	57.6	65.9	65.6	68.0	64.8	60.0	47.3	46.0	53.6	100	21	.....	.....
Kentfield	46.0	45.7	50.0	55.3	58.6	64.8	[a]62.8	63.0	63.0	[a]61.4	54.5	47.6	56.0	.....	.....	Mar. 17	.....
Kernville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
King City	49.3	45.4	52.3	54.1	61.1	66.6	66.3	68.1	67.4	65.0	57.8	50.2	58.6	108	17	Apr. 11	Nov. 9
Lakeport (near)	44.8	42.4	47.8	53.7	62.8	70.1	71.4	73.8	70.3	63.4	52.8	46.6	58.3	96	27	.....	.....
La Mesa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Laporte	35.1	28.2	34.0	39.0	51.4	58.8	58.0	61.0	57.4	51.8	41.9	37.8	46.2	87	10	July 6	Sept. 13
Las Fuentes Ranch	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Legrande	44.6	44.0	53.5	57.6	67.5	.....	.....	77.2	70.8	65.8	53.4	51.1	.....	.....	.....	Feb. 17	.....
Lemoncove	45.1	47.0	56.2	60.0	70.2	78.7	78.5	80.5	76.8	73.0	59.5	47.2	64.4	109	24	Feb. 16	Dec. 9
Lick Observatory	43.7	34.9	39.8	43.7	54.0	61.6	64.0	67.4	63.6	59.8	48.2	47.2	52.3	87	14	.....	.....
Livermore	47.4	46.6	52.9	55.4	62.8	68.2	68.0	69.2	68.9	65.8	55.6	[a]48.6	59.1	108	23	Apr. 12	Nov. 9
Lodi	44.6	43.0	52.4	54.6	64.5	71.4	69.4	70.1	68.2	62.5	54.2	45.1	58.3	104	24	Feb. 28	Nov. 9
*Los Angeles	56.6	52.0	56.2	58.0	60.8	66.3	68.4	70.6	69.2	66.3	63.5	58.2	62.2	97	32	None.	None.
Los Gatos	47.0	45.9	51.0	53.6	60.6	66.2	65.8	66.5	67.0	63.2	54.4	49.2	57.5	103	29	.....	.....
Mammoth	60.1	56.4	.....	72.9	77.3	87.8	90.8	92.4	83.6	74.4	65.5	56.6	.....	116	30	.....	.....
Manzana	46.2	40.4	50.4	54.8	66.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 17	.....
Marysville	46.6	44.5	50.8	59.8	68.9	74.5	73.2	74.4	70.6	65.8	54.4	47.0	60.9	109	27	Mar. 7	Dec. 7
Meadow Valley	34.9	26.6	37.0	40.0	61.7	59.9	59.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Merced	41.4	42.8	52.0	55.8	66.7	80.1	77.7	80.4	72.8	61.7	50.7	43.4	60.5	108	16	Feb. 24	Dec. 5
Mercury	51.2	49.6	53.7	58.2	65.2	70.3	66.6	68.8	68.2	65.2	57.6	51.8	60.5	108	26	Feb. 18	.....
Milton (near)	43.4	44.6	52.7	54.4	64.4	72.7	72.6	74.8	72.6	67.6	54.8	46.6	60.1	102	25	Feb. 16	.....
Modesto	47.2	51.2	57.2	62.8	68.4	75.6	76.1	81.3	76.4	65.4	56.7	52.7	64.2	110	29	Feb. 17	Dec. 5
Mohave	46.5	42.0	49.0	51.4	68.7	76.2	83.8	86.6	74.2	67.1	56.8	50.4	62.7	106	15	.....	.....
Mokelumne Hill	41.2	.....	.....	.....	.....	.....	66.6	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 18	Dec. 3
Montague	38.1	33.2	42.6	47.0	57.0	65.8	66.7	70.2	62.5	55.2	45.0	35.2	51.5	105	1	May 23	Oct. 7
Monterio	48.4	41.2	48.5	.....	.....	66.8	70.6	73.9	67.8	62.6	58.0	52.4	.....	102	14	.....	.....
Monterey (*a*)	49.2	48.1	55.0	56.4	58.2	61.3	60.5	60.4	61.1	58.4	55.5	50.1	56.2	86	26	.....	.....
*Mount Tamalpais	45.9	41.8	43.8	49.2	58.1	64.2	65.6	68.3	67.8	64.1	50.7	49.0	55.7	95	25	Feb. 14	None.
Napa	45.0	46.8	51.1	54.6	62.0	66.6	65.8	66.4	66.4	64.6	52.8	48.2	57.5	108	26	Feb. 18	Dec. 5
Needles	.....	49.8	64.7	72.4	81.8	91.5	97.2	97.1	86.9	77.7	69.6	55.4	.....	.....	.....	.....	.....
Nevada City	43.7	37.7	43.2	47.6	58.3	65.0	64.8	67.8	63.4	60.5	49.8	45.2	53.9	100	7	May 22	Nov. 8
Newcastle	42.4	44.9	51.6	56.4	66.4	73.2	73.3	77.6	71.6	66.8	52.0	47.4	60.3	109	25	Feb. 16	Dec. 4
Newhall	54.8	53.4	57.4	63.2	69.0	74.5	77.6	75.1	71.4	62.2	56.6	47.7	63.6	110	20	.....	.....
Newman	42.4	45.1	52.4	57.2	66.6	75.8	76.6	78.2	73.9	69.0	55.8	43.8	61.4	112	24	.....	.....
Nimshew	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.1	48.8	44.7	.....	.....	.....	.....	.....
Niles	47.8	47.0	52.8	55.3	60.5	64.3	65.2	65.2	65.4	63.0	55.6	50.0	57.7	98	28	Feb. 15	.....
North Bloomfield	43.2	36.8	42.2	47.6	59.0	67.2	67.4	70.8	[b]66.5	59.8	49.5	44.9	54.6	.....	10	May 22	Dec. 5
North San Juan	42.5	40.6	49.0	53.7	[a]59.6	69.7	68.9	70.9	71.7	58.5	51.2	44.0	56.7	103	17	Apr. 15	Nov. 9
Oakland	47.5	46.8	53.2	55.6	59.8	64.1	63.0	62.7	62.9	61.9	55.9	50.8	57.0	98	32	Feb. 15	.....
Ogilby	65.6	52.9	.....	77.5	83.4	95.6	98.2	101.1	89.0	75.3	76.7	.....	.....	120	.....	.....	.....
Ontario (near)	53.3	49.2	55.3	59.8	63.6	71.0	73.0	75.8	71.7	67.0	60.6	58.6	62.8	103	26	.....	.....
Ontario	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.8	55.7	.....	.....	.....	.....	.....
Orland	45.2	45.2	49.7	56.4	65.9	71.9	76.8	78.6	74.2	66.3	54.6	48.8	61.1	108	28	Jan. 29	Dec. 5
Orleans	.....	.....	.....	57.7	66.7	71.7	74.0	75.5	71.4	64.4	53.8	46.2	.....	.....	.....	.....	.....
Oroville (near)	39.3	42.1	48.8	54.4	68.0	73.4	74.8	75.4	73.2	67.8	54.8	46.9	60.1	108	23	.....	.....
Palermo	41.7	43.8	50.8	55.0	65.2	73.6	72.4	74.0	69.4	64.0	52.2	45.6	59.0	107	22	.....	.....
Peachland (*c*)	46.6	46.3	51.0	55.3	62.3	68.2	65.0	65.4	64.6	62.9	55.2	48.4	57.6	102	28	Apr. 11	Dec. 5
Paso Robles	44.8	41.7	48.6	52.3	59.7	68.1	67.0	69.8	67.2	65.7	55.4	47.0	57.3	107	15	.....	.....
Pine Crest	58.6	52.2	53.4	56.7	57.2	64.0	67.6	68.0	67.1	67.8	64.5	60.0	61.4	95	31	.....	.....
Pino Grande	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.4	42.9	.....	.....	.....	.....	.....
Placerville	42.1	38.8	46.2	48.6	58.4	66.3	66.4	67.8	63.0	58.0	51.0	43.4	54.2	98	16	.....	.....
Point Lobos	47.4	47.6	51.8	53.0	53.5	56.8	55.6	55.6	57.4	57.6	54.8	51.8	53.6	88	36	.....	.....
*Point Reyes	50.7	48.6	51.2	50.4	50.0	54.2	52.8	53.4	56.4	57.4	54.4	53.5	52.8	87	34	None.	None.
Porterville	45.2	46.1	54.7	58.7	67.0	76.0	76.2	79.4	73.6	68.0	56.6	46.9	62.4	107	24	.....	.....
Quincy	34.4	25.8	40.8	45.1	55.8	63.6	62.4	62.6	56.0	50.9	43.7	34.8	48.0	92	− 9	May 22	Oct. 21
Ranch House	57.0	.....	.....	.....	.....	.....	.....	73.0	72.3	66.0	.....	.....	.....	.....	.....	.....	.....
*Redbluff	43.6	44.7	50.0	56.2	68.3	76.6	75.9	78.2	74.2	67.6	53.6	49.1	61.5	108	27	Mar. 9	Dec. 7
Redding	44.4	44.7	49.6	55.8	68.0	76.1	75.6	78.5	74.6	67.7	54.0	48.8	61.5	104	27	.....	Dec. 5
Redlands	53.0	48.6	54.5	57.4	63.4	70.9	75.2	78.4	73.5	69.4	61.3	54.2	63.3	108	25	Feb. 14	.....
Reedley	44.8	45.6	55.8	58.2	71.4	80.6	80.8	79.3	73.0	67.3	55.6	44.6	63.1	108	23	Jan. 30	Nov. 16
Represa	44.2	43.0	54.6	61.6	70.6	73.2	71.8	71.6	70.4	63.0	55.4	46.6	60.5	.....	.....	Apr. 11	.....
Riovista	44.4	45.0	51.8	56.0	65.2	71.4	70.2	71.3	70.7	66.8	54.8	45.4	59.4	104	28	Mar. 15	.....
Riverside	52.0	48.4	54.0	57.9	62.8	68.8	71.6	74.2	69.4	65.8	59.1	52.6	61.4	105	24	Feb. 15	Dec. 10
Rohnerville	46.8	45.2	.....	50.2	.....	.....	59.8	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 20	Oct. 1
Rosewood	43.2	40.6	47.8	53.1	65.8	75.2	74.2	75.8	70.6	62.5	51.1	45.4	58.8	107	16	Apr. 12	Nov. 15
*Sacramento	43.4	45.5	52.2	56.1	65.2	71.0	69.4	71.8	70.4	66.2	54.9	46.8	59.4	102	29	Feb. 14	Dec. 30
Sacramento[1]	44.7	44.6	52.8	56.4	65.2	70.6	69.2	69.8	68.4	61.6	53.6	45.9	58.4	102	29	Feb. 19	Dec. 6
Salinas	50.2	46.4	53.8	54.0	58.0	61.3	59.9	61.9	62.8	61.0	56.6	51.9	56.5	97	24	Feb. 19	Dec. 10
Salton	58.3	56.4	66.0	72.6	79.1	89.4	87.8	94.2	84.4	73.4	62.8	55.4	73.3	121	29	Feb. 3	.....
San Bernardino	52.6	49.1	54.6	58.0	63.8	70.6	73.4	76.6	71.3	67.0	60.0	53.7	62.6	110	22	Mar. 2	.....
*San Diego	56.8	52.2	57.6	58.4	60.5	63.2	66.2	68.4	67.9	63.5	61.6	57.8	61.2	85	35	None.	None.
*San Francisco	47.9	48.9	52.2	54.0	55.2	58.5	57.2	57.6	61.0	62.0	56.6	52.4	55.3	96	37	Feb. 15	None.
San Jacinto	50.7	46.2	53.1	57.0	63.3	71.8	[a]76.6	77.6	71.0	67.8	61.7	.....	.....	108	22	Feb. 22	.....
San Jose	48.8	47.8	54.0	56.2	61.0	65.6	64.9	66.2	66.5	63.7	55.9	49.2	58.3	100	25	Feb. 18	.....
San Leandro	46.5	45.2	52.6	54.3	59.5	63.8	63.1	63.1	62.9	61.4	54.0	48.8	56.3	102	24	.....	.....
*San Luis Obispo	55.0	49.0	53.5	55.7	56.4	63.4	61.0	64.4	64.2	63.6	60.2	55.2	58.5	98	26	Feb. 18	Dec. 5
San Mateo (*a*)	49.1	48.0	51.2	55.8	60.4	69.5	66.7	66.4	67.6	63.0	56.5	48.6	58.7	100	32	.....	.....
San Miguel (*a*)	47.4	44.8	51.7	56.8	62.7	74.0	74.6	72.5	68.2	64.2	54.3	46.0	59.8	103	19	Feb. 19	Nov. 9
San Miguel Island	55.2	50.0	52.0	54.2	.....	.....	57.2	.....	.....	61.3	.....	58.4	.....	.....	.....	.....	.....
San Rafael	.....	.....	.....	.....	.....	.....	.....	65.0	65.4	63.2	54.6	.....	.....	.....	.....	.....	.....
Santa Barbara	56.4	51.1	54.6	57.0	58.4	63.4	65.2	66.1	66.1	64.8	62.1	57.6	60.2	95	32	.....	.....
Santa Clara College	47.8	46.2	52.7	53.6	59.5	63.8	64.0	64.8	64.7	63.2	55.6	49.6	57.1	106	23	Feb. 16	Dec. 7

[1] S. H. Gerrish.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
Santa Cruz	49.4	46.0	51.2	53.6	56.6	61.9	60.1	62.0	60.4	60.1	54.2	50.8	55.5	100	22	Feb. 18	.....
Santa Maria	54.8	49.6	55.3	57.2	59.3	63.7	62.3	65.2	65.8	63.5	60.3	55.8	59.4	95	25	Jan. 30	Dec. 5
Santa Monica	54.9	49.3	52.6	54.6	57.2	61.9	64.2	66.2	66.1	62.9	60.8	57.2	59.0	92	32	.....	.....
Santa Paula	61.6	54.2	55.5	54.8	58.1	70.0	72.8	72.9	71.0	72.4	‡61.4	57.4	65.2	100	30	Feb. 16	.....
Santa Rosa	45.6	44.8	49.1	52.8	59.0	65.8	64.2	64.8	64.8	63.0	53.6	47.4	56.2	107	21	.....	.....
Shasta	47.6	44.6	49.7	57.2	69.8	77.4	77.3	81.0	76.2	69.2	52.0	47.8	62.5	110	20	.....	.....
Sierra Madre	55.2	50.0	54.5	57.1	60.4	67.2	70.8	72.4	70.2	67.4	62.7	57.4	62.1	97	33	.....	.....
Sisson	34.7	31.0	39.2	45.7	55.0	65.8	65.2	67.0	58.3	52.6	41.8	35.8	49.3	101	2	July 6	Sept. 13
*Southeast Farallon	.....	.....	.....	.....	51.0	53.2	54.4	53.2	55.4	57.2	55.7	53.9	.....	.....	.....	None.	None.
Stockton	42.8	43.5	51.4	54.8	64.3	70.7	69.6	70.8	68.4	63.6	52.7	44.4	58.1	103	24	Feb. 15	.....
Storey	45.6	43.7	51.4	55.9	66.1	74.0	74.9	76.8	71.2	64.8	54.4	44.8	60.3	107	23	Apr. 12	.....
Summerdale	41.4	34.0	37.6	41.8	52.5	61.2	63.0	67.7	62.3	58.0	47.8	44.6	51.0	91	4	May 22	Nov. 8
Susanville	31.8	17.0	37.1	44.5	55.1	62.7	62.7	64.6	58.2	51.2	41.1	31.2	46.4	93	9	May 22	Sept. 14
Tehama (*a*)	47.0	46.4	53.0	60.6	73.2	81.6	79.2	81.2	76.7	66.4	56.2	49.4	64.2	105	30	Jan. 18	.....
Tejon Ranch	47.2	46.4	53.8	55.6	66.6	75.2	77.1	81.6	75.4	69.0	56.8	50.2	62.9	102	25	.....	.....
Truckee (*a*)	27.7	15.8	31.8	37.9	49.3	55.3	62.4	58.7	49.3	52.6	47.1	37.7	43.4	94	−28	.....	.....
Tulare	45.5	46.2	55.4	57.8	67.5	76.6	75.6	77.8	71.5	66.8	56.6	46.0	61.9	108	22	Apr. 11	Nov. 16
Tustin	59.2	55.4	60.9	63.2	67.7	73.0	76.5	77.4	75.4	71.6	67.6	.....	.....	93	.....	.....	.....
Uklah	45.9	43.6	48.7	52.4	61.8	68.2	68.6	69.8	67.6	62.4	52.1	46.3	57.3	111	18	.....	.....
Upland	52.5	47.8	52.2	55.0	59.4	67.8	71.0	73.2	69.0	66.8	59.5	53.6	60.6	100	26	Feb. 17	.....
Upperlake	43.3	42.9	46.5	51.6	61.0	67.5	68.4	70.6	66.8	61.4	50.0	44.4	56.2	105	16	Apr. 12	Dec. 4
Upper Mattole (*a*)	46.2	44.2	49.2	50.2	52.8	56.8	.....	58.2	58.6	56.1	50.5	44.6	.....	.....	.....	Apr. 11	Dec. 4
Vacaville (*a*)	44.2	45.4	51.6	56.0	66.1	74.4	72.0	74.4	72.1	67.1	55.8	47.3	60.5	109	27	Feb. 17	Dec. 5
Ventura	58.7	58.6	56.4	56.6	56.6	64.2	63.8	65.0	.....	.....	61.1	60.4	.....	.....	29	.....	.....
Visalia	43.5	.....	52.6	57.2	67.4	75.6	75.0	77.0	71.3	66.2	55.0	45.5	.....	107	.....	Apr. 11	Nov. 16
Volcano Springs	61.5	58.1	73.1	69.4	78.5	88.5	90.9	95.2	87.4	75.2	64.4	53.5	74.6	120	25	.....	Dec. 11
Wasco	42.4	43.5	53.8	58.7	69.2	77.6	79.0	80.2	73.4	66.5	55.6	44.6	62.0	108	19	Feb. 18	Dec. 4
Wheatland (*e*)	42.5	43.4	50.4	54.4	65.4	72.7	72.2	73.8	69.4	63.8	52.9	45.0	58.8	104	25	Mar. 7	Dec. 7
Williams	49.1	47.1	55.4	60.4	74.0	83.0	81.1	81.1	75.8	71.2	57.2	45.2	65.0	106	32	.....	.....
Willits	45.3	43.4	46.8	49.8	59.0	67.8	69.8	69.6	63.4	61.3	52.8	.....	.....	106	.....	Apr. 9	Nov. 8
Willow	43.1	43.9	50.1	55.3	66.8	75.8	73.8	75.2	72.2	65.9	54.0	47.6	60.3	104	25	.....	Dec. 7
Yuba City (*e*)	46.2	47.0	54.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zenia	44.3	40.0	43.8	46.6	56.4	60.6	62.1	63.6	61.2	59.2	47.9	46.3	52.7	98	18	Apr. 27	Oct. 1
Colorado.																	
Alford	31.6	17.2	32.4	41.9	49.2	56.6	64.8	64.3	53.6	46.4	37.6	32.3	44.0	91	−24	June 1	Sept. 14
Antelope Springs	.....	.....	.....	.....	43.0	52.9	56.7	55.9	46.6	38.1	24.8	‡16.5	.....	87	.....	(††)	(††)
Ashcroft	17.0	10.8	24.2	31.7	40.4	49.8	55.2	55.6	46.2	39.6	29.8	18.5	34.9	81	−19	(††)	(††)
Blaine	36.1	24.8	40.6	51.6	58.4	66.2	81.6	78.0	67.8	58.3	43.4	36.6	53.6	111	−12	May 26	Sept. 16
Boulder	37.4	22.8	37.1	48.3	54.5	61.2	71.0	70.6	61.0	52.9	42.8	30.8	50.0	94	−12	May 2	Sept. 15
Breckenridge	14.7	6.4	.....	.....	34.8	47.8	55.2	55.5	44.6	40.3	30.8	19.2	.....	90	−24	(††)	(††)
Canyon	35.4	24.1	40.4	50.2	55.1	62.1	71.8	70.4	62.2	52.0	42.7	38.0	50.4	98	−13	May 12	Sept. 16
Castlerock	30.2	19.2	36.4	44.8	51.6	58.6	68.4	68.6	57.8	49.4	39.2	31.1	46.3	96	−19	July 4	Sept. 14
Cedaredge	24.5	22.2	39.0	47.6	53.9	64.8	70.3	70.4	59.5	50.2	40.7	.....	.....	101	−8	May 18	Sept. 12
Cheesman	29.4	18.4	33.7	43.6	50.2	57.8	68.6	66.3	56.8	49.2	40.6	30.2	45.3	93	−26	June 1	Sept. 15
Cheyenne Wells	32.0	21.0	36.2	48.4	56.0	62.0	.....	72.6	63.8	53.3	41.4	34.0	.....	100	−10	May 3	Sept. 15
Clearview	24.4	17.0	28.9	35.6	41.6	47.3	57.1	56.8	49.2	‡43.5	36.6	26.2	38.7	78	−18	(††)	(††)
Collbran	21.4	16.0	35.0	45.4	52.8	62.7	68.2	69.2	56.8	48.2	36.8	23.2	44.6	94	−21	May 23	Sept. 10
Colorado Springs	32.4	20.6	36.7	45.6	52.2	57.8	68.6	65.8	58.1	50.8	40.4	34.0	46.9	92	−20	May 13	Sept. 14
*Denver	34.8	22.7	37.9	48.1	54.9	62.5	73.5	72.3	60.6	52.6	41.1	36.3	49.8	97	−10	Apr. 30	Sept. 15
Durango	24.2	24.1	37.0	45.3	52.7	61.7	‡68.0	67.8	57.6	50.8	40.6	28.4	46.5	93	−11	May 25	Sept. 10
Fort Collins	30.3	14.0	30.6	45.2	52.2	59.3	68.4	67.6	56.8	49.4	36.0	32.3	45.2	95	−28	May 23	Sept. 15
Fort Morgan	25.2	14.6	35.0	48.0	54.9	62.1	71.8	70.8	59.4	50.4	.....	30.7	.....	95	−20	May 23	Sept. 15
Fox	31.8	20.1	36.1	48.1	56.2	62.0	74.0	72.3	61.1	51.6	38.8	33.6	48.8	100	−14	June 1	Sept. 15
Frnita	22.1	12.7	39.4	49.0	57.4	68.5	74.0	73.8	60.0	50.3	‡36.0	24.3	47.3	100	−23	May 4	Sept. 12
Garnett	11.1	16.7	29.9	40.2	46.8	‡56.6	62.0	60.0	51.3	40.6	30.8	18.6	38.7	87	−19	May 31	Aug. 28
Gilman	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	July 4	Sept. 10
Gleneyre	30.8	19.7	35.8	44.8	52.0	‡57.6	67.4	66.4	57.8	49.8	39.2	32.8	46.2	95	−14	May 27	Sept. 16
Glenwood Springs	22.8	17.2	34.0	43.8	.....	61.0	65.8	64.2	.....	49.0	35.4	.....	.....	93	−22	(‡)	(‡)
*Grand Junction	23.8	15.3	41.7	51.8	59.6	70.9	76.8	76.9	62.6	54.3	40.3	27.6	50.1	99	−15	Apr. 13	Oct. 31
Greeley	29.2	16.3	34.4	48.0	54.8	62.1	71.8	70.8	59.1	‡50.5	36.5	32.4	47.2	99	−22	Mar. 13	Sept. 15
Gunnison	6.0	7.4	23.6	38.0	45.8	55.0	59.8	59.6	50.2	41.5	30.4	14.3	36.0	87	−31	(††)	(††)
Hamps	27.4	18.7	35.8	45.5	52.1	59.0	68.5	67.6	57.2	48.8	37.0	31.4	45.8	93	−13	June 2	Sept. 15
Hoehne	32.1	20.4	39.0	48.1	54.0	59.8	69.8	69.2	59.8	49.8	40.8	30.8	47.8	97	−25	July 4	Sept. 15
Holly	.....	.....	.....	51.5	59.7	66.1	79.1	76.6	65.2	55.8	43.7	33.4	.....	102	.....	Apr. 30	Sept. 16
Holyoke (near)	30.1	19.0	34.2	48.6	56.6	.....	78.2	76.8	60.5	‡50.9	‡36.3	‡30.0	.....	102	−26	May 5	Sept. 14
Husted	29.2	17.4	34.4	43.2	49.8	56.2	65.9	65.0	55.6	46.4	35.9	29.4	44.0	94	−20	July 4	Sept. 10
Lake Moraine	21.6	12.4	25.8	31.0	36.6	44.6	54.4	54.6	45.6	38.6	32.4	23.6	35.3	74	−17	July 4	Sept. 7
Lamar	36.2	25.4	40.4	53.8	61.8	66.3	78.4	76.7	66.7	55.6	42.6	35.2	53.3	103	−13	Apr. 30	Sept. 16
Las Animas	32.4	24.5	40.4	51.6	59.2	64.4	76.7	74.6	62.6	52.6	38.6	.....	.....	102	−16	May 1	Sept. 17
Lay	17.0	6.6	26.7	.....	46.5	56.7	.....	63.8	51.3	42.4	.....	.....	.....	92	−45	(††)	(††)
Leadville	.....	.....	.....	.....	.....	.....	.....	55.2	46.0	39.6	30.9	21.4	.....	.....	.....	.....	.....
Leroy	29.8	16.8	34.0	45.4	53.6	61.2	72.4	70.8	59.8	51.8	38.0	33.6	47.2	99	−15	May 19	Sept. 14
Longs Peak	24.8	11.0	26.7	32.1	38.3	47.6	55.5	55.4	47.1	39.5	31.5	26.8	36.4	76	−22	(††)	(††)
Mancos	25.2	19.9	34.4	43.2	50.6	58.8	65.4	65.2	54.4	47.8	39.2	27.4	44.3	88	−20	July 4	Sept. 10
Meeker	19.8	11.5	31.4	41.9	48.6	58.7	63.6	63.6	52.2	44.9	34.2	22.6	41.1	94	−34	July 4	Sept. 8
Moraine	26.8	11.6	30.9	36.4	43.0	51.4	59.9	59.4	50.2	44.2	36.5	‡30.6	40.1	82	−22	(††)	(††)
Pagoda	21.8	11.7	.....	40.9	‡46.6	.....	62.8	.....	.....	49.1	36.1	26.0	.....	.....	−26	.....	.....
Parachute	23.7	17.3	38.8	48.4	57.6	66.6	72.2	72.0	59.0	51.0	39.8	26.4	47.7	99	−18	May 7	Sept. 15
*Pueblo	33.8	24.2	40.2	50.6	57.3	63.9	75.0	72.9	63.4	52.8	40.5	34.8	50.8	98	−13	May 3	Oct. 8
Rangely	.....	.....	31.5	47.4	52.8	64.5	66.8	67.2	‡58.7	48.2	35.0	20.0	.....	94	−34	May 19	Sept. 9
Rockyford	34.6	24.8	41.2	52.9	59.1	65.2	75.4	74.3	63.9	51.6	39.1	32.8	51.2	101	−15	May 1	Sept. 17
Rogers Mesa	20.7	17.3	37.2	47.2	54.2	65.7	71.5	71.2	60.0	51.2	39.6	25.6	46.8	98	−10	May 18	Sept. 12
Russell	15.0	12.7	26.1	36.8	44.3	50.9	57.6	57.8	.....	.....	.....	.....	.....	84	−22	(††)	(††)
Saguache	17.3	19.0	34.0	42.7	49.3	58.2	63.8	63.2	54.2	46.8	35.2	22.3	42.2	89	−11	May 30	Sept. 11
Salida	28.2	18.5	36.2	43.2	49.9	57.4	64.6	64.4	55.0	47.1	39.0	28.4	44.3	91	−25	May 31	Aug. 28
San Luis	17.7	17.4	31.0	42.2	47.7	55.0	62.4	62.0	‡51.8	45.0	36.3	26.6	41.3	91	−27	July 5	Sept. 11
Santa Clara	29.4	19.8	34.8	41.0	48.8	54.8	65.4	63.6	56.0	‡45.7	38.4	29.0	43.9	90	−11	July 4	Sept. 15

†† Frost every month. ‡ Frost every month except June.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.		
Colorado—Continued.																	
Silt	25.1	19.8	34.8	45.0	53.2	64.4	69.8	69.8	58.0	50.6	39.0	28.0	46.5	98	−9	May 23	Aug. 27
Sugarloaf	29.8	16.3	32.6	38.4	45.0	52.0	66.6	65.8	58.4	46.4	35.4	29.1	42.5	92	−16	June 11	Sept. 11
Trinidad	35.0	24.1	41.6	50.0	56.9	66.6	71.8	70.4	61.6	53.0	44.2	34.8	50.3	92	−10	May 2	Oct. 13
Wagon Wheel Gap	13.0	7.2	21.8	35.4	.....	.....	.....	.....	.....	.....	29.6	16.6	.....	.....	−40	.....	.....
Waterdale	32.4	17.4	32.3	47.2	52.6	59.2	67.4	67.3	57.6	50.1	38.8	33.9	46.4	97	−25	May 31	Sept. 15
Westcliffe	25.4	16.4	31.4	37.6	45.2	52.6	.....	.....	[r]50.2	48.9	35.0	25.2	.....	88	−17	July 4	Sept. 14
Whitepine	12.2	[c]7.0	20.6	27.8	38.0	47.0	58.6	58.5	44.2	37.4	27.0	15.1	32.0	78	−24	(††)	(††)
Wray	32.1	22.0	37.9	49.8	58.0	64.0	74.2	72.2	68.1	52.2	39.6	33.6	49.9	99	−13	May 19	Sept. 15
Connecticut.																	
Bridgeport	28.9	31.0	45.4	49.5	60.6	62.1	73.2	66.8	64.0	55.6	39.5	27.5	50.3	.....	.....	.....	.....
Canton	23.5	26.2	42.1	45.6	56.3	58.1	68.2	60.8	59.5	50.6	34.2	21.1	45.5	90	−15	Mar. 26	Sept. 29
Colchester	28.8	30.4	45.1	47.3	59.0	59.2	69.9	62.8	61.8	52.4	38.5	26.0	48.4	92	− 4	May 3	Oct. 22
Hartford	26.5	29.1	44.5	48.3	58.7	60.8	71.3	64.0	61.9	52.8	37.0	24.6	48.3	98	− 1	May 2	Oct. 25
Hawleyville	26.6	28.2	45.5	47.0	59.6	62.0	69.8	63.2	62.1	54.0	37.0	24.8	48.3	92	− 5	May 2	Oct. 22
*New Haven	29.2	31.7	44.6	48.8	59.8	60.8	72.0	65.4	62.9	54.4	38.6	27.4	49.6	94	1	Apr. 6	Oct. 25
New London	28.0	31.0	43.6	48.0	59.0	60.3	72.3	65.6	64.6	54.2	40.4	28.2	49.6	94	2	Apr. 7	Oct. 27
North Grosvenor Dale	25.0	27.4	43.1	46.3	58.2	60.0	69.4	63.0	61.6	50.9	35.5	24.4	47.1	95	−12	May 1	Sept. 29
Norwalk	27.8	29.0	44.4	48.6	61.2	62.5	71.4	65.0	62.0	52.9	36.4	24.8	48.8	97	−12	May 2	Oct. 22
Southington	26.8	29.0	45.2	46.8	59.2	60.6	70.2	63.0	61.8	52.8	36.3	24.8	48.0	91	−11	May 2	Sept. 29
Storrs	26.2	27.8	43.1	46.0	60.6	59.0	68.6	61.8	60.8	51.0	35.8	23.4	47.0	90	−10	May 3	Oct. 25
Torrington	24.2	27.5	43.4	45.9	58.7	59.4	69.8	62.8	61.4	50.7	35.6	22.8	46.8	96	−10	May 26	Sept. 29
Voluntown	28.6	29.9	44.1	46.5	58.2	59.8	69.0	63.6	62.2	[x]57.0	38.0	25.8	48.6	93	−12	May 26	Sept. 30
Waterbury	26.9	29.4	46.3	48.4	61.4	61.1	72.2	64.4	63.4	53.2	37.0	24.6	49.0	95	− 8	May 2	Sept. 29
West Cornwall	23.0	26.3	44.6	45.4	58.2	62.0	68.8	61.2	61.2	51.2	35.6	22.2	46.6	.....	.....	May 3	Oct. 19
Delaware.																	
Milford	35.4	39.2	50.2	54.8	65.2	67.9	76.6	72.5	68.6	58.8	44.5	33.2	55.6	99	6	Apr. 6	Oct. 27
Millsboro	34.4	37.9	50.6	52.8	63.6	66.5	75.6	73.3	67.0	58.2	42.8	32.4	54.6	99	6	Apr. 18	Oct. 27
Newark	30.2	33.4	47.7	51.2	63.0	65.1	73.0	70.6	65.5	55.8	40.2	28.2	52.0	98	−1	Apr. 6	Oct. 27
Seaford	34.3	38.4	51.1	52.6	64.6	66.6	76.0	73.4	67.5	57.5	42.6	31.8	54.7	96	6	Apr. 6	Oct. 27
District of Columbia.																	
Distributing reservoir (*e*)	33.1	37.2	51.0	55.0	66.3	67.7	77.4	72.6	68.6	58.2	42.9	31.8	55.2	.....	.....	.....	.....
Receiving reservoir (*e*)	32.4	36.9	50.6	54.0	66.5	68.2	76.7	72.2	67.8	57.0	41.0	30.4	54.5	.....	.....	.....	.....
*Washington	33.4	37.4	50.0	54.0	64.4	67.0	76.0	71.8	67.2	56.8	41.6	32.2	54.3	96	3	Apr. 6	Oct. 28
West Washington	32.2	37.4	50.6	52.8	64.9	67.6	76.3	72.9	67.0	57.4	42.0	31.8	54.4	.....	.....	.....	.....
Florida.																	
Archer	54.6	60.8	68.6	65.8	74.4	77.9	80.4	81.1	76.2	68.7	60.4	49.2	68.2	97	20	Feb. 18	Nov. 19
Avon Park	62.5	67.6	71.4	69.0	74.4	80.5	82.2	83.8	79.4	72.4	66.2	58.2	72.3	98	30	Jan. 9	Nov. 28
Bartow	64.2	69.4	74.2	69.8	76.0	80.4	81.6	83.2	79.8	73.2	64.2	55.2	72.6	95	28	Jan. 9	Nov. 28
Bonifay	51.2	57.0	65.0	65.2	73.1	77.2	81.0	82.6	76.4	67.6	57.9	47.6	66.8	99	20	Feb. 18	Nov. 19
Brooksville	58.8	63.7	[r]71.0	[k]66.7	.....	.....	.....	.....	.....	72.2	64.2	54.8	.....	.....	24	Feb. 18	Oct. 25
Carrabelle	54.4	57.7	65.6	65.6	72.5	77.6	81.3	80.2	.....	68.1	60.8	51.1	.....	95	25	Feb. 18	Nov. 28
Clermont	60.0	66.4	72.0	69.5	76.4	80.8	82.0	82.1	77.8	72.7	65.6	56.6	71.8	99	30	Feb. 18	Nov. 28
De Funiak Springs	50.0	55.2	64.6	64.3	71.5	75.8	80.0	80.9	75.5	67.2	57.6	47.1	65.8	99	19	Feb. 20	Nov. 19
Deland	59.2	64.0	69.4	65.8	73.3	79.4	81.2	.....	77.3	69.8	62.3	51.2	.....	.....	25	Feb. 18	Nov. 27
Eustis	59.4	65.2	71.2	69.4	76.0	80.8	82.5	84.2	78.8	71.8	63.7	54.6	71.5	101	26	Feb. 18	Nov. 28
Federal Point	55.6	61.5	68.4	66.0	73.0	78.5	80.8	82.8	77.0	70.2	61.8	51.4	68.9	96	29	Feb. 18	Nov. 27
Fernandina	52.0	57.0	65.4	[c]63.6	71.8	77.4	81.2	82.6	78.2	70.0	60.7	.....	.....	98	28	Feb. 18	Nov. 27
Flamingo	69.9	72.0	73.7	71.4	.....	81.0	.....	.....	.....	75.7	70.9	64.0	.....	.....	39	None.	None.
Fort George (*a*)	52.8	58.0	65.6	66.3	73.1	79.2	81.9	81.9	78.9	71.6	62.2	52.1	68.6	97	26	Feb. 18	Nov. 27
Fort Meade	61.8	67.0	71.0	68.9	74.6	80.3	82.0	83.4	79.8	72.0	65.8	56.0	71.9	99	26	Feb. 18	Nov. 28
Fort Pierce	62.4	67.8	72.2	69.0	72.9	78.2	79.2	81.4	78.0	73.9	67.2	57.5	71.6	96	33	Jan. 9	None.
*Gainesville	54.0	61.2	69.0	66.4	74.2	78.2	81.0	82.0	77.8	70.4	61.2	50.9	68.9	97	22	Feb. 19	Nov. 19
Grasmere	58.4	63.8	69.8	67.4	76.0	81.4	82.8	83.2	78.0	70.6	62.2	52.2	70.5	97	26	Feb. 18	Nov. 28
Huntington	56.8	63.0	70.0	67.2	74.6	79.8	82.6	83.8	78.8	71.0	61.0	50.6	[g]69.9	101	27	Feb. 18	Nov. 27
Hypoluxo	67.4	72.2	74.1	72.0	74.3	78.0	80.6	80.8	[n]79.6	75.8	.....	63.6	.....	92	37	None.	None.
Inverness	55.6	62.2	[c]68.8	67.1	74.8	79.2	80.9	81.8	[d]76.4	.....	60.4	50.5	.....	98	20	Feb. 18	Nov. 27
*Jacksonville	52.8	59.2	66.8	65.5	72.5	77.9	81.2	82.0	76.8	68.8	59.6	50.4	67.8	97	26	Feb. 18	Nov. 27
Jasper	52.3	58.6	67.0	65.2	73.3	77.0	80.4	.....	[d]76.3	68.2	59.4	47.5	.....	.....	19	Feb. 18	Nov. 19
Johnstown	52.6	[x]63.0	[c]67.6	[x]64.5	[x]73.0	.....	80.7	82.0	[d]76.8	67.2	[x]60.4	47.2	.....	.....	19	.....	Nov. 19
*Jupiter	66.6	70.6	73.7	71.8	76.0	79.5	80.8	82.9	79.6	75.4	69.6	62.6	74.1	96	36	None.	None.
*Key West	69.2	73.8	75.4	74.1	77.6	82.2	83.8	84.0	82.0	77.2	72.3	65.9	76.5	93	51	None.	None.
Kissimmee	60.2	65.4	70.2	[g]68.0	73.4	77.9	80.4	82.5	77.6	71.4	64.4	56.2	70.6	99	28	Feb. 18	Nov. 28
Lake City	53.6	59.8	68.0	65.5	73.6	77.7	81.1	82.0	76.4	68.8	60.4	50.0	68.1	99	20	Feb. 18	Nov. 19
Macclenny	53.9	59.6	67.6	65.8	73.2	78.4	81.8	83.9	77.7	.....	[x]60.6	49.5	.....	102	20	Feb. 21	Nov. 27
Madison	.....	.....	.....	.....	.....	78.4	81.6	83.6	76.3	68.8	60.6	49.6	.....	.....	.....	.....	Nov. 19
Malabar	61.7	67.2	72.2	70.6	74.5	80.0	80.9	83.2	79.4	73.8	66.9	57.6	72.3	98	31	Jan. 9	Nov. 28
Manatee	62.0	67.2	71.9	68.8	74.1	79.0	80.8	81.6	79.5	72.6	65.1	56.3	71.6	96	29	Jan. 9	Nov. 28
Marco	66.2	71.0	74.4	72.6	76.7	81.6	82.6	83.6	81.2	73.4	68.0	61.9	74.4	97	36	None.	None.
Marianna	47.4	55.6	65.0	64.4	71.4	76.8	80.2	81.4	73.6	65.9	56.0	.....	.....	96	22	Feb. 19	Nov. 19
Merritt Island	60.8	65.6	71.2	69.9	75.1	79.8	81.6	83.8	79.6	74.0	66.2	57.6	72.1	95	34	None.	None.
Miami	69.0	73.3	75.2	[b]72.8	76.9	80.2	.....	[k]83.8	80.8	76.6	71.6	66.2	.....	.....	36	None.	None.
Micanopy	.....	60.2	69.4	66.7	74.5	.....	.....	.....	.....	.....	60.0	50.2	.....	.....	24	Feb. 18	Nov. 26
Middleburg	.....	60.2	67.5	63.5	71.6	77.5	80.9	82.2	[c]75.2	.....	59.5	46.8	.....	105	17	Feb. 22	Oct. 25
Molino	50.0	55.6	64.1	64.4	70.2	76.2	80.3	82.0	76.0	67.2	57.6	46.6	65.8	103	20	Feb. 23	Oct. 25
Myers	62.6	66.9	71.3	69.6	75.1	79.0	80.2	81.2	79.0	72.4	65.8	58.5	71.8	94	35	None.	None.
New Smyrna	58.6	63.5	67.4	66.2	70.8	76.2	78.4	80.0	77.4	71.0	64.2	53.6	68.9	94	27	Feb. 18	Nov. 28
Nocatee	63.6	67.8	71.6	[c]67.6	75.0	.....	82.4	[n]83.4	80.2	72.6	66.8	56.6	.....	98	28	Jan. 8	Nov. 28
Ocala	56.6	62.0	69.8	66.8	74.4	79.0	81.3	82.6	77.8	71.0	62.0	51.4	[g]69.6	99	22	Feb. 18	Nov. 27
Orange City	61.0	64.4	71.1	67.4	75.1	.....	.....	.....	.....	71.4	63.8	53.5	.....	.....	24	Feb. 18	Nov. 27
Orange Home	.....	.....	.....	.....	.....	.....	[k]81.0	82.4	78.6	71.6	63.5	[g]63.0	.....	.....	.....	.....	Nov. 27
Orlando	60.2	[c]66.2	71.6	69.1	76.2	.....	85.0	85.4	.....	[r]71.1	64.7	53.8	.....	99	28	Feb. 18	Nov. 26
*Pensacola	50.4	55.6	62.6	65.2	71.3	75.8	81.0	82.4	76.4	68.6	58.1	49.8	66.4	96	26	Feb. 18	Nov. 19
Pinemount	61.0	58.0	67.3	65.0	73.5	77.8	81.5	83.0	76.8	68.4	59.6	46.7	67.4	101	19	Feb. 18	Nov. 19
Plant City	.....	65.4	71.6	.....	.....	.....	81.6	83.0	79.0	.....	[c]62.7	56.2	.....	97	25	Feb. 18	Nov. 28
Quincy	.....	53.4	64.3	63.0	72.9	77.2	81.4	.....	77.0	.....	.....	48.0	.....	.....	.....	Feb. 19	.....

†† Every month.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Florida—Continued.																	
Rockwell	56.4	.....	69.2	67.4	76.1	81.6	84.0	.....	f80.0	71.4	.....	.....	.....	99	.....	.....	.....
St. Andrews	50.4	54.4	65.6	64.0	71.7	78.8	81.8	82.6	76.7	68.4	58.2	47.3	66.7	99	21	Feb. 19	Nov. 19
St. Augustine	55.4	60.8	66.8	65.8	72.2	77.4	80.4	82.0	78.1	71.2	62.1	51.2	68.6	97	26	Feb. 18	Nov. 27
St. Leo	60.0	65.4	70.6	68.0	74.2	78.2	80.4	81.8	77.4	69.9	63.3	54.3	70.3	98	26	Feb. 18	Nov. 28
*Sand Key	.....	.....	.....	.....	.....	81.0	82.3	83.5	82.0	77.1	72.9	66.8	.....	.....	.....	.....	.....
Stephensville	51.8	58.7	67.4	63.4	72.6	77.4	80.7	f81.5	77.6	70.9	58.0	47.7	67.3	97	19	Feb. 18	Nov. 18
Sumner	54.8	60.3	68.8	63.8	72.1	77.0	79.1	80.7	76.8	69.1	60.2	48.6	67.6	95	23	Feb. 19	Oct. 25
Switzerland	54.0	59.9	67.6	65.4	72.0	77.8	80.2	81.4	76.6	68.6	60.0	49.6	67.8	96	26	Feb. 18	Nov. 27
Tallahassee	51.4	56.3	66.0	64.2	73.2	78.1	80.2	81.6	77.0	68.3	59.2	49.2	66.9	94	25	Feb. 18	Nov. 19
*Tampa	60.0	64.8	71.0	68.2	74.8	79.2	81.0	82.6	78.8	71.7	64.4	55.8	71.0	95	32	Feb. 18	Nov. 28
Tarpon Springs	59.8	65.0	71.6	67.6	74.0	78.7	81.0	82.4	78.8	71.6	63.5	53.3	70.6	97	26	Feb. 18	Nov. 28
Titusville	.....	65.2	69.4	67.3	72.3	78.1	79.8	82.1	.....	f70.2	.....	.....	.....	96	.....	Feb. 18	.....
Waukeenah	50.9	56.4	65.9	66.0	73.4	78.2	80.7	81.6	.....	.....	.....	.....	.....	.....	.....	Feb. 19	.....
Wausau	50.8	57.2	66.0	65.8	73.5	78.4	81.9	82.4	77.2	67.2	.....	48.0	.....	101	18	Feb. 18	Oct. 25
Wewahitchka	52.0	57.4	65.8	65.4	73.4	77.3	81.5	82.3	77.2	68.6	57.7	49.0	67.3	100	24	Feb. 18	Nov. 18
Georgia.																	
Adairsville	41.2	45.4	57.4	c58.8	k71.0	72.0	.....	79.0	71.0	62.1	47.7	37.2	.....	95	12	Apr. 5	Oct. 25
*Albany	48.2	56.2	60.9	c60.6	78.2	77.6	82.2	83.6	75.6	66.4	f57.2	.....	.....	100	23	Feb. 18	Nov. 20
*Allapaha	.....	.....	.....	62.6	72.5	77.4	81.6	82.3	74.8	65.8	c56.5	44.5	.....	99	20	.....	Nov. 19
Alpharetta	41.4	45.8	57.4	57.6	66.9	70.0	75.2	77.9	71.0	.....	47.5	37.3	.....	95	12	Apr. 24	.....
*Americus	44.5	50.2	61.7	60.9	71.9	77.4	82.0	81.7	73.0	63.7	53.2	43.2	63.6	99	19	Feb. 22	Nov. 19
*Athens	40.9	45.4	57.8	58.6	68.8	72.6	80.0	79.2	70.8	60.3	48.7	38.2	60.1	94	16	Apr. 5	Oct. 25
*Atlanta	41.6	46.4	57.0	58.5	68.5	71.4	78.4	78.2	71.0	62.2	48.0	39.8	60.1	93	12	Feb. 24	Oct. 25
*Augusta	44.8	50.5	62.0	61.4	71.6	75.0	81.0	81.2	73.8	62.8	51.9	42.5	63.2	98	20	Feb. 23	Oct. 25
*Bainbridge	k47.4	.....	63.4	63.5	72.2	77.3	80.8	80.8	73.4	66.2	.....	.....	.....	96	22	.....	.....
Blakely	46.7	50.8	.....	.....	69.8	.....	.....	.....	73.6	65.1	55.6	c44.8	.....	.....	15	Feb. 19	Nov. 19
Bowersville	40.2	45.4	56.8	59.7	69.5	72.2	79.4	79.6	71.6	61.8	49.6	39.3	60.4	97	15	Apr. 5	Oct. 25
*Camak	41.6	47.3	c61.6	60.8	70.6	74.5	81.2	81.6	73.1	62.0	50.2	40.4	62.1	99	16	Feb. 25	Oct. 25
Clayton	39.4	43.2	54.3	54.9	65.4	67.4	74.6	73.8	66.2	57.2	45.2	35.4	56.4	92	11	Apr. 24	Oct. 24
*Columbus	f47.9	d51.6	63.7	d62.0	71.6	76.8	81.9	82.7	75.2	66.4	54.4	k43.0	64.8	101	21	Feb. 22	Oct. 25
Coney	47.9	53.6	63.4	62.8	72.8	77.6	81.6	82.0	73.8	64.5	54.1	d43.9	64.8	101	18	Feb. 22	Oct. 25
Covington	41.2	47.2	58.6	59.7	68.9	72.6	79.6	80.2	72.9	63.7	49.8	39.2	61.1	97	15	Apr. 5	Oct. 25
Dahlonega	38.9	43.8	54.8	55.5	66.0	68.0	76.0	76.3	69.0	59.0	46.2	37.0	57.5	91	10	Apr. 24	Oct. 25
Dawson	.....	54.6	63.6	63.0	72.2	76.7	81.1	82.5	f74.6	65.4	55.2	44.6	.....	101	20	Feb. 22	Oct. 25
Diamond	38.1	44.1	56.0	55.1	66.0	69.3	74.9	76.2	70.0	58.6	46.2	37.0	57.6	97	9	Apr. 24	Oct. 19
Douglas	50.6	56.4	65.4	64.4	73.2	78.1	82.6	84.0	75.8	66.8	56.6	c46.4	66.7	104	19	Feb. 20	Nov. 19
Dudley	46.8	52.6	62.7	62.4	71.6	76.4	81.1	83.6	74.4	64.6	54.0	44.2	64.5	99	19	Feb. 20	Nov. 8
*Eastman	m47.1	.....	.....	62.7	73.9	78.2	83.1	84.0	75.3	65.5	.....	f42.8	.....	103	20	Feb. 20	Oct. 25
Eatonton	44.4	49.2	59.2	60.4	69.8	73.4	.....	.....	.....	.....	52.0	42.4	.....	99	17	Feb. 23	.....
Elberton	41.8	47.8	58.3	60.8	70.9	73.0	80.4	77.6	72.3	63.2	50.9	40.2	61.4	101	15	Apr. 5	Oct. 25
Experiment	42.5	48.2	58.0	59.6	68.4	72.9	79.2	79.2	70.9	62.3	49.8	40.8	61.0	96	14	Mar. 2	Oct. 25
Fitzgerald	48.2	56.0	64.4	62.6	72.2	77.2	e81.4	82.3	75.1	d66.0	53.0	45.6	65.3	99	18	Feb. 20	Oct. 25
Fleming	50.1	54.9	63.8	64.1	.....	.....	81.4	83.0	75.4	66.7	56.6	45.7	.....	101	17	Feb. 25	Nov. 19
Forsyth†	43.2	49.6	57.4	c59.8	70.6	74.2	81.0	81.4	73.0	64.1	52.3	42.8	62.4	99	16	Mar. 2	Oct. 25
*Fort Gaines	46.4	51.0	62.3	61.2	71.7	78.2	81.6	82.6	74.4	65.2	.....	.....	.....	100	23	Feb. 20	Oct. 25
*Gainesville	38.5	43.2	55.4	56.8	67.5	70.4	78.4	78.4	69.8	59.4	47.0	37.2	58.5	95	13	Apr. 5	Oct. 25
Gillsville	42.1	46.7	57.7	58.8	69.2	71.1	.....	c79.2	71.2	60.9	49.5	39.5	.....	95	13	Apr. 5	Oct. 25
Greenbush	.....	.....	.....	.....	.....	72.6	78.4	78.8	71.8	61.2	48.6	36.8	.....	94	.....	.....	Oct. 25
*Greensboro	41.2	46.0	59.2	59.4	70.3	73.8	79.6	80.0	71.9	61.8	49.8	39.2	61.0	101	15	Mar. 2	Oct. 25
Griffin	41.8	48.6	58.3	60.0	68.6	72.4	79.0	80.2	73.4	63.4	50.7	.....	.....	98	15	Mar. 2	Oct. 25
Harrison	46.9	51.4	62.2	62.6	71.2	75.2	80.7	81.2	72.8	62.6	52.8	43.2	63.6	97	20	Feb. 25	Nov. 19
Hawkinsville	45.4	51.4	62.6	61.2	71.2	76.6	80.6	81.7	72.4	62.9	52.5	42.0	63.4	99	19	Feb. 22	Oct. 25
Hephzibah	45.6	50.9	61.6	k59.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	101	18	.....	Oct. 25
Jesup	49.8	56.2	65.4	64.2	73.1	78.0	82.7	85.5	76.4	67.3	56.6	46.2	66.8	102	18	Feb. 20	Nov. 19
Lost Mountain	c42.2	46.8	57.6	59.2	69.8	71.6	77.8	79.2	72.2	61.4	48.7	38.9	60.4	95	11	Apr. 5	Oct. 25
Louisville	46.5	51.6	62.6	62.0	70.7	75.6	81.0	81.3	73.1	63.0	52.4	42.4	63.5	98	18	Feb. 25	Oct. 25
Lumpkin	46.4	52.2	62.2	62.3	71.4	76.4	81.0	f83.1	75.2	66.9	55.0	44.9	64.8	103	18	Feb. 23	Oct. 25
*Macon	45.0	50.4	60.8	60.9	70.6	75.0	80.3	81.3	73.0	63.6	51.9	42.5	62.9	96	21	Feb. 22	Nov. 19
Marshallville	46.6	c51.6	61.6	61.0	71.4	f76.2	81.7	c81.6	74.2	c65.6	s53.4	43.2	64.0	96	21	Feb. 22	Nov. 19
Mauzy	50.6	56.1	66.0	64.4	d72.8	76.6	c80.3	81.7	75.1	66.8	57.4	.....	.....	98	19	Feb 22	Nov. 19
Milledgeville	43.0	47.8	60.6	60.2	69.6	74.1	80.8	81.6	72.7	61.8	50.8	39.9	61.9	97	19	Feb. 26	Oct. 25
*Millen	d47.6	t52.8	.....	.....	73.1	77.2	81.8	83.0	f74.2	63.2	54.4	44.0	.....	102	19	.....	Oct. 25
*Monticello	42.8	49.0	59.7	60.6	70.6	74.8	81.4	81.2	73.5	63.4	51.4	41.3	62.5	101	16	Mar. 2	Oct. 25
Morgan	.....	.....	.....	.....	70.4	74.4	78.8	79.5	.....	d64.4	53.8	.....	.....	98	17	.....	Oct. 26
Naylor	49.6	56.1	66.0	64.4	73.0	78.6	81.9	83.4	76.8	.....	57.0	45.8	.....	100	19	Feb. 23	Oct. 26
*Newnan	40.6	45.5	56.6	58.2	68.6	73.0	79.4	80.2	71.7	61.4	48.8	38.8	60.2	99	14	Mar. 2	Oct. 25
Point Peter	41.8	48.0	58.4	58.9	70.4	72.8	79.6	79.4	71.2	61.3	50.1	39.8	61.0	99	13	Apr. 5	Oct. 25
Poulan	47.3	52.4	64.1	62.2	71.2	75.8	79.4	81.5	74.1	65.6	55.2	44.6	64.4	97	17	Feb. 22	Oct. 25
Putnam	46.4	51.3	61.8	62.2	71.3	76.0	e80.4	81.6	73.6	65.1	53.0	43.8	63.9	98	19	Feb. 24	Oct. 25
*Quitman	49.8	55.9	65.7	64.5	74.2	78.8	81.7	82.3	74.8	65.9	56.7	45.8	66.3	103	23	Feb. 24	Oct. 26
Ramsey	41.6	45.6	57.8	58.5	68.2	69.2	76.5	77.2	70.6	60.0	49.2	38.5	59.4	94	12	Apr. 24	Oct. 19
*Rome	41.6	45.4	57.8	60.0	69.0	72.2	79.4	79.6	71.9	60.2	48.4	37.4	60.2	98	12	Apr. 5	Oct. 28
St. Marys	51.5	58.4	65.6	64.4	72.6	78.4	81.7	83.4	77.4	67.8	58.1	47.6	67.2	101	20	Feb. 18	Nov. 27
*Savannah	49.8	55.4	63.9	63.6	71.8	77.0	80.8	82.1	76.4	66.2	56.4	47.6	65.8	99	25	Feb. 18	Nov. 19
Statesboro	47.9	54.0	k60.6	63.8	71.6	77.0	81.2	82.5	75.2	65.2	55.4	46.1	65.0	101	20	Feb. 20	Nov. 27
Stillmore	47.4	50.6	61.5	60.8	70.2	75.3	79.3	.....	.....	.....	.....	.....	.....	98	18	Feb. 20	.....
Talbotton	45.4	49.6	60.0	59.6	68.8	73.2	78.4	79.9	72.6	63.8	51.7	42.1	62.1	98	17	Feb. 24	Oct. 25
*Tallapoosa	39.4	44.3	56.4	56.2	68.0	69.8	76.8	79.2	71.6	61.1	45.8	.....	.....	99	10	Apr. 24	Oct. 25
*Thomasville	50.6	56.2	65.8	64.6	73.5	77.6	81.6	82.8	76.4	67.5	57.6	48.0	66.8	100	22	Feb. 18	Nov. 19
*Toccoa	39.8	44.6	56.0	57.8	68.5	71.0	78.8	78.6	71.4	61.2	48.2	38.8	59.6	96	13	Apr. 5	Oct. 25
Valona	50.6	55.6	65.2	c63.2	71.9	76.9	81.0	82.3	75.6	65.6	56.8	46.8	66.0	102	18	Feb. 18	Nov. 27
Vidalia	48.2	53.6	63.9	62.5	72.7	77.2	82.1	83.4	76.6	66.1	.....	.....	.....	100	.....	Feb. 20	.....
*Washington	.....	.....	.....	61.0	70.4	73.4	80.2	80.2	72.5	60.6	48.6	38.8	.....	97	18	Feb. 20	Oct. 25
Waverly	51.0	56.6	67.0	64.0	73.0	76.0	81.0	83.2	76.9	67.0	57.5	c47.0	66.8	101	17	Feb. 19	Nov. 19
*Waycross	49.8	55.8	67.8	64.7	73.8	79.0	82.0	83.3	76.2	66.6	57.2	46.8	66.9	100	21	Feb. 19	Nov. 19
*Waynesboro	44.6	49.5	61.1	61.4	70.2	74.4	80.0	79.8	72.4	61.8	51.4	41.8	62.4	95	20	Feb. 23	Oct. 25

† Observations made at Brent, a few miles distant, from January 1 to April 30.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
*Westpoint	42.8	47.4	60.0	60.8	71.2	75.8	82.2	82.8	73.6	63.2	50.1	40.0	62.5	104	16	Feb. 25	Oct. 25
Woodbury	41.8	46.6	58.4	58.8	67.6	.....	78.4	79.6	70.5	60.2	48.7	38.0	.....	97	16	Apr. 5	Oct. 25
Idaho.																	
Albion	30.2	19.4	36.8	43.8	50.5	63.6	62.8	66.2	54.6	47.2	38.4	28.2	45.1	94	—19	July 6	Sept. 9
American Falls	27.2	14.4	36.8	44.4	50.6	64.6	67.1	69.2	55.8	48.3	35.6	23.9	48.8	99	—20	May 29	Sept. 9
Blackfoot	25.1	12.6	36.3	42.6	52.1	66.0	69.2	.....	.....	.....	32.8	21.6	.....	.....	—27	May 20	.....
*Boise	32.2	26.2	43.2	49.0	57.4	70.6	70.0	72.3	59.7	53.5	43.0	32.2	50.8	104	4	Apr. 29	Oct. 30
Blue Lakes	31.8	23.2	42.7	50.5	57.8	70.4	70.2	72.4	60.2	56.0	43.0	34.6	51.1	104	—10	Apr. 2	Oct. 30
Burnside	17.6	11.4	26.2	37.0	47.9	59.6	62.2	67.0	52.2	47.4	31.4	23.0	40.2	93	—16	July 7	Sept. 6
Cambridge	22.1	[d]13.4	32.6	45.0	54.4	68.6	[g]67.8	[g]68.8	[f]56.0	[i]47.9	34.1	.....	.....	102	—20	May 19	Sept. 9
Chesterfield	18.2	5.7	26.0	38.8	47.2	58.8	58.5	60.4	49.2	.....	[d]31.2	20.3	.....	95	—37	July 9	Aug. 24
Dickey	18.2	[e]5.4	25.5	32.9	49.0	60.5	62.2	.....	46.6	.....	.....	.....	.....	.....	—25	May 18	Sept. 9
Forney	23.0	17.8	32.6	39.7	47.2	59.0	58.0	61.5	49.6	45.2	32.3	22.8	40.7	97	—21	July 16	Aug. 4
Garnet	32.7	25.4	45.6	52.1	60.2	76.0	76.2	77.2	64.3	56.2	44.6	32.6	53.6	110	— 3	Apr. 12	Oct. 27
Grangeville	31.0	27.5	36.8	42.0	51.0	62.6	61.8	65.2	54.0	49.5	38.4	30.8	45.9	96	1	May 20	Sept. 29
Idaho City	.....	.....	[j]37.5	42.8	[c]50.7	63.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake	15.0	9.2	25.4	31.8	45.7	52.8	58.3	57.3	45.4	46.4	37.6	20.0	36.7	84	—30	July 3	Sept. 6
Lakeview	32.2	27.6	37.2	44.4	51.8	64.1	68.3	64.3	58.5	47.0	35.6	32.6	46.1	91	4	May 21	Oct 15
*Lewiston	39.3	36.5	45.0	50.8	58.8	71.8	72.0	73.4	61.8	58.9	44.0	36.2	53.6	108	16	Apr. 12	Oct. 30
Lost River	15.9	11.1	26.2	38.8	47.6	59.6	60.6	63.1	51.4	45.9	30.9	21.0	39.5	89	—22	July 7	Sept. 15
Meadows	.....	.....	.....	.....	.....	60.6	59.6	62.1	50.4	45.2	31.4	23.1	.....	99	.....	June 6	Aug. 4
Moscow	30.8	30.6	34.8	42.2	52.8	61.6	58.4	64.4	54.4	50.1	37.5	31.4	45.7	98	4	May 21	Nov. 7
Murray	28.8	22.8	34.2	40.6	47.4	61.9	60.8	61.8	51.2	[g]3.8	32.8	27.9	42.8	98	— 5	May 24	Sept. 16
Oakley	29.6	20.0	37.0	44.4	52.4	65.6	66.1	69.6	55.9	51.9	40.3	30.0	46.9	100	—11	July 7	Sept. 7
Ola	.....	19.6	38.2	47.2	54.4	68.2	66.6	69.4	57.6	49.4	37.8	27.9	.....	101	—15	May 19	Sept. 26
Orofino	.....	.....	.....	.....	.....	.....	.....	.....	56.4	50.4	38.0	32.6	.....	.....	.....	.....	Sept. 30
Payette	28.8	23.4	42.8	48.6	.....	.....	.....	.....	62.0	52.4	41.8	31.3	.....	.....	—12	.....	Sept. 25
*Pocatello	28.2	17.8	37.8	43.8	51.8	65.3	68.0	71.1	56.9	50.4	38.9	26.8	46.4	96	—12	May 2	Oct. 15
Pollock	36.6	33.2	42.6	48.8	56.8	68.4	67.8	71.0	56.8	51.4	42.6	34.5	51.0	103	8	Apr. 12	Oct. 30
Porthill	28.1	21.9	33.1	43.0	51.1	62.6	61.3	62.7	51.0	44.3	32.3	30.5	68.5	89	1	May 21	Sept. 15
Priest River	28.5	[c]21.7	34.3	41.7	[b]50.8	[f]62.1	60.3	62.2	50.6	.....	32.8	29.2	.....	94	— 5	May 23	Sept. 13
Riddle	24.2	11.3	31.0	39.3	47.3	60.8	61.6	64.7	[a]53.8	.....	[a]40.2	25.7	.....	94	—33	July 6	Aug. 26
Roosevelt	21.9	[j]16.0	25.8	[j]28.6	.....	[b]54.0	[b]50.4	56.9	[l]44.4	[k]44.8	[k]27.0	[j]24.3	.....	82	—14	July 24	Aug. 4
St. Maries	32.2	29.8	38.4	44.0	53.0	65.4	62.8	64.8	54.6	50.0	37.5	33.2	47.1	99	— 5	Apr. 29	Sept. 16
Silver City	27.8	19.6	31.2	36.8	47.0	62.1	[c]59.0	.....	.....	.....	.....	.....	.....	.....	— 7	July 17	.....
Soldier	14.6	3.8	24.6	36.8	47.4	60.4	60.6	63.8	50.6	45.5	27.6	15.4	47.6	97	—37	July 9	Sept. 9
Vernon	20.2	13.2	29.6	38.4	47.3	59.6	60.8	64.6	52.1	46.0	[c]31.7	22.2	40.5	94	—22	July 3	Sept. 9
Weston	26.0	11.6	34.2	44.4	51.2	64.2	66.8	68.0	[e]54.8	[i]49.6	33.4	22.4	43.9	98	—25	May 19	Sept. 9
Illinois.																	
Albion	30.6	33.4	49.4	55.1	.....	69.4	78.8	75.7	68.8	56.3	40.2	28.2	.....	101	— 6	Apr. 23	Oct. 24
Aledo	24.5	23.8	43.4	52.5	63.2	66.0	74.0	71.0	63.6	53.8	36.1	21.0	49.4	95	—17	May 1	Oct. 27
Alexander	26.7	27.9	46.1	54.7	65.4	66.6	76.0	73.2	66.4	56.2	39.0	25.2	52.0	96	—19	May 1	Oct. 18
Antioch	20.4	21.1	40.4	48.0	61.0	62.6	71.6	67.6	63.8	50.8	33.3	17.0	46.5	95	—18	Apr. 23	Oct. 23
Ashton	21.6	22.0	40.4	48.1	61.0	62.8	70.5	67.6	61.2	51.9	34.0	17.3	46.5	90	—23	May 1	Oct. 18
Astoria	25.7	26.1	44.6	52.4	63.8	65.2	74.0	71.0	63.8	53.4	37.0	23.3	50.0	96	—15	May 1	Oct. 18
Aurora	23.0	23.0	41.2	49.0	61.8	63.4	72.4	68.6	62.2	51.0	35.4	17.8	47.4	94	—20	May 1	Oct. 18
Benton	33.6	36.2	51.2	57.4	69.2	70.0	81.0	78.2	71.4	59.4	42.6	31.6	56.8	102	— 5	May 2	Oct. 18
Bloomington	25.6	26.8	45.5	53.2	66.0	67.2	76.3	72.7	67.4	56.1	38.4	25.2	51.5	100	—16	May 1	Oct. 18
Bushnell	.....	.....	.....	.....	[c]69.2	67.4	[c]77.2	73.8	66.4	55.8	38.0	23.1	.....	99	.....	.....	Oct. 18
*Cairo	36.6	37.5	52.0	58.1	68.6	69.8	79.4	77.4	71.1	60.0	44.5	34.0	57.4	95	— 1	Mar. 3	Nov. 7
Cambridge	23.6	23.2	41.5	50.2	64.0	65.5	74.6	71.0	64.0	53.0	34.6	20.4	48.8	95	—16	May 1	Oct. 18
Carlinville	29.1	29.4	47.1	55.2	66.0	67.2	76.9	74.0	67.0	56.3	39.7	26.8	52.9	96	—13	May 1	Oct. 18
Carrollton	28.9	29.2	47.0	56.2	[d]66.3	.....	.....	.....	68.2	56.8	39.5	26.2	.....	.....	— 9	May 1	Oct. 28
Centralia	32.4	33.8	49.8	56.0	67.4	67.9	78.6	76.0	70.8	[d]64.0	[c]40.6	.....	.....	101	— 6	May 1	.....
Charleston	28.2	29.2	47.6	52.9	67.8	67.6	76.6	73.2	66.4	56.1	39.8	25.8	52.6	96	—12	May 1	Oct. 18
*Chicago	24.0	25.0	40.4	47.2	59.8	61.2	72.2	68.4	64.4	53.6	36.4	20.6	47.7	92	—13	Apr. 5	Oct. 27
Cisne	31.2	34.0	50.0	56.4	67.8	68.8	77.6	75.7	69.4	58.4	41.0	28.8	54.9	99	— 9	May 3	Oct. 24
Coatsburg	26.0	25.8	45.2	54.0	65.5	66.8	75.8	73.4	64.2	54.6	36.6	23.6	51.0	96	—18	May 1	Oct. 18
Cobden	34.8	36.2	50.5	56.8	67.8	68.7	79.7	77.8	71.3	59.4	43.5	32.9	56.6	100	— 7	May 1	Oct. 24
Danville	.....	[e]27.1	[d]46.6	52.9	65.6	66.2	76.6	.....	.....	.....	.....	.....	.....	.....	—12	May 4	.....
*Decatur	26.1	27.8	45.9	53.4	65.6	66.2	76.2	73.1	67.0	56.4	38.8	24.8	51.8	98	—18	May 1	Oct. 18
*Dixon	21.2	21.6	[c]39.8	48.8	63.1	64.8	73.4	69.2	63.3	53.9	[f]36.1	22.6	48.2	94	—14	May 1	Oct. 27
Dwight	25.0	25.6	42.5	50.4	63.6	65.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Effingham	28.5	32.6	49.2	54.7	.....	67.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 1	.....
Equality	33.7	36.2	53.1	57.5	69.2	68.8	79.5	76.9	70.4	58.8	42.4	31.7	56.5	100	— 4	May 1	Oct. 24
Fandon	26.0	26.4	45.3	53.2	63.8	65.9	76.0	73.0	65.0	[b]57.0	38.6	24.3	51.2	98	—17	May 1	Oct. 27
Flora	29.6	[c]33.8	47.9	53.8	[c]66.1	67.2	76.3	.....	66.8	56.9	39.4	27.7	.....	.....	— 2	May 1	Oct. 18
Friendgrove	30.8	33.8	49.2	54.1	67.2	67.8	77.4	74.4	68.2	56.4	41.0	28.2	54.0	96	— 5	May 1	Oct. 18
*Galva	23.6	23.6	41.4	50.0	63.6	64.2	74.0	70.0	63.2	53.5	35.5	20.3	48.6	97	—18	May 1	Oct. 18
Greenville	29.4	31.2	47.7	55.4	67.4	68.3	79.0	75.9	69.9	58.8	39.8	27.0	54.2	101	—11	May 1	Oct. 18
Griggsville	27.4	28.2	47.0	56.2	66.8	69.4	79.3	77.2	67.8	58.2	39.3	27.0	53.6	99	—16	Apr. 4	Oct. 24
Halfway	33.8	35.6	50.4	56.4	69.4	69.7	79.8	77.2	71.2	58.7	43.0	32.4	56.5	97	— 4	Apr. 4	Oct. 24
Halliday	33.3	35.8	50.2	56.7	68.2	69.4	76.0	78.2	.....	.....	.....	.....	.....	99	— 5	Apr. 4	.....
Havana	.....	.....	.....	.....	.....	.....	[g]78.1	[c]74.2	67.8	56.5	38.1	24.5	.....	99	.....	.....	Oct. 18
Henry	24.9	25.8	44.4	52.4	64.4	65.0	74.8	71.4	64.6	53.8	37.2	22.2	50.1	95	—19	May 1	Oct. 18
*Hillsboro	28.6	30.5	47.4	55.2	66.6	66.8	78.0	74.8	68.2	57.4	39.8	26.0	53.3	99	—13	May 1	Oct. 24
Hoopeston	26.0	26.8	44.8	51.2	65.1	65.4	75.2	71.1	64.8	53.7	35.6	20.8	50.0	100	—17	May 1	Oct. 18
Joliet	22.8	23.1	40.9	48.4	62.7	64.4	73.8	69.9	64.2	52.3	36.0	19.3	48.2	94	—15	May 1	Oct. 18
Kishwaukee	20.8	21.3	40.0	48.6	61.4	62.4	71.0	68.4	61.2	51.9	[c]32.6	16.5	46.3	94	—22	May 8	Sept. 18
Knoxville	23.8	23.0	42.5	50.6	62.4	64.0	73.2	70.1	62.8	52.3	35.6	21.4	48.5	96	—18	May 1	Oct. 23
Lagrange	23.3	23.6	40.4	47.8	61.4	[c]62.0	.....	.....	[d]62.4	51.3	35.2	18.2	.....	.....	.....	May 1	Oct. 18
Laharpe	25.1	25.0	44.2	52.6	63.7	66.0	75.6	72.6	65.0	54.6	37.2	22.8	50.4	98	—18	May 1	Oct. 18
Lanark	21.3	20.8	40.5	48.4	62.3	61.8	70.0	67.8	60.3	49.6	32.9	17.6	46.1	92	—24	May 7	Sept. 18
Lasalle	.....	25.0	45.0	.....	.....	.....	.....	[k]74.2	[b]67.0	[a]56.4	41.4	25.3	.....	.....	.....	.....	Oct. 23
*McLeansboro	32.4	34.5	50.4	56.1	68.4	69.2	79.8	77.0	70.2	57.9	42.9	30.7	55.7	100	— 5	May 4	Oct. 18
Martinsville	.....	.....	[c]53.6	.....	.....	.....	.....	72.4	65.5	[f]56.0	[f]37.1	23.3	.....	.....	.....	.....	Oct. 18
*Martinton	24.2	25.2	43.8	49.2	63.6	64.6	74.2	70.6	64.4	53.6	36.0	[b]22.6	49.3	97	—15	May 2	Sept. 18

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
Mascoutah	30.4	32.0	46.4	54.6	64.3	67.0	77.3	72.4	65.7	57.2	40.4	28.3	53.0	96	— 6	May 2	Oct. 27
Mattoon	31.0	33.5	49.6	52.6	68.2	65.0	75.4	72.2	64.8	56.2	40.1	28.6	53.0	92	— 8	May 1	Oct. 18
Minonk	23.8	24.2	43.0	50.6	63.4	64.6	73.4	69.9	64.4	53.3	36.9	21.4	49.1	99	—16	May 1	Oct. 18
Monmouth	23.4	22.8	42.9	51.1	63.5	64.6	71.8	71.6	63.5	52.9	35.6	21.3	48.8	99	—18	May 1	Oct. 24
Morrison	22.6	22.7	41.6	50.4	62.4	63.5	71.6	68.7	62.4	52.2	35.3	19.2	47.7	92	—22	May 1	Oct. 18
Morrisonville	27.7	28.8	46.7	54.0	65.4	66.6	76.1	73.6	67.8	56.5	39.3	25.8	52.4	97	—14	May 1	Oct. 18
Mount Pulaski	25.4	27.4	46.0	53.7	65.6	66.8	76.3	72.8	66.6	56.0	38.5	23.8	51.6	98	—17	Apr. 30	Oct. 18
*Mount Vernon	31.5	35.8	49.7	56.9	68.5	69.6	79.8	76.8	69.0	57.6	40.8	27.9	55.3	99	— 1	May 1	Oct. 24
*New Burnside	34.8	35.6	53.4	58.1	69.8	70.2	82.3	79.4	73.4	[c]59.1	44.3	33.2	57.8	102	— 6	May 1	Oct. 18
Olney	30.6	33.4	48.8	54.8	68.4	69.4	78.9	75.9	69.4	57.2	40.4	27.7	54.6	102	— 7	May 2	Oct. 28
Ottawa	26.5	27.0	44.8	52.8	65.6	67.2	76.0	72.0	65.9	54.8	38.0	23.0	51.1	98	—13	May 2	Oct. 18
Palestine	27.2	30.3	47.4	52.8	68.0	69.4	78.2	75.0	68.2	55.4	[d]43.1	27.1	53.5	99	— 9	May 1	Oct. 24
Pana	28.1	27.8	44.6	51.5	64.8	63.6	75.8	73.6	.....	57.0	39.2	25.8	.....	97	—17	May 2	Oct. 18
*Paris	26.9	28.4	46.8	52.8	[e]67.2	[e]67.2	76.9	73.2	68.3	56.6	[d]41.4	28.0	52.4	97	—12	May 1	Oct. 18
*Peoria	27.8	27.1	46.7	54.3	66.8	69.0	77.6	72.6	66.3	55.6	39.5	24.2	52.3	100	—13	Apr. 4	Oct. 24
Philo	24.7	26.2	45.2	51.0	64.8	65.1	74.5	71.4	65.3	54.0	37.1	22.6	50.2	96	—15	May 4	Sept. 18
Plumhill	31.8	33.5	48.6	55.4	66.2	66.8	78.4	75.8	.....	.....	42.0	30.4	.....	101	— 6	May 4	Oct. 24
Pontiac	26.1	26.7	44.6	52.2	64.4	66.0	75.1	71.6	65.2	55.0	37.8	22.7	50.6	96	—14	May 1	Oct. 18
*Rantoul	24.8	26.6	45.0	52.2	64.4	65.3	75.3	71.6	65.4	53.5	37.4	23.3	50.4	97	—17	May 2	Sept. 18
Raum	33.8	35.6	50.9	55.7	67.8	69.3	79.5	76.8	72.2	59.1	42.8	31.2	56.2	100	—10	May 1	Oct. 24
Riley	21.2	22.0	40.0	48.0	60.8	62.6	71.2	67.6	62.2	51.8	34.2	16.6	46.5	92	—20	May 1	Sept. 18
Robinson	27.8	31.3	47.1	50.8	66.2	66.5	.....	72.4	67.4	56.2	39.8	27.0	.....	98	—10	May 2	Oct. 24
*Rockford	.....	.....	.....	.....	63.8	64.4	73.2	69.0	63.0	.....	.....	.....	.....	.....	.....	.....	.....
Rushville	26.3	26.2	45.6	54.4	65.6	66.8	76.5	73.2	65.6	56.0	38.0	25.2	51.6	98	—17	May 1	Oct. 24
St. Charles	22.6	23.8	41.4	49.6	61.2	63.6	72.2	68.1	62.4	52.0	34.5	17.4	47.4	95	—21	May 4	Sept. 18
St. John	33.0	34.2	49.6	56.8	69.4	70.2	80.0	77.2	69.6	57.7	41.9	31.6	55.9	100	— 4	May 1	Oct. 18
Shobonier	30.2	31.9	48.0	55.9	[b]66.8	68.4	79.0	74.6	[d]68.2	58.3	41.5	28.4	54.3	100	— 8	May 4	Oct. 18
*Springfield	27.2	28.2	45.4	53.2	65.4	67.0	76.6	73.1	66.4	56.2	38.3	24.6	51.8	97	—12	Apr. 4	Oct. 24
*Streator	24.1	23.4	43.2	50.2	63.5	64.6	.....	[f]70.8	63.2	53.8	37.2	21.0	.....	95	—17	May 1	Oct. 18
Sullivan	27.0	28.4	46.6	53.6	66.1	66.0	75.4	72.2	67.0	55.8	38.9	24.6	51.8	95	—16	May 1	Oct. 24
*Sycamore	22.6	23.4	41.9	50.1	63.2	63.6	72.9	68.8	61.6	51.3	33.6	15.9	47.4	97	—19	May 1	Sept. 18
Tilden	33.0	33.4	49.0	56.3	66.2	68.0	78.8	75.2	69.0	57.4	41.7	31.0	54.9	100	— 7	May 4	Oct. 18
Tiskilwa	23.0	22.2	42.0	50.1	62.4	63.9	72.8	69.6	63.2	52.6	35.3	19.9	48.1	94	—19	May 1	Oct. 18
*Tuscola	25.6	27.4	45.9	51.6	65.6	65.8	75.8	71.9	65.4	53.8	37.7	22.2	50.7	96	—14	May 2	Oct. 18
Urbana	23.8	25.6	44.2	50.8	64.0	65.5	74.8	71.6	65.6	54.2	36.1	22.2	49.9	96	—17	May 2	Oct. 18
Walnut	24.2	24.4	43.8	51.8	65.4	65.8	73.9	70.6	64.4	[d]54.0	36.4	20.7	49.6	97	—19	May 1	Oct. 18
Winchester	27.0	27.8	46.2	54.5	66.3	67.4	77.0	[h]73.8	67.0	56.6	38.4	25.2	52.3	97	—13	May 1	Oct. 18
Winnebago	21.2	22.3	40.8	49.2	62.4	63.2	71.6	68.5	61.8	51.8	34.2	16.8	47.0	94	—21	May 1	Oct. 18
Yorkville	23.2	23.2	41.0	49.5	62.2	63.7	73.2	69.3	63.0	50.8	34.3	17.6	47.6	97	—21	May 1	Oct. 18
Zion	22.8	23.2	40.0	49.0	62.5	64.0	71.4	68.4	61.4	51.6	34.0	17.0	47.1	93	—21	May 2	Oct. 23
Indiana.																	
Anderson	26.4	29.4	46.4	51.7	65.3	65.6	74.8	71.6	66.5	54.6	37.8	23.6	51.1	96	— 8	May 4	Oct. 24
Angola	23.5	24.7	42.1	47.5	61.7	63.0	71.0	67.4	62.7	52.3	35.6	22.0	47.8	91	—10	May 4	Oct. 24
*Auburn	23.6	25.0	[d]43.8	47.8	62.0	62.6	70.6	69.2	62.1	.....	35.2	21.2	.....	92	—13	May 4	.....
Avoca	27.6	32.2	48.4	52.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 5	.....
*Bloomington	28.8	33.0	48.2	53.2	66.5	67.2	76.8	73.2	67.4	56.4	38.5	26.8	53.0	100	— 7	May 1	Oct. 24
Bluffton	24.6	26.2	44.8	49.4	62.6	62.4	.....	.....	65.6	54.2	37.0	23.2	.....	.....	—13	May 4	Oct. 21
Butlerville	29.6	33.0	48.4	53.2	66.6	66.1	76.0	73.8	68.5	56.4	39.6	27.0	53.2	97	—10	May 4	Oct. 18
*Cambridge City	23.4	28.2	44.6	49.6	62.6	63.8	72.7	70.3	63.4	52.2	35.3	21.2	48.9	93	—12	May 5	Oct. 24
*Columbus	28.7	33.0	49.0	53.6	65.4	66.3	75.4	72.5	66.7	54.6	37.6	24.0	52.2	98	— 8	May 4	Oct. 18
Connersville	26.2	30.4	46.4	50.6	63.8	64.8	73.6	71.4	64.8	53.2	37.3	24.1	50.6	94	—10	May 4	Oct. 24
Crawfordsville	28.0	31.9	48.2	53.7	66.9	67.7	78.2	74.2	[i]66.1	54.9	36.8	21.2	52.3	101	— 8	May 3	Oct. 10
*Delphi	22.8	25.4	45.0	50.0	64.6	65.6	74.5	71.2	64.7	52.7	36.0	19.8	49.4	100	—12	May 4	Sept. 18
Edwardsville	32.9	36.0	52.2	57.1	70.0	69.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elkhart	23.5	24.4	43.6	50.0	64.0	64.8	73.6	69.4	65.5	53.1	36.9	21.1	49.2	94	— 7	May 1	Oct. 24
*Evansville	32.2	35.9	51.0	55.9	68.9	69.8	79.4	76.4	70.3	59.0	42.6	30.6	56.1	96	— 3	Apr. 4	Oct. 28
Farmersburg†	[f]26.2	[c]30.7	48.3	52.9	66.2	65.4	.....	72.8	67.8	55.6	38.0	25.8	.....	.....	—10	May 2	Oct. 18
*Farmland	25.8	30.4	45.8	49.8	63.2	64.0	74.9	70.4	64.0	53.6	38.4	24.2	50.4	93	— 6	May 4	Oct. 24
Fort Wayne	[j]26.6	27.4	44.4	51.0	62.8	64.0	72.6	69.6	63.3	54.7	36.2	[c]22.0	49.6	92	— 9	May 4	Oct. 24
Franklin (*a*)	29.5	32.4	48.4	52.5	66.8	67.6	75.6	72.0	.....	54.0	38.1	26.4	.....	95	— 4	May 4	Oct. 24
Greencastle	27.6	30.8	46.5	52.0	65.5	66.0	75.2	71.8	66.0	54.4	37.6	24.3	51.5	94	—10	May 4	Oct. 24
Greenfield	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	37.4	24.0	.....	.....	.....	.....	.....
Greensburg	28.2	31.9	47.0	52.8	65.7	66.2	75.2	72.6	67.6	55.6	38.4	25.6	52.2	96	— 7	May 4	Oct. 18
Hammond	22.4	23.3	41.0	45.2	60.2	62.8	71.0	69.3	67.8	55.3	35.9	18.5	47.7	93	—17	May 3	Oct. 26
Hector	24.0	26.0	44.2	47.6	63.6	64.8	73.6	71.2	63.2	[f]51.5	34.6	21.2	48.8	96	—11	May 4	Oct. 9
Holland	32.0	35.0	50.8	55.8	67.3	68.3	77.8	75.4	68.7	58.8	43.2	29.6	55.2	98	—11	May 1	Oct. 17
Huntington	23.2	25.7	44.1	49.8	63.4	65.2	72.5	70.6	64.7	51.7	37.2	20.2	49.0	94	— 9	May 5	Oct. 18
*Indianapolis	26.8	31.0	47.2	52.3	66.0	66.4	76.0	72.2	67.0	55.4	38.2	24.2	51.9	94	— 9	Apr. 5	Oct. 24
Jeffersonville	32.6	36.3	50.8	55.0	68.8	69.8	78.7	75.8	69.2	57.2	41.6	30.2	55.5	98	0	Apr. 5	Oct. 24
Kokomo	25.4	28.4	44.6	51.8	65.6	65.6	74.6	[f]71.6	65.9	54.6	37.4	22.4	50.7	97	—10	May 4	Sept. 18
*Lafayette	24.8	27.8	46.4	50.0	65.0	65.8	74.2	71.6	65.4	53.4	36.2	20.5	50.1	100	—13	May 1	Sept. 18
Laporte	24.4	25.6	.....	.....	.....	63.4	71.9	68.0	62.9	52.0	37.2	20.8	.....	95	— 8	May 4	Oct. 11
*Logansport	24.0	26.0	45.2	50.0	64.6	66.0	74.7	70.8	65.2	53.5	36.6	.....	.....	97	—10	May 5	Oct. 21
Madison	31.0	35.0	51.0	55.5	68.5	69.2	78.4	75.6	70.2	57.4	40.6	28.6	55.1	100	— 8	May 5	Oct. 18
Marengo	31.4	34.8	50.2	54.7	67.0	69.3	77.0	74.5	68.4	56.8	43.2	30.3	54.8	100	—17	May 4	Sept. 18
*Marion	25.4	27.4	45.6	52.2	65.1	65.0	74.0	71.9	66.2	54.0	37.4	22.4	50.6	97	—12	May 4	Oct. 10
Markle	25.2	26.8	44.2	49.9	63.1	63.8	71.2	69.2	64.2	53.1	36.4	21.0	49.0	95	—12	May 4	Oct. 21
Mauzy	26.1	29.7	46.2	51.0	64.4	65.1	73.6	70.9	66.4	54.6	36.4	23.8	50.7	95	—11	May 4	Sept. 18
Moores Hill	29.0	33.0	48.9	53.7	65.8	66.2	76.0	73.6	68.8	58.0	38.8	25.7	53.1	96	— 7	May 4	Oct. 24
Mount Vernon	33.1	33.4	49.4	58.4	68.8	66.8	80.1	79.2	70.3	58.1	41.8	30.1	56.8	100	.....	May 2	Oct. 18
Northfield	23.8	26.8	44.6	49.6	63.1	63.8	73.2	69.6	63.3	52.0	35.8	21.4	48.9	97	—13	May 4	Oct. 18
Paoli	31.0	33.9	49.6	54.4	67.0	67.4	76.7	74.2	68.8	56.8	40.3	27.9	54.0	98	— 9	May 2	Oct. 18
Princeton	32.0	34.6	49.0	54.5	68.0	68.0	78.0	75.4	69.0	56.0	42.5	29.0	54.7	99	— 6	May 1	Oct. 18
Rensselaer	26.6	26.9	44.5	50.6	63.7	64.6	72.7	69.6	64.2	53.4	37.7	21.6	49.7	95	—14	May 2	Oct. 18
Richmond	28.0	30.0	47.6	51.5	64.4	65.0	72.8	71.0	65.8	53.7	36.6	23.9	50.9	94	—13	May 4	Sept. 18
Rockville	26.8	29.6	47.4	52.4	65.6	65.4	75.0	72.0	66.4	55.2	38.0	22.8	51.4	94	—13	May 1	Sept. 18

† Name of station changed from Prairie Creek.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.		
Indiana—Continued.																	
Rome	.....	.....	.....	.....	68.4	69.2	77.7	76.7	69.0	57.8	41.0	28.0	.....	98	.....	May 4	Oct. 17
Salem	31.4	34.8	49.0	55.5	68.5	68.5	77.0	75.0	69.4	57.8	41.5	28.4	54.7	100	—14	May 4	Sept. 18
Scottsburg	32.1	35.0	50.2	54.9	68.2	69.0	77.7	75.0	68.6	57.5	41.6	29.6	55.0	98	— 9	May 1	Oct. 18
Seymour	28.4	33.8	49.2	54.0	66.9	67.6	76.4	73.4	67.4	56.3	40.8	26.2	53.4	96	— 6	May 5	Oct. 8
Shelbyville	.....	.....	.....	.....	.....	67.6	.....	[f]73.1	[e]68.6	[e]57.4	[d]40.6	[e]25.8	.....	.....	.....	.....	Oct. 18
*South Bend	23.0	24.2	42.5	48.0	63.5	63.8	72.4	68.5	64.2	52.6	35.8	18.8	48.1	93	—10	May 4	Oct. 10
Syracuse	23.2	25.1	43.6	50.0	64.2	64.6	73.4	69.4	64.5	53.2	36.9	21.3	49.1	96	—10	May 4	Oct. 18
Terre Haute	28.9	30.7	46.4	53.6	67.8	68.6	77.9	75.1	6[illegible]6	58.0	41.6	28.1	53.9	98	— 8	May 1	Oct. 24
Topeka	23.6	23.2	44.8	48.6	62.0	62.5	69.9	66.8	64.0	53.4	36.2	18.4	47.8	91	—13	May 4	Oct. 23
Valparaiso	22.6	23.3	41.6	48.8	62.8	63.5	72.4	68.0	63.2	53.6	37.4	20.8	48.2	95	—13	May 1	Oct. 18
Veedersburg	27.6	[e]28.2	[d]48.0	[e]52.9	[g]64.2	[f]65.2	[h]76.1	[g]72.6	[d]67.4	[f]57.4	[e]36.8	[e]24.2	51.7	.....	—14	May 4	Oct. 19
Vevay	32.0	35.8	50.6	55.2	67.6	67.7	77.0	74.2	68.0	57.0	41.6	28.2	54.6	97	— 5	May 4	Oct. 23
*Vincennes	29.9	32.2	49.6	54.6	69.0	69.2	76.8	75.6	69.4	57.6	40.4	26.4	54.2	100	— 6	Apr. 22	Oct. 18
*Washington	29.2	32.1	47.1	54.0	67.6	68.4	76.1	74.8	68.3	56.8	40.2	26.5	53.3	98	— 5	May 2	Oct. 18
Winamac	28.4	.....	45.2	49.6	[e]62.4	64.2	73.4	[f]69.0	64.9	[e]55.4	[e]39.4	[e]21.2	.....	98	.....	May 2	Sept. 18
Worthington	29.0	32.5	49.1	53.0	.....	.....	75.3	72.8	67.4	56.1	.....	.....	.....	.....	.....	May 4	Sept. 17
Indian Territory.																	
*Ardmore	40.4	39.8	52.8	63.0	68.1	72.4	81.0	82.5	73.0	62.2	49.0	41.9	60.5	104	6	May 1	Oct. 18
Chickasha	39.5	36.5	49.7	61.8	67.5	71.8	83.3	82.0	71.2	60.8	47.1	40.0	59.3	107	6	May 1	Oct. 18
*Durant	42.7	41.2	54.8	63.6	69.8	74.2	83.1	82.1	72.2	61.4	49.9	42.7	61.5	105	— 2	May 1	Nov. 17
Fairland	37.2	34.7	50.2	59.3	65.3	68.8	78.4	76.8	69.2	59.6	44.8	37.4	56.8	95	— 4	May 3	Oct., 18
Goodwater	43.9	44.2	57.0	61.4	66.2	71.2	80.6	80.4	71.8	60.8	48.8	41.0	60.6	100	— 1	May 1	Oct. 18
Hartshorne	42.0	41.2	[k]55.2	63.2	68.1	70.6	80.4	.....	.....	61.6	49.9	.....	.....	.....	8	May 1	Oct. 18
Healdton	41.3	38.6	51.2	61.8	67.6	71.1	81.1	82.4	72.8	61.3	50.1	42.2	60.1	105	— 1	May 1	Oct. 24
*Holdenville	43.8	39.2	53.2	61.2	66.7	70.1	79.4	79.8	71.6	62.6	48.5	41.8	59.8	98	4	Apr. 15	Nov. 17
Hugo	.....	.....	.....	.....	.....	.....	77.9	.....	77.1	65.0	.....	.....	.....	.....	.....	.....	.....
*Marlow	39.2	35.8	49.8	61.5	66.0	70.4	81.6	81.6	72.4	62.6	47.1	39.4	59.0	106	5	May 1	Nov. 17
*Muskogee	39.0	37.0	52.1	59.1	66.1	70.2	79.3	79.2	69.9	60.6	45.8	37.4	58.0	98	4	May 1	Oct. 18
Okmulgee	.....	.....	.....	.....	.....	.....	.....	.....	71.3	61.0	[d]47.6	40.4	.....	.....	.....	.....	Oct. 18
Pauls Valley	[e]38.1	[f]33.0	.....	.....	65.3	70.6	79.8	80.6	.....	60.8	48.2	.....	.....	106	.....	May 2	Oct. 18
Ravia	43.3	39.8	53.2	64.0	69.0	72.3	79.6	81.6	73.3	61.4	50.9	43.6	61.0	101	3	May 1	Nov. 17
Roff	.....	.....	.....	.....	.....	70.6	79.5	80.7	71.4	60.2	48.6	40.4	.....	101	.....	.....	Oct. 24
South McAlester	.....	.....	.....	.....	.....	.....	81.0	81.8	74.5	64.6	52.2	44.8	.....	103	.....	.....	Nov. 17
Tahlequah	40.0	38.8	52.8	62.2	68.2	.....	.....	.....	.....	.....	.....	41.6	.....	.....	0	May 1	.....
Wagoner	.....	.....	49.8	.....	.....	69.8	80.1	78.8	71.2	62.6	46.6	38.0	.....	97	.....	.....	Oct. 18
Webbers Falls	.....	.....	.....	.....	67.9	70.0	80.3	79.0	70.0	59.9	46.7	39.2	.....	98	.....	.....	Oct. 18
Iowa.																	
Afton	26.0	21.6	40.0	52.2	63.6	66.1	74.8	71.0	61.0	53.2	36.3	23.4	49.1	97	—14	May 3	Oct. 18
*Albia	25.8	23.4	42.6	52.6	61.2	64.4	75.0	[h]70.8	62.0	52.8	36.2	21.3	49.0	96	—14	May 4	Sept. 24
Algona	20.8	17.0	36.6	50.0	61.4	65.4	72.2	68.1	60.2	52.0	33.8	18.2	46.3	92	—20	May 3	Oct. 18
Allerton	26.0	23.0	41.9	51.6	62.6	64.8	74.0	71.0	62.4	54.2	36.1	23.0	49.2	95	—16	May 3	Oct. 18
Alta	21.6	15.9	35.4	47.2	59.4	63.3	69.6	66.5	57.9	51.6	32.2	17.9	44.9	89	—20	May 3	Sept. 16
Amana	23.5	21.7	40.7	50.8	62.8	64.9	73.5	69.4	61.8	51.6	34.5	19.2	47.9	.....	—15	May 3	Oct. 18
Ames	24.0	19.6	38.4	49.8	62.3	64.8	73.4	69.4	60.5	51.6	35.2	20.2	47.4	93	—14	May 1	Oct. 7
Atlantic	25.3	20.3	38.8	50.8	62.0	64.4	74.2	70.1	61.5	52.6	36.4	23.0	48.3	97	—15	May 3	Sept. 16
Audubon	.....	17.4	37.6	.....	[k]64.2	64.6	.....	.....	60.2	51.8	34.5	20.7	.....	.....	.....	.....	Sept. 16
Baxter	23.2	20.8	39.4	51.4	62.2	64.4	73.1	69.2	60.6	51.8	34.2	21.0	47.6	94	—15	May 3	Oct. 9
Bedford	26.5	20.8	40.1	51.6	61.8	64.6	74.0	70.4	61.9	53.4	36.9	24.1	48.8	94	—17	May 3	Sept. 27
Belknap	26.7	.....	.....	.....	.....	.....	76.0	73.2	66.2	57.8	.....	.....	.....	96	.....	.....	.....
Belle Plaine	21.9	20.0	39.2	50.8	62.8	64.1	72.6	69.8	58.8	47.2	31.9	16.5	46.3	93	—15	May 3	Oct. 18
Bonaparte	24.9	23.1	43.2	52.6	63.6	65.8	75.4	71.5	63.7	53.3	35.6	22.1	49.6	98	.....	May 3	Oct. 18
Britt	18.7	16.6	36.0	46.6	61.6	64.9	71.0	67.2	58.7	50.1	31.4	15.3	44.8	93	—25	May 3	Sept. 24
Burlington	26.5	25.0	44.8	53.8	65.2	66.2	75.6	72.8	66.1	55.6	37.2	22.7	51.0	95	—18	May 1	Oct. 18
*Carroll	23.4	19.0	38.5	49.0	59.8	64.0	72.2	68.7	60.2	53.8	34.4	20.4	47.0	95	—18	May 3	Sept. 16
*Cedar Rapids	23.9	22.4	42.6	52.1	64.1	65.4	73.8	69.7	61.8	52.0	33.8	17.9	48.3	97	—15	Apr. 30	Oct. 18
Charlton	25.4	22.5	41.3	.....	61.4	64.0	72.9	69.9	62.0	53.4	36.0	22.3	.....	93	—14	May 3	Oct. 18
*Charles City	20.8	19.8	38.2	48.2	60.5	62.6	71.0	65.9	57.3	49.0	30.5	13.3	44.8	93	—20	May 3	Sept. 18
Chester	.....	.....	.....	.....	59.6	61.8	69.1	64.6	57.8	.....	.....	.....	.....	90	.....	May 3	.....
*Clarinda	27.2	22.4	40.7	52.4	63.0	66.3	75.6	71.6	61.4	54.8	37.5	23.1	49.7	98	—14	May 3	Oct. 9
Clearlake	17.8	16.0	36.2	47.8	62.6	67.4	73.1	68.6	59.9	50.2	30.4	14.4	45.4	98	—21	May 3	Oct. 18
Clinton	22.6	23.4	41.1	51.0	64.2	65.6	73.6	69.4	62.2	51.4	35.0	19.0	48.2	96	—20	May 1	Sept. 18
College Springs	27.2	22.0	40.5	53.0	62.8	67.0	76.4	72.2	62.1	54.0	37.6	25.6	50.0	96	—14	May 3	Oct. 18
Columbus Junction	24.5	22.5	41.6	51.8	64.2	65.7	74.2	70.4	63.2	53.3	36.1	21.6	49.1	96	—15	May 1	Oct. 18
Corning	23.7	20.9	38.8	51.6	61.5	64.2	73.6	69.4	60.7	53.2	35.9	23.4	48.2	93	—15	May 3	Oct. 9
Corydon	26.2	23.5	41.9	51.9	61.8	64.4	73.3	66.9	62.4	54.0	36.2	22.2	48.6	95	—15	May 3	Oct. 16
Council Bluffs	26.8	[e]23.1	36.3	52.5	58.2	66.4	.....	.....	.....	.....	.....	.....	.....	.....	—13	.....	Sept. 16
*Davenport	24.9	23.6	42.6	51.7	64.2	66.1	74.4	70.7	63.8	54.2	36.2	20.4	49.4	95	—15	Apr. 4	Oct. 18
Decorah	17.8	18.1	37.1	49.1	61.4	63.2	71.5	65.8	59.4	50.0	32.2	13.7	44.9	90	—22	May 3	Sept. 18
Delaware	19.4	19.2	38.8	48.0	60.6	63.2	70.8	66.7	59.0	49.8	31.5	15.8	45.2	90	— 21	May 4	Oct. 9
Denison	23.8	.....	38.5	[e]48.4	58.8	61.4	70.8	67.8	60.6	[e]51.0	35.1	21.7	.....	88	—13	May 3	Sept. 27
*Des Moines	25.4	22.0	40.6	51.2	62.8	65.8	74.3	70.2	61.9	53.8	36.2	22.6	48.9	94	—13	May 3	Oct. 18
Desoto	.....	.....	38.6	51.6	62.5	64.9	73.0	69.0	62.4	54.0	35.4	.....	.....	92	.....	May 1	Oct. 9
Dows	20.0	18.0	37.8	48.0	60.4	63.4	70.2	67.0	59.6	52.6	32.4	16.6	45.5	91	—20	May 3	Oct. 5
*Dubuque	22.4	22.4	39.6	49.6	62.8	64.6	72.4	68.4	61.8	52.4	34.4	18.4	47.4	91	—17	Mar. 15	Oct. 24
Earlham	24.6	18.1	39.6	49.4	60.0	62.6	71.4	68.0	59.8	51.2	33.6	21.2	46.6	91	—15	May 3	Sept. 16
Eldon	.....	24.4	44.1	51.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—20	.....	.....
Elkader	20.4	20.6	39.4	48.1	62.1	64.0	72.4	68.7	61.6	50.2	32.4	14.8	46.2	93	—19	May 3	Sept. 18
*Estherville	18.2	14.2	34.2	46.4	55.2	62.9	70.9	66.2	57.2	50.2	30.9	14.5	43.3	90	—22	May 3	Sept. 24
Fayette	19.3	18.1	36.5	.....	60.0	[h]61.8	70.6	65.4	.....	49.4	31.0	.....	.....	91	—17	May 3	Oct. 5
*Forest City	17.9	15.7	33.6	44.9	59.6	63.6	71.2	66.8	56.9	48.6	31.0	13.9	43.6	91	—26	May 3	Sept. 28
Fort Dodge	.....	16.8	.....	.....	60.0	61.8	70.0	67.2	[e]61.4	53.0	33.0	20.6	.....	89	—21	May 1	Sept. 24
Galva	21.0	16.9	35.9	47.6	60.2	[d]63.6	70.6	67.1	[b]58.6	50.8	31.6	19.1	45.2	94	—20	May 3	Sept. 16
Glenwood	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.8	37.2	26.2	.....	.....	.....	.....	.....
Grand Meadow	18.4	18.8	36.8	47.8	61.0	63.8	68.8	65.2	59.0	50.3	31.2	14.8	44.7	87	—21	May 3	Oct. 18
Greene	20.0	19.1	37.2	48.4	61.8	64.4	71.9	67.8	60.4	50.4	.....	.....	.....	92	—16	May 3	Oct. 5
Greenfield	24.8	20.6	38.6	50.8	60.7	64.1	73.0	69.0	61.4	53.3	35.8	21.6	47.8	92	—16	May 3	Oct. 16
Grinnell	22.9	20.8	40.0	50.4	61.7	.....	.....	.....	.....	52.2	33.9	19.8	.....	.....	—18	May 4	Oct. 18

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Iowa—Continued.																	
Grinnell (near)	22.6	20.4	.....	.....	.....	65.3	73.3	68.8	60.6	52.0	33.4	19.1	.....	94	−15	.....	.....
Grundy Center	21.4	19.8	38.5	49.8	61.0	63.6	71.4	68.7	60.4	51.6	33.3	17.6	46.4	92	−21	May 3	Oct. 9
Guthrie Center	24.9	20.0	38.8	51.1	62.4	65.6	72.8	68.2	60.6	55.8	.....	25.5	.....	95	−17	May 3	Sept. 9
Hampton	20.6	19.0	37.6	49.0	62.0	65.0	72.3	69.0	61.4	52.5	33.3	16.6	46.5	93	−17	May 3	Oct. 18
Hanlontown	17.8	16.4	36.0	46.0	60.4	61.0	69.6	66.3	58.4	49.8	31.2	14.5	44.0	89	−26	May 1	Sept. 24
Harlan	23.6	18.1	37.8	49.8	61.3	65.0	73.3	69.2	59.7	52.1	35.0	22.0	47.2	95	−18	May 3	Sept. 16
Hopeville	.....	.....	[b]42.3	51.7	62.2	64.3	74.1	71.1	61.6	54.3	35.2	22.6	.....	95	.....	May 3	Oct. 18
Humboldt	21.6	18.2	37.4	49.2	61.8	64.8	72.6	70.6	61.0	51.8	34.6	19.3	46.9	92	−17	May 3	Oct. 9
Idagrove	23.4	17.9	38.4	49.8	61.2	65.6	72.2	.....	.....	.....	.....	.....	.....	92	−20	May 4	.....
Independence	20.2	19.0	37.4	47.6	60.8	62.8	[d]70.5	[e]67.6	[e]59.4	50.6	32.1	16.6	45.4	90	−18	May 3	Sept. 18
Indianola	[c]25.8	22.5	41.3	52.2	63.1	[c]65.2	75.0	71.8	62.1	53.6	35.9	22.4	49.2	94	−13	May 3	Oct. 18
Iowa City	23.8	22.2	41.9	51.6	63.8	64.8	74.8	70.0	61.8	51.9	34.2	18.2	48.2	97	−18	May 3	Oct. 18
Iowa Falls	19.7	17.0	36.8	47.6	60.6	62.2	71.2	66.6	57.8	48.4	31.0	15.7	44.6	92	−17	May 3	Sept. 18
Keokuk	26.5	26.4	44.4	53.5	64.9	67.0	77.2	73.6	65.6	55.6	37.5	24.6	51.4	96	−13	May 1	Oct. 24
Keosauqua	25.4	23.0	43.8	53.2	64.2	65.1	75.6	73.0	63.1	52.1	34.5	22.0	49.6	98	−15	May 3	Oct. 8
Lansing	.....	.....	.....	50.3	62.8	64.9	72.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Larchwood	.....	.....	34.6	47.4	59.6	64.6	71.0	68.0	60.0	51.6	[a]31.1	.....	.....	94	.....	.....	.....
Larrabee	21.4	16.4	34.8	47.2	[b]59.6	65.4	72.1	68.2	58.8	51.2	32.4	18.4	45.5	94	−21	May 3	Sept. 16
Lemars	22.1	15.8	35.5	48.6	59.2	64.8	71.4	67.5	57.8	51.0	33.4	20.2	45.6	92	−19	May 3	Sept. 16
Lenox	25.3	20.4	39.4	52.2	61.9	64.5	73.8	70.6	61.8	53.2	35.9	22.8	48.5	92	−17	May 1	Sept. 18
Leon	26.6	23.2	41.8	53.1	63.3	66.2	75.5	71.6	62.4	53.9	37.1	24.0	49.9	96	−12	May 4	Sept. 18
Logan	24.2	20.2	38.2	51.4	62.0	65.4	.....	75.0	61.8	51.8	35.5	.....	.....	101	−17	May 2	Oct. 18
Maquoketa	21.6	22.2	41.0	49.7	61.2	62.7	72.2	68.6	60.5	50.2	32.8	15.6	46.5	95	−22	May 3	Sept. 18
Marshalltown	23.6	22.0	40.4	51.2	62.5	64.1	73.8	69.4	60.6	51.8	33.1	20.0	47.7	96	−14	May 3	Oct. 9
Mason City	.....	20.4	39.4	48.9	61.6	63.6	72.4	67.8	60.4	51.6	33.4	16.4	.....	93	−19	May 3	Oct. 24
Monticello	18.8	21.8	41.3	48.4	62.2	65.6	74.1	72.0	.....	50.4	.....	16.4	.....	95	−20	May 5	Oct. 8
Mountayr	25.6	22.8	40.1	51.6	61.7	64.6	74.8	72.2	62.9	55.0	37.1	23.8	49.4	94	−16	May 3	Oct. 18
Mount Pleasant	24.2	24.3	44.1	.....	.....	66.3	.....	73.2	62.6	52.4	35.8	21.8	.....	.....	−16	.....	.....
Mount Vernon	21.9	21.6	40.5	51.4	62.3	66.1	73.8	69.1	61.5	51.5	32.6	17.2	47.5	96	−20	May 3	Oct. 18
New Hampton	17.6	17.2	35.8	47.0	59.8	.....	68.5	[e]63.8	57.0	49.4	30.4	13.4	.....	91	−24	May 3	Sept. 18
Newton	22.6	20.6	39.4	50.0	61.4	63.6	72.9	69.0	61.1	52.0	34.6	20.3	47.3	93	−17	May 3	Oct. 18
Northwood	18.8	17.8	36.3	47.2	60.2	63.4	69.6	66.0	58.0	49.8	31.8	16.0	44.6	87	−21	May 3	Oct. 18
Odebolt	22.9	18.2	38.9	49.6	61.5	65.2	73.4	70.8	60.6	51.9	33.7	20.9	47.3	97	−16	May 3	Sept. 24
Ogden	23.7	20.0	38.2	50.0	60.0	59.4	71.5	68.0	60.2	51.8	33.3	.....	.....	95	−17	May 3	Sept. 27
Olin	22.2	21.5	39.8	50.0	62.0	63.8	72.3	68.7	62.0	51.4	33.8	18.3	47.2	93	−22	May 3	Sept. 18
Onawa	24.8	20.0	38.4	51.6	62.2	67.2	75.0	70.9	63.5	55.2	36.6	24.0	49.1	96	−15	May 3	Oct. 26
Osage	18.0	17.6	36.0	46.8	60.2	63.1	69.9	64.1	58.0	48.8	31.2	14.3	44.0	90	−21	May 3	Sept. 18
Osceola	25.0	21.6	[c]41.6	52.8	61.6	64.2	74.4	70.6	63.8	55.0	39.0	23.0	49.4	95	−15	May 3	Oct. 18
Oskaloosa	24.3	21.4	41.2	51.4	62.8	64.7	74.8	70.6	61.9	53.0	35.3	19.9	48.4	94	−15	May 3	Oct. 18
Ottumwa	27.0	25.0	43.4	.....	63.2	66.6	75.2	71.8	.....	56.4	37.7	24.5	.....	99	− 9	Apr. 30	Oct. 18
Pacific Junction	25.6	20.8	39.4	52.4	62.8	66.6	75.2	70.6	61.3	53.5	37.4	23.8	49.1	97	−15	May 3	Oct. 9
Pella	24.4	21.8	.....	.....	62.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	−14	.....	.....
Perry	[c]24.2	20.2	39.3	50.4	63.0	65.2	73.8	70.0	61.4	52.8	35.6	21.4	48.1	94	−14	May 3	Oct. 17
Plover	18.9	16.0	35.9	46.6	61.3	64.8	71.0	67.9	59.6	51.0	32.2	16.6	45.2	93	−21	May 3	Oct. 5
Primghar	.....	.....	34.4	47.4	59.0	63.9	70.0	66.8	58.5	50.6	33.5	[a]17.0	.....	89	−23	May 3	Oct. 16
Redoak	27.8	23.2	40.6	51.8	62.8	66.3	76.2	71.3	63.0	54.4	39.0	26.0	50.2	94	−10	Apr. 30	Oct. 26
Ridgeway	20.6	19.8	38.1	48.2	62.8	66.3	73.5	68.5	61.0	53.2	34.6	16.2	46.9	98	−24	May 3	Sept. 18
Rockwell City	23.6	19.2	37.7	49.3	61.4	65.8	72.2	69.2	60.6	53.0	33.6	21.3	47.2	95	−18	May 3	Oct. 17
Ruthven	.....	.....	37.0	47.8	61.0	.....	.....	.....	60.0	53.8	32.6	.....	.....	.....	.....	May 3	Oct. 16
Sac City	22.1	18.0	36.8	49.2	61.2	65.0	71.9	69.2	59.4	53.2	34.3	20.8	46.8	95	−17	May 3	Sept. 16
St. Charles	26.0	22.5	41.0	52.0	62.4	65.2	73.8	70.8	63.0	55.6	36.9	23.6	49.4	95	−13	May 3	Oct. 18
Scranton	24.3	18.2	38.7	49.6	61.4	63.5	73.6	70.8	.....	.....	.....	.....	.....	96	−15	.....	.....
Sheldon	19.9	15.2	34.2	.....	58.6	63.4	[b]70.4	65.2	59.1	[a]51.0	.....	.....	.....	90	−20	May 1	Sept. 16
Sibley	18.8	15.9	30.8	45.6	58.6	63.4	69.4	65.0	56.2	[c]48.8	.....	.....	.....	89	−27	May 3	Sept. 16
Sigourney	24.4	23.3	42.6	52.2	64.1	66.2	76.0	71.8	63.0	52.8	.....	.....	.....	100	−14	May 3	Oct. 18
Sioux Center	20.5	15.0	33.2	46.6	57.8	64.0	70.4	67.5	59.0	50.7	31.8	17.8	44.5	90	−21	May 3	Sept. 16
Sioux City	22.8	16.2	36.0	49.3	60.8	65.9	72.5	69.2	60.8	53.8	34.7	21.4	47.0	93	−18	Apr. 15	Sept. 16
Spirit Lake	19.2	14.6	.....	.....	[b]60.7	64.2	.....	.....	.....	.....	.....	16.2	.....	.....	−23	.....	.....
Storm Lake	21.2	16.5	36.0	48.2	59.4	63.8	70.2	67.0	57.6	50.0	31.8	19.2	45.1	.....	−20	Apr. 30	Sept. 16
Stuart	.....	.....	[b]40.6	50.3	62.5	64.4	75.4	70.5	60.8	49.2	34.0	23.0	.....	96	.....	May 3	Oct. 9
Thurman	26.4	20.0	39.6	51.6	62.7	66.2	76.0	70.5	62.2	54.1	37.3	24.4	49.2	100	−15	.....	Sept. 27
Tipton	24.2	23.3	41.6	52.5	64.6	67.8	75.8	71.8	64.1	53.8	35.4	19.6	49.5	97	−16	May 1	Oct. 18
Toledo	22.6	20.9	40.0	50.4	61.1	64.0	72.4	69.2	61.0	52.5	33.8	18.6	47.2	92	−14	May 3	Sept. 18
Villisca	26.4	21.0	40.2	51.4	59.5	67.0	.....	69.6	.....	50.6	34.5	24.2	.....	.....	−15	May 3	Oct. 9
Vinton	22.8	21.4	39.4	49.1	62.4	64.8	72.5	68.2	60.7	51.0	33.4	.....	.....	.....	.....	.....	.....
Wapello	[c]25.6	23.6	42.6	53.2	64.0	64.8	74.8	71.4	62.9	53.0	37.0	22.4	49.6	96	−12	Apr. 4	Oct. 21
Washington	22.3	20.7	40.6	50.3	62.0	63.8	72.9	67.8	61.0	51.7	34.2	18.4	47.1	98	−19	May 3	Oct. 18
Waterloo	21.5	20.2	38.2	49.2	61.4	63.2	72.7	68.0	60.2	51.6	34.0	18.7	46.6	98	−16	May 1	Oct. 18
Waverly	20.6	18.9	37.3	48.4	61.0	63.6	71.3	67.6	60.7	50.8	32.8	15.4	45.7	91	−17	May 3	Oct. 18
Westbend	20.4	16.4	36.6	48.0	61.0	65.7	72.2	67.0	59.1	50.8	33.9	18.1	45.8	92	−22	May 3	Sept. 27
Whitten	21.4	19.3	38.2	49.2	[c]62.0	65.0	72.8	68.8	59.4	51.0	32.2	17.8	46.4	93	−20	May 3	Oct. 9
Wilton Junction	23.9	22.3	42.6	52.8	63.8	66.0	74.1	70.4	63.6	[a]53.0	34.6	19.7	48.9	97	−19	May 3	.....
Winterset	26.0	21.6	42.9	.....	64.0	65.4	74.4	71.2	.....	.....	35.4	.....	.....	96	−14	.....	.....
Kansas.																	
Achilles	31.4	21.8	37.2	50.1	56.7	62.6	73.0	72.4	62.2	53.1	39.3	31.4	49.3	101	−14	Apr. 29	Sept. 16
Alton	31.2	25.6	41.2	54.8	62.0	67.3	77.8	[a]74.2	65.9	56.6	41.2	33.3	52.6	101	−12	Apr. 30	Sept. 17
Atchison	31.0	26.9	44.4	55.6	64.7	67.5	76.8	72.6	65.1	56.7	41.0	29.6	52.7	95	−11	May 3	Nov. 6
Baker	26.1	22.7	39.4	53.4	62.8	66.1	76.6	72.6	63.3	55.7	38.2	27.4	50.4	96	−22	May 3	Oct. 18
Beloit	30.0	24.5	41.6	52.4	60.6	67.7	77.8	74.4	65.9	56.4	39.4	32.7	51.6	102	−10	Apr. 30	Oct. 23
Burlington	33.0	30.2	46.0	56.2	64.1	67.8	78.0	75.6	67.3	57.8	42.9	34.0	54.4	96	−18	Apr. 30	Oct. 18
Chanute	33.6	32.3	49.0	57.8	63.5	69.4	.....	.....	.....	.....	[b]43.0	[a]36.6	.....	.....	.....	May 1	.....
Clay Center	.....	.....	42.5	55.4	62.8	67.6	78.0	74.9	65.4	56.0	41.4	32.7	.....	100	.....	Apr. 30	Oct. 16
Colby	30.8	22.2	36.6	50.4	57.2	64.2	75.0	73.0	64.1	53.8	40.0	33.6	50.1	101	−11	Apr. 30	Sept. 16
Columbus	33.9	31.3	47.9	56.4	64.2	68.8	78.4	75.6	68.2	58.3	42.9	34.4	55.0	96	− 5	May 1	Oct. 18
Cottonwood Falls	32.2	29.6	45.2	55.3	63.4	67.0	78.2	75.0	.....	.....	[c]43.2	37.0	.....	.....	.....	Apr. 30	.....
Cunningham	.....	.....	.....	.....	.....	.....	.....	76.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
Concordia	30.7	24.2	41.0	54.2	61.7	67.4	77.1	74.2	65.6	56.8	40.4	33.0	52.2	98	−12	Apr. 15	Oct. 23
Delphos	29.8	25.2	42.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Extremes. Max.	Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Kansas—Continued.																	
*Dodge	33.4	26.2	39.9	53.6	60.4	65.8	79.2	76.8	67.2	57.4	42.5	36.0	53.2	105	—18	Apr. 30	Oct. 16
*Dresden	32.7	23.1	37.5	51.8	58.0	64.2	75.4	73.4	63.4	56.3	40.9	34.8	51.0	100	—11	Apr. 30	Sept. 16
Eldorado											43.2	[f]39.8					
Ellinwood	33.3	28.4	42.9	55.7	62.6	67.4	79.6	76.4	67.8	58.6	42.2	35.8	54.2	106	—15	May 8	Nov. 11
Emporia		28.8	45.8	53.7	62.4	67.2	76.8	73.6	64.7	55.7	39.8	33.6				Apr. 30	Oct. 24
Englewood	34.0	29.8	44.7	57.3	63.2	69.2	83.1	80.8	72.8	59.2	44.6	37.8	56.4	110	—17	Apr. 30	Oct. 24
Enterprise										[i]59.7	42.8	34.9					Oct. 16
Eureka Ranch	32.0	24.4	39.8	52.2	59.6	65.0	76.7	75.7	66.0	56.2	40.4	33.4	51.8	102	—17	May 1	Oct. 18
Fallriver	33.9	30.6	46.5	[e]57.2	63.8	68.5	77.7	75.8	[e]67.8	57.8	42.8	34.2	54.7	97	—14	May 1	Oct. 18
Farnsworth	33.9	22.8	39.2	52.5	59.7	64.2	76.2	74.4	65.7	56.2	40.8	34.4	51.7	100	—16	Apr. 30	Sept. 16
Forsha	33.0	30.0	44.6	56.0	61.5	68.6	80.8	77.8	69.2	59.6							
Fort Leavenworth	29.4	27.0	42.6	55.9	64.5	69.1	79.3	75.2	67.0	58.0	41.8	31.6	53.4	97	—10	May 1	Oct. 18
*Fort Scott	34.0	32.8	48.2	56.9	64.0	68.0	79.4	76.0	67.6	58.5	43.2	33.8	55.2	100	—11	May 1	Oct. 18
Frankfort	29.0	25.0	42.1	54.8	63.2	67.4	76.6	74.2	65.0	55.2	39.7	28.6	51.7	100	—20	Apr. 30	Oct. 16
Fredonia			47.2	57.9				76.2	68.8	[e]58.8	41.8	[e]35.2					Sept. 27
Garden City	34.9	24.8	40.1	53.4	60.8	66.5	79.5	79.8	69.8	56.8	43.6	34.8	53.7	106	—17	Apr. 30	Sept. 17
Gove (*a*)	32.4	22.6	36.9	50.2	57.0	66.9	75.3	72.2	63.2	56.1	39.8	33.2	50.5	100	— 6	Apr. 30	Sept. 16
Grenola	33.6	29.4		55.6	62.2	67.1	77.5	74.6	66.4	57.0	42.6	34.0				May 1	Oct. 18
Hanover	28.3	23.8	41.4	55.9	62.6	68.8	78.5	74.1	64.8	56.4		32.2		101	—15	May 3	Oct. 16
Harrison	28.4	22.9	39.3	53.4	60.4	65.5	75.6	72.2	64.1	55.8	39.0	30.6	50.6	101	—16	Apr. 30	Sept. 16
*Hays	31.2	24.0	38.7	53.0	59.6	65.1	76.7	74.3	64.2	56.2	39.6	33.4	51.3	101	—15	May 1	Sept. 17
Holton	31.0	27.6	44.2	[e]55.9						55.3	39.8	29.2				May 1	Oct. 23
Horton	29.2	25.4		54.5	63.2	67.4	78.4	73.0	64.8	56.0	39.7	29.0				May 1	Oct. 18
Hoxie	32.4	23.3	36.9	51.6	59.0	65.2	76.4	75.0	64.4	55.4	40.4	33.6	51.1	102	—11	Apr. 30	Sept. 16
Hutchinson	32.4	27.2	43.0	55.3	61.7	66.0	78.8	75.2	66.0	56.8	41.4	34.0	53.2	108	—15	May 3	Oct. 23
Independence	35.0	31.5	48.2	58.0	65.8	71.2	81.1	78.4	70.4	59.7	43.7	36.2	56.6	104	— 2	May 1	Oct. 18
Jetmore	33.8				61.2	64.8	[g]81.4		[i]68.4						—21	Apr. 30	Oct. 28
La Crosse	33.0	26.6	41.3	53.6	60.2	64.7	78.1	75.4	66.6	56.8	40.8	34.3	52.6	102	—16	Apr. 30	Sept. 17
Lakin	32.8	22.7	39.0	53.2	60.9	65.2	76.8	75.4	66.0	56.0	42.0	34.5	52.1	101	—12	Apr. 30	Sept. 17
Lawrence	31.4	28.4	44.6	55.8	63.3	68.5	77.4	73.0	65.5	56.6	41.4	31.9	53.1	94	—11	May 3	Nov. 14
Lebanon	29.0	24.4	39.6	53.2	60.5	65.6	76.0	72.3			[f]41.4	[e]31.6				May 3	
Lebo	31.8	28.6	46.0	55.4	64.0	68.4	80.4	75.2	66.6	57.3	40.9	32.4	53.9	97	—14	Apr. 30	Oct. 18
Leoti	33.8	22.6			58.8	63.3	76.8	75.1	66.0							May 2	Sept. 17
Little River	31.6	27.6															
*Macksville	31.2	25.8	39.9	53.6	60.2	64.2	78.6	75.4	65.9	56.1	42.6	36.4	52.5	108	—17	May 3	Sept. 27
*McPherson	30.4	27.2	44.7	55.2	62.3	67.7	80.0	76.6	67.4	58.4	41.6	33.8	53.8	109	—14	Apr. 23	Sept. 27
Madison	32.0	29.1	45.6	54.8	62.9	67.0	77.2	74.1	65.8	57.3	41.6	32.4	53.3	97	—22	May 3	Oct. 18
Manhattan[1]	31.8	28.6	45.0	57.1	64.9	69.6	80.0	76.7	68.0	57.3	42.4	31.7	54.4	102	—16	Apr. 30	Oct. 22
*Manhattan[2]	31.6	27.9	44.6	55.9	65.2	67.8	78.9	76.2	65.5	56.4	41.0	32.4	53.6			May 3	Oct. 18
Marion	32.7	28.2	45.0	56.3	[e]64.4	[f]68.7	81.2	76.4	67.8	57.6	42.9	33.6	54.7	104	—22	May 3	Oct. 16
Meade	33.6	26.8	[e]43.2	[f]57.5	[h]60.4	[d]68.4	[f]83.1										
Medicine Lodge	35.6	31.4	45.8	57.8	64.2	68.0	81.2	79.6	70.9		43.9	38.4		109	— 8	May 3	
Minneapolis	32.3	26.6	42.7	54.8	61.7	67.5	77.6	75.2	66.2	56.8	40.6	[e]32.8	52.9	101	—12	May 3	Oct. 26
Moran	32.9	30.1	46.8	56.5	64.1	68.3	77.1	75.1	68.9	58.8	42.8	33.8	54.6	94	—12	May 3	Oct. 18
Mounthope	34.9	29.8	45.0	56.0	62.4	69.7	[g]81.2	77.0	68.4	59.8	44.4	37.5	55.5	105	— 8	May 1	Nov. 10
Ness City	35.4	29.2	42.5	56.0	62.6	68.6	82.0	77.9	67.8	58.2	[k]42.8	[d]34.2	54.8	107	—12	Apr. 30	Oct. 16
Newton	32.2	[f]29.8	46.5	54.2	61.2		[e]80.6	76.6	68.4	58.8	42.8	35.6				May 1	Oct. 23
Norton								[i]73.0	62.8	55.6	40.0	31.6					Sept. 16
Norwich	34.6	30.6	45.2	57.6	62.9	68.1	80.6	77.6	69.3	59.6	43.0	36.8	55.5	107	— 8	May 1	Oct. 23
Olathe	31.8	29.6	45.6	55.5	63.4	66.8	77.0	73.8	65.4	57.9	42.4	32.7	53.5	94	—16	May 1	Oct. 18
*Osage City				54.2	62.8	66.4	77.6										
Oswego	35.4	32.3	48.8	57.6	64.8	68.8	78.6	76.3	69.5	59.4	43.8	36.0	55.9	97	— 4	May 1	Oct. 18
Ottawa	31.6	29.0	45.0	55.6	63.6	66.5	77.3	73.6	65.8	56.1	41.0	32.0	53.1	96	—22	May 1	Oct. 18
Paola	32.1	29.4	46.6					75.5	[e]68.3	[e]58.1	41.4	[d]32.6				May 4	Oct. 18
Pittsburg	34.2	30.9	48.2	59.3	65.0	71.1	81.6										
Pleasanton		[f]29.3	47.2	57.0	65.0	68.4	78.2	75.0	67.4	58.6	42.9	33.4				May 1	Oct. 18
Pratt	33.1	29.4	43.4	55.9	62.0	67.2	82.5	79.4	70.9	59.4	44.6			110	—17	Apr. 30	Sept. 27
Republic	28.6	24.2	40.0	54.2	61.5	66.3	75.8	72.6	63.7	55.9	39.2	30.6	51.0	98	—16	May 3	Oct. 16
Rome	34.8	30.9	46.4	57.1	63.6	68.4	80.2	78.0	70.8	59.6	44.4	37.1	55.9	108	— 4	May 1	Oct. 23
Russell	32.2	25.8	40.5	53.0													
Salina	31.7	27.0	43.8	55.4	63.0	67.8	78.7	76.4	67.6	58.2	41.8	33.6	53.8	103	—17	May 3	Oct. 18
*Sedan	34.8	31.0	47.6	57.2	64.2	69.0	80.0	77.2	69.4	59.2	43.8	36.2	56.8	101	— 7	May 1	Oct. 18
Seneca	30.0	25.0	42.8													May 3	Oct. 18
*Topeka	31.2	27.8	44.0	55.1	63.5	68.2	77.6	74.2	66.0	57.0	40.8	31.9	53.1	98	—10	May 1	Oct. 18
*Toronto	30.6	28.0	44.2	55.8	63.4	67.6	78.0	75.2	67.0	57.8	42.4	34.1	53.7	98	—17	May 1	Oct. 18
Ulysses	[e]32.2	[f]28.9	[e]42.6	[e]55.0	61.0	[e]66.4	[e]79.8	[d]79.2	[f]68.4	[d]58.7	[e]42.2	[d]34.2	53.7	106	—17	Apr. 29	Sept. 16
Valley Falls	30.3	27.3	44.0	54.1	63.0	66.2	76.2	71.9	64.5	55.8	40.6	30.4	52.0	95	—19	Apr. 30	Oct. 18
Viroqua	35.6	25.6	39.2	52.5	60.4	64.6	77.4	76.0	66.5	55.8	42.8	35.5	52.7	105	—13	Apr. 30	Oct. 16
Wallace	34.0	22.9	36.7		58.6	63.6	75.6	74.6	64.6	54.4	41.4	34.0		104	—15	May 3	Sept. 17
Walnut	33.8	31.8	47.6	58.6	64.2	69.4	[e]80.3	[f]75.2	69.5	58.1	43.4	34.9	55.6	96	— 6	May 1	Oct. 19
Wamego (*a*)	30.6	26.6	42.6	54.0	62.9	67.6	77.8	73.5	65.3	55.2	40.3	31.1	52.3	98	—14	May 3	Oct. 23
*Wichita	34.8	29.6	45.5	56.8	62.9	68.9	80.2	77.1	68.8	59.2	42.8	36.9	55.3	105	— 6	Mar. 29	Nov. 10
Winfield	34.2	30.7	46.0	57.6	63.2	68.2	80.0	76.4	69.0	58.0	43.1	36.1	55.2	110	—22	May 1	Sept. 27
Yates Center			46.2	57.0	63.3	67.0	76.5	74.0	67.2								
Kentucky.																	
Alpha	38.5	40.9	55.2	56.6	68.8	66.7	76.4	74.8	70.2	57.9	44.2	34.2	57.0	95	— 6	Apr. 5	Oct. 19
Anchorage	[e]32.8	34.2	49.8	53.8	67.7	67.8	77.0	74.4	68.3	56.4	40.4	28.2	54.2	98	—12	Apr. 5	Oct. 18
Bardstown	34.8	37.4	52.3	55.6	69.4	69.8	78.9	76.7	70.6	59.0	43.0	31.0	56.5	99	— 9	Apr. 5	Oct. 24
Beattyville											[e]38.1	29.0					
*Beaver Dam				54.8	67.8	68.3	77.5	75.8	68.3	57.2	43.0	30.2		98		Apr. 5	Oct. 18
Berea	34.8	37.7	52.2	54.4		[e]68.2	76.4	74.2	68.6	[d]58.0	42.4	32.4		96	—12	Apr. 5	Oct. 18
Blandville	35.6	36.1	51.4	56.4	66.0	69.0	79.1	77.2	69.9	59.0	43.0	32.2	56.4	98	— 4	May 1	Oct. 18
*Bowling Green	36.0	39.4	53.8	55.8	68.8	68.9	78.9	76.6	69.4	57.0	44.6	29.7	56.6	99	— 3	Apr. 5	Oct. 19
Burnside	34.8	37.4	53.2	58.5	67.1	68.5	76.9	76.1	69.2	57.2	43.2	32.8	55.8	97	— 5	Apr. 5	Oct. 24
Cadiz	36.2	[f]37.3	[d]55.2	57.8	68.8	69.8	80.3	[e]78.6	70.4	57.8	43.8	33.1	57.4	101	— 2	Apr. 4	Oct. 19

[1] Agricultural college.

[2] Corn and wheat region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Kentucky—Continued.																	
Calhoun						69.1	77.8	75.3	67.8	57.7	[4]41.8	31.3	.....	97			Oct. 18
Carrollton	31.2	34.2	51.0	57.0											— 4	Apr. 5	
Catlettsburg	34.4	37.2	53.4	55.2	67.6	68.4	75.6	74.7	68.3	59.1	42.2	30.0	55.5	98	—10	Apr. 27	Oct. 25
*Earlington	34.9	38.4	51.6	56.6	67.5	69.6	78.3	76.8	69.2	58.0	44.7	30.6	56.4	98	— 5	Apr. 23	Oct. 18
Edmonton	36.0	39.4	53.2	55.0	67.8	67.6	76.0	74.3	68.8	57.9	42.7	29.8	55.7	95	—10	Apr. 24	Sept. 18
*Eubank	34.3	38.4	53.6	54.8	65.7	66.2	74.2	71.5	66.0	56.1	40.6	29.3	54.2	92	—15	Apr. 24	Oct. 18
Fords Ferry	35.2	38.6	50.2	56.2	67.6	68.0	77.9	76.0	69.0	58.2				97	—10	May 1	Oct. 18
Frankfort	33.4	36.6	51.8	55.1	66.6	[6]68.3	76.8	74.3	68.4	57.0	41.9	30.0	55.0	96	— 8	Apr. 5	Oct. 24
Franklin	37.7	37.8	54.1	56.3	69.2	69.4	78.2	76.2	70.4	59.1	44.9	33.4	57.2	94	— 2	Apr. 7	Oct. 24
*Greensburg	33.4	36.0	51.8	54.2	67.4	68.1	76.2	74.4	68.2	54.4	39.4	28.4	54.3	98	— 8	Apr. 5	Sept. 19
Henderson	33.2	34.5	50.8												— 3		
High Bridge	34.2	37.8	52.4	55.0	67.9	69.2	77.9			58.8	42.7			100	— 3	Apr. 5	Oct. 24
*Hopkinsville	36.9	39.4	52.7	55.6	67.8	68.6	78.6	77.3	69.4	58.8	44.2	32.7	56.8	97	— 5	Apr. 5	Oct. 19
Irvington	34.9	37.6	51.0	56.0	69.7	70.8	77.8	75.5	69.7	57.8	42.8	31.0	56.2	96	— 6	Apr. 5	Oct. 24
Jackson	38.4	41.6	55.6	56.6	67.6	67.8	76.1	74.6	68.9	58.8	45.0	33.6	57.0	94	— 6	Apr. 5	Oct. 25
Leitchfield	33.6	36.8	51.0	54.7	68.0	67.6	76.2	74.3	68.0	57.0	42.8	30.4	54.9	94	—10	Apr. 5	Oct. 19
*Lexington	32.1	35.6	50.4	53.4	67.7	67.7	76.6	74.4	69.8	56.9	40.0	28.5	54.4	94	— 3	Apr. 5	Oct. 24
Loretto	34.9	37.6	52.2	55.0	67.1	67.7	76.6	73.6	67.9	56.8	41.8	29.8	55.1	96	— 9	May 2	Sept. 19
*Louisville	33.6	36.8	51.7	56.0	70.2	70.0	79.2	76.4	70.7	58.8	42.0	30.8	56.4	98	— 1	Apr. 5	Oct. 24
Manchester	36.0	40.0	54.4	56.9	67.6	68.8	76.2	75.7						96	—16	Apr. 28	
Marrowbone	[6]35.2	[6]39.6	54.0	55.8	[6]68.7	69.3	[4]77.4	[6]75.2						95	— 8	May 5	
Mayfield	37.0			57.7	68.1	68.4	78.3	78.3	69.9	59.4	44.8	34.3	.....	96		Apr. 4	Oct. 18
*Maysville	33.2	35.8	52.4	54.0	67.8	68.8	77.0	75.0	69.0	57.4	41.0	28.5	55.0	100	— 9	May 2	Oct. 24
Middlesboro	34.6	40.1	54.2	54.9	66.0	67.9	72.4	74.7	67.6	56.1	40.5	[3]27.5	54.7	92	1	Apr. 23	Oct. 20
*Mount Sterling	33.0	37.0	51.9	53.3	68.4	68.3	76.3	75.2	67.7	54.6	39.8	27.0	54.4	97	— 7	May 4	Oct. 24
*Owensboro	35.4	38.2	52.6	56.0	68.8	68.8	78.3	75.8	69.0	58.6	43.5	31.2	56.4	95	— 3	Apr. 5	Oct. 18
Owenton	31.4	33.1	50.2	53.8	65.9	69.0	79.8	74.0	68.4	57.4	40.3	27.9	54.3	104	— 3	Apr. 5	Oct. 24
*Paducah	38.2	38.8	54.2	58.6	71.0	71.9	82.4	80.3	72.6	61.2	45.8	34.0	59.1	101	— 2	Apr. 4	Oct. 25
Pikeville	37.1	39.6	56.2	54.2											— 8	Apr. 5	
Princeton	35.3	37.4	53.3	56.6	68.2					[7]57.3	45.3	34.0	.....	.....	— 8	May 4	Oct. 25
*Richmond	[6]32.0	38.1	52.3	54.8	70.6	70.3	79.7			60.3				100	— 6	Apr. 5	Oct. 25
*Saint John	33.6	36.8	51.4	55.2	67.2	68.3	75.8	73.6	67.8	57.4	43.0	30.4	55.0	94	—10	Apr. 5	Oct. 18
Scott	30.4	33.6	49.9	53.2	66.4	66.8	76.8	74.2	69.2	57.6	40.0	26.8	53.7	98	— 7	May 4	Oct. 24
Shelby City	34.0	37.4	52.2	54.5	66.2	67.8	76.2	73.4	68.1	56.4	41.0	29.6	54.7	97	—13	May 2	Sept. 19
*Shelbyville	32.6	36.2	51.8	54.4	69.1	69.8	78.2	75.5	69.3	56.6	40.0	28.4	55.2	100	— 9	Apr. 5	Oct. 24
Taylorsville	32.8	36.4	51.4	54.0	67.2	68.6	76.5	73.6	67.4	55.6	41.0	28.8	54.4	98	—10	Apr. 5	Oct. 18
*Williamsburg	38.0	42.1	.....	55.1	67.1	68.7	76.2	75.2	67.8	57.4	41.8	31.8	.....	93	— 6	Apr. 5	Oct. 19
*Williamstown	31.8	35.1	50.9	53.4	66.2	66.0	75.4	73.9	69.0	58.1	41.8	28.0	54.1	98	— 9	May 1	Oct. 24
Louisiana.																	
*Abbeville	50.8	54.9	64.0	67.0	73.2	77.0	81.6	82.2	75.8	67.0	57.9	48.6	66.7	98	21	Feb. 23	Oct. 25
Alexandria	46.9	50.1	62.1	66.4	72.2	75.0	80.7	82.8	76.4	65.6	58.6	45.9	64.8	99	19	Feb. 23	Oct. 25
*Amite	46.8	50.6	.....	64.3	72.4	76.5	80.8	82.1	74.8	66.2	56.0	46.3	.....	98	.....	Feb. 24	Oct. 20
*Baton Rouge	48.4	53.4	62.8	66.2	72.2	75.6	80.6	80.8	75.2	68.0	57.9	48.4	65.8	95	22	Feb. 18	Nov. 19
Burnside	[4]50.8	55.9	64.2	66.0	72.2	76.2	80.6	81.1	74.8	66.4	57.6	50.0	66.3	.....	.....	Feb. 18	Nov. 19
Calhoun	42.9	48.4	61.0	63.4	70.1	72.7	79.5	79.0	73.4								
Cameron	50.9	53.2	63.0	68.3	73.6	75.2	80.7	82.0	77.6	69.3	58.7	51.3	67.0	92	23	Feb. 18	Nov. 19
Caspiana										65.4	54.3	48.0	.....	.....	.....	.....	Oct. 25
*Cheneyville	48.1	50.4	61.8	65.7	72.1	74.8	80.8	82.0	73.8	63.8	52.7	.....	.....	98	.....	Feb. 18	Oct. 25
Clinton	.....	54.8	61.9	63.3	71.4	74.4	79.2	80.4	73.4	64.5	55.9	44.9	.....	93	.....	Feb. 23	Nov. 19
Collinston	46.3	47.9	60.0	63.4	70.9	74.2	81.0	81.2	73.0	63.2	50.0	43.3	62.9	100	.....	Feb. 23	Oct. 19
*Covington	48.3	54.4	63.6	66.0	73.4	77.4	82.2	82.8	75.8	66.8	57.1	46.6	66.2	100	21	Feb. 25	Nov. 21
*Donaldsonville	49.7	55.7	65.2	67.8	72.3	76.3	81.4	81.5	76.6	68.5	60.2	51.0	67.3	98	23	Feb. 18	Nov. 27
Emilie	50.2	54.6	62.2	65.6	72.5	76.3	80.0	80.2	73.9	65.8	57.0	48.9	65.6	94	24	Feb. 18	Nov. 21
Farmerville	41.4	44.2	56.0	61.0	69.5	.....	79.1	80.7	71.2	61.7						Mar. 1	Dec. 3
*Franklin	50.4	55.4	64.8	67.5	74.0	77.6	82.4	82.7	76.6	67.9	59.2	51.2	67.5	99	25	Feb. 18	Nov. 8
Grand Coteau	50.8	54.2	63.6	67.0	72.9	76.1	81.8	82.6	75.3	66.9	57.3	49.7	66.4	87	22	Feb. 18	Nov. 10
Hammond	.....	54.5	63.5	65.2	72.0	76.6	80.3	80.8	74.0	66.1	56.6	47.3	.....	96	.....	Feb. 25	Oct. 25
Houma	50.2	56.7	64.4	66.8	72.8	76.9	80.8	81.4	74.0	66.5	57.8	47.9	66.4	96	21	Feb. 18	Oct. 25
*Jennings	.....	50.1	60.1	.....	[6]69.6	.....	[6]79.5	81.6	75.8	.....	55.0	49.2	.....	96	.....	Feb. 22	Nov. 18
*Lafayette	49.4	54.6	62.5	66.3	73.0	76.1	80.6	81.0	75.2	65.4	57.0	48.6	65.8	97	22	Feb. 18	Nov. 22
*Lake Charles	50.1	53.2	62.8	68.4	[6]71.6	75.8	81.0	82.0	76.6	67.4		51.6		97		Feb. 18	Oct. 25
Lake Providence	48.0	49.6	59.4	64.2	70.2	73.4	80.2	79.8	73.0	64.9	54.6	47.0	63.7	95	13	Mar. 1	Oct. 25
Lakeside	49.8	.....	63.0	67.4	72.4	76.6	82.0	82.2	77.0	67.4	57.8	50.2	.....	96	.....		Nov. 19
Lawrence	50.3	55.4	[6]62.8	67.5	73.0	77.4	80.6	83.4	78.4	70.0	60.4	[6]50.3	67.5	.....	.....	Feb. 19	Nov. 18
Leesville				64.6	70.4	73.3	79.4	80.8	73.8	63.9	54.8	48.0	.....	98	.....	Mar. 25	Oct. 25
Libertyhill	48.2	49.4	60.3	65.2	70.3	74.2	81.6	82.6	75.7	65.3	54.2	47.8	64.6	103	14	Mar. 25	Oct. 19
*Mansfield	46.4	48.8	57.1	.....	68.6	71.8	78.4	80.8	73.0	62.8				97	.....	Mar. 31	
*Melville	47.8	52.2	62.8	65.2	72.2	77.2	80.8	82.0	76.6	66.5	57.0	48.0	65.7	95	20	Feb. 23	Oct. 25
*Minden	.....	47.8	60.0	66.3	71.2	75.4	81.6	82.6	75.2	61.9	51.5	[6]42.6	.....	101	.....	Apr. 4	Oct. 25
*Monroe	46.5	48.4	60.3	.....	72.0	74.8	82.4	83.4	75.0	66.2	53.1	47.2	.....	.....	.....	Feb. 24	Nov. 18
New Iberia	52.6	.....	.....	68.2	[6]73.6	76.3	81.0	81.0	75.6	[6]67.2	59.1	51.4	.....	92	.....	.....	Nov. 18
*New Orleans	52.0	56.4	64.0	67.8	73.3	77.4	81.8	83.0	77.8	70.0	59.4	52.2	67.9	95	27	Feb. 17	Nov. 19
*Opelousas	48.4	52.1	62.6	65.2	72.3	75.2	80.8	81.6	74.8	65.1	55.8	47.8	65.1	97	18	Feb. 23	Nov. 18
Oxford	45.6	47.2	57.8	61.7	68.3	73.6	.....	.....	73.8	64.0	55.1	47.8	.....	100	.....	Mar. 25	Nov. 10
Paincourtville				65.4	71.8	76.0											
Plain Dealing	45.3	47.4	57.9	63.0	68.8	72.8	79.5	80.5	73.4	63.1	50.8	44.8	62.3	98	.....	Apr. 4	Oct. 24
*Port Eads	52.4	57.6	61.6	67.7	73.4	77.6	82.3	83.5	79.5	72.4	64.0	55.7	69.0	.....	31	Feb. 17	
*Rayne					73.2	78.0	82.4	83.2	76.4	67.3	55.2	47.8	.....	101	.....	.....	Nov. 19
Reserve	49.8	53.6	62.6	[6]65.3	72.6	78.2	.....	80.8	76.0	67.9	56.3	.....	.....	.....	.....	Feb. 17	Oct. 25
*Robeline	47.1	48.6	.....	63.6	68.9	72.2	79.4	80.4	72.1	62.0	.....	.....	.....	98	.....	Apr. 4	Oct. 19
Ruston	45.5	48.0	58.6	64.4	69.4	73.4	81.5	81.2	.....	65.2	52.4	46.2	.....	.....	.....	Mar. 25	Oct. 19
St. Francisville	.....	[5]51.9	61.4	.....	[6]72.6	75.4	79.2	.....	72.4	64.6	.....	[7]47.4	.....	.....	.....	.....	.....
*Schriever	50.4	56.0	64.1	64.6	71.8	75.4	81.6	80.8	73.6	65.2	[6]59.1	49.1	66.0	98	.....	Feb. 19	Oct. 25
*Shreveport	46.8	48.5	59.5	65.0	69.8	74.3	81.2	82.0	74.8	64.8	53.8	47.3	64.0	97	15	Mar. 1	Nov. 18
Sugar Experiment Station	50.5	55.5	64.7	68.1	73.9	78.0	81.4	82.8	76.8	69.2	59.0	50.0	67.6	95	28	Feb. 18	Nov. 19
Sugartown	49.4	52.2	61.3	66.6	69.3	.....	80.6	82.2	75.4	65.8	[4]56.4	49.6	.....	.....	.....	Feb. 18	Nov. 22
Venice	51.5	56.4	61.3	[4]67.0	71.4	75.8	79.5	81.2	76.4	69.6	61.4	50.6	66.8	95	27	Feb. 18	Nov. 28
Wallace	51.2	56.0	63.6	67.6	73.4	77.0	81.6	81.3	75.6	67.7	58.6	49.4	66.9	99	23	Feb. 27	Nov. 27

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
Bar Harbor	23.6	26.0	37.8	42.4	52.6	56.2	64.0	60.9	60.0	48.5	35.8	23.2	44.2	90	−10	May 25	Oct. 19
Belfast	18.8	23.0	39.2	43.1	53.4	57.6	65.0	59.8	58.5	46.0	34.5	19.9	43.2	88	−19	June 2	Sept. 9
Bemis	.....	.....	.....	.....	.....	59.0	64.0	57.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cornish	21.2	25.0	39.2	44.5	57.6	59.4	67.6	61.1	61.5	48.0	34.0	21.2	45.0	90	−13	May 25	Sept. 8
*Eastport	21.2	22.2	34.2	39.4	48.9	53.1	59.4	58.0	57.5	47.4	35.6	22.8	41.6	85	−14	May 2	Oct. 19
Fairfield	17.7	21.2	39.0	43.9	56.2	60.0	.....	.....	.....	.....	33.8	19.8	.....	89	−22	May 23	.....
Farmington	16.8	19.4	37.6	43.4	55.8	59.6	66.4	60.0	59.5	47.2	32.1	17.2	42.9	91	−22	May 31	Sept. 8
Fort Fairfield	.....	13.2	29.8	38.6	†52.5	59.2	†61.2	.....	§56.4	‡42.2	c27.2	d13.3	.....	88	−31	June 4	Sept. 5
Gardiner	17.9	22.4	39.2	44.2	55.8	61.0	68.2	62.6	61.2	48.8	33.6	20.5	44.6	92	−26	May 25	Sept. 30
Houlton	18.4	21.2	34.8	42.2	55.4	60.5	64.3	60.5	61.2	47.0	32.0	17.4	42.9	92	−23	May 31	Sept. 9
Kineo	.....	14.9	.....	.....	.....	59.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lewiston	18.2	22.4	39.4	44.4	57.4	60.4	68.1	63.0	62.0	49.2	35.1	21.4	45.1	93	−21	May 25	Sept. 8
Mayfield	17.4	20.7	35.7	40.6	54.1	58.5	64.2	58.2	57.9	44.4	31.0	16.8	41.6	85	−17	May 26	Sept. 29
Millinocket	20.6	21.2	37.8	42.5	54.8	59.6	66.0	60.1	60.0	51.2	.....	16.8	.....	84	−14	June 1	Sept. 8
North Bridgton	17.7	23.8	39.4	44.1	56.2	60.0	68.4	62.4	62.5	49.5	35.2	20.6	45.0	100	−20	June 5	Sept. 8
Orono	16.2	19.8	37.5	43.0	54.4	59.8	62.1	60.6	60.2	47.1	33.8	20.0	42.9	89	−23	June 1	Sept. 8
Patten	12.6	.....	36.4	.....	52.2	56.6	61.6	55.8	56.0	41.4	30.0	16.9	.....	85	−27	June 5	Aug. 24
*Portland	23.0	26.4	39.1	43.2	53.3	56.7	66.6	61.5	61.2	49.6	35.8	23.9	45.0	91	− 9	May 2	Oct. 22
Rumford Falls	17.2	21.0	37.2	43.2	54.4	60.2	67.0	60.6	60.4	47.6	32.8	18.8	43.4	94	−20	May 26	Sept. 8
South Lagrange	.....	.....	37.2	42.3	54.7	61.7	65.9	60.6	59.4	51.0	31.6	17.8	.....	92	−14	.....	Sept. 8
Van Buren	6.6	11.2	27.8	39.4	57.5	58.5	64.2	59.2	58.2	42.6	28.8	10.6	38.7	87	−37	June 5	Sept. 20
Vanceboro	26.1	27.6	.....	46.0	55.2	.....	.....	.....	.....	.....	30.8	16.6	.....	.....	−12	.....	.....
Winslow	16.8	21.0	34.6	43.4	.....	60.5	.....	61.2	.....	48.4	33.1	.....	.....	.....	.....	.....	.....
Maryland.																	
Annapolis	.....	.....	.....	.....	.....	.....	.....	.....	.....	e56.8	45.0	33.2	.....	96	0	.....	Nov. 7
Bachmans Valley	29.0	31.0	46.6	49.0	62.2	64.3	72.4	68.3	63.0	53.2	36.4	27.0	50.2	92	− 8	Apr. 5	Sept. 29
*Baltimore	33.6	37.8	49.6	54.4	65.2	67.2	77.2	71.9	68.2	58.4	43.2	33.0	55.0	97	5	Feb. 26	Nov. 7
Boetcherville	28.4	32.5	49.6	51.7	65.0	67.4	74.8	72.1	66.4	56.7	39.3	29.4	52.8	100	− 6	May 2	Sept. 29
Boonsboro	.....	.....	49.6	52.8	65.0	65.8	73.6	70.4	65.5	56.8	40.5	29.8	.....	98	− 2	Apr. 5	Oct. 25
Cambridge	34.2	39.0	51.2	54.4	66.2	68.2	78.5	74.6	69.6	58.0	43.6	32.8	55.9	100	6	Apr. 6	Nov. 9
Charlotte Hall	.....	.....	.....	.....	.....	.....	*72.2	.....	66.2	57.4	43.0	h30.7	.....	.....	.....	.....	Oct. 27
Chase	31.4	36.0	48.8	.....	.....	.....	74.6	70.9	65.6	55.5	40.6	e30.5	.....	96	0	.....	Sept. 29
Cheltenham	32.8	37.2	50.4	54.0	64.8	68.1	76.0	70.4	66.4	56.4	41.2	30.7	54.0	98	3	Apr. 6	Oct. 28
Chestertown	32.0	35.8	48.6	52.3	63.2	66.8	75.2	71.5	66.7	57.2	41.1	31.6	53.5	92	5	May 1	Nov. 7
Chewsville	29.3	34.0	48.7	49.8	62.0	64.6	72.8	69.6	64.0	56.4	35.7	27.2	51.2	96	−11	Apr. 4	Sept. 29
Clearspring	28.6	33.2	48.4	50.5	63.4	64.0	72.0	68.6	64.4	55.2	39.4	27.6	51.3	96	− 2	Apr. 6	Oct. 25
Coleman	32.3	36.8	50.3	53.0	65.6	67.4	76.8	c72.0	68.3	58.2	43.8	32.1	54.7	97	3	Apr. 22	Oct. 29
Collegepark	31.6	35.2	48.6	52.1	62.0	66.0	74.6	71.6	66.2	56.6	42.8	30.0	53.1	96	− 2	May 3	Oct. 18
Darlington	30.2	34.2	49.8	52.2	64.4	c65.6	‡74.4	67.7	64.2	55.2	41.0	29.3	52.4	97	− 4	Apr. 28	.....
Deerpark	24.8	28.5	45.6	45.8	c57.8	d58.0	*65.0	†64.4	c59.6	c50.0	32.8	21.3	46.1	90	− 9	May 8	Sept. 19
Denton	32.6	38.4	47.0	.....	.....	67.2	75.7	71.6	67.0	57.4	.....	.....	.....	98	6	Apr. 6	Oct. 27
Easton	33.6	38.4	51.2	53.6	64.8	67.8	76.2	72.0	67.8	57.7	42.7	33.3	54.9	96	9	Feb. 27	Oct. 28
Fallston	30.7	34.5	48.5	51.5	63.2	65.4	73.8	69.6	65.6	56.2	41.2	29.6	52.5	94	− 4	May 2	Oct. 27
Frederick	31.9	35.9	51.5	53.7	64.2	67.5	75.6	71.7	67.2	57.5	41.2	30.8	54.1	98	−12	May 2	Oct. 25
Grantsville	24.1	28.9	44.6	47.3	58.8	59.2	67.0	64.7	59.4	49.9	33.4	21.9	46.6	90	− 9	May 9	Oct. 25
Greatfalls	30.8	34.2	49.4	51.3	63.4	67.6	76.0	72.6	67.3	56.7	a37.0	30.1	53.0	100	− 7	May 2	Oct. 28
Green Spring Furnace	29.6	33.7	48.7	53.4	64.8	67.0	75.2	70.0	65.0	55.4	38.8	28.8	52.5	98	− 1	Feb. 25	Oct. 19
Hancock	30.0	35.2	50.0	52.3	64.7	67.0	74.7	71.3	67.2	56.4	39.4	30.1	53.2	100	− 2	May 2	Oct. 19
Jewell	33.8	38.8	50.6	54.1	64.5	67.0	75.8	72.0	67.4	57.8	42.6	32.5	54.7	94	4	Apr. 18	Oct. 27
Johns Hopkins Hospital	e30.7	.....	.....	54.1	66.0	.....	.....	73.5	68.8	59.2	44.4	33.1	.....	97	.....	Apr. 5	Nov. 7
Laurel	31.6	35.4	49.0	52.9	64.0	66.7	74.2	71.0	66.3	56.0	40.2	29.4	53.1	97	− 5	Apr. 6	Oct. 19
McDonogh	c28.2	35.1	47.7	52.0	63.8	66.2	74.6	70.0	65.0	56.6	41.2	.....	.....	93	0	Mar. 29	.....
Mount St. Marys College	29.2	33.0	47.8	51.0	64.0	65.8	74.8	69.4	67.2	57.7	41.7	30.3	52.6	96	0	Apr. 6	Nov. 7
Newmarket	30.3	35.4	50.0	52.2	64.0	65.9	73.8	70.0	65.2	56.0	40.5	29.2	52.7	95	− 6	May 2	Nov. 7
Oakland	.....	.....	.....	.....	.....	.....	.....	.....	c57.9	50.4	33.7	23.0	.....	.....	.....	.....	Sept. 19
Pocomoke City	37.2	41.2	52.1	55.8	65.4	68.8	.....	.....	.....	63.2	51.0	.....	.....	96	9	May 2	Nov. 19
Prince Fredericktown	33.8	38.2	51.1	54.2	65.5	68.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 6	.....
Princess Anne	35.4	39.2	51.4	53.8	62.8	66.4	75.4	72.2	66.0	56.6	42.8	32.9	54.6	93	8	May 2	Oct. 19
Queenstown	32.7	37.0	49.5	53.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sharpsburg	30.2	32.8	48.8	50.6	64.4	65.6	73.8	70.6	65.0	56.8	41.5	30.9	52.6	95	− 5	Apr. 28	Oct. 25
Solomons	34.6	38.9	49.6	55.0	65.6	68.4	77.8	74.6	70.1	59.2	44.6	34.0	56.0	96	8	Apr. 6	Nov. 10
Sudlersville	33.2	38.5	51.6	54.0	64.9	d67.0	76.7	72.4	67.4	58.6	42.2	31.6	54.8	98	5	Apr. 5	Nov. 7
Sunnyside	.....	30.0	46.7	48.2	62.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 27	.....
Takoma Park	30.6	34.8	48.7	52.2	64.1	66.0	74.7	71.2	66.6	56.2	40.7	29.5	52.9	97	− 1	Apr. 6	Oct. 27
Van Bibber	31.9	35.6	46.2	.....	64.2	66.2	74.5	70.0	65.8	56.4	41.6	30.6	.....	94	1	Apr. 6	Oct. 27
Westernport	28.8	33.8	48.9	50.8	63.4	63.0	71.1	70.0	63.8	53.2	37.7	27.4	51.0	96	− 5	May 2	Oct. 27
Woodstock	33.0	36.4	51.5	53.5	64.4	67.3	.....	72.2	66.6	57.0	42.0	32.2	.....	95	−10	Apr. 6	Sept. 29
Massachusetts.																	
Amherst	24.2	27.2	42.9	46.8	59.8	60.3	69.4	62.3	62.0	51.4	35.1	22.1	47.0	97	12	May 2	Sept. 30
Bedford	26.2	29.1	42.9	46.8	58.2	59.0	68.8	62.0	61.8	51.0	36.5	24.6	47.2	.....	.....	.....	.....
*Boston	28.6	31.4	44.4	47.8	58.5	59.8	71.4	65.0	64.4	53.9	40.0	29.0	49.5	93	− 1	Apr. 6	Oct. 22
Blue Hill (Summit)	26.0	28.8	43.2	46.0	58.0	58.7	69.2	62.8	62.4	51.4	36.8	24.8	47.3	92	− 6	May 3	Oct. 19
Cambridge	27.2	30.2	44.3	48.4	59.3	60.6	71.1	64.4	63.5	53.0	38.4	27.3	49.0	.....	.....	.....	.....
Chestnuthill	28.2	30.2	44.8	47.4	59.4	60.8	72.0	64.4	63.8	52.9	39.0	27.0	49.2	95	− 6	May 3	Oct. 19
Concord	25.0	27.4	41.9	46.0	57.0	58.8	69.0	61.9	60.8	49.9	35.4	23.6	46.4	92	−12	May 12	Sept. 30
East Templeton (a)	23.5	26.6	39.7	44.6	58.0	60.5	68.0	61.2	59.9	48.4	32.6	21.9	45.4	.....	.....	.....	.....
Fallriver	29.8	32.0	44.4	47.8	59.1	61.2	71.2	65.8	63.2	54.0	39.4	29.0	49.7	92	− 3	Apr. 6	Oct. 27
Fitchburg (a)[1]	24.7	27.4	40.9	45.5	58.7	59.9	69.2	62.4	61.0	49.4	34.6	23.6	46.4	94	− 9	May 3	Oct. 22
Fitchburg[2]	24.8	27.6	41.9	46.4	59.7	59.3	69.6	62.2	63.0	51.0	36.1	23.6	47.1	.....	.....	.....	.....
Framingham	26.9	29.1	43.9	47.0	59.2	60.1	70.0	65.0	62.8	52.2	38.0	25.2	48.1	94	−12	May 2	Oct. 19
Groton	23.8	27.2	41.3	45.6	57.5	59.2	68.8	61.2	61.2	50.0	35.1	22.3	46.1	92	−12	May 26	Sept. 30
Lawrence	24.8	28.0	42.6	46.5	58.9	60.2	70.1	63.8	63.4	51.0	36.7	24.2	47.5	96	−14	May 2	Sept. 30
Lowell	26.3	29.4	43.5	47.4	60.9	61.4	72.0	65.0	65.1	52.4	38.2	26.1	49.0	96	− 6	May 3	Oct. 22
Lowell	25.9	28.7	43.2	46.6	59.8	60.8	70.8	63.7	63.0	51.3	37.4	25.5	48.1	.....	.....	.....	.....

† Every month.

[1] Dr. Jabez Fisher.

[2] A. P. Mason.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.		
Massachusetts—Continued.																	
Ludlow Center	21.2	23.0	.....	42.0	56.2	55.7	.....	58.9	58.1	48.2	.....	18.2	.....	.....	.....	.....	.....
Middleboro	28.3	29.2	42.8	45.4	56.4	59.0	69.2	62.1	60.0	50.8	36.6	26.0	47.2	93	−10	May 26	Sept. 29
Monson	25.8	27.9	42.8	45.4	58.4	59.6	68.6	61.7	60.6	51.4	34.4	23.2	45.6	90	− 8	May 2	Sept. 25
*Nantucket	31.6	32.7	42.2	45.7	53.8	57.6	67.6	64.2	62.8	54.4	42.8	32.7	49.0	87	4	Apr. 6	Oct. 29
New Bedford	28.8	30.6	42.5	47.0	57.8	59.6	69.8	64.0	61.6	53.5	39.5	27.0	48.5	91	− 1	May 2	Oct. 25
Plymouth	29.8	30.8	33.1	46.1	56.4	60.4	70.0	63.9	.....	.....	.....	.....	.....	.....	.....	.....	.....
Provincetown	31.4	32.4	42.4	46.3	57.5	59.5	68.8	64.4	65.0	55.4	43.7	31.8	49.9	90	− 2	Apr. 6	Nov. 7
Somerset (*a*)	29.4	31.3	45.8	49.6	61.8	64.6	73.8	68.0	64.8	54.4	38.4	26.2	50.7	.....	.....	.....	.....
Taunton	27.4	29.2	42.7	44.8	56.5	59.2	69.0	62.4	60.4	51.0	36.2	25.0	47.0	.....	.....	.....	.....
Westboro	26.3	29.2	45.8	47.8	60.7	61.3	71.2	63.6	63.4	52.2	37.8	26.2	48.8	95	−12	May 2	Sept. 25
Weston	26.0	28.2	42.4	45.7	56.9	59.1	68.7	62.0	60.6	50.4	35.8	24.4	46.7	.....	.....	.....	.....
Williamstown	24.2	27.0	41.6	45.2	58.4	59.8	67.2	60.4	59.2	49.7	33.4	21.7	45.6	87	− 7	May 25	Oct. 22
Worcester	25.6	28.7	43.2	47.3	60.7	61.0	70.8	64.2	63.6	52.0	37.2	24.9	48.3	90	− 6	May 2	Oct. 22
Michigan.																	
Adrian	.....	.....	.....	.....	.....	.....	72.4	67.5	63.6	52.0	35.2	22.6	.....	94	.....	.....	Oct. 24
Agricultural College	20.7	20.6	41.0	†43.0	59.5	.....	†67.9	64.3	61.0	51.0	34.0	19.7	.....	92	−17	May 4	Oct. 18
Allegan	°22.2	23.6	‡40.0	°45.8	‡60.8	°60.5	‡69.8	°67.3	°62.2	‡50.3	‡34.2	†20.2	46.4	94	−10	June 11	Oct. 19
Alma	21.1	22.0	39.5	45.6	58.6	61.5	69.8	64.4	60.4	50.4	33.8	19.6	45.6	92	−12	May 4	Sept. 29
*Alpena	20.8	21.0	35.8	40.2	52.5	57.3	66.0	60.6	57.2	47.8	33.0	19.6	42.6	93	− 9	May 8	Sept. 29
*Ann Arbor	22.2	24.0	41.7	45.8	60.2	62.5	71.4	66.1	62.0	51.8	35.0	20.9	47.0	92	−10	May 4	Oct. 24
Annpere	‡24.0	21.0	37.8	43.4	57.4	57.3	.....	63.2	61.6	52.0	.....	.....	.....	88	−12	.....	.....
Arbela	22.6	23.2	39.4	44.0	59.4	62.2	70.2	65.1	62.8	52.2	35.2	20.8	46.4	93	−11	May 4	Oct. 18
Baldwin	20.9	19.8	39.2	43.8	58.4	59.6	.....	63.0	59.8	49.2	32.8	†17.6	.....	89	−21	May 8	Sept. 26
Ball Mountain	22.2	23.2	40.2	45.0	57.8	60.4	69.0	63.7	61.0	51.2	33.6	20.4	45.6	89	− 9	May 4	Oct. 23
Baraga	14.5	15.4	30.4	36.5	48.6	54.2	62.1	59.1	56.8	49.8	30.4	16.0	39.5	94	−28	June 25	Aug. 8
*Battlecreek	22.6	22.4	41.0	46.2	60.4	62.4	71.5	67.0	63.2	50.5	33.7	19.2	46.7	93	−12	May 7	Oct. 13
Bay City	22.0	21.3	39.6	44.8	57.8	59.2	70.7	64.4	60.8	51.6	33.6	21.1	45.6	95	−12	May 4	Oct. 19
Benzonia	22.5	21.9	‡38.2	‡41.6	54.6	.....	†67.6	.....	†57.2	‡48.2	†31.3	20.1	.....	.....	.....	May 3	Oct. 23
Berlin	22.0	23.2	39.2	44.5	57.4	60.4	70.2	64.0	61.2	50.6	34.8	20.0	45.6	92	− 8	May 4	Oct. 22
Berrien Springs	23.7	25.2	42.6	48.2	62.2	63.2	71.4	67.2	†62.2	°53.0	.....	.....	.....	95	− 8	May 4	Oct. 25
Big Rapids	19.4	19.8	36.8	42.2	56.9	59.8	68.0	62.6	58.6	48.1	31.2	17.8	43.4	91	−14	May 8	Sept. 29
Birmingham	22.6	23.6	‡39.0	44.4	59.1	61.3	†69.2	65.2	62.0	51.0	34.8	°21.0	46.1	93	− 9	May 4	Oct. 23
Boon	17.8	16.1	34.6	40.6	54.0	56.0	64.3	58.7	.....	.....	.....	.....	.....	.....	.....	May 8	.....
Calumet	14.0	14.8	27.4	36.4	51.5	59.1	63.0	59.0	53.8	47.5	29.8	15.4	39.3	90	−19	May 13	Oct. 17
Carsonville	25.0	22.1	40.6	44.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cassopolis	21.4	20.4	40.6	47.1	63.8	64.2	72.9	68.5	†68.0	51.8	34.8	22.0	48.0	94	−15	May 1	Oct. 24
Charlevoix	.....	.....	36.8	42.0	55.2	58.8	69.8	63.4	59.7	51.2	.....	.....	.....	90	.....	May 7	Oct. 23
Charlotte	‡22.2	23.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chatham	15.9	15.4	29.2	38.6	51.6	56.0	64.2	59.6	55.4	46.6	31.3	15.0	39.9	92	−17	June 12	Oct. 24
Cheboygan	21.2	19.0	34.7	40.8	52.6	58.8	66.6	61.6	†57.3	49.2	33.1	18.0	42.7	90	−12	May 7	Oct. 11
Clinton	24.0	25.1	42.6	46.9	61.8	63.8	72.4	67.4	64.0	52.3	35.2	21.5	48.1	95	−11	May 4	Oct. 23
Coldwater	25.2	26.2	43.8	49.1	62.9	64.4	72.0	68.2	64.7	.....	36.1	20.2	.....	95	−12	May 4	Oct. 18
Deerpark	19.2	19.6	30.8	36.8	49.2	52.8	61.6	58.6	54.6	46.6	31.6	17.5	39.9	88	−11	June 17	Sept. 28
Detour	19.4	18.2	31.4	39.4	50.5	58.8	64.2	60.2	56.2	47.8	33.0	.....	.....	88	−16	May 7	Oct. 23
*Detroit	24.1	25.6	41.4	46.9	60.8	62.8	72.6	67.4	64.1	53.1	36.4	22.4	48.1	92	− 5	May 1	Oct. 24
Dundee	23.6	24.9	43.8	47.3	60.6	62.4	71.4	66.8	63.4	52.5	35.6	21.5	47.8	92	−10	May 4	Oct. 24
Eagle Harbor	18.6	17.8	29.8	37.8	47.7	52.0	60.7	57.6	†56.3	‡47.2	.....	.....	.....	94	−15	May 30	Oct. 22
East Tawas	20.7	22.8	35.6	41.4	51.8	58.4	66.9	62.4	57.7	49.6	°32.0	20.2	43.3	88	−10	May 7	Sept. 28
Eloise	22.8	24.8	43.4	46.6	60.4	62.8	72.0	67.0	63.1	52.4	35.4	21.8	47.7	94	−11	May 5	Oct. 24
*Escanaba	17.1	18.0	31.6	38.4	50.6	58.2	64.9	60.7	55.4	47.0	30.8	15.6	40.7	89	−15	May 1	Sept. 28
Ewen	14.2	11.9	28.2	36.2	52.9	56.0	63.0	57.1	53.0	.....	26.8	9.2	.....	86	−35	May 30	Aug. 12
Fennville	24.0	25.1	°40.8	45.8	61.0	61.9	69.0	66.1	61.5	51.2	†32.6	22.4	46.8	93	− 8	May 1	Oct. 23
Fitchburg	22.9	22.6	41.2	45.0	58.8	60.5	69.6	64.0	°61.8	50.9	34.2	20.2	45.9	91	−12	May 4	Sept. 28
*Flint	21.5	22.8	40.1	44.0	58.0	60.7	69.8	64.4	61.5	51.0	33.6	20.6	45.7	92	−11	May 4	Sept. 29
Frankfort	25.8	24.2	36.6	41.5	57.1	55.6	64.7	60.9	†59.8	50.4	.....	.....	.....	84	10	.....	Oct. 24
Gaylord	18.0	16.8	33.2	39.9	54.0	56.4	62.5	61.5	59.4	47.6	32.5	°20.2	41.8	90	−20	June 12	Sept. 5
Gladwin	16.6	19.0	38.2	43.6	56.8	61.2	68.4	°63.4	58.8	48.0	.....	.....	.....	92	−12	May 8	Sept. 28
*Grand Haven	24.6	24.8	39.2	45.5	58.8	59.8	†67.8	°64.3	61.8	52.0	36.0	23.8	46.5	85	− 3	May 1	Oct. 24
Grand Marais	20.7	20.5	31.4	37.2	49.8	53.6	61.6	59.2	56.2	48.2	33.4	°21.6	41.1	84	− 6	May 15	Sept. 26
*Grand Rapids	24.6	24.7	40.2	46.4	59.5	64.2	71.0	65.6	62.4	51.5	35.6	22.7	47.4	93	− 7	May 8	Oct. 24
Grape	23.1	25.0	41.6	46.0	°59.7	62.6	72.0	66.6	63.2	‡53.0	36.0	‡21.0	47.5	95	− 9	May 4	Oct. 24
Grayling	19.4	17.4	35.5	41.4	57.2	†59.4	68.0	58.3	58.6	.....	30.8	17.0	.....	92	−16	May 7	Sept. 26
Hagar	25.4	26.6	41.1	48.3	63.1	61.8	70.6	67.6	64.0	53.4	37.2	22.8	48.5	96	−14	May 8	Oct. 10
Hanover	22.4	22.6	.....	.....	59.6	†62.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 5	.....
Harbor Beach	22.6	23.4	39.0	42.8	53.6	58.0	69.4	63.2	60.1	50.6	32.6	20.2	44.6	92	− 8	May 8	Sept. 28
Harrison	15.2	‖15.6	.....	.....	51.9	55.8	63.4	.....	.....	.....	°29.5	°15.7	.....	87	−19	May 8	Sept. 28
Harrisville	19.6	19.4	35.3	40.3	52.4	57.6	66.1	61.8	57.8	48.6	33.0	18.8	42.6	94	−11	May 3	Sept. 27
Hart	21.7	20.7	37.6	43.6	.....	64.4	.....	59.9	.....	.....	.....	20.0	.....	.....	.....	May 1	.....
Hastings	23.4	24.0	40.9	46.2	60.4	62.8	70.3	66.4	62.0	50.8	34.6	20.0	46.8	94	−18	May 8	Oct. 10
Hayes	20.1	22.5	38.4	42.4	°56.6	59.5	†68.9	†63.8	58.8	°50.8	34.8	19.4	44.7	91	− 8	May 15	Sept. 30
Hillsdale	22.5	23.6	41.1	46.2	60.2	61.5	69.8	65.4	61.8	50.4	33.9	19.0	46.3	92	−12	May 4	Sept. 24
*Houghton	17.8	17.0	30.8	39.3	51.3	58.5	64.0	59.9	55.6	48.1	32.0	16.6	40.9	94	−13	May 1	Sept. 29
Humboldt	12.0	9.4	29.0	33.4	49.9	58.0	61.5	56.7	53.2	43.6	25.1	9.2	36.4	91	−39	June 23	Sept. 5
Ionia	26.7	†21.2	‡41.2	‡47.0	°59.2	°62.2	70.8	°64.8	‡61.8	†50.0	‡35.0	†21.3	46.8	95	−12	May 4	Sept. 28
Iron Mountain	14.2	16.6	34.0	40.4	54.0	60.5	66.3	60.7	56.4	46.6	27.7	12.6	40.8	89	−20	May 3	Oct. 10
Iron River	8.4	12.1	31.8	39.8	52.6	55.7	63.8	58.2	53.9	43.7	†22.6	8.3	37.6	88	−26	June 20	Sept. 5
Ironwood	12.8	13.8	30.3	40.2	52.8	58.8	64.6	59.7	55.6	47.5	27.4	9.1	39.4	89	−28	May 30	Sept. 28
Ishpeming	‡12.6	14.0	29.7	37.2	52.2	55.8	64.2	58.6	54.6	46.3	26.7	13.0	38.7	88	−23	May 31	Sept. 6
Ivan	19.6	19.2	35.6	42.2	55.9	59.6	65.8	60.8	56.9	46.8	31.5	.....	.....	88	−11	June 12	Sept. 29
Jackson	22.0	25.6	43.1	47.6	62.1	64.4	73.7	67.8	63.9	52.6	35.6	21.8	48.4	97	− 9	May 4	Oct. 23
Jeddo	21.6	22.5	39.7	43.8	57.2	.....	69.8	64.2	61.6	51.5	34.3	20.2	.....	92	− 8	May 4	Oct. 23
Kalamazoo	22.2	23.6	.....	°46.1	°60.6	°63.6	†71.7	†67.8	.....	†49.7	35.6	°20.2	.....	93	−10	May 2	Oct. 24
Lake City	21.1	18.0	41.2	43.9	58.1	62.3	.....	63.4	.....	49.2	29.2	16.4	.....	85	−10	June 12	Sept. 18
*Lansing	22.1	22.8	40.3	45.8	59.9	62.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lansing[1]	22.3	22.9	41.4	45.0	60.4	62.4	70.5	65.0	61.9	50.3	34.2	20.8	46.4	92	− 9	May 4	Oct. 17
Lapeer	22.0	23.6	40.6	44.5	58.2	°59.6	†69.3	64.6	°61.4	51.8	34.7	20.8	45.9	92	−11	May 4	Oct. 23
Lincoln	‡20.5	°20.5	‡39.6	.....	.....	.....	70.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Henry B. Baker.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
Ludington	[1]23.0	.....	°39.6	41.0	55.0	61.0	[f]68.8	62.2	60.4	52.2	35.0	20.3	.....	88	— 5	June 17	Oct. 23
Mackinac Island	20.2	19.2	32.8	39.7	50.9	58.1	63.8	60.4	56.6	48.0	[d]32.8	19.9	41.9	80	—13	May 1	Oct. 11
Mackinaw	20.5	19.1	32.8	40.4	51.8	58.8	66.4	61.9	57.7	[d]48.0	33.2	19.3	42.5	87	—12	May 8	Oct. 23
Muncelona	21.8	20.6	35.8	41.6	58.6	61.6	[e]68.0	64.1	61.0	48.0	31.2	17.8	44.2	90	—11	May 7	Sept. 29
Manistee	[1]23.×	.....	[f]39.8	.....	58.8	.....	.....	[k]63.2	59.8	50.6	35.3	[b]20.4	.....	84	.....	.....	Sept. 29
Manistique	19.4	19.6	32.2	38.2	48.6	56.4	63.7	59.8	°56.0	47.0	31.2	[k]19.2	40.9	82	—15	May 16	Sept. 5
Marine City	.....	.....	.....	.....	.....	60.5	69.8	°64.6	63.8	52.4	.....	21.0	.....	.....	.....	.....	Oct. 27
*Marquette	18.6	18.4	31.9	38.5	51.9	56.4	63.8	59.8	56.6	49.6	32.2	17.2	41.2	91	—14	May 3	Oct. 10
Menominee	18.1	.....	34.4	39.8	52.4	59.4	67.4	62.1	58.0	48.2	30.7	15.3	.....	89	—16	May 3	Sept. 24
Midland	26.2	24.0	39.8	44.8	58.8	61.2	*71.6	.....	61.4	47.8	.....	.....	.....	98	—16	May 4	Sept. 29
Mio	18.8	18.2	35.9	42.2	54.4	58.1	65.2	58.7	57.0	46.0	29.8	16.8	41.7	90	—22	June 12	Sept. 5
Montague	23.8	23.4	39.2	43.4	58.0	59.2	67.5	64.4	[d]60.4	49.9	34.4	22.5	45.5	88	— 5	.....	.....
Mount Pleasant	[d]20.5	20.8	38.3	48.6	59.0	62.6	74.5	.....	.....	.....	35.2	21.7	.....	92	.....	May 31	.....
Muskegon	24.0	24.2	39.6	45.9	59.8	62.2	68.6	64.6	61.4	52.0	36.6	23.0	46.8	85	— 7	May 3	Sept. 29
Newberry	22.9	20.5	32.8	45.0	.....	60.4	68.2	.....	.....	46.9	[f]30.4	15.4	.....	95	—12	June 13	Sept. 27
Old Mission	21.0	22.4	37.4	42.6	55.4	60.0	69.2	63.2	59.2	49.5	33.7	20.2	44.5	90	— 7	May 1	Oct. 23
Olivet	22.8	23.6	41.0	45.6	60.3	62.2	71.1	65.0	61.2	50.8	34.9	20.4	46.6	91	—11	May 4	Oct. 24
Omer	19.4	21.8	37.8	41.5	53.8	58.8	66.1	[d]63.0	57.1	°49.3	29.4	.....	.....	92	—17	June 12	Sept. 28
Onaway	20.0	19.3	37.0	42.1	55.6	59.0	66.4	60.8	58.0	47.8	31.7	18.0	43.0	90	—16	June 21	Sept. 29
Ontonagon	17.4	14.4	29.0	36.2	49.0	55.6	63.3	56.4	54.7	.....	.....	.....	.....	94	—19	June 18	.....
*Ovid	21.9	21.8	40.3	45.0	59.3	61.8	69.8	63.4	61.8	50.8	34.7	19.8	45.9	93	—14	May 8	Oct. 18
Owosso	.....	24.8	42.4	[j]45.5	°63.7	64.5	73.6	.....	.....	54.0	35.0	19.8	.....	99	—13	May 3	Oct. 23
Petoskey	[g]20.5	20.0	35.6	42.7	54.8	59.2	67.8	62.5	59.2	48.6	32.2	20.0	43.6	93	—10	May 4	Oct. 21
Plymouth	25.0	25.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Austin	22.5	23.6	39.4	43.4	[d]54.6	57.0	69.2	62.6	60.1	50.0	32.9	20.2	44.6	91	— 5	June 2	Sept. 28
*Port Huron	22.7	24.2	39.6	44.1	56.9	60.2	69.4	64.4	62.0	51.4	34.6	21.2	45.9	90	— 5	May 4	Oct. 23
Powers	15.2	17.4	34.5	40.6	52.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 7	.....
Reed City	[g]20.2	.....	.....	.....	.....	.....	.....	[a]63.2	.....	.....	[d]32.8	[e]18.8	.....	.....	.....	.....	.....
Roscommon	19.8	18.2	37.9	42.0	56.8	59.8	67.2	[i]62.2	[d]58.0	.....	.....	[b]16.9	.....	94	—18	June 12	Sept. 5
Saginaw W. S.	23.0	23.8	40.9	45.8	61.0	63.4	71.6	65.2	61.9	51.8	35.6	22.2	47.2	94	—11	May 4	Sept. 19
St. Ignace	21.2	.....	34.3	45.0	54.0	.....	.....	.....	.....	49.0	33.4	20.4	.....	.....	.....	May 8	Oct. 23
St. Johns	23.5	24.2	41.4	47.0	60.2	62.7	71.4	[i]65.8	63.2	51.8	[d]37.2	°20.8	47.4	94	—12	May 4	Oct. 18
St. Joseph	°22.8	[b]21.0	37.2	°43.8	.....	.....	.....	.....	[f]60.6	.....	36.5	.....	.....	92	— 6	.....	.....
*Sault Ste. Marie	16.4	16.8	31.1	39.4	51.8	57.5	62.8	59.8	54.6	45.8	29.8	16.4	40.2	87	—20	May 7	Oct. 10
Sidnaw	19.8	16.8	.....	36.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Slocum	21.6	.....	.....	.....	.....	.....	[f]68.2	65.2	.....	.....	.....	°19.6	.....	.....	.....	.....	Oct. 16
Somerset	[j]20.6	[b]20.0	.....	°45.2	°57.8	58.6	.....	°64.0	.....	.....	[i]32.4	.....	.....	.....	—13	May 4	Sept. 28
South Haven	24.0	26.6	40.2	47.5	60.6	58.8	67.2	64.8	63.1	54.4	37.6	23.2	47.3	90	— 6	May 1	Oct. 9
Thomaston	11.4	12.0	28.6	[f]37.6	53.0	56.9	63.0	57.7	54.2	46.2	26.8	9.2	38.0	85	—35	May 30	Aug. 12
Thornville	22.2	24.2	40.4	45.6	60.0	61.6	70.0	64.8	62.0	51.3	35.2	21.4	46.6	90	— 8	May 2	Sept. 29
Traverse City	23.2	22.8	38.0	42.2	55.6	59.2	69.2	63.0	59.4	49.9	34.7	19.2	44.7	94	— 6	May 6	Sept. 17
Vassar	23.8	24.8	43.0	47.1	60.0	62.1	71.9	[i]65.6	62.9	.....	36.2	20.4	.....	91	—10	May 8	Sept. 28
Wasepi	23.0	23.9	41.1	47.5	60.8	61.8	69.4	65.9	61.6	51.3	34.8	19.4	46.7	90	—10	May 1	Oct. 24
Waverly	23.7	25.2	38.8	46.0	60.0	61.4	68.8	65.0	°62.4	.....	.....	.....	.....	91	—10	May 7	.....
Webberville	22.7	23.2	41.4	45.1	58.7	61.1	69.4	64.6	62.6	50.5	34.5	18.6	46.0	93	—18	May 8	Oct. 23
Westbranch	17.9	°17.8	35.6	42.2	[f]55.1	60.2	68.7	°61.2	[n]55.4	.....	[b]28.2	[d]16.4	.....	92	—18	May 5	Sept. 28
Wetmore	15.6	15.4	28.4	35.2	46.4	49.0	53.4	.....	.....	.....	.....	.....	.....	84	—22	June 24	.....
Whitecloud	.....	.....	°36.1	42.6	57.4	[f]58.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	June 12	.....
Whitefish Point	20.2	18.3	29.4	35.4	46.9	52.6	56.7	59.0	54.2	[d]48.8	32.2	18.8	39.5	86	—20	May 14	Sept. 29
Ypsilanti	22.2	24.2	42.2	44.8	58.6	61.6	69.4	65.0	60.2	49.6	33.9	21.0	46.1	91	—10	May 4	Sept. 24
Minnesota.																	
Ada	8.8	7.2	26.4	43.6	°55.5	.....	.....	.....	.....	.....	22.2	.....	.....	.....	.....	.....	.....
Albert Lea	13.8	12.3	33.8	45.3	59.8	64.0	69.6	66.6	57.4	48.4	31.2	12.8	42.8	88	—27	May 2	Oct. 4
*Alexandria	9.2	9.0	28.6	42.7	56.3	62.9	66.4	62.8	58.8	45.7	25.6	4.7	39.0	89	—32	May 22	Sept. 16
Angus	2.4	0.5	20.5	41.2	55.0	60.9	65.2	61.8	51.0	43.9	20.7	5.0	35.7	93	—35	June 10	Sept. 14
Ashby	10.2	8.4	28.3	44.0	56.6	[a]63.8	66.3	[b]61.2	°54.0	46.2	26.8	10.0	39.6	.....	—32	May 6	Sept. 17
Beardsley	12.8	9.3	28.6	45.4	56.6	62.6	67.0	65.2	55.8	48.8	28.9	12.8	41.2	91	—31	June 11	Sept. 16
Beaulieu	5.0	2.4	°21.5	°39.6	54.8	61.0	[a]65.8	.....	.....	47.6	24.1	5.2	.....	.....	.....	June 11	.....
Bemidji	8.1	10.4	25.4	41.1	56.8	62.4	68.1	63.5	54.6	48.2	25.2	8.0	39.3	92	—39	May 6	Sept. 17
Bird Island	13.2	12.6	31.4	45.0	56.8	63.2	.....	65.7	58.2	49.2	28.6	11.2	.....	93	—26	May 4	Oct. 9
Blooming Prairie	15.5	13.6	34.0	44.8	58.6	62.2	68.5	63.9	57.1	48.6	29.3	11.3	42.3	86	—29	May 3	Sept. 24
Brainerd	.....	.....	.....	.....	.....	.....	.....	.....	.....	°46.5	25.0	°6.8	.....	.....	.....	.....	.....
Caledonia	15.4	16.0	35.2	45.6	58.8	62.2	69.2	64.2	57.1	48.7	29.9	11.6	42.8	90	—29	May 3	Sept. 18
*Campbell	.....	.....	.....	.....	56.6	62.5	66.3	64.7	54.0	.....	.....	.....	.....	.....	.....	.....	.....
Collegeville	14.1	14.8	31.9	44.7	57.4	65.2	68.8	64.4	57.4	49.2	29.6	12.7	42.5	89	—26	May 1	Sept. 13
*Crookston	6.6	3.6	°22.8	41.9	54.9	63.1	66.4	62.7	51.3	45.4	22.0	5.4	37.2	92	—30	May 29	Sept. 16
Currie	14.3	.....	°31.6	45.2	.....	63.6	68.6	66.0	.....	50.4	°30.5	°12.8	.....	.....	.....	.....	.....
*Detroit City	4.6	1.5	22.6	40.3	55.0	61.4	64.9	62.2	51.9	45.7	22.6	3.4	36.3	90	—47	June 11	Sept. 17
*Duluth	12.5	14.4	30.2	40.0	47.2	59.0	64.3	60.4	54.8	48.4	28.4	9.6	39.1	92	—24	Apr. 16	Sept. 27
*Duluth—substation	9.8	12.2	27.1	38.2	47.6	58.1	61.9	58.1	52.2	46.2	25.6	6.8	37.0	89	—29	May 5	Sept. 17
Faribault	15.2	14.4	33.8	44.5	58.2	62.6	67.8	64.6	58.2	49.4	29.8	11.6	42.5	88	—27	May 3	Oct. 26
Farmington	13.2	13.2	33.9	44.5	58.2	62.8	68.4	65.0	57.0	48.8	28.2	9.4	41.8	90	—28	May 3	Sept. 24
Fergus Falls	10.7	7.2	28.0	43.4	57.5	64.5	67.3	65.0	54.5	47.4	26.2	10.0	40.1	92	—31	May 6	Sept. 16
Floodwood	°7.8	8.8	27.0	41.0	53.8	58.3	64.1	60.0	52.4	44.0	23.8	8.0	37.4	91	—40	June 11	Sept. 25
Glencoe	12.5	13.5	31.4	44.7	58.3	63.4	68.6	64.6	58.1	48.8	29.4	10.3	42.0	92	—28	May 1	Oct. 16
*Grand Meadow	14.6	14.4	34.6	45.5	59.4	63.5	69.8	65.2	57.1	49.0	29.7	11.6	42.9	89	—25	May 3	Oct. 5
Hallock	2.6	2.2	20.9	40.7	54.6	61.8	65.3	61.6	51.0	46.8	20.8	3.4	36.0	92	—41	June 11	Sept. 13
Lake Winnibigoshish	4.6	7.5	23.4	39.2	54.2	60.6	65.0	60.5	53.6	46.4	23.3	4.8	36.9	87	—38	June 11	Sept. 28
Leech	4.5	6.6	23.8	39.6	53.9	60.4	64.0	59.8	50.6	44.0	21.8	3.8	36.1	91	—42	June 11	Sept. 27
Long Prairie	10.4	9.4	29.2	43.0	56.6	61.6	66.6	63.4	54.8	46.2	25.6	8.2	39.6	92	—35	May 6	Sept. 17
Luverne	17.2	13.3	31.6	45.8	56.7	62.5	67.8	65.6	56.6	48.4	°31.1	14.8	42.6	89	—30	May 3	Sept. 16
Lyud	16.6	13.2	30.7	44.2	57.3	62.3	67.0	65.0	57.4	49.7	29.5	15.0	42.3	92	—25	May 3	Sept. 16
Mapleplain	12.0	12.2	32.2	45.2	58.0	65.4	68.2	[a]64.1	56.8	47.9	28.8	10.0	41.7	92	—27	May 1	Sept. 18
Milaca	9.6	8.2	°28.6	42.2	55.6	60.4	[a]66.3	62.4	55.4	45.8	26.2	8.2	39.1	90	—35	June 11	Sept. 18
Milan	10.7	9.0	30.3	44.9	57.8	[a]63.1	66.7	65.0	°55.4	°47.8	28.0	12.9	41.0	90	—31	May 6	Sept. 16
*Minneapolis	14.6	14.8	33.6	45.1	59.1	65.4	69.4	65.1	58.2	50.0	29.8	12.6	43.1	92	—24	May 1	Oct. 26
Minneapolis (a)[1]	13.3	12.6	33.1	44.2	58.4	64.1	69.1	64.6	56.9	47.2	28.8	11.0	41.9	92	—25	May 3	Oct. 18
*Montevideo	11.3	7.6	28.2	43.4	57.4	63.0	67.3	64.0	56.8	49.6	29.2	11.6	40.8	92	—32	May 2	Sept. 13

[1] J. H. Aschenbeck.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
*Moorhead	9.0	5.4	26.0	42.8	56.0	63.0	67.0	63.7	53.4	47.2	24.5	9.3	38.9	92	−30	May 3	Sept. 16
Morris	11.1	9.0	28.8	44.6	57.6	63.4	66.2	64.5	55.1	48.0	27.0	10.4	40.5	99	−30	May 6	Sept. 16
Mount Iron	5.4	8.2	25.3	39.8	53.5	59.8	63.0	57.2	51.2	44.6	20.1	3.2	35.9	93	−38	June 12	Sept. 4
New London	8.6	9.4	28.7	42.4	57.2	64.3	68.5	66.5	57.2	49.6	28.6	9.6	40.9	92	−33	May 2	Oct. 8
New Richland	16.2	17.0	35.0	46.0	59.3	64.2	71.0	67.0	59.4	49.6	32.0	13.2	44.2	90	−27	May 3	Sept. 24
*New Ulm	15.6	14.6	34.4	46.5	60.8	67.2	71.8	67.2	57.6	49.4	29.9	10.8	43.8	96	−20	May 1	Oct. 9
*Park Rapids	5.5	4.9	24.3	39.5	54.4	60.6	64.8	60.2	50.8	43.4	22.4	4.3	36.3	90	−38	May 7	Sept. 17
Pine River	5.1	5.0	26.0	40.2	54.6	62.8	65.6	60.8	53.5	45.2	24.4	3.8	37.2	90	−42	June 11	Sept. 24
Pipestone	15.2	14.8	30.8	[1]42.9	57.0	61.0	67.2	65.3	55.6	48.1	29.4	16.0	41.7	87	−25	May 1	Sept. 15
Pleasant Mounds	17.6	16.5	34.7	46.6	59.0	63.2	68.6	65.7	.....	[2]50.0	32.4	15.0	.....	88	−30	May 3	Sept. 28
Pokegama Falls	2.9	4.4	25.0	39.4	53.6	58.8	63.6	58.8	52.3	44.8	20.1	−0.6	35.3	91	−59	May 31	Sept. 17
Redwing	.....	14.1	35.4	46.0	59.6	64.6	70.9	67.2	59.6	50.2	30.6	11.4	.....	.....	.....	May 3	Oct. 18
Rolling Green	16.8	14.5	33.5	45.4	58.8	64.1	70.2	68.2	58.0	51.4	31.0	15.0	43.9	87	−23	May 1	Oct. 23
St. Charles	.....	.....	.....	.....	.....	.....	.....	65.0	59.4	48.8	30.8	11.4	.....	.....	.....	.....	Sept. 18
St. Cloud	11.2	10.8	30.8	44.8	59.0	64.2	67.8	63.6	56.0	.....	.....	.....	.....	.....	.....	May 1	Sept. 24
*St. Paul	15.0	14.3	34.0	45.7	59.4	65.4	69.6	65.9	58.7	50.4	30.6	12.9	43.5	90	−24	Apr. 30	Oct. 5
St. Peter	18.2	16.4	35.2	46.6	59.2	64.4	68.4	66.6	59.2	51.2	[3]28.4	13.0	43.9	91	−27	May 2	Oct. 26
Sandy Lake Dam	5.0	6.9	26.1	40.6	55.1	61.0	65.0	60.3	53.5	45.8	25.2	4.8	37.4	90	−41	June 11	Sept. 28
Shakopee	18.6	13.4	34.0	45.8	58.8	64.1	69.0	65.4	59.0	49.2	30.4	11.8	42.9	90	−24	Apr. 30	Sept. 18
Thief River Falls	.....	4.0	23.2	.....	55.2	61.7	65.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tower	4.8	7.2	26.2	39.0	52.1	56.4	60.1	58.0	50.0	47.0	14.2	2.4	34.4	95	−39	June 10	Sept. 29
Two Harbors	11.0	10.4	27.8	37.6	46.1	55.2	61.4	58.4	52.3	45.1	27.0	10.2	36.9	88	−28	June 11	Sept. 27
Wabasha	16.2	16.0	37.4	48.9	62.0	65.5	71.9	67.4	61.0	51.8	32.2	13.4	45.3	93	−28	May 3	Oct. 18
Warroad	.....	.....	20.2	37.8	53.7	62.4	66.8	62.2	50.3	46.2	.....	.....	.....	.....	.....	May 6	Sept. 5
Willow River	8.3	8.6	28.0	.....	54.5	60.7	65.8	61.2	.....	.....	.....	.....	.....	.....	.....	June 11	.....
*Winnebago	15.6	14.8	34.1	46.6	60.4	65.4	70.2	66.6	57.8	51.4	32.6	16.0	44.3	90	−21	May 3	Oct. 9
Winona	17.2	15.9	37.1	48.4	60.7	63.8	70.5	65.4	59.8	50.6	31.9	14.4	44.6	89	−21	May 6	Oct. 18
*Worthington	17.3	15.2	31.8	44.0	56.6	63.2	68.8	65.0	.....	.....	.....	.....	.....	.....	.....	May 1	.....
Zumbrota	15.3	14.6	35.6	44.6	59.2	62.6	69.2	65.2	57.4	47.9	30.0	17.0	43.2	90	−27	May 4	Sept. 28
Mississippi.																	
*Aberdeen	41.2	45.3	57.8	61.4	71.8	73.7	82.8	81.4	72.2	62.2	47.0	36.3	61.1	103	6	Mar. 26	Oct. 25
Agricultural College	44.2	48.1	59.0	61.8	70.8	72.6	.....	80.6	74.2	64.6	51.0	42.0	.....	.....	10	Apr. 4	Oct. 19
Austin	42.8	43.5	57.0	62.0	69.0	70.9	79.0	77.7	70.2	60.6	48.2	[3]40.8	60.1	95	6	Mar. 1	Oct. 18
*Batesville	42.2	43.5	56.4	59.7	69.7	71.8	80.9	79.4	70.0	60.2	47.2	39.1	60.0	97	5	Mar. 25	Oct. 19
Bay St. Louis	[3]49.6	.....	[3]63.6	67.4	74.5	.....	.....	.....	.....	68.7	58.2	48.0	.....	.....	.....	.....	Nov. 19
Biloxi	50.6	54.8	63.7	68.3	[3]73.7	77.6	81.7	82.7	77.4	69.2	59.2	49.2	67.3	98	24	Feb. 18	Nov. 19
Boggan	.....	.....	[3]61.4	62.8	70.0	74.3	80.8	80.1	72.8	63.8	52.4	[3]43.8	.....	100	11	Feb. 24	Oct. 25
Booneville	39.8	42.5	56.9	59.2	69.4	70.6	79.8	78.8	71.4	61.8	47.2	39.2	59.7	99	3	Mar. 25	Oct. 25
*Brookhaven	44.6	.....	.....	.....	71.8	74.9	80.8	81.8	73.8	64.8	[3]55.6	.....	.....	99	18	Feb. 23	Oct. 26
Canton	46.6	49.8	60.8	63.9	70.9	73.8	80.6	81.2	73.6	65.0	52.2	44.2	63.6	99	15	Feb. 24	Oct. 19
Cleveland	45.4	.....	61.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Columbus	42.6	46.5	58.2	60.3	69.1	71.8	81.0	79.7	72.4	63.2	49.4	39.0	61.1	96	10	.....	Oct. 25
*Corinth	.....	.....	.....	.....	66.6	68.6	78.2	77.4	68.8	59.8	45.0	35.8	.....	92	.....	.....	.....
Crystal Springs	44.8	49.1	60.4	63.5	70.8	73.4	80.4	80.9	78 8	65.6	53.1	43.8	63.3	97	17	Mar. 26	Oct. 19
Duck Hill	.....	.....	59.4	61.6	70.2	71.8	80.2	81.4	.....	.....	49.8	42.0	.....	.....	.....	Apr. 4	Oct. 19
Edwards	48.0	51.0	61.4	65.2	71.6	74.8	81.0	81.0	74.4	66.0	53.8	44.9	64.4	98	15	Feb. 25	Oct. 19
Fayette	46.0	49.4	61.2	63.8	70.0	73.2	77.6	79.3	72.4	63.5	52.7	44.4	62.8	97	16	Mar. 26	Oct. 19
Greenville[2]	45.2	46.8	58.6	62.4	70.2	73.4	80.8	80.3	72.8	63.6	51.6	44.4	62.6	93	14	Mar. 25	Oct. 24
*Greenville[3]	44.0	45.6	57.4	63.5	71.8	75.2	82.6	82.4	74.2	64.4	50.5	42.4	62.8	100	15	.....	.....
*Greenwood	44.0	47.0	59.1	63.4	70.6	72.6	80.9	80.8	72.6	63.0	50.0	42.2	62.2	99	11	Mar. 25	Oct. 19
Hattiesburg	47.8	53.3	63.4	66.4	72.2	77.0	82.3	81.4	74.4	66.2	53.8	45.8	65.3	102	19	Feb. 24	Oct. 25
*Hazlehurst	45.4	49.0	60.6	63.6	71.0	74.2	81.0	81.4	74.8	66.2	53.8	44.6	63.8	100	17	Feb. 24	Oct. 25
*Hernando	41.4	42.7	58.6	62.0	69.7	71.8	80.8	80.8	74.4	63.6	49.2	39.6	61.2	99	2	Mar. 1	.....
*Holly Springs	39.2	40.8	55.2	60.4	69.5	71.8	81.0	79.0	72.8	62.0	46.2	37.2	59.6	95	4	Mar. 25	Oct. 24
Indianola	[3]45.6	48.0	58.0	63.9	70.0	71.4	81.0	80.6	71.3	[3]60.4	49.4	[3]40.2	61.6	97	11	Mar. 26	Oct. 19
*Jackson	45.2	47.6	60.3	63.3	69.9	73.5	80.6	80.9	74.0	.....	51.3	44.6	.....	98	15	Feb. 24	Oct. 25
*Kosciusko	43.1	46.8	58.7	62.1	70.2	73.0	80.4	80.6	72.8	63.8	50.4	40.9	61.9	96	11	Mar. 25	Oct. 25
*Lake	42.5	46.6	58.2	60.8	68.5	73.0	80.1	79.5	71.2	62.5	50.3	41.3	61.2	98	15	Mar. 2	Oct. 19
Lake Como	45.6	51.0	61.9	62.2	69.4	73.6	81.0	81.7	74.7	65.9	54.0	45.9	63.9	100	19	Mar. 26	Oct. 25
Laurel	48.2	[3]52.4	62.6	65.8	[3]72.8	77.2	[3]82.8	.....	.....	.....	.....	.....	.....	102	19	Feb. 23	.....
Leakesville	47.2	52.5	62.9	64.8	71.3	.....	81.2	81.4	75.8	67.1	55.7	45.3	.....	101	19	Feb. 22	Oct. 24
Louisville	44.6	47.8	58.5	61.8	68.8	71.9	79.8	79.8	74.4	65.2	52.5	43.6	62.4	98	8	Mar. 25	Oct. 25
McNeill	.....	.....	.....	65.2	71.6	76.8	80.4	.....	76.4	68.5	58.2	48.9	.....	98	24	.....	Oct. 25
*Macon	42.6	46.6	59.4	62.8	72.0	75.0	83.6	82.6	73.4	63.7	49.8	39.0	62.5	102	14	Mar. 2	Oct. 25
Magnolia	47.6	52.6	61.8	63.8	71.0	74.8	80.0	80.6	73.2	65.1	54.7	45.6	64.2	97	18	Feb. 24	Oct. 25
*Meridian	45.4	49.1	59.8	62.0	69.7	73.2	79.7	79.6	72.2	63.6	51.6	43.0	62.4	97	15	Mar. 26	Oct. 25
*Natchez	49.8	52.6	63.4	67.8	72.1	74.8	80.5	82.0	76.1	66.2	55.8	46.7	65.6	96	20	Feb. 21	.....
Nittayuma	43.8	46.4	60.0	64.4	72.4	74.8	81.5	81.4	71.4	62.8	50.8	.....	.....	100	11	Mar. 1	Oct. 19
*Okolona	41.3	[3]43.4	58.1	62.1	72.4	.....	83.4	82.8	73.7	62.6	48.8	40.2	.....	103	.....	Mar. 1	Oct. 25
Pearlington	50.0	55.2	63.6	66.6	71.8	[3]77.0	80.8	81.6	75.6	67.3	56.9	47.6	66.2	100	20	Feb. 23	.....
Pittsboro	43.8	46.6	58.0	63.4	69.8	71.6	80.3	80.0	73.4	63.6	50.0	40.9	61.3	99	6	Apr. 4	Oct. 19
Pontotoc	42.6	45.9	57.6	60.9	69.6	70.6	79.8	78.9	73.6	63.2	49.0	40.6	61.0	94	3	Mar. 25	Oct. 24
Poplarville	50.2	53.4	62.5	66.8	72.0	77.6	.....	81.0	.....	.....	.....	.....	.....	.....	20	Mar. 2	.....
*Port Gibson	.....	.....	[3]62.0	64.4	71.4	74.0	80.6	81.5	72.9	63.2	53.2	45.0	.....	97	.....	.....	Oct. 25
Ripley	40.6	42.7	56.1	59.2	68.4	68.8	78.2	76.9	69.6	60.2	46.2	37.1	58.7	93	0	Apr. 4	Oct. 19
Shoccoe	45.8	[3]48.8	62.0	63.0	70.7	73.6	80.7	80.6	71.5	62.2	50.9	43.4	62.8	99	10	.....	Oct. 24
Suffolk	48.0	51.4	61.3	64.0	70.3	73.2	78.8	[3]80.0	74.3	66.6	54.4	45.3	63.9	96	17	Feb. 24	Oct. 25
Swartwout	49.6	56.0	63.8	65.4	70.6	75.8	81.2	81.5	76.2	67.3	59.5	47.5	66.2	99	21	Feb. 23	Nov. 18
Thornton	45.7	49.0	60.9	64.6	71.4	75.8	82.6	82.1	75.0	63.6	51.8	43.2	63.8	96	15	Feb. 24	Oct. 19
Tupelo	41.9	45.6	58.6	60.9	70.0	71.7	80.6	80.4	72.2	62.6	48.6	39.0	61.0	99	4	Mar. 26	Oct. 19
University	43.1	45.1	58.0	61.4	70.3	71.6	80.5	80.5	74.0	64.4	50.3	41.6	61.7	98	3	Mar. 26	Oct. 18
Utica	.....	.....	.....	.....	.....	.....	.....	[3]81.0	74.6	65.6	[3]55.8	48.2	.....	.....	.....	.....	Oct. 19
*Vicksburg	47.4	[3]50.1	61.1	64.4	70.8	73.8	80.6	80.7	74.0	65.2	54.6	47.0	64.1	94	18	Feb. 19	Oct. 25
Walnut Grove	45.2	47.8	61.7	64.4	[3]71.0	73.4	.....	[3]79.1	72.4	[3]65.0	[3]52.6	44.1	.....	.....	15	.....	Oct. 25
Watervalley	43.1	48.4	55.6	.....	69.0	70.7	81.6	81.5	75.0	64.4	48.4	39.5	.....	100	4	Mar. 25	Oct. 25
*Waynesboro	46.2	52.2	61.2	63.2	69.8	74.7	79.8	79.6	72.6	63.8	52.6	41.6	63.1	98	19	Mar. 26	Oct. 25

[1] J. H. Aschenbeck. [2] Robert Somerville. [3] Cotton region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Mississippi—Continued.																	
Westpoint	.....	50.0	60.4	62.8	71.6	73.8	82.5	82.1	.....	62.4	51.3	.....	.....	99	12	Mar. 26	Oct. 18
Woodville	48.4	52.4	61.6	65.3	71.6	74.4	80.0	80.9	74.9	65.6	55.5	46.8	64.8	95	19	Feb. 24	Nov. 18
*Yazoo City	43.8	48.8	59.4	64.5	72.0	74.5	82.0	82.0	72.8	63.2	50.8	42.4	63.0	99	12	Feb. 24	Oct. 24
Missouri.																	
Appleton City	31.6	30.3	46.6	56.0	.....	.....	.....	75.4	67.6	58.7	43.0	32.8	.....	.....	.....	.....	Oct. 18
Arthur	33.0	32.3	47.3	56.8	64.3	67.8	77.6	74.9	67.3	57.9	42.6	33.4	54.6	96	−15	.....	Oct. 16
Avalon	29.4	27.4	45.7	[c]55.9	66.2	69.0	.....	.....	.....	.....	.....	28.3	.....	.....	−15	.....	Oct. 17
Bethany	28.6	24.5	43.0	53.4	63.2	65.2	75.4	70.8	62.0	53.6	37.8	25.5	50.2	97	−18	May 3	Oct. 18
Birchtree	34.2	35.0	49.9	58.6	65.8	67.4	76.8	[a]75.6	[b]66.1	[c]57.2	43.2	34.6	55.4	92	− 8	May 1	Oct. 24
Blue Springs	.....	.....	[g]55.0	62.4	65.6	76.6	73.6	65.0	56.6	40.7	31.0	.....	.....	.....	.....	May 3	Oct. 18
*Brunswick	28.8	25.6	44.8	54.6	64.6	67.6	77.7	73.6	65.4	56.4	39.5	27.4	52.2	97	−15	May 1	Oct. 24
Carrollton	30.0	27.7	46.4	[c]55.6	[d]64.0	[d]68.2	77.5	73.6	[c]66.8	56.6	40.6	29.1	53.0	96	−19	May 3	Oct. 18
Caruthersville	39.4	40.6	53.3	60.2	69.6	70.8	80.8	[c]80.4	70.6	.....	46.6	[f]38.0	.....	.....	.....	.....	.....
*Columbia	30.6	28.8	46.4	54.9	65.0	66.4	77.3	73.9	66.4	57.9	39.9	28.4	52.9	96	−15	May 1	Oct. 18
Conception	.....	24.3	42.0	53.6	63.5	66.8	76.0	72.8	63.6	55.8	37.8	26.4	.....	96	−16	.....	Oct. 18
Darksville	29.3	26.7	46.0	55.1	64.1	66.3	76.2	73.3	65.4	56.4	40.2	27.4	52.2	94	−18	.....	Oct. 18
Dean	36.0	34.8	49.6	58.4	64.2	66.2	77.2	76.0	67.5	58.2	44.1	[f]36.6	55.7	99	−11	May 1	Oct. 18
Desoto	33.2	32.6	49.1	56.1	65.2	66.8	77.6	75.6	68.2	58.8	41.8	32.0	55.6	99	− 3	May 1	Oct. 18
Edgehill	33.6	34.1	48.5	55.2	65.6	65.8	76.2	74.0	65.3	56.0	41.6	32.4	54.0	96	−10	.....	Oct. 18
Edwards	33.4	30.2	47.6	57.1	65.6	66.6	77.0	74.6	66.4	.....	.....	.....	.....	.....	.....	May 1	Oct. 18
Eightmile (*e*)	29.6	28.8	47.2	55.3	65.1	67.8	78.4	75.0	66.4	56.6	43.2	34.8	54.0	.....	−14	May 3	Oct. 18
Eldon	.....	.....	47.7	56.2	[d]64.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 1	.....
Fayette	31.6	29.2	47.4	56.7	65.4	68.2	78.2	74.2	67.7	59.0	42.0	28.4	54.0	96	−14	May 1	Oct. 18
Fulton	31.2	30.1	46.8	56.2	65.4	67.8	77.4	74.8	67.0	57.8	41.8	29.2	53.8	98	−14	May 1	Oct. 18
Gallatin (*a*)	30.0	27.9	46.1	56.4	64.3	68.8	78.8	73.9	66.2	58.8	40.2	28.8	53.4	100	−10	May 1	Oct. 24
Gano	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38.3	32.5	.....	.....	.....	.....	Oct. 27
Glasgow	29.6	27.1	45.9	55.2	65.0	67.6	78.0	74.2	66.4	57.4	39.6	.....	.....	96	−16	May 1	Oct. 18
Gorin	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 1	Oct. 18
Grant City	28.3	23.6	42.4	53.2	62.6	65.7	74.9	71.2	63.0	55.1	38.4	26.0	50.4	95	−13	May 3	Oct. 18
Halfway	[d]35.2	34.0	48.3	56.8	64.2	66.6	76.8	74.5	67.0	[f]60.2	43.6	33.7	55.1	93	− 9	May 1	Oct. 18
*Hannibal	28.6	27.6	46.0	54.8	65.6	67.4	77.0	74.1	66.4	56.6	38.8	26.5	52.4	96	−18	May 1	Oct. 18
*Harrisonville	28.8	26.0	44.3	54.3	64.1	67.8	78.1	74.7	65.8	56.0	39.8	29.6	52.4	98	−22	.....	Oct. 18
Honston	31.6	34.3	48.6	57.6	66.0	67.5	77.9	73.8	65.6	56.2	42.7	33.4	54.8	99	− 6	May 1	Oct. 18
Huntsville	29.5	[c]28.4	45.6	55.8	64.8	66.6	77.2	73.7	66.4	57.2	40.2	27.8	52.8	96	−15	May 1	Oct. 18
*Ironton	33.4	33.3	48.6	56.4	66.1	67.7	78.6	75.9	66.8	57.4	42.0	33.0	54.9	98	− 8	May 4	Sept. 18
Jackson	35.4	36.6	50.8	57.4	66.9	68.8	78.4	76.4	70.0	59.0	44.2	34.4	56.5	97	− 5	May 2	Oct. 18
*Jefferson City	30.5	28.5	46.5	55.3	65.9	67.9	78.2	75.0	67.2	59.2	40.7	30.0	53.7	98	−12	May 1	Oct. 18
Joplin	36.4	34.0	50.6	60.3	65.9	68.6	78.8	76.5	68.9	60.8	.....	37.4	.....	93	2	May 1	Oct. 18
*Kansas City	31.6	28.5	45.4	55.6	64.5	69.0	78.6	75.0	67.0	58.2	41.2	31.9	53.9	97	− 9	Mar. 29	Nov. 6
*Kidder	28.3	25.1	43.6	54.0	63.2	66.4	76.5	72.6	64.0	55.7	38.4	26.9	51.2	98	−16	May 3	Oct. 18
Koshkonong	36.2	36.7	50.8	57.8	65.2	67.8	77.4	75.8	67.6	58.6	44.2	[c]34.2	56.0	95	− 7	May 1	Oct. 24
*Lamar	34.6	32.6	49.2	58.2	65.4	68.6	79.0	76.6	69.4	59.2	43.6	35.1	56.0	98	− 9	.....	Oct. 18
Lebanon	32.8	31.9	48.0	56.9	65.8	67.4	77.2	75.4	67.4	58.2	43.2	31.8	54.7	95	−10	May 1	Oct. 18
*Lexington	31.9	28.2	46.3	56.0	64.4	67.5	77.6	74.1	66.5	58.0	42.1	30.6	53.5	97	−13	May 1	Oct. 24
Liberty	29.6	27.0	45.1	54.2	64.0	67.2	76.8	73.6	65.2	56.0	40.7	30.2	52.5	97	−19	May 3	.....
Louisiana	29.0	28.2	46.4	55.0	65.3	66.4	77.0	74.0	66.1	56.6	39.0	[c]26.5	52.5	98	−22	May 1	Oct. 24
Macon	29.0	26.8	46.4	55.6	64.8	67.2	77.1	73.8	66.0	[d]56.2	38.8	26.9	52.4	98	−17	May 1	Oct. 18
Marblehill	34.8	36.0	50.4	57.2	67.4	68.0	79.5	78.1	68.6	59.2	43.5	33.3	56.3	102	− 6	May 1	Oct. 24
Marshall	29.9	27.8	46.4	56.2	64.0	66.7	76.6	73.4	65.2	56.8	40.2	28.2	52.5	98	−21	May 1	Oct. 18
*Maryville	25.3	21.3	40.2	52.5	62.5	66.2	75.8	71.3	62.2	53.4	36.4	24.4	49.3	96	−12	May 3	Oct. 18
*Mexico	29.5	27.8	46.2	54.8	65.1	67.1	77.6	74.5	67.2	57.6	39.6	28.6	53.0	98	−16	May 1	Oct. 18
Miami (*e*)	29.2	26.0	45.6	56.0	65.2	69.8	80.1	74.9	67.1	57.2	39.6	28.4	53.3	97	−13	May 1	Oct. 18
Mineral Spring	34.9	33.6	49.6	58.2	65.4	66.5	77.2	75.6	67.1	58.8	43.4	35.8	56.5	95	− 7	May 1	Oct. 18
Monroe City	27.6	25.6	44.8	53.6	64.2	66.4	75.8	74.3	65.2	56.9	37.0	23.2	51.3	97	−19	May 1	Oct. 18
Montreal	32.2	30.8	[d]45.2	56.2	64.2	64.6	75.4	73.3	65.3	56.4	41.6	30.2	53.0	95	−25	May 3	Oct. 18
Mountain Grove	33.6	33.2	48.2	55.6	63.9	66.1	76.2	74.2	66.4	57.1	42.2	32.7	54.1	94	− 8	May 1	Oct. 18
Mount Vernon	35.9	32.8	49.6	59.2	65.5	67.2	76.6	76.0	66.9	58.0	43.0	34.3	55.4	101	− 6	May 1	Oct. 9
Neosho	35.8	34.5	49.4	58.5	65.0	66.4	77.6	75.6	67.4	58.8	43.8	36.2	55.8	96	− 9	May 1	Oct. 18
New Haven	32.8	32.4	48.4	58.2	67.6	69.2	79.4	77.2	70.4	60.2	42.8	31.2	55.8	100	−10	May 1	Oct. 27
New Palestine	32.2	32.0	48.3	56.3	65.2	67.4	77.6	75.0	67.6	58.1	42.6	31.8	54.5	99	− 9	May 1	Oct. 18
Oakfield	32.6	32.2	48.4	57.0	66.9	68.1	78.5	75.6	69.2	59.6	42.2	30.6	55.1	98	−12	May 1	.....
Olden	35.2	34.7	49.5	56.3	66.8	68.0	77.4	75.8	67.2	57.2	44.0	34.7	55.6	97	− 8	May 1	Oct. 18
Oregon	29.4	24.2	42.8	54.6	63.4	66.6	75.6	71.8	63.4	55.4	38.5	27.7	51.1	93	−15	May 3	Oct. 18
Palmyra (*e*)	26.8	24.8	43.7	53.0	.....	66.0	77.6	73.4	65.6	56.2	38.1	26.4	.....	.....	.....	.....	Oct. 18
Poplarbluff	.....	37.3	[d]51.2	58.6	67.0	.....	.....	78.0	.....	.....	.....	.....	.....	.....	.....	May 1	.....
Princeton	26.8	28.1	42.3	52.4	64.4	67.0	77.4	73.3	63.6	56.0	36.7	24.7	50.6	102	−14	May 3	Oct. 24
Protem	38.4	37.5	51.5	60.2	65.4	68.0	79.0	76.7	68.3	58.8	[d]42.8	37.4	57.0	100	− 2	.....	Oct. 18
St. Charles	32.0	31.2	47.6	57.2	67.6	68.8	78.4	75.2	70.0	60.2	[c]40.0	29.2	54.8	98	−14	May 1	Oct. 27
*St. Louis	33.7	33.6	49.4	57.4	69.0	70.4	80.8	77.2	69.6	59.2	41.8	29.8	56.0	98	− 6	Apr. 3	Oct. 24
Sedalia	31.2	29.8	46.8	56.4	65.4	67.1	[e]77.0	74.0	66.6	57.2	41.9	31.2	53.7	94	−16	May 1	Oct. 24
Seymour	33.0	32.0	47.7	56.2	[d]3.4	65.3	74.8	73.6	66.0	56.9	41.8	32.6	53.6	92	− 8	May 1	Oct. 18
Sikeston	36.6	37.5	50.8	56.8	67.3	68.3	78.2	77.0	69.6	59.0	45.4	35.4	56.8	96	− 3	.....	Oct. 18
*Springfield	33.9	31.9	48.0	55.9	64.2	67.2	76.8	74.8	67.2	58.4	42.6	34.0	54.6	93	− 3	May 1	Nov. 6
Steffenville	28.2	27.0	47.2	54.7	64.9	66.0	76.2	73.8	65.2	54.8	[d]38.4	26.1	51.9	96	−16	May 1	Oct. 18
Sublett	26.3	25.4	41.6	53.2	63.4	65.6	75.8	72.6	64.2	53.9	37.0	25.0	50.3	97	−17	May 3	Oct. 18
Trenton	28.4	25.5	43.8	54.0	64.3	67.6	76.8	73.0	63.8	54.8	38.5	26.7	51.4	96	−12	May 1	Oct. 9
*Unionville	26.0	22.8	41.8	52.8	64.2	67.0	77.8	72.7	63.6	55.0	36.7	24.9	50.4	98	−14	May 3	Oct. 24
Vichy	32.4	31.0	47.2	56.2	64.8	66.2	.....	[e]74.4	[d]66.2	58.0	41.6	.....	.....	.....	.....	May 1	Oct. 18
Warrensburg	32.2	30.0	47.8	55.8	65.5	67.6	77.8	75.1	67.3	57.6	41.9	31.6	54.2	96	−15	.....	Oct. 18
*Warrenton	29.9	27.8	45.4	54.9	66.4	67.8	79.0	75.3	67.0	56.8	38.8	27.0	53.0	99	−11	May 1	Oct. 18
Willowsprings	33.6	34.2	48.9	56.2	64.4	66.2	75.8	73.6	65.2	[d]56.8	43.4	33.2	54.3	95	− 9	May 4	Oct. 18
Windsor	[c]32.4	30.6	[f]46.3	56.2	64.2	66.0	[e]76.2	73.6	.....	.....	.....	.....	.....	.....	.....	May 1	.....
Zeitonia	.....	34.6	49.4	56.8	66.6	68.1	78.9	76.3	66.0	.....	42.0	32.6	.....	99	−12	May 1	Oct. 18
Montana.																	
Adel	26.5	17.8	23.8	36.6	44.9	.....	56.6	57.0	48.2	45.1	27.5	30.0	.....	.....	−36	July 8	Aug. 28
Anaconda	25.5	20.2	31.4	40.0	.....	62.2	.....	61.0	51.2	48.9	.....	27.8	.....	.....	.....	.....	Aug. 26
Augusta	31.0	24.0	25.7	39.5	47.2	60.0	60.0	60.3	50.6	48.8	27.0	33.0	42.3	93	−39	June 10	Aug. 25

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Montana—Continued.																	
Billings	31.2	24.8	31.8	41.5	[d]48.2	60.4	66.0	65.3	.....	[e]49.7	.....	[g]31.4	.....	105	.....	June 23	Aug. 28
Boulder	25.3	20.2	26.8	39.1	45.8	59.0	60.6	62.4	50.2	46.2	28.3	25.8	40.8	91	−24	June 10	Sept. 13
Bozeman	26.2	18.2	27.6	37.8	47.1	59.6	59.4	63.2	50.4	47.5	27.1	.....	.....	91	−23	May 24	Sept. 11
Butte	27.2	20.7	30.8	38.7	45.8	59.5	60.2	63.1	50.8	47.2	32.3	28.6	42.1	89	− 9	May 24	Sept. 12
Canyon Ferry	25.5	18.8	29.1	42.9	50.4	64.7	64.6	67.7	54.2	47.4	26.0	25.2	43.0	96	−23	May 24	Sept. 14
Chinook	.....	[d]15.6	19.6	45.0	52.4	64.6	66.9	64.8	55.9	49.0	[e]25.6	29.0	.....	98	−28	May 22	Sept. 12
Columbia Falls	27.2	21.9	32.4	39.6	46.8	61.2	59.8	61.6	49.8	43.1	28.2	25.4	41.4	93	− 7	July 15	Sept. 1
Crow Agency	27.8	20.8	32.0	46.4	54.7	66.6	69.4	68.9	56.0	49.2	30.4	29.2	46.0	100	−22	May 20	Sept. 15
Culbertson	11.8	4.1	20.7	43.6	52.4	63.5	65.0	64.2	52.6	45.6	25.9	19.0	39.0	98	−37	June 10	Sept. 4
Dayton	.....	.....	34.6	42.4	48.2	61.3	60.6	63.4	.....	.....	31.9	25.6	.....	92	.....	May 20	.....
Deerlodge	22.6	17.4	29.4	39.5	46.3	59.2	59.8	60.2	50.2	44.0	28.3	22.9	40.0	88	−23	May 24	Sept. 7
Dillon	27.6	21.4	29.2	38.8	48.4	58.4	59.3	62.4	50.8	48.5	31.4	27.4	42.0	89	−18	May 24	Sept. 11
Ekalaka	23.3	12.8	27.2	45.3	.....	.....	.....	.....	.....	48.6	29.2	23.9	.....	.....	−30	.....	.....
Fort Benton	26.3	17.6	20.0	42.6	50.0	.....	64.8	.....	52.8	47.0	27.4	31.9	.....	.....	−26	.....	Sept. 14
Fort Harrison	.....	.....	.....	.....	.....	63.1	64.0	65.8	53.6	47.4	24.8	.....	.....	94	−23	.....	.....
Fort Logan	25.8	20.0	26.0	37.4	.....	.....	.....	58.7	48.8	.....	.....	.....	.....	.....	.....	.....	Sept. 12
Glasgow	.....	6.5	22.4	44.8	[d]55.1	65.2	67.2	65.0	55.0	45.9	24.6	24.0	.....	100	−38	May 25	Sept. 11
Glendive	16.2	2.1	23.2	43.0	51.8	64.8	67.1	66.3	53.1	48.2	28.6	23.4	40.6	102	−43	June 9	Sept. 12
Great falls	31.8	25.9	27.2	43.8	51.0	65.0	65.6	65.5	56.1	51.8	31.6	33.8	45.8	96	−25	May 24	Sept. 14
Hamilton	30.0	25.5	36.0	44.8	51.7	62.4	62.0	65.0	54.0	45.4	29.0	27.4	44.4	94	− 6	May 22	Sept. 14
*Havre	21.6	14.2	19.8	44.0	51.1	64.0	65.6	64.4	54.3	49.8	26.6	30.0	42.1	96	−29	May 21	Sept. 16
Hayden	.....	.....	.....	.....	50.6	63.3	62.0	63.0	51.2	.....	.....	.....	.....	98	.....	May 29	Sept. 2
*Helena	29.1	23.0	29.2	42.2	49.2	63.1	63.5	66.0	54.6	50.7	27.8	29.9	44.0	91	−16	May 24	Sept. 14
*Kalispell	27.6	20.6	32.7	41.1	47.9	61.4	60.2	62.4	50.8	44.4	28.8	25.6	42.0	90	−10	Apr. 29	Oct. 4
Kipp	23.1	18.0	19.0	[f]38.0	.....	[c]57.4	58.6	58.1	48.2	46.8	24.4	29.6	.....	90	−35	June 11	Sept. 4
Lamedeer	29.6	19.8	30.4	46.0	52.7	65.3	69.3	69.2	58.8	.....	32.6	26.8	.....	101	−20	June 10	Sept. 10
Lewistown	27.9	19.4	27.6	41.1	47.6	60.6	60.6	62.2	51.2	48.6	30.2	29.2	42.2	95	−22	May 26	Sept. 12
Livingston	24.1	15.8	25.0	35.6	43.6	.....	.....	.....	54.2	52.8	34.1	32.4	.....	.....	−23	.....	Sept. 12
Manhattan	24.1	19.0	30.4	42.6	50.2	63.0	63.3	.....	.....	.....	.....	.....	.....	.....	.....	May 24	.....
Marysville	23.8	[f]20.6	24.9	37.4	[d]44.0	[d]57.9	[f]58.6	60.8	48.9	45.6	26.6	[b]26.4	39.6	91	.....	May 24	Sept. 11
*Miles City	24.0	11.2	29.4	47.6	55.7	68.4	71.8	70.4	56.8	50.8	31.2	30.0	45.6	104	−30	May 20	Sept. 13
Missoula	24.6	22.8	[b]36.6	43.6	51.8	65.8	.....	.....	.....	48.2	30.3	24.2	.....	.....	− 5	May 20	.....
Ovando	.....	14.7	25.8	36.6	45.2	57.4	58.0	60.6	49.3	43.0	24.4	21.8	.....	93	−25	July 15	Aug. 24
Parrot	29.2	22.6	30.9	40.9	48.8	63.2	62.8	66.4	54.0	[e]50.6	.....	.....	.....	94	.....	May 24	Sept. 12
Philipsburg	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.0	29.4	28.3	.....	.....	.....	.....	.....
Plains	29.0	24.2	34.8	42.2	49.1	60.8	62.5	64.8	52.8	46.5	31.4	33.4	44.3	94	1	May 20	Sept. 14
Poplar	13.4	3.4	[e]21.9	46.0	53.0	65.1	68.6	66.2	53.6	49.0	26.0	22.8	40.8	99	−40	May 20	Sept. 13
Redlodge	26.8	16.2	25.9	37.4	45.8	57.0	59.8	60.8	47.4	46.8	30.8	27.4	40.2	88	−19	June 10	Sept. 4
Ridgelawn	.....	3.2	22.4	45.8	53.4	63.8	67.2	65.4	.....	.....	26.7	20.8	.....	98	−45	May 20	.....
St. Pauls	26.4	19.7	24.0	42.1	49.1	62.0	63.4	62.7	52.4	51.4	31.6	[d]28.4	42.8	93	−19	May 23	Sept. 11
St. Peter	29.5	20.2	25.8	38.2	45.0	57.0	57.8	58.4	49.0	50.2	30.2	30.7	41.0	87	−25	July 8	Sept. 4
Springbrook	17.2	7.8	21.8	43.6	51.8	64.1	66.2	65.6	53.0	47.4	29.4	24.3	41.0	102	−39	June 9	Sept. 12
Summit	24.6	17.6	21.2	33.9	42.7	.....	54.9	53.0	44.0	.....	.....	.....	.....	.....	.....	July 29	Aug. 2
Toston	26.3	19.8	25.1	36.6	43.8	57.0	60.2	63.0	52.8	48.2	27.6	27.8	40.7	91	−26	June 11	Aug. 12
Troy	29.2	25.0	35.7	42.8	.....	.....	60.0	62.4	[c]50.4	44.5	30.6	28.8	.....	.....	− 5	.....	Sept. 1
Twin Bridges	[c]24.3	[c]18.2	[d]29.4	[c]39.4	47.8	60.6	.....	.....	50.0	45.7	26.5	24.4	.....	.....	−24	May 28	Sept. 12
Twodot	25.6	19.0	26.8	36.4	45.4	62.2	60.5	62.8	51.6	.....	.....	32.0	.....	93	.....	June 10	Sept. 4
Utica	29.9	21.4	26.6	40.6	48.6	61.9	62.2	64.8	52.8	49.4	32.0	29.9	43.3	95	−20	May 22	Sept. 11
Wibaux	.....	.....	[c]28.8	41.0	52.2	.....	.....	.....	.....	.....	.....	20.4	.....	.....	.....	.....	.....
Winston	26.4	19.0	[c]21.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wolf Creek	.....	.....	28.3	41.1	47.8	60.6	60.6	62.0	52.8	49.6	29.2	31.9	.....	93	.....	May 24	Sept. 13
Wolsey	.....	.....	.....	.....	.....	55.2	54.4	57.4	43.5	40.6	24.5	21.2	.....	88	.....	July 15	Aug. 28
Yale	27.1	17.8	25.7	39.6	46.4	60.0	62.4	64.1	52.1	47.6	27.7	29.4	41.7	95	−22	June 28	Sept. 12
Nebraska.																	
Agate	26.6	14.0	30.6	44.2	51.1	60.3	68.1	67.2	54.0	47.1	33.8	27.0	43.7	98	−34	June 10	Sept. 10
Agee (*a*)	19.6	13.9	30.6	45.4	57.9	65.4	71.1	70.2	57.8	50.3	31.7	22.6	44.7	100	−22	Apr. 30	Sept. 16
Albion	25.8	18.3	36.0	49.2	58.0	63.4	71.7	69.2	60.6	[e]54.4	[d]35.8	.....	.....	91	−15	May 4	Sept. 16
Alliance	27.4	18.1	35.0	47.6	55.2	64.8	.....	71.4	56.6	50.0	33.6	28.6	.....	.....	.....	May 21	Sept. 13
Alma	28.0	21.4	39.2	52.6	60.0	66.0	76.0	73.6	64.6	55.8	39.0	31.8	50.7	102	−22	May 3	Sept. 16
Ansley	25.7	18.6	33.6	47.4	60.6	63.7	73.0	72.2	60.2	52.4	35.6	29.3	47.7	99	−21	May 3	Sept. 15
Arapahoe	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sept. 15
*Ashland	27.4	21.0	40.6	53.4	62.9	67.1	76.8	72.0	64.3	56.1	38.7	26.6	50.6	98	−13	Apr. 30	Sept. 16
Auburn	29.0	22.8	42.0	55.0	63.1	66.7	77.6	72.4	64.4	55.2	39.3	28.1	51.3	100	−15	May 3	Oct. 9
Aurora	28.8	.....	.....	58.0	59.9	66.4	77.8	73.3	.....	[d]55.8	.....	31.2	.....	.....	.....	May 2	Sept. 16
Bartley	.....	.....	34.8	53.2	59.7	65.0	74.9	72.0	63.3	54.3	38.2	30.8	.....	100	.....	May 4	Sept. 16
Beatrice	28.1	22.8	40.4	52.1	61.7	66.0	76.4	71.8	63.6	55.4	38.6	28.8	50.5	101	−12	May 3	Oct. 9
Beaver	29.8	22.6	38.2	52.6	59.4	64.8	74.8	73.2	65.2	56.8	40.1	32.8	50.9	103	−15	May 1	Sept. 16
Benkleman	29.0	21.6	35.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Blair	23.4	17.6	36.2	51.2	61.2	65.2	74.0	71.0	59.9	54.0	36.4	24.4	47.9	99	−17	May 1	Sept. 16
Bluehill	[k]28.4	22.2	33.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 3	Sept. 16
Bridgeport	29.8	17.5	35.8	47.8	55.0	62.5	71.8	70.5	58.2	50.0	36.6	[b]30.1	47.1	98	−25	May 5	Sept. 16
Brokenbow	26.6	20.5	34.9	49.4	57.4	63.2	71.6	69.9	61.0	53.4	37.8	29.0	47.9	97	−20	May 4	Sept. 16
Callaway	24.1	19.4	32.4	44.9	56.8	64.6	73.0	70.0	58.4	50.9	35.7	29.1	46.6	95	−23	June 11	Sept. 16
Cedar Rapids	24.0	17.3	32.2	46.2	57.7	64.2	71.4	[e]66.6	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Columbus	25.2	19.0	36.0	50.8	61.2	66.5	74.2	70.2	60.6	54.2	37.2	27.8	48.6	96	−14	Apr. 30	Sept. 15
Crete	27.8	22.2	39.8	53.0	61.4	65.8	76.0	71.5	63.1	55.4	38.6	29.0	50.3	97	−12	Apr. 30	Sept. 16
Culbertson	.....	.....	.....	.....	.....	.....	72.6	70.3	60.8	52.4	34.8	29.4	.....	101	.....	.....	Sept. 15
Curtis	[f]28.6	20.0	35.6	[c]51.8	[f]59.9	[b]62.5	[c]72.0	.....	.....	.....	[m]36.6	[m]27.8	.....	.....	.....	May 4	Sept. 16
David City	.....	.....	37.4	50.7	59.8	65.0	73.9	69.6	61.6	54.6	37.6	26.8	.....	.....	.....	May 3	Sept. 16
Dawson	29.2	25.1	42.5	54.0	63.3	67.4	77.1	72.7	64.8	56.6	38.6	28.4	51.6	98	−16	May 3	Oct. 16
*Fairbury	27.0	20.4	39.8	51.9	60.3	65.8	75.0	71.0	62.9	53.7	38.3	[b]28.3	49.5	101	−15	May 2	Sept. 15
*Fairmont	25.0	19.2	36.6	51.0	58.8	64.4	74.1	70.3	60.3	53.6	36.8	28.0	48.2	98	−14	May 1	Sept. 16
Fort Robinson	29.2	16.6	33.1	47.5	52.2	62.2	69.4	70.4	57.0	52.4	35.1	30.7	46.3	99	−21	June 9	Sept. 12
Franklin	27.5	21.8	[c]36.2	[f]51.2	59.1	63.4	74.2	70.8	[e]61.1	[c]57.0	[c]37.8	30.1	49.2	100	−16	May 3	Sept. 16
Fremont	23.8	17.4	37.0	49.9	61.0	66.2	74.2	70.2	61.4	54.5	36.9	25.4	48.2	100	−15	May 2	Sept. 16
Geneva	26.3	19.8	38.4	50.9	59.7	65.4	75.1	71.4	61.4	55.4	37.9	29.2	49.2	99	−15	May 2	Sept. 15

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																
Genoa (near)	26.0	18.8	35.7	51.0	60.0	66.3	74.0	70.1	61.8	55.1	36.8	27.1	48.6	94 −18	Apr. 30	Sept. 16
Gering	31.6	19.7	35.4	49.0	54.2	63.0	71.8	.....	.....	.....	.....	32.2	.....	96 −20	May 3	.....
Gothenburg	26.7	20.0	35.3	48.2	[a]56.6	64.0	72.5	70.6	62.2	55.5	38.4	29.8	48.3	99 −20	May 4	Sept. 16
Grand Island	27.2	19.6	36.0	49.8	58.8	65.6	75.2	71.6	62.3	55.0	38.6	29.4	49.1	98 −17	May 1	Sept. 16
Halsey	.....	.....	.....	50.8	58.0	64.1	72.8	72.2	60.2	52.7	38.5	30.2	.....	.....	May 3	Sept. 16
*Hartington	21.5	16.0	31.5	46.9	59.1	64.5	70.6	68.2	59.4	.....	.....	.....	.....	94 −21	May 3	Sept. 16
Harvard	26.5	19.4	36.4	51.0	59.2	64.1	73.4	70.2	61.0	53.4	36.8	28.4	48.3	96 −15	May 1	Sept. 16
Hastings (*a*)	27.1	19.0	35.7	51.2	59.0	64.0	76.2	72.0	62.0	54.9	37.2	28.7	48.9	96 −13	Apr. 30	Sept. 16
Hay Springs	23.6	14.3	29.0	.....	51.0	59.8	67.9	[f]66.1	[f]53.8	[l]48.8	33.4	27.2	.....	95 −22	June 11	Sept. 12
Hebron	28.0	22.6	39.4	53.4	60.4	65.8	75.8	72.0	63.4	55.2	39.0	30.2	50.4	99 −11	May 3	Sept. 16
Holdrege	28.2	21.0	.....	.....	.....	.....	[j]72.0	63.9	.....	.....	.....	32.0	.....	.....	.....	Sept. 16
Hooper (*a*)	24.7	18.3	36.3	50.4	61.8	67.0	75.0	69.9	60.7	52.0	36.0	24.3	48.0	100 −13	Apr. 30	Sept. 16
Imperial	31.3	21.1	35.6	48.4	58.0	63.4	74.3	72.2	62.0	52.4	38.8	33.3	49.2	100 −18	May 4	Sept. 15
Kearney	29.0	22.4	37.0	.....	.....	64.8	72.3	71.0	63.2	56.2	37.2	30.2	.....	94 −16	Apr. 29	Sept. 16
Kennedy	26.8	20.5	34.6	47.0	57.2	63.7	70.8	69.3	60.2	53.0	35.8	28.2	47.3	97 −18	May 7	Sept. 14
Kimball	29.2	17.0	33.4	44.4	52.8	61.4	70.1	69.3	56.2	49.2	36.5	31.8	45.9	96 −17	May 12	Sept. 14
Kirkwood	[c]23.1	17.0	34.4	50.4	59.6	64.6	71.9	68.0	60.6	54.5	35.2	26.7	47.2	97 −22	May 7	Sept. 16
Leavitt	.....	.....	38.3	49.8	62.8	68.7	75.4	71.9	62.1	55.2	38.4	26.6	.....	.....	May 2	Sept. 15
Lexington	27.6	18.0	34.6	48.2	56.7	63.4	72.3	69.4	60.0	53.2	36.6	29.2	47.4	95 −19	May 3	Sept. 15
*Lincoln	27.4	21.2	39.1	52.4	61.3	66.4	75.5	71.5	63.0	55.6	38.5	28.2	50.0	99 −13	Apr. 30	Oct. 27
Lockridge	.....	.....	[c]38.6	51.6	59.4	64.8	74.9	70.8	62.8	54.3	37.5	28.2	.....	.....	May 3	Sept. 16
Lodgepole	30.1	17.0	34.0	47.0	56.0	60.8	70.6	69.0	[e]57.7	[f]51.0	[b]40.6	30.2	46.9	96 −19	May 19	Sept. 14
Loup	28.1	18.5	34.6	49.4	58.4	64.2	72.4	70.8	60.3	.....	38.4	27.2	.....	96 −20	May 3	Sept. 16
Lynch	20.2	15.6	34.4	.....	.....	65.4	73.3	71.2	62.0	56.0	33.3	25.0	.....	99 −22	May 7	Sept. 16
McCook	32.1	23.6	38.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sept. 16
Madison	23.7	19.4	34.9	48.8	59.4	64.3	71.3	69.1	60.7	52.8	37.0	25.8	47.3	96 −15	Apr. 30	Sept. 16
Madrid	27.8	18.2	35.5	48.0	56.8	61.2	71.6	[f]65.9	61.0	52.1	[k]37.5	[m]27.8	47.2	100 −20	May 2	Sept. 14
Minden	27.4	19.2	36.0	50.4	58.1	63.4	72.6	70.0	61.4	54.6	37.9	30.0	48.4	94 −19	May 1	Sept. 16
Nebraska City	28.7	23.3	40.9	55.1	63.4	66.0	.....	[d]71.2	60.6	53.4	38.8	[f]27.0	.....	99 −12	May 3	Oct. 9
Norfolk	21.9	17.0	34.6	48.8	60.0	65.0	72.8	70.3	60.8	53.4	34.5	23.1	46.8	97 −20	May 3	Sept. 16
North Loup	[b]23.8	20.6	35.9	50.6	58.8	65.7	70.2	70.0	61.2	54.8	.....	28.6	.....	98 −15	May 4	Sept. 16
*North Platte	29.0	20.0	36.3	49.7	57.8	63.9	72.4	71.6	61.6	54.1	38.4	31.6	48.9	98 −11	Apr. 30	Sept. 16
*Oakdale	22.0	16.0	33.7	48.2	59.2	65.0	72.4	69.8	59.3	52.1	34.3	24.1	46.3	95 −16	May 1	Sept. 16
*Omaha	27.1	21.1	39.6	52.8	62.9	67.6	76.4	71.6	63.0	56.4	38.2	26.0	50.2	98 −15	May 1	Nov. 6
*O'Neill	22.0	16.1	35.0	46.9	58.2	64.6	71.5	70.2	61.2	53.6	[e]36.3	28.3	47.0	98 −21	May 7	Sept. 15
Palmyra (*a*)	26.9	20.6	38.8	51.6	61.7	66.7	75.3	70.7	63.2	53.9	37.0	25.4	49.4	96 −14	Apr. 30	Oct. 16
Plattsmouth	26.5	19.4	40.0	52.4	61.5	67.4	77.4	.....	.....	.....	39.8	.....	.....	102 −13	May 2	Oct. 24
Purdum	[e]25.4	[g]20.2	33.4	48.1	[b]57.2	[f]65.6	71.6	70.2	59.8	52.6	36.2	28.6	47.4	98 −17	May 7	Sept. 16
Ravenna	27.2	19.8	35.5	50.1	58.5	64.2	72.8	70.8	61.5	54.1	37.7	28.8	48.4	94 −18	May 3	Sept. 16
Redcloud	27.3	20.8	39.0	51.8	[b]59.8	[m]69.1	75.0	72.2	63.0	55.2	38.8	30.8	50.2	100 −11	May 2	Sept. 15
St. Paul	28.4	22.4	37.0	52.6	60.8	65.7	75.0	71.4	62.6	55.6	38.8	29.6	50.0	97 −14	May 3	Sept. 16
Santee	23.0	17.1	35.8	51.4	61.6	67.2	73.5	70.9	62.2	54.8	35.2	24.0	48.1	96 −20	Apr. 30	Sept. 16
Seward	.....	[d]22.6	37.8	53.7	61.2	69.4	77.4	73.6	.....	56.9	.....	.....	.....	100 −13	Apr. 30	Sept. 16
Springview	.....	16.6	32.8	49.7	58.0	[d]62.4	71.3	69.2	60.2	53.6	35.0	26.2	.....	98 −22	Apr. 30	Sept. 15
Stanton	24.0	18.6	35.8	50.2	60.2	64.8	72.6	68.2	60.8	[d]53.4	35.4	23.4	47.3	95 −17	May 3	Sept. 16
Superior	26.0	20.8	35.6	51.9	59.2	65.6	77.6	72.4	61.6	54.0	38.8	29.6	49.4	102 −15	May 3	Sept. 16
*Tecumseh	23.8	22.4	40.7	52.8	[d]65.8	69.6	.....	.....	.....	.....	.....	.....	.....	.....	May 3	.....
*Tekamah	26.8	20.2	39.8	52.4	62.7	67.1	75.0	72.0	62.9	55.8	38.2	25.8	49.9	100 −19	May 3	Oct. 16
Turlington	27.6	21.9	40.6	53.0	61.8	66.5	75.5	71.2	63.0	55.5	38.6	27.4	50.2	99 −13	May 3	Oct. 9
University Farm	27.8	22.1	40.0	53.2	61.6	66.0	76.0	71.3	63.6	55.5	38.9	27.6	50.3	100 −12	May 3	Sept. 16
*Valentine	23.2	16.0	32.3	47.2	57.7	63.8	71.6	69.7	58.0	52.6	35.4	26.6	46.2	98 −18	Apr. 30	Sept. 14
Wakefield	23.9	17.8	36.4	49.2	60.0	64.8	72.2	69.3	60.5	52.4	35.6	22.4	47.0	95 −20	May 3	Sept. 16
Westpoint	25.9	18.1	38.2	53.1	61.4	66.4	74.6	70.8	62.5	54.6	36.6	24.4	48.7	98 −19	Apr. 30	Sept. 16
Wilber	28.7	22.2	39.5	53.9	64.0	67.9	77.4	.....	.....	.....	.....	.....	.....	.....	Apr. 30	.....
Winnebago	[e]28.8	18.2	36.8	49.8	60.5	63.2	71.6	67.8	59.9	54.0	37.1	22.8	47.5	94 −25	May 4	Sept. 16
Wymour	.....	20.7	.....	53.6	63.6	.....	78.8	.....	.....	.....	.....	.....	.....	.....	Apr. 30	Oct. 16
York	29.0	21.8	39.4	53.8	59.0	.....	.....	71.3	63.3	54.8	39.4	30.1	.....	.....	May 4	Sept. 16
Nevada.																
Amos	27.5	7.6	.....	39.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Austin	31.8	20.3	34.0	41.4	50.8	63.0	65.4	67.6	57.8	51.2	43.4	31.0	46.5	88 −12	May 24	Sept. 14
Battle Mountain	34.7	21.4	41.0	46.2	56.0	70.7	69.7	71.5	62.6	53.0	44.8	32.6	50.4	106 −20	.....	.....
Belmont	28.7	19.0	31.6	[e]40.9	50.0	62.9	65.8	67.9	56.6	49.4	39.8	30.2	45.2	96 −11	May 24	Sept. 11
Beowawe (*a*)	33.7	23.0	40.7	49.2	61.8	72.8	70.7	73.0	.....	.....	42.4	28.9	.....	104 −10	.....	.....
Caliente	.....	.....	.....	51.0	61.7	71.0	73.6	76.6	.....	.....	.....	.....	.....	103	.....	.....
Candelaria	38.0	27.4	40.6	[e]45.7	56.8	68.8	71.5	73.9	64.1	56.8	47.0	35.7	52.2	94 2	May 23	Nov. 8
Carlin	27.6	15.2	.....	.....	49.4	69.6	72.8	65.6	.....	.....	.....	.....	.....	99 −18	.....	.....
*Carson City	34.5	22.0	40.4	48.4	58.2	62.4	63.6	66.0	59.1	52.4	44.1	32.7	47.8	92 −12	May 19	Sept. 14
Carson City[1]	34.3	21.8	40.8	43.8	53.6	62.2	63.0	64.7	58.3	52.0	44.1	32.1	47.6	94 −16	May 27	Sept. 14
Elko (near)	27.4	19.2	36.4	43.5	52.2	63.3	65.6	66.4	55.6	48.4	38.6	29.6	45.5	100 −18	.....	.....
Ely	28.2	15.3	33.3	[e]41.5	49.4	62.2	65.6	68.4	57.0	47.5	39.8	.....	.....	94 −20	May 28	Sept. 9
Eureka	31.5	19.5	33.6	43.0	51.2	64.0	67.0	71.1	59.8	50.8	43.5	29.7	47.1	95 −18	May 25	Sept. 9
Fallon	.....	.....	.....	.....	.....	67.2	67.6	69.4	59.9	52.0	43.8	28.4	.....	97	.....	.....
Fenelon	26.6	15.2	32.2	42.4	.....	.....	68.9	71.7	56.5	.....	.....	.....	.....	95 −18	.....	.....
Golconda (*a*)	31.0	21.5	44.5	47.1	57.2	74.2	74.9	76.4	64.4	51.0	44.9	31.0	51.5	98 −20	.....	.....
Halleck	28.6	17.0	.....	42.4	53.8	71.2	72.5	72.9	58.1	54.2	.....	26.3	.....	101 −22	.....	.....
Hamilton	.....	20.6	30.4	33.2	36.0	53.2	.....	.....	.....	.....	.....	.....	.....	..... −13	.....	.....
Hawthorne	36.4	27.7	43.6	46.9	57.1	67.6	71.4	73.4	63.8	54.4	46.4	32.3	51.8	100 5	May 17	Oct. 30
Humboldt	33.0	16.2	40.6	47.6	56.6	67.2	68.0	69.4	59.7	52.4	42.4	30.0	48.6	96 −11	.....	.....
Lewers Ranch	37.2	23.4	40.1	44.2	.....	[e]63.2	62.7	67.2	60.7	54.9	45.6	35.8	.....	94 −7	May 30	Sept. 14
Lovelocks (*a*)	34.2	24.0	46.6	49.3	59.4	61.2	.....	.....	62.2	52.8	43.1	27.3	.....	..... −10	.....	.....
McAfee's Ranch (*a*)	.....	[e]29.7	40.2	44.9	54.8	65.8	66.0	67.6	55.0	49.0	39.5	27.8	.....	97 −9	May 26	Sept. 12
Martins	36.1	22.9	42.8	45.6	55.8	64.2	66.2	72.2	62.1	57.6	50.3	35.4	50.9	98 −15	May 27	Sept. 14
Mill City	34.0	.....	42.0	47.6	52.0	69.8	73.2	71.7	57.6	46.1	39.2	25.7	.....	100	.....	.....
Monitor Mill	.....	16.2	31.9	37.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	..... −22	.....	.....
Morey	33.2	21.6	34.8	.....	51.6	65.1	70.2	72.4	60.4	58.1	41.8	34.2	.....	103 −9	May 27	Sept. 12
Pallsade	30.2	17.9	36.0	46.5	52.2	63.1	.....	76.2	66.0	61.6	.....	33.0	.....	100 −17	.....	.....

[1] Prof. C. W. Friend.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Nevada—Continued.																	
Palmetto	33.4	25.8	37.4	43.2	51.0	61.4	63.0	65.8	56.4	51.2	41.0	31.2	46.7	93	− 9	May 28	Sept. 6
Potts	28.3	18.0	32.2	39.0	48.0	62.3	63.4	63.8	54.4	45.6	38.8	28.5	43.1	100	−29	May 21	Sept. 18
Reno, State University	34.2	20.1	40.5	43.7	54.0	63.4	65.0	67.3	60.0	53.9	44.4	33.1	48.3	94	−11	.....	.....
Rioville	47.1	44.6	59.2	66.6	75.5	84.8	87.2	91.6	80.0	68.7	.....	.....	.....	114	20	.....	.....
Silver Peak	.....	29.1	43.5	49.8	[b]57.8	73.2	75.5	77.8	66.8	58.0	.....	.....	.....	102	1	.....	.....
Sodaville	35.2	28.1	43.7	50.2	59.6	71.8	76.1	78.8	65.0	56.2	46.9	32.6	53.7	107	0	May 29	Oct. 16
Tecoma	28.6	11.8	32.1	43.6	52.2	66.9	69.4	70.0	56.0	47.4	32.6	24.8	44.6	99	−22	.....	.....
Toano (*c*)	24.2	14.6	32.4	43.4	52.6	.....	78.4	.....	61.0	45.8	35.8	24.0	.....	107	−19	.....	.....
Wabuska (*a*)	31.7	26.4	41.0	46.7	55.0	66.4	65.8	66.7	58.3	57.9	[a]40.0	30.2	48.8	100	− 4	.....	.....
Wadsworth (*a*)	31.8	26.5	42.8	47.8	58.4	68.4	68.8	63.7	62.2	45.9	37.2	30.2	48.6	99	− 3	.....	.....
Wells	27.3	11.4	.....	49.5	41.2	.....	70.2	68.5	.....	40.8	.....	20.5	.....	94	−32	.....	.....
*Winnemucca	30.6	15.8	38.2	43.4	52.8	65.4	66.2	67.6	56.7	51.1	41.0	30.4	46.6	96	−21	May 23	Sept. 14
Wood	28.5	14.7	33.6	41.8	50.6	62.0	63.4	66.0	56.4	49.8	39.6	28.0	44.5	93	−21	May 26	Sept. 8
New Hampshire.																	
Alstead	22.7	25.1	39.8	43.4	57.6	61.0	67.2	60.4	59.4	48.1	32.4	19.8	44.7	92	−13	June 5	Sept. 8
Berlin Mills	15.6	18.0	36.8	40.2	55.2	57.8	64.7	58.1	58.2	45.7	31.6	16.6	41.5	92	−33	June 1	Sept. 8
Bethlehem	16.8	21.5	37.4	40.8	56.2	58.4	64.8	.....	58.2	45.4	29.8	16.4	.....	87	−21	May 31	Sept. 30
Brookline (*a*)	24.7	26.4	41.1	45.8	62.5	61.9	70.6	63.0	61.2	48.8	33.4	22.9	46.9	.....	.....	.....	.....
Chatham	16.0	19.4	36.4	41.4	54.8	57.4	65.0	58.2	58.8	45.7	31.2	17.0	41.8	93	−27	May 26	Sept. 25
*Concord	21.8	25.6	39.8	44.6	57.6	58.8	68.0	61.1	60.8	49.1	34.6	22.0	45.3	95	−18	Apr. 6	Sept. 30
Concord[1]	20.7	24.0	40.1	44.3	57.0	59.0	67.8	60.6	60.1	48.2	33.0	20.7	44.6	96	−18	May 24	Sept. 30
Durham	23.8	28.0	41.4	44.8	56.2	58.4	68.9	62.2	62.3	50.2	37.0	23.3	46.4	92	−11	May 25	Sept. 30
Franklin Falls	20.4	23.9	38.8	42.9	57.8	58.2	66.6	59.7	59.4	47.2	32.8	21.4	44.1	90	−17	May 24	Sept. 30
Grafton	17.6	21.2	37.6	41.8	55.2	57.4	65.5	58.2	58.3	46.8	30.6	18.3	42.4	92	−33	June 5	Sept. 8
Hanover	18.3	25.3	40.4	44.2	57.6	60.4	66.8	60.4	60.0	47.6	31.7	17.7	44.2	95	−24	May 25	Sept. 25
Keene	21.7	24.2	41.0	44.3	57.8	59.6	68.0	61.0	60.0	49.0	32.4	20.6	45.0	94	−20	May 26	Sept. 8
Littleton	15.3	21.4	33.7	40.2	54.3	55.3	64.8	58.7	59.0	46.0	28.8	15.7	41.1	.....	.....	.....	.....
Nashua	24.0	26.6	41.4	45.6	58.6	60.2	70.4	63.0	62.7	50.0	34.8	23.6	46.7	96	−20	May 25	Sept. 29
Newton	23.6	27.0	41.2	45.4	55.4	57.4	68.0	61.0	60.5	48.8	35.2	22.7	45.5	92	−15	June 5	Sept. 8
Peterboro	21.6	23.5	40.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Plymouth	18.2	22.2	38.0	43.4	57.6	59.4	68.0	61.4	60.4	48.0	31.7	18.8	43.9	95	−27	June 5	Sept. 8
Sanbornton	18.6	22.4	37.5	42.6	55.9	57.8	66.0	59.4	59.8	.....	.....	.....	.....	92	−19	May 27	Sept. 30
Stratford	15.3	19.2	37.0	40.9	56.3	59.2	65.2	59.0	60.3	46.4	30.2	15.2	42.0	95	−28	June 5	Sept. 8
New Jersey.																	
*Atlantic City	33.6	36.4	45.3	49.9	59.6	63.2	72.8	70.5	65.7	58.2	42.0	32.4	52.5	93	4	Apr. 5	Nov. 7
Asbury Park	32.6	35.2	45.1	50.0	60.0	62.6	73.8	68.9	65.8	57.5	42.9	31.4	52.1	97	0	Apr. 6	Oct. 29
Barnegat	33.0	35.8	47.4	50.9	61.1	63.5	71.2	68.8	65.4	57.6	[f]45.8	31.2	52.6	95	1	May 2	Oct. 27
Bayonne	29.8	33.2	47.4	51.6	63.6	63.4	74.0	68.8	66.8	56.8	41.0	29.2	52.1	95	− 1	May 2	Oct. 25
Belvidere	27.6	31.8	47.7	51.2	.....	.....	72.6	67.2	64.5	55.0	37.4	25.5	.....	95	− 3	.....	Oct. 25
Bergen Point	29.5	33.0	47.3	51.0	62.8	63.0	73.2	67.8	65.2	55.8	40.4	29.2	51.5	95	− 1	May 2	Oct. 22
Beverly	31.4	35.6	48.9	52.4	65.1	65.9	74.6	70.6	66.6	57.6	41.6	30.7	53.4	96	0	May 2	Oct. 27
Blairstown	26.8	30.3	46.2	50.2	61.6	63.4	72.0	66.4	63.3	53.6	37.0	23.9	49.6	97	− 6	May 2	Oct. 25
Bridgeton	33.2	37.4	50.4	53.4	65.6	67.2	76.6	72.3	67.7	58.4	42.2	31.2	54.6	100	4	May 2	Oct. 27
Camden	32.3	37.0	50.0	53.4	65.9	65.6	76.0	71.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Cape May	34.6	37.4	46.2	50.6	60.1	64.2	73.3	71.1	66.2	58.4	44.0	33.2	53.3	91	8	Apr. 5	Nov. 18
Cape May Court House	33.5	37.6	47.8	51.4	62.2	65.0	74.8	70.9	65.9	57.9	42.3	32.4	53.5	97	5	Apr. 6	Oct. 29
Charlotteburg	26.7	30.0	45.5	47.6	59.8	61.3	69.9	64.2	61.9	52.8	36.4	24.2	48.4	96	− 8	May 3	Sept. 26
Chester	26.5	30.6	45.4	48.4	61.3	61.6	69.8	65.0	.....	53.2	36.0	24.5	.....	92	− 6	May 2	Oct. 24
Clayton	31.7	.....	49.0	51.3	63.3	64.4	73.3	69.2	65.0	56.4	40.2	30.0	.....	94	.....	May 2	Oct. 27
College Farm	29.8	33.0	48.0	50.6	63.4	64.0	73.3	68.4	65.1	55.5	39.6	28.7	51.6	95	− 8	.....	.....
Dover	25.8	30.0	46.0	48.2	61.0	61.2	[g]70.8	63.8	60.9	51.7	35.8	23.3	48.2	97	− 3	May 11	Oct. 22
Egg Harbor City	33.0	36.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elizabeth	30.0	33.6	48.3	52.7	64.3	64.4	74.6	68.2	65.8	56.8	40.7	.....	.....	98	0	Apr. 6	Oct. 25
Englewood	30.8	34.8	47.5	52.2	64.2	64.0	74.1	69.2	66.0	56.6	42.4	27.2	52.4	95	− 2	Apr. 6	Oct. 25
Essex Falls	.....	.....	.....	[d]51.4	62.4	.....	.....	.....	[e]63.4	[f]54.2	[e]38.4	.....	.....	.....	.....	May 2	Oct. 25
Flemington	29.4	31.7	49.1	50.9	63.6	65.1	73.8	68.5	66.0	56.0	40.0	27.8	51.8	99	− 7	May 2	Oct. 25
Freehold	30.4	32.9	47.3	50.6	62.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Friesburg	31.8	36.0	48.9	51.4	63.2	65.3	74.3	70.2	66.0	56.4	41.4	30.2	52.9	98	2	May 2	Oct. 27
Hanover	.....	30.0	[f]47.0	.....	.....	61.6	70.5	.....	62.6	53.7	37.6	.....	.....	93	− 5	May 11	Oct. 22
Hightstown	31.2	33.8	48.7	51.8	64.0	64.4	73.4	68.6	64.7	55.6	40.3	29.1	52.1	94	− 1	May 2	Oct. 25
Imlaystown	31.8	35.2	49.4	52.2	64.6	65.8	74.6	70.1	65.6	56.8	40.6	30.6	53.1	95	− 1	May 2	Oct. 25
Indian Mills	32.4	35.8	50.0	51.6	64.4	64.8	75.0	70.2	66.3	57.6	41.1	30.2	53.3	98	− 3	May 2	Oct. 27
Lakewood	31.8	35.2	48.2	50.2	61.6	62.7	72.4	67.2	65.0	56.8	41.0	30.8	51.9	93	0	May 2	Oct. 27
Lambertville	29.9	33.2	49.0	51.4	64.5	65.7	74.2	69.0	65.6	56.4	40.2	28.8	52.3	96	− 2	May 2	Oct. 25
Layton	24.3	27.8	45.0	47.6	59.6	61.1	68.8	64.0	60.9	51.8	35.0	21.4	47.3	94	−16	May 12	Sept. 25
Moorestown	31.8	34.6	48.8	51.6	64.2	65.0	73.4	69.2	65.8	57.0	41.4	30.0	52.7	94	0	May 2	Oct. 27
Newark	29.0	32.5	47.3	51.0	62.8	62.8	73.6	67.8	65.2	55.5	40.1	28.2	51.8	95	− 1	May 2	Oct. 25
New Brunswick	30.2	33.9	49.4	52.2	65.2	65.2	74.3	69.2	66.0	55.9	40.6	29.0	52.6	96	− 3	May 2	Oct. 25
Newton	25.4	29.8	45.8	49.2	62.2	62.9	71.4	66.6	62.0	52.0	35.4	22.8	48.8	97	− 5	May 2	Oct. 25
Oceanic	31.6	33.8	47.6	50.5	.....	63.0	73.2	67.8	65.2	57.0	42.4	31.2	.....	95	0	Apr. 6	Oct. 28
Paterson	30.8	34.4	48.6	53.0	65.4	64.4	74.8	68.0	66.0	56.6	41.8	29.8	52.8	98	3	May 2	Oct. 25
Pemberton	31.2	34.6	48.6	51.3	63.6	65.4	74.2	69.4	64.8	56.2	40.0	29.8	52.4	96	1	May 2	Oct. 27
Perth Amboy	.....	.....	[h]51.6	52.5	65.6	66.1	75.8	71.0	.....	57.2	.....	.....	.....	.....	.....	.....	.....
Phillipsburg	.....	32.0	47.4	50.6	63.9	64.9	73.4	68.2	65.0	55.2	38.9	26.6	.....	96	− 4	May 2	Oct. 25
Plainfield	28.8	32.6	47.0	50.4	62.4	63.8	73.7	68.2	64.6	54.7	38.5	27.2	51.0	96	− 3	May 2	Oct. 25
Ringwood	27.3	30.1	45.8	48.8	[d]61.3	62.0	[g]70.2	64.4	62.8	52.6	37.6	24.7	49.0	95	− 9	May 2	Sept. 30
Rivervale	29.2	31.1	46.2	49.0	61.6	62.6	70.7	66.4	63.0	54.4	38.0	26.5	49.9	96	−12	May 2	Sept. 30
Salem	32.0	36.6	48.6	52.4	[e]64.5	66.6	76.0	71.0	68.0	58.2	41.7	.....	.....	99	3	May 2	Oct. 25
Sandy Hook	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.0	42.2	31.1	.....	.....	.....	.....	.....
Somerville	29.0	31.8	48.0	50.4	62.3	63.9	72.8	67.8	64.4	54.7	38.7	27.5	50.9	97	− 7	May 11	Oct. 19
South Orange	28.3	32.0	46.9	50.2	61.8	63.0	72.6	66.5	63.1	54.3	38.8	28.0	50.5	93	− 3	May 2	Oct. 25
Sussex	25.8	30.4	45.9	49.2	61.6	62.4	70.6	65.0	63.0	53.8	37.0	26.6	49.2	93	− 6	May 2	Sept. 30
Toms River	32.3	35.3	48.0	49.8	61.1	63.8	73.4	68.4	64.8	56.4	39.4	29.8	51.9	97	0	May 2	Sept. 30
Trenton	34.3	37.9	51.8	54.7	66.4	66.4	75.8	70.3	66.4	58.8	43.6	33.4	55.0	94	2	May 2	Oct. 25

[1] W. W. Flint.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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 Jersey—Continued.																	
Tuckerton	32.7	36.0	47.2	50.8	61.8	64.6	74.2	70.1	65.5	56.4	41.0	31.0	52.6	98	3	May 2	Oct. 27
Vineland	32.8	36.5	49.5	52.0	63.6	64.6	74.4	69.2	65.2	57.0	41.3	30.4	53.0	98	3	May 2	Oct. 27
Woodbine	33.1	36.6	47.6	51.0	61.1	63.8	73.6	69.2	65.0	55.7	40.0	30.0	52.2	96	1	May 2	Sept. 30
New Mexico.																	
Alamagordo	41.2	39.0	52.2	59.8	67.9	75.6	84.0	81.0	73.2	59.1	51.5	.....	.....	109	8	Apr. 18	Oct. 31
Albert	39.1	30.2	45.0	55.7	63.3	66.2	78.2	77.6	73.0	58.7	48.7	°41.5	56.4	101	— 6	Apr. 30	Oct. 28
Albuquerque	36.3	34.6	47.2	56.5	62.4	°68.4	75.2	74.2	64.0	53.9	42.4	33.7	54.1	99	4	Apr. 13	Sept. 17
Alma	38.1	36.3	44.2	54.2	.....	66.6	75.2	74.1	67.2	53.0	°45.6	.....	.....	102	6	June 2	Oct. 24
Arabela	40.8	35.5	47.3	56.0	61.6	63.6	75.6	73.2	67.0	55.6	50.4	40.6	55.6	97	8	Apr. 30	Oct. 4
Carlsbad	45.2	42.2	53.8	65.1	°70.6	74.0	83.0	°82.1	76.0	66.3	57.5	46.4	63.5	105	2	Mar. 30	Oct. 16
Cloudcroft	.....	24.2	32.6	41.1	47.5	52.6	58.6	57.2	50.8	.....	38.6	27.6	.....	78	— 2	.....	Sept. 17
Dorsey	31.4	23.7	40.0	47.7	53.3	60.2	68.7	69.0	61.6	50.6	41.8	33.8	48.5	92	—10	May 28	Sept. 14
Eagle Rock Ranch	31.1	24.2	38.2	47.0	53.6	58.6	69.6	67.4	59.2	48.0	39.6	29.3	47.2	91	—12	June 2	Oct. 16
Engle	.....	.....	47.0	55.8	63.0	68.6	77.6	75.4	67.8	55.6	47.4	35.8	.....	100	2	Apr. 29	Oct. 16
Fort Bayard	38.0	35.6	46.2	54.6	61.3	68.6	75.6	71.4	65.0	56.0	50.1	39.2	55.1	103	6	Apr. 28	Oct. 15
Fort Stanton	35.6	31.2	41.4	°50.8	55.1	60.4	70.6	69.0	61.4	48.0	43.8	33.4	50.1	93	— 9	May 27	Sept. 17
Fort Union	34.6	25.6	40.4	45.9	52.7	58.0	67.4	68.3	59.6	49.8	44.4	34.4	48.4	97	—21	July 4	Sept. 17
Fort Wingate	32.8	31.0	38.9	41.6	49.8	62.7	68.9	69.0	59.6	52.2	44.4	32.4	48.2	89	0	May 27	Sept. 12
Fruitland	30.6	26.8	41.8	.....	59.6	.....	74.5	.....	.....	.....	41.8	31.0	.....	.....	— 5	.....	.....
Galisteo	28.9	27.4	43.7	55.0	.....	.....	73.4	72.0	63.5	54.0	.....	.....	.....	92	3	.....	Oct. 15
Gallinas Springs	36.6	26.0	42.2	53.4	.....	.....	76.8	75.5	65.2	52.8	°46.0	33.6	.....	101	—10	.....	Oct. 12
Las Vegas	33.4	25.6	39.8	48.6	55.4	59.8	70.5	68.8	60.2	50.2	43.8	32.4	49.0	96	—16	May 1	Oct. 4
Las Vegas Hot Springs	35.0	27.9	40.2	47.6	54.4	58.3	°67.6	.....	.....	.....	.....	.....	.....	.....	.....	May 1	.....
Los Lunas	.....	34.8	46.1	57.0	64.0	72.0	76.2	71.8	64.4	54.0	41.7	.....	.....	99	0	Apr. 13	.....
Luna	.....	°30.8	38.3	45.8	52.6	60.7	68.2	66.8	57.8	43.8	39.2	29.4	.....	95	—14	May 30	Sept. 15
Mesilla Park	41.8	41.0	49.6	60.6	65.2	72.2	80.2	78.0	70.9	57.9	50.0	40.9	59.0	103	9	Mar. 24	Oct. 20
Mountainair	°33.5	27.9	40.4	49.8	55.6	61.8	70.1	70.4	60.2	49.1	43.0	31.4	49.4	95	—12	May 25	Sept. 17
Raton	.....	23.0	40.4	48.8	57.7	61.6	72.0	70.4	63.0	52.7	42.2	32.0	.....	99	— 5	May 7	Oct. 14
Roswell	42.8	37.0	49.6	.....	°63.4	69.4	.....	.....	.....	57.5	49.6	38.8	.....	97	— 7	Apr. 30	Oct. 16
San Marcial	39.2	39.4	49.8	61.3	67.1	73.8	82.0	80.6	70.2	56.9	°48.5	°36.0	58.7	108	— 7	Mar. 24	Oct. 16
*Santa Fe	30.4	26.4	39.2	47.0	54.2	61.2	70.6	69.4	59.4	51.2	43.4	31.8	48.7	89	— 4	Apr. 30	Oct. 31
Taos	23.8	25.4	38.6	46.5	54.4	61.7	70.0	°68.9	60.2	51.0	°43.0	29.4	47.7	97	—10	May 24	Sept. 16
Winsors	26.8	21.2	32.1	39.5	45.2	52.0	58.0	58.4	48.6	°43.1	36.8	27.1	40.7	83	—18	Apr. 30	Oct. 31
New York.																	
Addison	24.6	28.6	43.8	45.2	58.6	62.0	69.1	64.4	62.2	51.6	34.6	23.2	47.3	94	—11	May 3	Oct. 5
Adirondack Lodge	16.2	19.9	34.4	37.4	53.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 31	.....
*Albany	24.2	27.0	43.2	48.2	62.2	63.2	71.4	64.8	64.0	52.8	36.5	23.3	48.4	95	— 6	May 2	Oct. 25
Alden	25.6	27.7	43.0	46.8	59.6	61.9	67.4	65.8	62.8	51.7	35.4	23.6	47.5	90	— 8	May 5	Oct. 26
Amsterdam	.....	.....	.....	.....	.....	.....	°65.6	61.8	62.2	50.4	33.6	19.9	.....	.....	.....	.....	Oct. 25
Angelica	23.4	27.0	43.4	44.6	57.4	58.7	66.4	64.6	60.3	.....	31.8	20.5	.....	91	—11	May 31	Sept. 29
Appleton	25.6	28.3	40.6	45.0	56.2	60.7	69.4	63.9	63.4	52.4	37.4	25.6	47.4	92	— 2	May 2	Oct. 27
Arcade	20.8	24.2	39.6	42.0	54.8	58.2	.....	.....	.....	47.8	30.8	19.4	.....	.....	.....	May 31	Oct. 12
Athens	24.2	27.8	44.4	48.8	61.6	62.4	70.8	63.8	63.0	52.7	36.6	23.1	48.3	93	— 7	May 2	Oct. 25
Atlanta	22.6	26.0	41.4	43.4	56.6	59.3	66.6	62.6	60.0	49.5	33.2	21.2	45.2	92	— 9	May 31	Sept. 30
Auburn	24.9	28.3	42.7	46.8	60.6	62.8	69.6	64.2	63.0	51.6	36.3	23.1	47.8	93	— 4	May 2	Oct. 24
Avon	23.6	27.6	41.8	44.2	57.9	61.6	68.0	63.8	61.4	50.9	34.0	22.5	46.4	91	— 7	May 31	Oct. 22
Axton	15.4	18.1	35.3	37.0	°52.2	55.8	61.1	55.5	.....	.....	.....	.....	.....	92	—36	.....	.....
Baldwinsville	23.8	27.6	42.6	45.6	60.2	62.3	69.4	63.9	63.4	52.0	35.9	23.4	47.5	90	—11	May 1	Oct. 23
Beaver	.....	.....	.....	39.8	54.8	57.1	62.2	57.0	.....	44.8	.....	.....	.....	.....	.....	June 4	Aug. 8
Bedford	26.2	30.4	49.2	49.6	.....	61.9	73.4	65.6	62.6	54.0	39.1	26.3	.....	97	— 3	May 3	Oct. 24
Berlin	.....	.....	.....	45.3	57.8	59.4	66.5	60.3	58.9	50.6	33.6	.....	.....	.....	.....	May 3	Sept. 25
*Binghamton	24.3	27.4	43.0	45.4	58.4	61.0	67.8	63.2	61.2	50.8	34.2	22.6	46.6	92	—12	May 2	Oct. 22
Bolivar	22.4	26.4	42.4	42.8	56.0	58.5	°66.0	°62.8	59.5	49.1	32.0	20.6	44.9	92	—11	May 31	Sept. 29
Bouckville	20.7	24.1	39.7	43.2	58.0	60.3	66.1	60.8	60.7	49.0	32.0	18.9	44.5	89	—11	May 2	Sept. 30
Brockport	24.6	27.2	41.8	45.4	59.5	62.6	70.8	65.0	63.3	52.4	35.4	22.8	47.6	94	— 6	May 5	Oct. 26
*Buffalo	26.2	27.0	41.4	44.4	60.4	62.4	68.8	66.2	64.0	53.2	37.6	25.4	48.1	89	— 3	May 2	Oct. 26
Caldwell	20.4	22.7	39.8	45.3	58.2	60.1	67.6	61.0	60.0	50.0	34.4	19.8	44.9	89	—19	May 2	Oct. 22
Canajoharie	20.1	24.2	40.0	44.9	58.9	60.3	66.7	61.0	60.3	50.0	33.4	19.6	45.0	88	—16	May 25	Oct. 22
Canaan Four Corners	22.6	26.2	41.8	°45.0	58.8	59.0	66.6	59.6	°57.7	49.9	32.8	19.2	44.9	87	—11	.....	Oct. 25
Carmel	26.2	28.8	44.8	49.0	61.6	62.0	70.9	64.3	60.0	50.4	35.6	22.0	48.0	93	—10	May 2	Oct. 25
Carvers Falls	19.3	22.5	40.1	43.8	58.1	60.4	66.4	60.4	60.4	48.6	33.2	18.4	44.3	90	—26	May 25	Oct. 15
Cedarhill	23.2	26.6	43.2	47.4	60.8	62.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 2	.....
Chazy	16.8	21.6	37.0	44.2	58.2	62.2	68.0	61.7	61.0	50.0	33.3	16.4	44.2	92	—20	May 24	Oct. 3
Cooperstown	21.7	24.5	39.5	42.6	56.4	59.4	65.4	60.4	58.6	48.8	31.3	20.0	44.0	86	—15	May 1	Oct. 22
Cortland	.....	27.1	44.2	45.1	.....	61.7	69.0	64.0	61.7	50.4	33.0	20.6	.....	94	—13	.....	Sept. 29
Cutchogue	30.7	32.4	44.6	48.0	60.4	61.6	71.4	66.0	64.2	55.6	41.0	30.2	50.5	94	3	Apr. 28	Oct. 29
Dekalb Junction	.....	.....	.....	.....	°58.7	61.7	67.2	62.4	61.2	49.4	32.8	17.4	.....	.....	.....	May 2	Oct. 25
Deruyter	21.6	24.8	40.2	42.4	56.1	58.5	64.1	60.0	59.8	49.0	32.4	19.4	44.0	88	—18	May 31	Oct. 22
Elba	22.4	25.4	39.7	42.4	57.4	59.6	66.6	63.1	61.6	51.1	35.3	22.6	45.6	86	—11	May 2	Oct. 24
Elmira	26.6	29.8	44.9	47.7	61.4	62.9	71.3	65.8	64.5	52.9	36.2	24.2	49.0	96	— 9	May 5	Sept. 30
Fayetteville	24.2	28.1	42.8	45.6	60.3	62.6	69.0	64.2	64.4	52.1	35.2	22.7	47.6	93	—10	May 31	Oct. 5
Franklinville	22.2	28.8	42.2	42.5	55.1	58.6	66.0	62.6	59.8	48.2	31.0	19.0	44.2	89	—13	May 31	Sept. 30
Gabriels	.....	.....	36.5	37.9	53.5	55.8	60.2	55.2	56.5	42.6	28.2	.....	.....	.....	.....	.....	.....
Glens Falls	21.8	25.4	42.2	46.0	°59.2	61.0	68.4	62.1	60.6	49.8	33.6	19.8	45.8	91	—13	May 25	Sept. 30
Gloversville	20.2	23.8	39.2	44.2	58.9	60.0	67.6	60.4	59.6	49.0	32.1	18.7	44.5	92	—16	May 3	Oct. 22
Greenwich	°20.1	24.8	41.8	45.8	58.7	°61.0	68.0	°61.8	60.7	49.5	32.6	°22.9	45.6	88	—16	May 3	Oct. 22
Griffin Corners	20.8	24.5	40.8	42.0	54.3	56.5	63.1	57.9	57.0	47.6	31.0	19.5	42.9	86	—14	May 25	Sept. 19
Harkness	19.4	22.8	38.4	44.4	°59.4	61.6	67.1	60.4	61.2	49.4	33.5	17.8	44.6	92	—18	May 2	Oct. 25
Hemlock Lake	25.7	27.4	42.0	45.3	59.2	62.6	69.8	65.4	62.8	51.8	35.7	24.2	47.7	89	— 4	May 2	Oct. 24
Homer	.....	.....	.....	43.2	56.4	59.4	°66.2	61.0	59.7	49.0	.....	19.8	.....	.....	.....	May 31	Sept. 30
Honeymead Brook	24.7	28.2	43.8	46.6	59.5	61.0	69.4	62.6	60.2	51.4	35.1	21.2	47.0	91	—13	May 2	Sept. 30
Indian Lake	16.8	20.0	35.8	39.1	52.8	55.3	62.5	55.7	55.6	45.2	28.5	18.9	40.1	89	—29	June 3	Aug. 8
*Ithaca	25.0	27.8	42.1	44.6	57.6	60.8	67.4	63.6	61.6	50.6	34.7	23.2	46.6	92	— 5	May 2	Oct. 25
Jamestown	24.0	25.8	44.8	45.4	59.8	61.2	69.1	65.8	62.6	51.4	33.4	21.6	47.1	94	— 8	May 6	Sept. 29
Jeffersonville	.....	.....	.....	.....	.....	.....	66.7	62.8	61.0	50.2	34.0	21.0	.....	.....	.....	.....	Sept. 30
Keene Valley	20.0	23.1	39.3	41.6	55.7	58.7	65.3	58.5	59.2	47.1	31.2	17.4	43.1	88	—22	May 25	Sept. 8
Liberty	20.2	24.2	40.8	43.5	58.2	59.0	°65.6	59.8	59.3	48.6	31.4	19.9	44.2	87	— 9	May 2	Oct. 25

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
Littlefalls (city res.)	19.7	[o]23.6	39.7	45.2	[o]62.4	[s]60.6	65.9	60.9	60.5	49.9	32.4	18.4	44.9	88	−13	May 3	Oct. 26
Lockport	25.0	27.5	41.4	[c]44.7	[o]59.2	62.3	69.7	65.0	63.4	52.1	35.2	24.6	47.5	90	− 2	May 1	Oct. 27
Lowville	18.2	21.8	37.8	41.6	55.8	59.6	65.2	69.8	58.8	47.9	30.8	15.8	42.8	89	−27	May 2	Oct. 22
Lyons	.....	.....	43.5	47.6	[o]60.6	64.4	71.8	66.2	66.1	[o]52.6	36.2	23.6	.....	94	.....	May 6	Oct. 24
Middletown	26.6	29.4	45.2	47.4	61.3	61.6	72.0	64.2	62.6	53.1	37.1	23.2	48.6	94	− 2	May 2	Oct. 21
Mohonk Lake	[b]25.6	28.0	43.0	46.4	59.6	58.6	68.6	61.0	60.7	50.4	36.4	22.6	46.7	88	− 6	May 2	Sept. 29
Moira	.....	22.2	37.1	44.2	57.5	62.2	66.8	62.0	62.0	50.0	32.6	16.5	.....	90	−16	May 25	Oct. 15
Mount Etrick	21.8	24.8	39.7	43.4	58.2	59.6	66.2	61.6	59.4	.....	.....	.....	.....	.....	.....	May 3	.....
New Lisbon	20.2	22.6	39.0	41.2	54.5	57.8	63.2	58.6	56.8	47.2	30.0	18.2	42.4	89	−22	May 31	Sept. 30
*New York	30.6	34.4	47.5	52.2	64.1	64.0	74.2	69.2	65.4	56.6	41.4	30.1	52.5	94	− 2	Apr. 5	Nov. 7
North Hammond	.....	.....	41.4	.....	61.0	.....	.....	65.3	.....	.....	[o]31.3	17.6	.....	.....	.....	May 25	.....
Number Four	18.2	.....	.....	40.8	56.8	58.8	62.8	57.8	56.4	45.2	29.5	14.5	.....	.....	.....	May 2	Oct. 15
Nunda	25.7	28.5	43.4	44.6	[o]59.2	61.6	[o]69.2	.....	62.0	51.7	.....	20.1	.....	.....	.....	May 2	Sept. 29
Ogdensburg	16.4	21.3	37.8	43.2	58.2	62.8	68.6	62.8	60.7	50.2	33.7	15.8	44.3	88	−19	May 2	Oct. 22
Oneonta	23.4	26.4	42.0	44.8	59.1	60.8	67.4	63.0	62.4	50.8	34.8	21.7	46.3	94	−13	May 6	Sept. 30
Oswegatchie	.....	.....	38.9	[o]40.9	.....	60.6	[f]65.3	59.8	.....	48.2	31.0	16.0	.....	.....	.....	.....	.....
*Oswego	23.5	26.6	40.4	43.2	56.2	60.0	67.0	63.0	62.3	51.6	36.2	23.2	46.1	87	− 8	Apr. 6	Oct. 27
Otto	23.2	23.8	41.8	44.0	60.2	61.6	68.6	65.0	62.8	50.4	.....	21.0	.....	89	− 8	May 2	Oct. 24
Oxford	20.8	25.2	41.0	44.0	57.3	60.6	66.2	61.6	60.4	49.7	32.2	21.0	45.0	89	−20	May 6	Sept. 30
Oyster Bay	.....	.....	.....	.....	61.6	61.4	73.0	67.4	65.4	.....	41.2	29.6	.....	.....	.....	May 3	.....
Paul Smiths	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	June 28	Aug. 6
Penn Yan	24.5	27.3	41.4	45.5	59.7	62.8	70.4	65.6	63.8	52.6	37.8	24.4	48.0	95	− 3	May 2	Oct. 24
Perry City	23.4	26.6	40.8	43.2	57.2	60.3	66.7	61.7	59.9	49.7	33.0	21.2	45.3	92	−12	May 2	Oct. 22
Plattsburg Barracks	21.2	20.0	35.4	41.2	54.8	60.4	67.2	60.9	58.6	.....	31.0	.....	.....	91	.....	May 26	.....
Port Jervis	25.4	28.8	44.8	48.6	61.0	61.6	70.5	64.6	63.3	53.0	35.8	23.0	48.4	94	− 6	May 2	Oct. 25
Potsdam	.....	.....	.....	.....	57.2	62.0	67.7	62.2	61.6	49.6	32.6	15.6	.....	.....	.....	May 25	Oct. 15
Primrose	28.0	30.8	44.6	48.8	61.0	61.7	71.8	65.9	63.2	53.8	38.5	26.8	49.6	98	− 3	May 2	Oct. 25
Richmondville	22.0	26.0	42.0	44.6	58.8	59.9	66.7	60.9	60.3	49.7	33.0	20.4	45.4	89	− 8	May 2	Oct. 25
Ridgeway	24.6	27.1	41.4	44.2	58.2	[o]61.2	[o]69.6	64.6	63.5	52.2	36.6	24.4	47.3	91	− 5	May 2	Oct. 27
*Rochester	25.6	27.9	42.4	45.4	59.5	62.9	70.0	65.3	64.0	52.5	36.3	23.9	48.0	92	− 3	May 2	Oct. 25
Rome	22.2	24.3	42.0	45.8	61.0	63.2	69.5	63.5	62.6	50.4	34.1	21.2	46.6	90	−10	May 2	Oct. 22
Romulus	25.2	28.8	42.5	46.2	60.2	63.2	[o]71.3	65.0	63.2	52.0	36.5	24.6	48.2	94	− 4	May 2	Oct. 25
Saranac Lake	17.3	20.4	38.0	40.3	55.4	58.1	63.9	57.4	57.8	46.0	29.8	14.4	41.6	89	−24	June 1	Sept. 8
Saratoga Springs	20.7	25.6	.....	.....	.....	61.2	68.6	60.6	60.3	50.3	33.8	20.3	.....	93	−25	May 2	Oct. 22
Setauket	30.5	32.8	45.3	48.7	60.1	61.2	72.0	66.4	63.8	55.4	41.0	30.4	50.6	92	3	.....	Nov. 7
Shortsville	25.2	28.3	42.1	45.2	59.4	61.6	69.0	64.2	63.2	51.8	35.7	23.1	47.4	89	− 3	May 31	Oct. 27
Southampton	31.2	32.6	43.6	47.2	58.1	61.0	70.6	66.4	63.2	55.3	40.8	30.2	50.0	91	− 3	May 26	Oct. 28
South Butler	23.6	27.2	41.6	43.5	.....	.....	67.7	64.4	62.4	51.9	36.1	22.8	.....	90	− 5	.....	Oct. 21
South Canisteo	22.4	25.9	41.0	42.0	[o]58.8	60.8	66.4	62.6	60.2	49.9	32.4	21.0	45.3	89	−11	May 22	Sept. 29
South Kortright	21.7	24.8	41.8	42.4	56.6	58.6	64.8	59.4	58.4	48.3	31.6	19.3	44.0	90	−21	May 25	Sept. 25
South Schroon	18.3	21.6	37.6	42.1	55.8	57.6	65.4	57.9	57.8	47.0	31.8	16.8	42.5	90	−19	May 25	Sept. 8
Spier Falls	21.2	25.2	41.6	45.8	60.0	60.9	69.0	61.6	61.2	50.4	33.6	19.9	45.9	95	−18	May 2	Sept. 30
Straits Corners	22.0	[o]27.8	[o]40.8	[f]43.6	[o]56.0	58.4	[o]65.6	[o]61.2	59.3	[o]49.4	[o]30.2	[d]19.8	44.5	94	−14	May 31	Sept. 30
*Syracuse	24.1	27.2	42.1	44.5	58.6	61.7	67.8	63.3	62.3	51.6	36.0	23.2	46.9	89	− 6	May 2	Oct. 25
Ticonderoga	21.4	25.0	40.6	45.5	60.0	61.6	69.4	62.4	62.6	51.4	35.7	21.2	46.4	92	−17	May 24	Oct. 25
Volusia	23.1	24.6	41.2	45.1	57.9	59.6	66.7	63.2	61.1	50.6	33.6	21.8	45.7	85	− 8	May 2	Sept. 29
Walton	22.8	25.8	41.8	44.0	56.2	59.3	65.7	61.0	59.6	49.2	32.0	20.2	44.8	90	−14	May 31	Sept. 25
Wappingers Falls	25.2	30.0	45.6	48.8	61.0	61.5	70.4	63.7	62.6	51.6	37.2	21.2	48.2	93	−16	May 2	Oct. 25
Watertown	21.4	24.9	40.2	43.9	58.8	62.6	68.4	63.5	62.0	49.8	33.4	19.4	45.7	87	−19	May 5	Oct. 27
Waverly	24.9	28.2	43.8	45.7	59.9	62.4	69.0	64.3	61.8	51.5	34.1	22.8	47.4	95	−11	May 2	Oct. 22
Wedgwood	22.1	25.6	40.2	43.0	56.6	59.4	66.9	63.0	61.1	49.6	33.3	20.4	45.1	90	−10	May 5	Oct. 24
Wells	19.8	.....	.....	42.5	55.8	58.1	65.1	58.5	57.9	48.2	30.8	16.3	.....	.....	.....	June 5	Sept. 25
West Berne	22.4	25.4	40.8	43.4	55.7	57.6	65.2	59.4	59.6	49.6	32.4	18.8	44.2	91	−18	June 5	Sept. 30
Westfield	25.2	26.6	41.8	44.9	57.8	61.8	68.6	65.4	63.4	52.5	35.9	23.6	47.3	88	− 6	.....	Oct. 27
Windham	23.7	26.4	42.5	43.2	56.4	59.6	65.8	60.5	58.7	49.5	33.8	21.0	45.1	90	−16	May 31	Sept. 30
North Carolina.																	
*Asheville	36.4	41.3	52.4	52.5	63.8	64.6	72.6	72.6	64.6	54.2	41.4	33.1	54.1	90	5	Apr. 24	Oct. 19
Biltmore	36.2	40.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brevard	32.6	38.2	53.9	.....	.....	63.6	.....	[o]74.4	65.2	54.2	42.6	[f]32.6	.....	.....	.....	.....	Oct. 11
Brewers	36.6	41.8	53.1	54.9	66.1	67.6	75.1	74.2	67.6	58.7	42.4	34.6	56.1	99	6	Apr. 24	Oct. 13
Chapelhill	[d]40.0	42.3	56.7	59.2	69.0	72.0	.....	.....	71.4	59.8	47.2	[f]37.7	.....	.....	.....	Apr. 5	Oct. 27
*Charlotte	39.8	46.3	57.4	58.8	69.8	71.8	79.7	78.8	70.4	60.8	47.6	38.6	60.0	96	17	Mar. 2	Nov. 7
Edenton	44.3	46.7	58.6	58.9	68.4	73.0	80.6	79.6	71.6	60.4	48.8	[o]39.0	60.8	96	13	Apr. 5	Oct. 29
Fayetteville	43.6	48.8	60.7	60.6	70.2	72.8	79.2	78.6	71.3	61.2	49.6	39.4	61.3	97	15	Apr. 5	Oct. 28
Flatrock	.....	.....	.....	54.6	63.8	[s]64.2	72.5	73.1	64.3	55.8	.....	.....	.....	.....	.....	Apr. 24	.....
*Goldsboro	42.5	47.2	58.0	58.0	69.2	72.2	80.2	78.4	70.2	59.2	47.7	[o]37.6	60.0	96	17	Apr. 5	Oct. 27
*Greensboro	37.4	43.2	55.0	56.5	67.2	69.6	77.8	75.7	68.4	58.4	46.4	35.3	57.6	95	14	Apr. 5	Oct. 19
*Hatteras	45.7	49.8	58.2	60.4	67.8	73.4	79.6	79.5	72.8	64.0	51.8	42.8	62.2	91	22	Feb. 20	Nov. 27
Henderson	39.8	45.2	57.0	57.9	67.6	71.0	78.9	77.5	68.8	58.8	46.6	36.0	58.8	97	13	Apr. 5	Oct. 25
Hendersonville	38.5	42.8	52.4	54.6	64.2	66.1	73.4	73.4	65.0	55.6	42.4	33.6	55.2	93	6	Apr. 24	Oct. 19
Henrietta	40.9	44.9	56.6	57.4	69.8	71.0	[o]79.0	78.9	71.4	60.4	46.1	35.7	59.3	99	15	Apr. 24	Oct. 19
Highlands	31.5	35.9	47.4	46.6	56.1	59.6	65.3	65.2	58.9	47.8	36.8	28.2	48.3	84	−2	May 10	Sept. 17
Horsecove	36.2	41.6	50.6	52.4	62.4	64.0	71.6	71.6	63.6	56.1	42.7	34.8	54.0	87	4	Apr. 21	Oct. 18
Hot Springs	39.2	44.4	56.0	54.0	67.5	68.8	75.6	74.8	68.2	59.6	48.8	34.4	57.6	91	9	.....	.....
Jefferson	35.1	38.8	49.8	50.4	61.0	62.4	69.5	70.0	61.8	53.1	38.8	30.6	51.8	89	3	Apr. 5	Oct. 13
Kinston	43.0	48.4	60.0	56.7	67.6	.....	[o]79.4	79.6	71.5	57.4	.....	36.2	.....	97	14	Apr. 5	Oct. 28
*Kittyhawk	42.5	45.2	54.4	56.9	65.4	70.2	79.2	78.5	72.6	63.6	49.7	41.0	59.9	95	18	Feb. 25	Oct. 27
Lenoir	36.6	40.6	53.4	53.8	[d]67.6	68.9	75.4	75.0	67.0	57.1	44.8	35.9	56.4	96	9	Apr. 24	.....
Lexington	40.0	.....	57.1	58.1	69.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 5	.....
Linville	30.4	34.7	45.1	44.2	[o]56.8	57.9	63.8	65.0	57.8	48.3	[o]35.0	26.7	47.1	89	−7	May 5	Sept. 19
Littleton	38.6	42.4	53.4	56.3	67.3	70.2	78.6	75.6	68.2	58.8	44.6	36.0	57.5	99	12	Apr. 5	Oct. 27
Louisburg	40.2	45.4	56.9	58.0	68.1	71.4	79.6	77.6	69.8	58.6	45.6	36.6	59.0	98	14	Apr. 5	Oct. 27
*Lumberton	42.0	46.8	60.4	59.4	70.4	74.4	81.4	80.5	71.6	58.6	47.6	37.1	60.8	99	16	Apr. 5	Oct. 28
Marion	38.7	44.0	53.2	56.8	66.8	68.2	76.4	76.0	68.3	[o]59.3	45.6	35.8	57.4	98	7	Apr. 24	Oct. 27
Marshall	.....	[j]39.2	[o]53.4	51.6	[o]63.3	[k]65.6	.....	.....	.....	.....	[f]38.6	[b]33.6	.....	.....	.....	Apr. 24	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.		
North Carolina—Cont'd.																	
Mocksville	38.6	43.0	[e]54.6	[b]54.4	67.0	[b]70.8	[d]77.9	76.4	70.8	.....	.....	.....	.....	.....	.....	Apr. 24	.....
Moncure	40.2	45.6	58.1	58.2	68.2	72.4	79.0	76.9	68.0	59.2	49.0	36.6	59.0	102	13	Apr. 5	Oct. 27
Monroe	39.5	44.2	58.5	57.0	69.5	70.2	79.0	78.6	69.7	58.4	47.7	36.7	59.1	99	9	Apr. 24	Oct. 27
Morganton	38.8	44.3	54.2	56.8	67.1	69.6	76.3	75.9	67.6	58.0	45.4	35.4	57.4	97	10	Apr. 24	Oct. 25
Mountairy	36.4	42.3	53.0	58.1	66.3	69.0	[d]75.2	74.4	67.0	58.0	42.8	[b]33.4	56.3	95	10	Apr. 30	Oct. 19
Nantahala Park	.....	.....	.....	.....	.....	.....	[b]65.3	66.0	59.2	50.1	.....	.....	.....	.....	.....	.....	.....
*Newbern	45.4	49.4	60.5	60.1	69.2	73.4	79.6	79.3	72.2	61.1	49.1	42.6	61.8	97	18	Apr. 5	Oct. 28
Patterson (*a*)	33.8	38.6	48.8	52.1	62.1	63.2	69.9	69.4	62.2	52.9	40.0	30.6	51.8	93	8	Apr. 24	Oct. 19
Penelo	42.4	.....	.....	.....	68.0	70.9	80.0	[e]79.0	[e]69.8	.....	.....	.....	.....	.....	.....	.....	.....
Pinehurst	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.6	49.7	39.4	.....	.....	.....	.....	.....
Pittsboro	41.8	45.3	57.5	58.4	69.1	72.2	79.7	[e]77.5	70.8	60.4	47.7	[e]36.8	59.8	101	12	Apr. 5	Oct. 30
*Raleigh	40.6	46.2	57.4	58.8	68.8	72.0	79.4	78.3	70.5	59.8	47.2	37.8	59.7	99	14	Apr. 5	Oct. 28
Reidsville	38.0	43.8	54.8	56.8	67.0	69.6	77.6	76.4	68.5	.....	.....	35.8	.....	.....	.....	Apr. 5	.....
Rockingham	42.5	47.7	60.6	60.0	70.9	73.3	80.6	79.4	71.4	60.7	49.2	38.3	61.2	100	14	Apr. 5	Oct. 27
Roxboro	37.5	43.8	54.6	57.0	66.7	69.5	78.2	75.6	68.2	58.8	[b]48.6	.....	.....	.....	.....	Apr. 5	Oct. 27
Salem	37.4	43.4	54.2	56.8	67.3	70.4	78.2	76.4	67.8	57.9	44.2	34.4	57.4	95	13	Apr. 5	Oct. 27
Salisbury	[1]40.0	47.0	57.7	59.4	69.6	72.8	81.0	79.2	71.0	61.0	47.1	38.2	60.3	100	12	Apr. 7	Oct. 27
Saxon	36.6	41.6	52.6	55.3	66.8	68.4	75.9	74.8	67.8	57.7	43.6	33.2	56.2	97	8	Apr. 24	Oct. 19
Selma	40.8	[b]49.6	58.7	58.4	68.8	72.2	81.1	80.2	71.3	59.4	47.0	37.8	60.4	102	15	Apr. 5	Oct. 27
Settle (*c*)	38.0	44.4	55.2	58.1	69.4	72.1	80.0	78.4	70.4	61.0	46.1	36.0	59.1	100	13	Apr. 5	Oct. 27
Sloan	46.4	50.4	59.8	59.4	69.2	[e]74.6	78.8	79.0	71.2	61.8	49.8	39.2	61.6	100	14	Apr. 5	Oct. 27
Soapstone Mount	36.6	43.5	54.2	56.2	66.7	69.8	77.2	76.0	68.1	58.9	45.2	36.0	57.4	96	10	Apr. 24	Oct. 19
Southern Pines[1]	42.8	48.3	60.4	60.8	70.5	73.9	80.0	79.4	72.4	61.8	50.0	39.9	61.7	100	14	Apr. 5	Oct. 27
Southern Pines[2]	42.8	48.5	59.8	60.4	70.2	73.2	80.1	79.1	72.3	61.3	[b]48.0	38.1	61.2	99	14	Apr. 5	Oct. 25
Southport	47.0	51.3	60.2	61.6	70.5	75.4	81.6	81.4	[e]73.8	64.6	52.6	43.1	63.6	95	17	Apr. 5	Nov. 7
Springhope	42.9	46.9	58.8	58.8	68.3	71.8	80.2	79.6	71.9	59.8	49.2	37.5	60.5	98	17	Apr. 5	Oct. 27
Statesville	38.8	43.4	54.6	56.2	66.3	69.6	76.8	75.8	68.0	59.1	45.1	35.4	57.4	96	9	Apr. 24	Oct. 27
Tarboro	43.4	47.4	[e]59.6	59.4	70.6	73.2	81.6	80.3	73.7	60.8	48.0	38.0	61.3	100	15	Apr. 5	Oct. 27
Washington	46.0	50.8	60.9	61.7	71.2	76.3	84.2	79.4	72.1	62.0	49.6	40.8	62.9	101	17	Apr. 5	Oct. 27
Waynesville	37.4	42.2	54.3	54.8	63.7	63.8	70.2	69.8	63.0	54.3	42.7	31.2	54.0	90	6	Apr. 24	Oct. 11
*Weldon	39.2	42.6	54.9	56.6	67.3	71.1	80.2	78.8	71.6	59.0	45.8	35.5	58.6	101	15	Apr. 18	Oct. 19
Whiteville	.....	.....	.....	.....	.....	.....	79.7	80.0	71.4	62.9	49.2	40.4	.....	.....	.....	.....	Oct. 28
*Wilmington	46.2	51.7	60.6	61.0	69.2	74.2	80.0	79.8	72.2	62.3	50.9	42.6	62.6	97	19	Feb. 23	Nov. 8
North Dakota.																	
Amenia	8.6	5.8	25.6	42.5	55.3	62.6	66.5	64.2	53.1	46.4	23.4	9.2	38.6	95	−32	May 13	Sept. 4
Ashley	12.0	3.6	22.4	[d]39.6	53.8	60.5	66.4	62.6	50.8	45.9	24.6	9.0	37.6	100	−37	June 11	Sept. 11
Berlin	9.0	2.2	23.2	41.4	53.8	60.3	65.2	63.4	51.6	46.4	22.8	9.2	37.4	100	−40	June 11	Sept. 4
*Bismarck	14.2	2.6	25.2	44.0	54.6	63.8	67.8	64.7	52.8	49.0	26.5	14.0	39.9	99	−41	May 5	Sept. 14
Bottineau	6.6	−1.1	16.4	42.0	51.5	61.3	.....	.....	.....	[m]44.8	.....	.....	.....	.....	−46	May 10	Sept. 4
Buxton	9.0	6.0	24.6	42.6	55.4	62.2	.....	64.2	53.5	47.4	23.6	6.4	.....	93	−30	May 11	Sept. 4
Cando	[d]1.2	−2.0	[e]18.8	41.2	52.0	[e]61.4	.....	.....	.....	.....	.....	.....	.....	.....	−47	June 11	.....
Churchs Ferry	5.8	−0.6	18.0	41.0	53.7	[d]62.7	65.6	62.9	49.4	44.0	23.6	[f]7.6	36.1	96	−39	May 20	Sept. 13
Coalharbor	12.1	1.1	21.8	44.4	.....	.....	66.3	67.4	57.8	52.9	.....	.....	.....	96	−40	.....	Sept. 14
Cooperstown	.....	.....	.....	.....	.....	.....	.....	.....	.....	44.0	.....	.....	.....	.....	.....	.....	.....
*Devils Lake	5.7	−0.2	19.8	41.6	54.8	63.4	67.0	63.8	49.7	44.7	25.0	7.8	36.9	96	−40	May 10	Sept. 4
Dickinson	.....	.....	[b]26.8	46.0	54.2	63.4	69.6	66.2	53.6	49.6	28.5	19.7	.....	98	.....	May 20	Sept. 4
Dunseith	4.6	−2.3	17.9	42.2	51.6	61.3	63.5	62.0	.....	.....	22.1	9.0	.....	96	−49	May 21	.....
Edgely	11.8	6.6	25.6	44.0	55.6	63.3	67.2	65.5	53.4	48.8	25.6	12.8	40.0	101	−30	May 12	Sept. 13
Elbowoods	9.7	−1.2	20.5	42.4	52.7	.....	64.8	65.6	52.4	45.8	26.3	16.6	.....	.....	.....	May 20	Sept. 13
Ellendale	11.6	6.1	27.1	44.8	57.0	64.0	67.4	65.8	55.9	49.6	29.8	13.8	41.1	101	−31	May 12	Sept. 13
Fargo	7.0	2.5	22.1	42.7	55.7	62.3	65.8	62.2	52.0	[e]45.2	23.6	7.8	37.4	97	−38	May 6	Sept. 4
Forman	8.4	[e]4.5	26.1	43.2	57.2	63.6	67.0	64.8	54.2	49.4	26.3	11.6	39.7	94	−38	May 6	Sept. 13
Fort Yates	17.7	9.4	27.1	46.4	57.4	66.6	70.8	[1]63.6	55.1	50.4	30.5	18.4	42.7	103	30	May 12	Sept. 17
Fullerton	10.4	3.2	23.9	42.8	56.0	62.1	66.1	63.6	52.4	47.4	26.4	11.8	38.8	98	−37	May 12	Sept. 14
Gallatin	6.6	.....	22.2	39.2	52.4	59.9	63.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glenullin	17.0	7.7	26.2	44.5	54.5	63.5	.....	64.6	52.0	48.7	29.0	18.1	.....	97	−30	May 5	Sept. 12
Grafton	5.2	5.0	21.6	41.0	56.1	63.8	67.8	62.8	51.6	45.5	21.8	[e]4.6	37.2	94	−30	May 12	Sept. 5
Hamilton	3.0	3.8	19.6	40.8	.....	.....	.....	62.6	50.0	45.0	20.8	4.0	.....	.....	−33	.....	Sept. 5
Hannaford	7.7	1.9	22.0	.....	.....	.....	.....	.....	.....	.....	.....	[1]6.0	.....	.....	.....	.....	.....
Jamestown	9.0	1.4	21.4	44.1	56.6	61.2	67.6	65.8	53.2	48.5	26.0	15.2	39.2	102	−36	June 2	Sept. 18
*Langdon	.....	.....	.....	.....	52.0	.....	63.3	59.8	46.6	.....	.....	.....	.....	.....	.....	.....	.....
*Larimore	6.3	3.2	20.4	40.5	53.1	61.4	66.2	61.9	50.6	45.3	23.9	7.4	36.7	96	−36	May 13	Sept. 4
*Lisbon	.....	.....	.....	41.6	56.0	62.0	66.3	64.5	52.3	47.0	26.8	9.0	.....	97	.....	June 11	Sept. 13
McKinney	6.3	1.0	15.5	40.0	50.8	60.6	62.9	61.9	48.4	45.6	23.4	11.8	35.7	96	−43	June 1	Sept. 5
Manfred	.....	.....	.....	.....	.....	62.5	66.4	62.9	50.8	46.6	25.8	10.3	.....	96	.....	.....	Sept. 4
Mayville	7.6	6.1	22.8	40.6	50.8	58.8	62.4	[d]59.6	52.2	48.8	26.4	[d]10.2	37.2	96	−30	June 2	Sept. 4
Medora	18.4	7.0	28.0	45.4	55.0	64.1	67.8	65.9	53.8	46.1	29.0	22.4	41.9	99	−44	June 9	Sept. 12
Melville	11.3	3.4	23.0	43.0	56.0	[b]65.0	68.6	65.6	[e]52.2	[b]48.8	[f]24.4	10.9	39.4	101	−35	May 6	Sept. 13
Milton	3.1	−0.4	18.2	[f]38.0	.....	61.5	64.4	61.8	47.8	45.3	.....	.....	.....	93	−40	.....	Sept. 4
Minnewaukon	[e]8.2	2.2	21.6	43.0	56.0	63.6	[e]66.8	63.8	50.8	46.9	25.9	11.0	38.3	96	−39	May 20	Sept. 12
Minot	13.0	5.2	22.0	46.4	55.7	67.4	73.2	66.6	53.1	.....	.....	.....	.....	103	−34	May 5	Sept. 12
Minto	6.2	3.6	20.6	39.8	[d]52.8	62.0	66.0	62.8	51.6	44.8	21.8	4.6	36.4	95	−32	June 11	Sept. 13
Napoleon	13.0	3.7	23.6	44.2	55.4	63.8	69.4	65.2	52.4	48.0	26.2	9.2	39.5	108	−38	May 13	Sept. 4
New England	16.2	6.6	25.8	41.8	[b]49.2	[b]60.3	66.8	63.2	[d]50.2	[1]47.0	27.6	17.4	39.3	98	−42	May 25	Sept. 12
Oakdale	18.2	11.2	24.3	44.6	54.3	62.6	66.0	64.0	52.4	50.2	30.1	21.0	41.6	95	−32	May 23	Sept. 12
Park River	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[1]21.4	5.2	.....	.....	.....	.....	.....
*Pembina	2.4	1.7	18.1	39.8	53.7	62.4	65.2	61.2	49.4	44.2	20.8	2.2	35.1	92	−39	June 10	Sept. 17
Portal	7.2	−0.9	12.0	40.2	49.2	59.2	62.3	59.4	46.4	[e]44.6	22.0	14.2	34.6	94	−41	June 9	Sept. 12
Power	7.8	5.0	25.2	42.7	56.9	63.8	67.6	64.0	54.0	46.2	22.4	9.2	38.8	94	−35	June 22	Sept. 13
Steele	10.8	0.8	21.9	42.1	[e]53.6	64.1	68.4	63.2	50.4	46.2	22.8	11.2	38.0	102	−41	May 6	Sept. 13
University	8.4	5.6	22.2	43.8	55.8	61.2	67.5	61.9	51.4	45.7	23.0	9.2	38.0	94	−32	May 5	Sept. 12
Valley City	7.4	[e]3.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wahpeton	12.6	5.3	29.2	45.6	58.1	.....	[e]66.8	66.5	55.4	49.0	28.6	11.4	.....	92	−34	May 6	Sept. 16
*Williston	11.9	2.4	18.5	43.8	51.9	62.2	64.4	62.8	50.8	45.9	24.8	17.0	38.0	95	−46	June 10	Sept. 14
Willow City	5.8	[e]1.4	[e]18.0	41.4	51.0	60.8	63.0	61.9	47.1	44.2	20.7	7.7	35.0	96	−46	May 22	Sept. 4
Wishek	.....	.....	.....	.....	53.8	66.4	74.9	66.2	52.6	44.2	24.6	.....	.....	.....	.....	.....	.....
Woodbridge	.....	.....	17.1	40.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1]P. H. Beck. [2]State Horticultural Farm.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.		
Ohio.																	
Akron	25.9	28.8	45.4	48.4	63.2	62.6	72.0	67.7	65.0	53.6	36.6	23.0	49.4	97	− 8	May 2	Oct. 24
Bangorville	24.6	28.6	45.3	49.7	63.6	63.4	72.8	70.3	67.6	54.6	37.0	21.9	50.0	96	−12	May 5	Oct. 24
*Bellefontaine	26.8	28.9	45.9	48.1	[b]63.8	63.0	[a]72.4	70.6	63.6	54.0	38.2	21.5	49.7	95	−10	May 4	Oct. 23
Benton Ridge	26.0	28.4	44.8	50.0	64.8	64.5	73.0	.....	.....	.....	37.2	24.0	.....	.....	.....	May 4	Oct. 24
Bladensburg	25.8	29.4	45.8	48.3	62.9	.....	72.6	70.2	64.0	52.3	35.6	21.8	.....	.....	.....	May 5	Sept. 19
Bowling Green	24.4	26.2	43.6	48.4	62.4	63.6	72.8	69.2	64.5	53.0	36.3	21.2	48.8	95	− 8	May 4	Oct. 23
*Bucyrus	24.5	29.8	45.8	51.8	62.6	64.2	72.0	69.3	64.2	53.2	37.0	21.8	49.7	95	−11	May 4	Oct. 24
Cadiz	.....	.....	.....	.....	.....	.....	.....	.....	65.8	54.4	37.0	23.4	.....	.....	.....	.....	Oct. 25
Cambridge	28.5	32.0	49.2	51.2	63.8	64.8	72.2	71.2	65.8	56.0	37.4	24.5	51.4	95	−13	May 5	Sept. 19
Camp Dennison	30.1	32.8	49.5	53.2	66.2	67.3	75.6	73.4	67.8	55.0	38.4	25.8	52.9	99	−12	May 4	Oct. 19
*Canal Dover	27.0	29.4	46.6	48.6	63.4	63.4	71.6	69.5	63.0	53.0	35.6	22.7	49.5	95	−12	May 2	Oct. 25
*Canton	26.5	28.8	46.1	48.8	62.8	63.2	71.3	71.0	63.2	52.4	36.4	23.6	49.5	94	− 8	May 2	Oct. 25
Cardington	25.2	28.6	45.6	48.8	62.0	63.0	70.8	69.6	64.4	52.4	35.4	21.5	48.9	97	−14	May 5	Sept. 25
*Chillicothe	.....	.....	.....	52.6	67.5	69.0	76.2	74.6	68.7	.....	.....	.....	.....	.....	.....	May 4	Sept. 20
*Cincinnati	31.1	34.6	49.7	53.6	67.4	67.6	77.8	74.9	69.2	57.5	40.4	27.6	54.3	96	− 1	May 4	Oct. 24
*Circleville	29.5	32.4	48.6	52.0	65.7	65.6	74.6	73.6	68.0	55.2	37.8	24.9	52.3	96	− 6	May 4	Oct. 22
Clarington	.....	34.0	50.0	51.8	66.3	66.1	74.0	73.2	68.0	56.6	38.8	26.6	.....	.....	.....	Apr. 23	Oct. 24
Clarksville	29.4	32.2	49.0	52.6	66.3	66.0	75.4	73.9	68.7	56.3	39.4	25.3	52.9	96	− 8	May 4	Oct. 24
*Cleveland	26.0	28.4	43.6	47.2	60.8	62.2	71.2	67.8	64.8	54.0	37.5	23.8	48.9	89	− 5	May 2	Nov. 8
Cleveland[1]	27.8	29.2	44.8	48.4	61.6	62.8	71.0	68.0	64.2	54.0	38.4	24.7	49.6	90	− 5	May 2	Nov. 8
Cleveland[2]	26.0	28.8	44.0	48.0	61.5	62.6	70.8	67.1	63.8	52.8	36.0	22.9	48.7	94	− 4	May 2	Nov. 6
Clifton	27.4	31.2	48.0	51.0	64.2	64.2	73.4	72.7	.....	55.5	38.2	24.0	.....	.....	.....	May 4	Oct. 24
Coalton	31.4	33.8	51.0	52.5	66.0	66.5	74.2	73.0	67.0	54.8	38.1	25.2	52.8	99	−17	May 5	Sept. 19
Colebrook	24.4	[c]27.4	45.2	[c]46.6	61.2	[c]61.0	[c]64.1	[c]64.9	[c]61.6	[c]49.6	.....	.....	.....	.....	.....	May 8	Sept. 29
*Columbus	28.3	31.8	47.8	51.2	65.8	66.0	74.5	73.0	67.6	55.4	38.4	24.6	52.0	95	− 3	Apr. 5	Oct. 24
*Dayton	28.2	32.0	47.6	51.2	65.2	66.0	75.2	74.3	67.4	55.6	38.2	25.8	52.2	99	− 5	May 4	Oct. 24
*Defiance	24.8	27.5	44.2	48.3	62.8	63.6	72.0	68.8	64.0	53.4	36.6	21.8	49.0	95	−10	May 4	Oct. 24
Delaware	26.0	29.8	46.6	49.9	63.7	64.4	72.5	71.6	65.4	53.4	36.4	22.4	50.2	97	−10	May 5	Oct. 24
Demos	28.8	30.8	48.2	50.8	65.7	.....	.....	.....	.....	.....	37.9	24.4	.....	.....	.....	May 2	.....
Elyria	24.6	29.0	45.6	47.8	62.2	62.8	71.9	68.2	63.8	52.6	37.8	23.0	49.1	96	− 8	May 6	Oct. 24
*Findlay	25.9	29.0	45.0	49.8	64.4	64.9	74.7	71.2	66.2	54.4	37.8	23.0	50.5	99	− 8	May 2	Oct. 24
Frankfort	29.6	32.0	49.0	52.2	64.1	64.8	72.9	71.3	66.4	55.1	36.4	24.7	51.5	94	− 7	May 4	Oct. 24
Fremont	26.0	29.6	45.2	49.8	63.4	64.0	72.8	69.3	66.0	54.6	37.8	23.4	50.2	94	− 7	May 4	Oct. 23
Garrettsville	24.9	28.6	45.5	47.1	60.3	61.5	69.2	[c]67.0	62.2	52.2	35.4	21.4	47.9	94	−13	May 8	Sept. 29
*Granville	27.2	30.0	48.2	50.6	64.0	64.4	72.7	72.0	65.6	54.5	36.8	23.4	50.8	96	− 8	May 5	Oct. 23
Gratiot	26.6	30.0	47.8	50.3	64.4	64.6	72.4	70.9	65.8	54.6	37.5	23.2	50.7	95	−12	May 2	Oct. 25
Green	33.4	35.2	52.1	52.6	67.9	67.4	76.1	74.4	67.7	55.1	39.0	26.6	54.0	98	− 9	Apr. 27	Oct. 25
Greenfield	30.2	32.9	49.4	53.1	66.2	66.4	76.1	73.6	67.0	55.4	39.3	26.0	53.0	95	− 5	Apr. 5	Oct. 24
Greenhill	25.8	27.9	45.7	46.7	61.1	61.4	68.6	66.9	62.0	51.2	34.8	21.7	47.8	93	−14	May 5	Sept. 19
*Greenville	26.2	29.8	46.6	50.4	64.2	64.8	74.8	71.6	65.2	54.0	36.8	22.8	50.6	97	− 9	May 4	Oct. 24
Hanging Rock	34.0	36.6	52.7	55.0	67.6	68.0	75.6	75.4	68.2	56.6	39.8	28.6	54.8	99	0	May 2	Oct. 25
Hedges	.....	27.2	44.0	49.6	63.1	64.0	72.6	69.2	64.8	.....	.....	22.6	.....	95	.....	May 4	Oct. 24
Hillhouse	24.0	24.7	42.2	45.3	58.9	59.6	68.6	65.4	62.2	51.2	35.0	21.8	46.6	93	−12	May 8	Sept. 29
Hiram	24.2	27.3	44.5	47.9	62.0	62.2	70.0	67.2	62.8	52.0	35.6	22.3	48.2	91	−13	May 2	Oct. 25
Hudson	23.5	26.6	45.2	46.8	62.8	.....	70.3	67.8	63.5	52.4	35.6	21.4	.....	.....	.....	May 5	Sept. 29
Jacksonburg	26.2	29.4	45.8	50.9	64.8	67.2	77.2	74.4	69.7	56.0	38.2	25.4	52.1	99	− 9	May 4	Oct. 24
Kenton	24.9	26.5	46.0	50.0	64.2	63.9	73.5	72.1	67.0	52.4	36.7	21.6	49.9	98	−10	May 4	Oct. 24
Killbuck	26.0	29.8	46.6	49.0	63.2	62.5	71.4	70.4	64.3	54.0	36.8	22.3	49.6	95	− 8	May 2	Sept. 25
Lancaster	29.6	31.8	49.0	51.4	65.2	65.3	73.1	71.6	67.0	56.3	38.6	25.2	52.0	96	− 7	May 5	Oct. 24
Lima	24.4	29.2	45.0	48.8	65.1	64.1	71.8	71.4	65.7	53.2	38.0	21.1	49.8	100	− 8	May 4	Oct. 24
McConnelsville	30.3	33.1	49.4	50.6	64.8	64.4	73.0	72.3	66.4	54.8	38.0	24.4	51.8	96	− 7	May 2	Oct. 24
Manara	27.4	30.8	47.4	50.4	64.4	[c]65.2	73.1	71.8	65.5	53.3	36.6	23.2	50.8	96	− 5	May 4	Oct. 24
Marietta	32.4	34.2	50.4	54.2	67.2	67.0	74.7	73.6	67.0	55.8	40.1	28.1	53.7	93	1	Apr. 5	Oct. 24
Marion	26.4	29.8	46.5	50.6	64.8	64.6	73.4	71.3	66.9	54.3	37.2	22.6	50.7	98	−10	May 5	Oct. 21
Medina	25.0	28.2	45.7	48.4	63.4	64.6	72.0	69.3	65.3	53.6	36.6	22.3	49.5	95	−12	May 5	Oct. 24
Milfordton	22.7	27.5	43.7	48.0	62.0	63.7	72.2	70.4	65.0	53.0	34.5	21.8	48.7	96	−10	May 4	Sept. 25
Milligan	28.6	31.1	48.8	51.1	62.9	64.5	72.0	70.3	64.6	54.4	37.0	23.8	50.8	96	−20	May 5	Sept. 18
Millport	25.6	27.4	46.2	47.5	60.5	61.1	69.0	67.4	62.2	52.3	34.8	22.0	48.0	94	−18	May 5	Sept. 19
Montpelier	22.8	24.9	42.6	47.2	61.9	62.6	71.8	67.4	62.5	53.1	35.4	21.2	47.8	93	−10	May 4	Oct. 24
Napoleon	.....	.....	45.0	49.2	63.1	64.0	72.4	69.6	65.1	53.2	37.2	23.2	.....	.....	.....	May 4	Oct. 24
New Alexandria	28.6	31.0	47.9	51.4	66.2	65.0	73.4	71.6	66.4	54.9	36.6	24.0	51.4	95	− 8	May 2	Oct. 25
New Berlin	25.6	29.0	46.0	48.5	62.6	62.8	71.3	68.8	63.8	51.3	34.2	21.4	48.8	96	−12	May 5	Oct. 13
New Bremen	26.4	30.0	47.3	49.2	62.1	64.4	73.3	71.5	66.2	54.0	37.6	22.5	50.4	96	−10	May 5	Oct. 10
New Richmond	31.5	34.6	50.7	54.1	67.2	67.2	76.7	74.5	70.0	57.8	41.0	27.2	54.1	97	− 6	May 4	Oct. 24
New Waterford	26.0	29.2	46.0	48.8	63.4	63.6	70.6	69.2	63.4	52.6	36.0	23.6	49.4	99	− 8	May 5	Sept. 29
North Lewisburg	26.2	28.8	45.8	50.6	63.4	64.1	73.0	71.6	66.0	54.5	36.4	22.2	50.2	97	− 6	May 4	Oct. 24
North Royalton	25.2	27.4	44.9	47.5	62.3	64.0	70.8	68.2	64.3	52.6	37.4	20.6	48.8	95	− 9	May 4	Oct. 24
*Norwalk	25.6	28.4	44.8	48.6	63.2	64.1	73.4	69.0	65.2	53.9	37.4	.....	.....	.....	.....	May 4	Oct. 24
Oberlin	26.4	29.3	45.3	48.6	61.4	62.4	72.3	69.4	63.7	52.8	36.0	22.8	49.2	97	− 8	May 2	Oct. 24
Ohio State University	27.2	29.8	47.0	50.2	63.0	64.5	72.1	71.5	64.6	53.6	36.3	22.8	50.2	95	− 4	May 5	Oct. 24
Orangeville	25.2	27.7	46.6	47.6	61.4	62.2	69.8	67.2	63.3	52.1	35.0	22.6	48.3	94	−14	May 8	Oct. 10
Ottawa	25.7	27.9	45.2	50.0	64.4	64.5	73.8	72.4	65.8	53.3	36.6	22.4	50.2	96	− 8	May 4	Oct. 24
Pataskala	27.0	29.8	47.3	49.8	63.7	64.6	72.5	71.8	65.8	54.8	36.4	23.0	50.5	97	− 6	May 4	Oct. 24
Philo	29.6	32.2	49.0	52.4	66.4	65.9	75.0	73.3	68.7	56.9	39.8	25.2	52.8	98	− 6	May 2	Oct. 25
Plattsburg	26.1	30.0	46.6	50.2	64.3	64.8	74.5	72.4	66.4	54.2	37.3	[c]22.4	50.8	100	− 8	May 4	Oct. 24
*Pomeroy	32.5	32.8	52.2	52.0	66.2	67.0	74.4	73.2	69.4	53.8	39.3	26.0	52.9	97	2	Apr. 24	Oct. 24
Portsmouth	33.6	36.7	[c]54.2	55.5	69.4	68.4	[c]76.8	75.0	68.8	56.6	39.9	28.7	55.2	97	− 3	Apr. 5	Oct. 25
Pulse	.....	.....	50.2	53.0	65.9	65.8	75.0	73.8	67.4	54.8	39.2	24.4	.....	.....	.....	May 4	Oct. 24
Richwood	26.4	29.6	.....	.....	62.8	64.0	72.4	70.8	64.8	53.2	[c]36.6	22.0	.....	.....	.....	May 5	Oct. 24
Ripley	30.2	32.9	49.2	52.0	[c]65.2	65.0	74.5	72.6	.....	.....	.....	.....	.....	.....	.....	Apr. 5	.....
Rittman	26.7	28.8	48.4	48.2	[c]65.4	64.6	71.8	70.2	65.2	[c]53.3	36.5	20.0	49.9	97	−12	May 4	Oct. 24
Rockyridge	25.2	27.8	48.6	47.9	[c]63.5	63.6	72.9	70.1	66.1	54.1	37.5	22.6	49.6	96	−10	.....	Oct. 23
*Sandusky	25.8	28.4	42.6	48.4	61.6	63.6	73.0	69.3	65.8	55.0	38.4	23.3	49.6	94	− 5	May 2	Oct. 27
Shenandoah	25.6	28.2	43.6	47.9	62.2	61.8	70.7	68.4	63.6	52.2	35.2	21.2	48.4	93	− 9	May 2	Oct. 24
Sidney	26.6	29.8	47.4	51.8	66.4	65.4	74.3	72.2	65.6	54.2	38.2	23.8	51.2	96	− 9	May 4	Oct. 24
*Somerset	31.1	34.1	50.2	51.6	65.8	66.0	75.0	73.0	67.8	56.5	38.5	24.6	52.8	96	− 8	May 2	Oct. 23
Thurman	32.7	34.8	52.2	53.6	67.4	67.6	75.0	75.2	68.8	57.7	39.8	26.1	54.2	101	−11	Apr. 24	Oct. 25
Tiffin	26.1	28.6	44.4	49.8	63.6	63.6	73.0	69.6	64.8	53.3	37.4	22.8	49.8	94	− 6	May 4	Oct. 24

[1] G. A. Hyde.

[2] Rev. F. Odenbach.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
*Toledo	25.0	27.0	42.8	48.2	62.1	63.4	73.0	68.7	64.9	53.6	37.3	22.4	49.0	94	− 7	May 2	Oct. 24
Upper Sandusky	26.8	29.2	45.4	51.3	64.3	[a]66.2	73.7	.....	66.6	53.4	37.4	22.4	.....	.....	.....	May 4	Oct. 24
Urbana	23.5	26.9	44.0	48.2	62.4	63.2	71.1	68.9	63.1	52.6	35.4	20.2	48.3	91	−11	May 4	Oct. 24
Vanwert	25.8	.....	.....	.....	.....	.....	.....	.....	67.1	.....	.....	.....	.....	.....	.....	.....	Sept. 25
Vickery	25.0	27.6	43.8	48.1	61.2	62.5	72.4	68.4	66.7	53.7	36.3	22.2	49.0	97	− 8	May 8	Oct. 21
Warren	26.7	30.6	[c]47.2	48.0	61.6	62.4	70.9	69.0	63.6	[b]51.8	35.8	[f]23.7	49.3	95	−10	May 5	Sept. 29
Warsaw	27.4	29.2	46.8	48.2	62.6	63.6	73.2	71.0	64.6	55.8	35.6	21.8	50.0	104	−16	May 5	Sept. 19
*Wauseon	23.8	26.3	43.4	48.4	62.8	64.4	73.0	69.1	64.7	52.5	35.5	20.8	48.7	97	−11	May 4	Oct. 23
Waverly	31.0	33.4	50.4	53.6	66.5	67.2	76.0	74.6	68.2	56.0	39.4	26.2	53.5	100	−13	May 4	Oct. 24
Waynesville	26.4	30.8	47.6	51.3	64.4	64.8	73.4	.....	66.6	54.7	38.3	24.8	.....	.....	.....	May 4	Oct. 23
Wellington	26.2	29.6	46.2	48.8	62.8	63.2	[f]72.0	67.6	[b]65.0	53.4	37.0	23.3	49.6	97	− 6	May 2	Oct. 24
Wilson	.....	.....	.....	.....	.....	.....	.....	73.2	67.0	58.8	37.8	25.4	.....	.....	.....	.....	Sept. 25
Wooster	24.4	29.0	45.7	48.6	62.2	63.0	71.8	68.8	64.4	53.2	36.8	21.6	49.1	94	− 9	May 4	Sept. 25
Oklahoma.																	
Arapaho	35.6	.....	.....	60.0	64.2	69.9	82.6	83.0	.....	.....	.....	39.0	.....	107	.....	May 1	.....
Beaver	.....	.....	43.4	55.8	63.0	67.6	80.0	78.8	69.6	58.2	43.4	36.8	.....	108	.....	Apr. 30	Oct. 16
Binger	.....	.....	.....	.....	.....	67.9	79.6	79.9	70.0	60.3	47.4	39.3	.....	108	.....	.....	Oct. 18
Blackburn	39.2	34.0	48.4	59.0	64.9	68.8	80.5	76.6	.....	.....	.....	[e]40.2	.....	104	− 9	May 3	.....
*Chandler	40.4	35.0	50.7	59.8	65.2	70.6	80.5	79.2	70.4	60.8	46.8	39.2	58.2	100	0	May 1	Oct. 24
Cleo	40.0	34.5	48.6	59.2	64.4	69.3	81.9	.....	67.6	.....	.....	.....	.....	.....	− 2	May 3	.....
Cloud Chief	38.8	35.1	48.4	58.3	63.4	68.8	80.4	81.2	72.0	63.2	47.2	39.2	58.0	106	3	Apr. 30	Oct. 22
Eldorado	.....	.....	.....	.....	67.4	72.8	85.2	84.3	73.9	63.0	48.2	41.2	.....	108	.....	.....	Oct. 18
*Enid	36.4	33.6	47.6	58.5	63.4	68.6	80.6	79.3	71.0	60.8	[g]45.2	38.5	57.0	105	− 1	Mar. 29	.....
Fort Reno	37.9	34.6	48.4	61.2	65.1	71.0	80.8	80.6	70.6	64.2	46.9	40.0	58.4	105	2	May 1	Nov. 16
Fort Sill	40.4	36.9	49.4	61.2	66.6	71.0	82.1	81.7	70.6	60.4	47.0	41.3	59.0	105	7	May 1	Oct. 17
Grand	.....	.....	.....	.....	67.9	70.0	83.9	82.1	69.1	58.7	.....	.....	.....	106	.....	.....	Oct. 5
Guthrie	38.2	33.9	47.6	62.0	63.6	70.3	80.0	77.9	70.8	61.2	46.9	39.4	57.6	101	3	Mar. 28	Nov. 17
Hennessey	36.7	33.0	48.0	60.2	64.8	70.4	82.9	81.6	75.1	60.7	49.7	40.2	58.6	106	1	May 1	Oct. 24
Hobart	.....	.....	.....	.....	66.5	[f]72.6	79.6	80.2	72.2	63.3	48.2	41.6	.....	106	.....	Apr. 30	Oct. 24
Jefferson	35.4	32.0	.....	58.4	65.1	69.1	82.4	79.4	71.5	.....	[f]41.6	38.2	.....	108	− 3	May 1	.....
Jenkins	37.6	32.2	46.2	58.2	64.7	69.0	81.4	78.6	71.7	61.2	45.4	39.4	57.1	107	− 4	Apr. 30	Oct. 23
Kenton	35.9	26.4	42.0	53.2	60.4	66.3	78.3	77.8	67.8	56.7	45.2	36.4	53.9	103	−17	Apr. 30	Sept. 17
Kingfisher	38.8	35.2	48.6	59.8	[a]65.5	71.0	82.4	81.7	72.8	62.3	47.2	39.8	58.8	106	3	May 1	Oct. 18
Leger	.....	.....	.....	.....	.....	[c]70.9	83.5	82.4	.....	.....	.....	.....	.....	106	.....	.....	.....
McComb †	40.1	36.9	50.7	62.1	67.2	71.0	79.8	79.6	71.3	61.3	47.9	41.4	59.1	103	2	May 1	Oct. 18
*Mangum	38.8	37.1	51.8	62.4	68.2	73.0	84.1	84.2	74.1	64.7	51.1	46.2	61.3	107	12	May 1	Nov. 16
Meeker ‡	38.8	36.0	48.2	60.2	65.8	69.8	80.2	79.8	72.7	60.7	47.5	39.6	58.3	101	1	May 1	Oct. 19
Newkirk	[d]37.4	33.0	47.6	59.2	61.9	66.2	81.2	79.1	69.0	57.3	42.0	35.0	55.7	109	− 1	Apr. 30	Sept. 27
Norman	41.2	37.4	[c]50.3	60.8	67.0	.....	[c]79.6	81.4	.....	.....	.....	[e]40.6	.....	105	4	May 1	.....
*Oklahoma	38.6	34.6	48.9	59.8	65.0	70.5	80.0	79.5	70.6	61.8	47.1	41.1	58.1	101	4	Apr. 30	Nov. 16
Okeene	.....	.....	.....	.....	[a]62.3	71.0	83.2	84.4	.....	.....	.....	43.0	.....	110	.....	.....	.....
Pawhuska	36.4	33.0	48.4	60.0	.....	70.3	81.4	76.1	68.5	54.8	41.5	.....	.....	104	−10	May 1	Oct. 8
Perry	38.4	33.5	48.4	59.2	64.2	69.6	81.6	78.9	70.9	60.9	46.0	40.6	57.7	106	1	May 1	Nov. 17
Sac and Fox Agency	38.1	37.3	50.4	63.4	68.8	73.6	83.0	81.0	.....	61.0	47.8	[e]40.4	.....	102	− 1	May 1	Oct. 24
*Shawnee	41.1	37.4	52.2	62.1	66.2	70.7	80.6	80.4	71.2	61.8	47.4	40.0	59.3	100	5	May 1	Nov. 17
*Stillwater	39.0	35.2	49.9	57.0	64.2	69.4	80.4	79.2	69.5	59.8	45.2	38.3	57.3	102	3	May 1	Nov. 17
Taloga	39.2	31.9	48.6	59.6	[d]68.4	71.4	85.1	83.8	72.8	60.3	43.6	[b]37.5	58.5	111	− 4	Apr. 30	Oct. 18
Temple	42.4	38.0	51.2	63.1	68.7	73.7	85.4	84.1	74.2	63.4	48.9	41.4	61.2	107	8	May 1	Oct. 18
Ural	36.1	32.2	46.9	57.4	63.8	70.0	81.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Watonga	39.8	34.8	.....	59.3	.....	.....	81.2	.....	67.4	.....	.....	.....	.....	.....	− 2	.....	.....
Waukomis	39.1	34.8	48.4	60.0	64.4	71.3	82.2	81.4	72.4	63.0	48.2	42.1	58.9	107	2	May 1	Nov. 14
*Weatherford	38.1	34.4	48.4	59.2	62.8	68.6	81.1	80.4	71.4	61.3	45.1	38.3	57.4	105	2	May 1	Nov. 11
Woodward	.....	.....	.....	.....	.....	.....	.....	[f]78.6	70.0	58.3	[h]45.3	.....	.....	.....	.....	.....	Oct. 23
Oregon.																	
Alpha	42.1	40.5	44.8	47.4	53.3	58.3	59.6	61.4	58.1	53.8	46.2	40.9	50.5	99	21	May 7	Nov. 17
Arlington	36.4	[c]33.8	44.8	50.6	61.2	71.6	71.2	72.7	[f]65.0	59.4	.....	[b]34.4	.....	100	17	Apr. 19	.....
Ashland	38.2	36.5	44.6	47.5	57.0	63.4	64.9	66.2	60.2	56.2	46.6	38.6	51.7	99	12	May 7	Nov. 16
Astoria	44.1	41.2	44.7	48.1	53.4	60.3	62.9	61.3	59.2	54.8	46.8	43.0	51.6	97	27	May 13	Dec. 9
Aurora (near)	41.2	39.3	44.3	48.2	55.1	61.2	61.2	62.8	58.2	52.0	44.4	39.3	50.6	96	20	Apr. 19	Nov. 17
*Baker City	26.5	22.0	36.4	42.4	51.2	64.0	62.8	65.2	54.3	49.6	38.6	27.5	45.0	96	− 2	Apr. 5	Sept. 15
Bay City	44.4	41.0	43.2	46.4	50.3	56.2	56.7	58.8	55.3	53.8	47.2	45.6	49.9	98	23	Apr. 12	Dec. 3
Bend	32.6	27.2	35.8	39.1	48.0	58.2	57.3	59.8	50.3	48.2	39.3	34.2	44.2	95	−10	June 4	Sept. 8
Beulah	23.8	19.6	38.6	44.6	53.2	65.1	67.2	66.6	54.8	49.4	37.4	27.4	45.6	101	−16	May 24	Sept. 7
Blackbutte	37.4	35.9	43.2	46.3	.....	57.8	61.8	63.4	58.5	49.8	43.2	38.6	.....	90	17	Apr. 29	Nov. 15
Blalock	38.0	37.0	46.6	53.6	[d]62.3	75.6	[c]75.1	78.7	66.0	[e]56.6	[d]41.8	35.4	55.6	105	20	Apr. 12	Oct. 30
Burns	.....	.....	.....	.....	.....	.....	.....	.....	.....	[g]49.6	.....	27.4	.....	.....	.....	(††)	(††)
Cascade Locks	39.2	36.6	44.4	49.0	58.2	64.3	65.0	66.7	60.8	54.6	42.8	37.3	51.6	95	18	Mar. 20	Nov. 11
Corvallis	40.6	38.4	44.4	47.8	55.2	61.5	62.0	64.0	60.3	52.6	45.1	40.0	51.0	98	21	May 7	Nov. 8
Coyote	.....	.....	.....	[b]53.2	[c]63.1	75.0	74.4	73.6	62.2	.....	.....	.....	.....	.....	.....	Apr. 16	.....
Dayville	36.4	33.2	42.4	47.3	54.8	65.4	64.8	66.0	57.2	51.6	44.8	35.7	50.0	96	9	May 30	Sept. 26
Detroit	.....	.....	.....	.....	.....	.....	60.0	68.5	.....	.....	.....	32.4	.....	.....	.....	.....	.....
Doraville	39.2	36.4	41.6	43.6	52.6	59.7	59.6	61.3	56.9	52.2	42.0	38.4	48.6	96	19	Apr. 19	Nov. 10
Drain	42.4	42.2	47.4	48.8	56.8	64.6	64.6	65.2	60.5	55.2	47.3	41.5	53.0	103	22	May 7	Nov. 10
Eugene	40.6	37.6	[b]42.6	[b]48.1	55.1	61.6	[f]64.5	64.6	59.6	52.5	[f]45.0	40.0	51.0	94	23	Apr. 10	Nov. 17
Fairview	45.6	[b]41.3	46.4	48.8	53.0	[b]57.1	57.0	61.7	60.7	55.2	50.4	46.2	52.0	100	20	Apr. 11	Nov. 17
Falls City	40.3	36.7	41.4	45.8	54.0	60.6	60.7	61.3	57.3	50.8	43.4	38.0	49.2	96	20	Apr. 28	Nov. 17
Forestgrove	40.6	38.6	42.8	46.8	55.2	63.2	63.2	63.5	58.8	53.0	45.9	43.0	51.0	98	19	May 19	Oct. 29
Gardiner	48.1	45.4	48.4	50.0	56.0	62.3	61.4	62.8	61.8	57.8	52.6	48.4	54.6	101	25	Apr. 12	.....
Glenora	39.9	34.0	41.7	46.3	52.4	58.2	60.8	62.4	54.7	49.6	42.0	39.2	48.4	98	17	May 16	Oct. 15
Gold Beach	.....	.....	.....	.....	.....	.....	.....	62.2	59.2	57.3	53.0	51.3	.....	.....	.....	.....	.....
Government Camp	31.4	29.2	[c]32.0	34.5	41.8	52.7	50.7	53.3	48.8	48.5	36.6	35.5	41.2	84	3	June 8	Sept. 9
Grants Pass	39.6	38.5	45.8	48.2	56.8	65.7	65.6	67.5	61.2	56.3	46.8	38.8	52.6	104	11	May 23	Sept. 30
Grass Valley	33.4	32.0	38.3	42.4	48.4	59.2	59.4	61.4	53.8	48.8	38.2	.....	.....	95	7	June 3	Sept. 15
Heppner	37.8	35.0	43.4	47.0	56.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 28	.....

† Station located at Burnett January to July, inclusive; moved 2 miles east to McComb on August 1, 1903.
‡ Name of post-office changed from Clifton.
†† Frost every month.

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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.																	
Hood River (near)	35.8	34.9	43.0	48.2	56.4	64.6	64.2	66.0	58.4	52.8	40.7	34.6	50.0	99	13	Apr. 19	Oct. 15
Huntington	28.4	24.4	42.7	49.6	59.8	75.2	74.6	76.9	64.2	53.0	39.6	32.0	51.7	102	− 3	May 19	Sept. 27
Jacksonville	38.0	37.3	49.0	51.0	58.2	66.0	66.8	68.8	62.3	57.2	45.7	36.8	53.1	99	15	Apr. 28	Nov. 17
Joseph	25.8	20.8	34.0	38.6	47.2	60.4	60.4	61.4	50.6	46.2	33.6	24.9	42.0	98	− 5	May 27	Sept. 9
Kerby	39.4	36.6	44.3	47.0	55.9	63.4	63.8	65.6	60.2	55.9	46.1	37.8	51.3	105	13	May 20	Dec. 8
Klamath Falls	31.6	26.8	37.8	45.8	.....	63.4	65.1	.....	.....	.....	.....	33.8	.....	.....	.....	.....	.....
Lagrande	32.3	27.2	37.9	44.6	52.9	65.0	63.8	67.0	54.8	50.1	40.6	33.7	47.5	99	2	May 8	Sept. 15
Lakeview	29.3	21.9	34.4	41.4	51.8	61.6	64.0	64.8	55.4	50.5	37.5	31.5	45.3	99	− 9	May 22	Sept. 6
Langlois	.....	.....	.....	.....	52.0	57.8	57.4	59.3	56.6	55.0	52.6	48.0	.....	95	.....	.....	Nov. 17
Lonerock	34.2	30.6	37.3	43.4	50.7	61.0	61.2	63.2	55.2	50.8	41.0	34.1	46.9	95	3	May 23	Sept. 29
McKenzie Bridge	37.7	34.3	43.8	46.6	54.8	61.9	60.7	62.6	57.6	52.7	42.1	38.0	49.4	97	7	June 3	Sept. 30
McMinnville	41.9	39.4	44.6	48.0	55.8	62.4	62.6	[e]63.8	59.1	53.6	45.6	40.6	51.4	98	20	Apr. 19	Nov. 17
Monroe	41.4	38.8	44.5	47.8	55.2	61.4	61.8	64.6	60.3	53.3	46.0	40.4	51.3	95	20	Apr. 19	Nov. 17
Mount Angel	41.5	39.0	44.3	48.1	55.4	62.2	62.6	65.1	59.5	52.6	44.4	40.0	51.2	98	23	Apr. 12	Nov. 17
Newport	46.2	43.4	45.8	47.0	51.2	57.0	56.2	57.9	56.0	54.8	49.4	47.6	51.0	95	24	Apr. 10	.....
Pendleton	38.2	33.6	42.5	48.4	57.8	68.8	69.6	.....	.....	.....	.....	.....	.....	.....	.....	May 21	.....
Pine	[d]27.3	15.8	.....	[d]49.0	52.4	64.8	62.6	64.2	53.0	48.4	36.4	26.6	.....	98	−24	May 23	Sept. 9
*Portland	42.8	41.0	45.8	49.8	56.9	[d]64.2	64.2	66.0	61.4	55.6	46.2	41.0	52.9	97	24	Mar. 12	Nov. 17
Prineville	34.6	.....	.....	.....	.....	.....	60.0	61.6	53.7	49.1	40.8	33.4	.....	94	.....	.....	Sept. 11
Riverside	29.4	.....	.....	.....	[b]54.5	.....	.....	.....	.....	.....	.....	33.3	.....	.....	.....	May 22	.....
*Roseburg	41.5	40.2	46.4	48.4	55.9	63.1	63.0	66.0	61.0	55.2	48.3	40.8	52.5	101	21	May 7	Nov. 16
Salem	43.2	39.9	45.3	48.9	55.6	62.8	63.6	65.4	61.5	53.8	45.8	41.4	52.3	98	23	Apr. 28	Nov. 17
Silverlake	31.8	24.5	37.4	40.7	48.9	59.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 27	.....
Sparta	26.5	19.9	34.8	43.8	52.6	64.8	66.6	69.0	55.9	49.6	39.0	28.9	46.0	99	− 3	May 24	Sept. 10
Stafford	[f]39.6	39.2	43.6	47.2	55.2	61.2	62.4	64.3	60.5	53.8	44.4	39.0	50.9	95	20	Apr. 19	Nov. 19
The Dalles	37.4	36.0	45.2	50.6	60.4	68.4	68.5	69.7	61.7	52.7	42.4	36.2	52.4	100	16	Apr. 15	Nov. 16
Toledo	45.8	44.2	46.0	48.1	53.4	59.8	59.1	61.2	58.4	52.8	48.5	45.7	51.9	102	22	Apr. 28	Dec. 9
Umatilla	37.6	35.0	46.3	52.2	62.4	72.9	74.4	74.6	64.0	54.0	42.7	34.4	54.2	108	14	Apr. 19	Oct. 30
Vale	27.0	21.2	40.8	46.8	54.9	67.8	66.4	68.0	57.4	48.3	39.4	[m]29.0	47.2	102	−10	May 23	Sept. 9
Wallowa	.....	.....	37.8	42.6	50.0	63.2	61.0	61.5	52.0	47.3	31.6	27.1	.....	97	.....	May 24	Sept. 9
Wamic	35.1	31.4	39.3	44.2	52.9	62.9	64.0	63.4	56.1	50.1	38.2	31.8	47.4	95	3	May 23	Sept. 11
Warm Spring	36.6	33.6	42.3	47.0	55.4	66.3	66.4	67.0	58.9	51.4	41.6	33.2	50.0	100	11	May 23	Sept. 10
Weston	33.6	29.3	39.3	44.3	53.4	64.6	64.2	66.2	56.0	50.2	39.8	33.4	47.9	99	3	May 22	Oct. 13
Williams	39.7	37.1	45.0	47.8	55.4	62.6	62.8	64.9	58.9	54.6	46.6	38.6	51.2	100	11	May 25	Sept. 14
Pennsylvania.																	
Aleppo	30.8	32.6	49.6	51.0	64.2	64.2	70.6	70.4	64.6	53.8	36.6	24.2	51.0	95	− 9	Apr. 27	Sept. 25
Altoona	25.2	30.0	46.0	48.9	60.9	62.6	70.6	[e]66.2	61.7	53.0	36.9	24.6	48.9	93	− 7	May 2	Sept. 29
Athens	25.3	27.4	43.3	45.2	58.4	61.6	68.8	64.2	62.0	52.3	35.1	24.0	47.3	93	−13	May 16	Sept. 30
Bellefonte	27.3	32.6	49.4	50.9	62.6	65.5	72.6	68.8	64.3	54.6	37.7	26.8	51.1	93	− 5	Apr. 26	Sept. 29
Butler	26.3	29.6	45.6	48.0	63.4	63.0	70.0	67.7	[e]63.6	53.0	35.6	23.0	49.2	91	− 9	May 2	Oct. 25
California	33.4	34.9	50.5	52.6	65.1	65.8	73.9	72.4	67.4	57.2	40.4	28.4	53.5	99	− 5	Apr. 6	Oct. 25
Cassandra	24.8	28.2	44.8	47.2	59.6	60.0	67.2	65.0	59.4	49.6	33.1	22.4	46.8	89	− 8	May 5	Sept. 29
Centerhall	25.0	29.6	40.2	49.2	62.1	62.5	70.8	65.8	63.7	51.2	37.0	24.0	48.9	93	− 8	May 5	Sept. 29
Coatesville	30.0	33.5	48.4	51.4	63.8	65.4	74.6	70.2	66.3	56.2	40.6	28.9	52.4	97	− 7	May 2	Oct. 29
Coudersport	.....	.....	.....	[d]48.2	56.6	59.0	66.5	62.3	58.7	49.0	32.2	[l]19.3	.....	97	.....	May 6	Sept. 29
Derry Station	28.9	31.5	48.6	50.3	64.4	64.4	71.6	69.9	64.7	54.0	36.8	24.6	50.8	93	− 6	May 5	Oct. 12
Dushore	23.7	25.6	41.6	43.2	56.4	60.6	66.1	62.2	58.6	49.7	32.0	21.6	45.1	92	−15	May 6	Sept. 19
Dyberry	21.8	24.9	41.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
East Mauch Chunk	26.8	29.8	46.2	50.0	62.2	65.0	73.2	66.8	63.7	53.7	37.0	25.3	50.0	98	−13	Apr. 19	Oct. 25
Easton	27.6	31.5	46.8	49.8	62.8	64.4	72.4	67.4	63.8	54.2	39.8	27.4	50.7	94	− 2	May 2	Oct. 26
Emporium	24.5	27.8	45.7	47.0	60.3	61.8	69.6	65.4	59.8	52.0	35.4	24.2	47.8	91	−10	Apr. 28	Sept. 29
Ephrata	28.0	32.6	47.8	50.6	63.2	65.2	73.4	68.8	65.7	53.8	39.0	27.6	51.3	95	− 5	Apr. 22	Oct. 25
Everett	[f]25.6	[g]29.6	[e]45.9	[e]49.0	60.5	63.5	71.8	67.5	63.2	52.3	35.0	25.2	49.1	92	− 6	May 1	Oct. 27
*Erie	26.5	27.8	42.0	45.5	59.6	61.8	70.2	67.0	64.9	53.8	37.6	25.0	48.5	88	− 4	Apr. 5	Nov. 11
Franklin	25.6	28.8	48.8	47.9	61.7	62.1	69.0	66.8	63.0	52.1	35.4	24.6	48.8	92	−10	May 5	Sept. 29
Freeport	.....	30.6	49.6	50.4	65.2	65.3	72.0	72.2	66.9	53.8	36.9	[d]23.2	.....	94	− 4	May 2	Sept. 29
Gettysburg	.....	.....	.....	.....	.....	66.7	75.7	70.4	66.3	56.4	40.4	29.3	.....	97	.....	.....	Oct. 25
Gordon	.....	.....	.....	.....	.....	.....	68.8	65.4	60.8	51.9	35.5	24.0	.....	92	.....	.....	Sept. 30
Grampian	.....	27.6	45.7	45.6	58.0	60.0	68.6	.....	60.6	50.2	.....	.....	.....	90	−10	Apr. 5	Sept. 19
Greenville	25.8	28.2	46.0	47.0	61.4	62.6	70.0	66.9	62.3	52.1	35.4	23.2	48.4	94	−12	May 8	Sept. 29
Hamburg	27.9	32.4	47.2	50.3	64.0	65.2	72.9	68.4	64.5	54.8	38.2	26.2	51.0	98	− 7	May 2	Oct. 25
Hamlinton	23.5	26.9	41.8	43.8	58.2	60.9	66.4	62.0	58.2	48.5	35.8	.....	.....	90	− 8	May 2	Oct. 18
*Harrisburg	28.6	32.8	47.4	51.5	64.4	65.1	74.0	68.6	65.2	56.0	39.6	28.3	51.8	94	1	Apr. 6	Nov. 7
Hawthorn	.....	.....	.....	46.4	60.2	62.4	69.6	67.1	63.4	[e]58.0	33.1	.....	.....	92	.....	Apr. 26	Sept. 26
Huntingdon	27.5	32.2	48.0	49.4	61.5	64.1	71.3	67.1	63.0	53.6	37.0	27.2	50.2	94	− 6	Apr. 24	Oct. 25
Indiana	.....	30.6	47.8	48.5	64.2	62.8	70.0	68.0	63.2	52.8	35.6	22.8	.....	90	− 9	May 3	Oct. 21
Irwin	30.8	31.6	49.0	50.8	64.7	64.4	72.9	70.6	65.4	55.3	37.0	25.6	51.5	94	− 5	May 2	Oct. 25
Johnstown	28.9	32.4	48.6	51.0	63.6	65.5	72.8	69.9	65.0	55.0	37.6	26.4	51.4	92	− 3	Apr. 24	Sept. 28
Kennett Square	[f]29.2	34.0	47.4	51.2	62.7	64.7	72.9	68.6	65.4	55.8	41.0	29.4	51.9	92	− 4	May 2	Oct. 27
Lawrenceville	23.8	26.6	42.8	44.1	58.2	62.4	69.2	64.6	61.8	50.8	[d]33.7	[d]21.0	46.6	95	−17	May 30	Oct. 21
Lebanon	28.8	32.4	47.8	51.0	63.4	65.8	73.4	68.6	65.1	55.1	39.3	27.2	51.5	97	− 4	May 2	Oct. 25
Leroy	23.2	27.0	42.2	44.8	59.2	60.6	67.8	63.1	60.3	51.2	34.5	21.6	46.3	89	−12	Apr. 26	Sept. 30
Lewisburg	25.6	29.9	46.2	49.5	61.8	64.8	71.4	67.4	64.2	54.0	37.6	25.8	49.9	90	− 9	May 2	Sept. 25
Lockhaven	26.2	31.6	48.2	50.8	63.4	65.4	72.7	68.2	65.2	54.4	37.2	25.5	50.7	96	− 3	Apr. 5	Oct. 26
Lycippus	28.6	31.8	48.1	50.4	64.7	63.5	71.2	70.0	65.6	54.6	37.4	24.8	50.9	90	− 6	May 1	Oct. 24
Marion	.....	.....	.....	.....	.....	65.0	73.6	68.4	63.8	54.7	37.9	27.6	.....	93	.....	.....	Oct. 25
Mifflintown	.....	.....	.....	.....	.....	65.5	72.4	67.6	63.5	54.2	36.9	26.5	.....	95	.....	.....	Oct. 26
Milford	25.4	28.6	45.1	48.0	60.0	61.8	69.4	63.8	61.8	51.9	35.7	22.1	47.8	95	−12	May 2	Oct. 25
Montrose	.....	.....	.....	.....	.....	.....	.....	.....	60.6	49.4	33.4	20.4	.....	.....	.....	.....	Oct. 25
New Germantown	.....	.....	.....	.....	.....	.....	72.4	67.4	63.6	55.4	38.6	28.1	.....	94	.....	.....	.....
*Philadelphia	32.6	36.5	49.4	53.2	65.6	65.8	76.4	71.0	67.6	57.8	42.5	31.8	54.2	96	3	Apr. 5	Nov. 7
Philadelphia[1]	33.1	37.1	50.3	53.6	65.9	66.2	76.6	71.2	67.8	58.1	43.6	32.4	54.7	97	4	Apr. 5	Nov. 7
*Pittsburg	30.6	33.4	50.1	51.6	66.4	65.8	74.3	72.2	67.4	56.2	39.5	27.6	52.9	94	− 3	Apr. 5	Oct. 25
Pocono Lake	22.5	25.6	[e]40.6	48.4	55.9	58.2	65.7	60.0	57.2	47.6	31.6	20.6	44.1	87	−12	May 14	Sept. 25
Quakertown	28.8	32.2	47.8	50.4	63.0	65.1	73.0	68.5	64.8	55.2	39.4	27.6	51.3	*95	− 6	Apr. 24	Oct. 25

[1] John Comley.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Pennsylvania—Continued.																	
Reading	28.2	32.3	48.8	51.2	64.5	66.2	74.3	69.4	65.5	55.9	39.8	28.4	52.0	95	— 3	May 2	Oct. 25
Renovo	26.2	30.0	46.0	48.4	.....	.....	70.4	66.2	62.4	.....	37.0	26.1	.....	93	— 4	Apr. 29	Nov. 6
Saegerstown	24.8	27.4	44.9	45.8	59.6	61.0	68.1	65.5	62.0	51.1	34.5	22.3	47.2	92	—14	Apr. 28	Sept. 29
St. Marys	21.6	[b]26.6	[b]42.6	45.0	60.3	[c]58.9	67.2	63.9	57.9	49.6	32.9	20.4	45.7	89	—10	May 2	Sept. 19
*Scranton	26.6	30.0	45.8	47.6	60.8	63.2	70.0	65.4	62.0	52.6	36.4	25.8	48.8	92	— 3	May 2	Oct. 25
Selinsgrove	26.6	31.4	47.6	50.0	63.2	65.6	72.1	68.2	65.4	56.6	39.2	26.5	51.0	90	— 7	Apr. 24	Sept. 25
Smethport	22.2	26.6	43.5	44.2	56.8	.....	.....	63.5	59.4	49.2	32.2	19.1	.....	.....	—10	May 6	Sept. 30
Somerset	25.3	28.5	45.4	48.4	60.6	59.6	67.8	66.6	61.4	50.0	33.1	22.6	47.4	89	—12	Apr. 5	Sept. 19
South Bethlehem	28.0	32.4	47.6	51.0	63.3	64.5	72.2	66.8	.....	.....	.....	.....	.....	93	— 1	Apr. 6	.....
South Eaton	26.2	28.8	45.5	47.3	60.6	62.2	68.8	64.2	62.2	52.1	36.2	25.2	48.3	91	— 7	May 2	Oct. 25
State College	24.9	28.8	44.9	47.7	60.7	61.6	69.9	66.4	61.4	52.2	36.0	24.2	48.2	89	— 6	Apr. 27	Oct. 13
Swarthmore	.....	34.6	48.3	51.7	64.0	65.6	[f]74.0	69.6	66.2	56.2	41.4	29.8	.....	90	— 5	Apr. 6	Oct. 27
Towanda	25.6	27.9	43.9	46.0	59.2	62.0	68.8	64.4	61.4	51.8	35.0	23.6	47.5	91	—17	Apr. 28	Oct. 25
Uniontown	33.5	35.8	51.2	53.0	65.9	66.6	72.8	71.4	65.6	55.5	37.7	25.2	52.8	95	— 3	Apr. 5	Oct. 25
Warren	24.4	27.9	43.7	45.6	60.1	62.0	69.0	65.6	61.5	51.0	34.2	23.0	47.3	91	—12	May 5	Oct. 24
Wellsboro	26.3	30.5	45.1	46.2	57.5	61.6	68.9	64.0	61.4	51.6	36.0	25.6	47.9	93	— 5	Apr. 6	Sept. 29
Westchester	30.3	34.3	48.6	51.6	64.2	65.4	74.6	70.0	66.4	56.6	40.8	29.4	52.7	94	— 2	Apr. 6	Oct. 27
Wilkesbarre	28.0	31.1	45.8	47.8	60.6	61.8	71.6	65.2	61.2	52.3	36.6	26.2	49.0	95	— 2	May 2	Sept. 30
Williamsport	26.8	32.1	47.8	49.7	63.2	64.4	71.5	66.8	63.3	54.9	37.6	26.6	50.4	92	— 4	May 2	Oct. 22
York	30.4	34.4	48.9	51.8	63.0	68.0	74.6	69.6	66.4	58.8	40.4	29.2	53.0	95	— 2	Apr. 5	Oct. 26
Rhode Island.																	
*Block Island	31.4	33.0	42.2	46.8	55.4	58.3	68.4	64.8	63.0	55.7	42.0	32.4	49.4	86	5	Apr. 6	Nov. 6
Bristol	31.6	31.8	43.4	47.2	57.8	60.0	70.4	[e]66.0	[e]62.8	54.4	40.2	29.5	49.6	87	3	Apr. 6	Oct. 28
Kingston	27.6	29.8	42.6	46.1	57.4	58.4	69.2	64.1	61.8	52.2	38.0	25.6	47.7	93	— 4	May 26	Sept. 29
*Narragansett	29.6	31.3	42.2	46.2	56.0	57.8	69.3	64.2	61.6	53.2	39.4	28.0	48.2	94	— 2	May 2	Oct. 26
Pawtucket	29.4	32.0	46.8	50.2	.....	65.3	72.8	67.3	64.2	53.6	40.4	28.6	.....	.....	.....	.....	.....
Providence[1]	30.3	32.8	47.0	48.5	62.8	61.6	74.6	67.4	65.4	54.6	40.0	29.6	51.2	97	3	Apr. 6	Oct. 28
Providence[2]	28.3	30.4	44.1	47.6	59.4	60.2	71.4	64.6	63.2	53.2	38.8	27.6	49.1	.....	.....	.....	.....
South Carolina.																	
Aiken	45.9	51.6	.....	.....	.....	.....	.....	.....	.....	.....	[g]49.8	42.3	.....	.....	17	Feb. 25	Nov. 5
*Allendale	45.2	55.1	62.2	62.4	72.0	76.8	81.2	82.4	74.8	63.6	53.7	43.0	64.4	99	18	Feb. 19	Nov. 19
Anderson	41.8	46.8	57.8	60.0	71.4	73.4	80.6	80.3	73.9	63.8	51.8	40.6	61.9	100	15	Apr. 5	Oct. 25
Barksdale	[a]40.8	[a]47.6	[b]55.2	59.6	.....	[c]71.6	79.8	.....	.....	.....	[d]48.6	39.2	.....	.....	17	Apr. 24	.....
*Batesburg	42.9	48.4	60.3	59.9	70.9	73.8	78.7	79.6	71.4	60.4	51.0	41.8	61.6	100	17	Apr. 5	Oct. 25
Beaufort	49.4	54.1	63.9	63.2	71.3	76.8	80.9	81.9	75.8	66.5	56.8	47.0	65.6	98	25	Feb. 18	Nov. 19
Bennettsville	44.2	49.9	61.6	61.1	71.7	75.0	80.9	81.2	75.0	61.1	53.9	42.0	63.1	102	16	Apr. 5	Oct. 28
*Blackville	44.1	50.1	62.4	62.0	71.6	76.0	81.4	81.6	74.2	63.2	53.1	40.8	63.4	101	19	Feb. 23	Nov. 8
Bowman	45.8	53.0	62.5	62.0	71.2	75.5	81.5	81.4	73.4	63.4	52.3	42.3	63.7	101	17	Feb. 23	Oct. 28
*Charleston	48.5	53.8	62.6	63.1	71.2	76.8	81.1	82.0	75.2	65.6	55.4	45.8	65.1	98	24	Feb. 18	Nov. 19
*Cheraw	42.0	47.0	60.2	59.0	70.0	72.8	79.2	79.0	70.8	59.6	49.5	39.0	60.7	98	14	Apr. 24	Nov. 28
Clarks Hill	44.0	50.3	61.2	61.2	71.2	74.7	81.2	82.3	73.9	63.7	51.8	41.6	63.1	102	17	Feb. 24	Oct. 25
Clemson College	39.4	42.2	56.6	57.4	69.4	71.4	79.4	[b]80.5	72.6	61.2	49.4	38.9	59.9	102	10	Apr. 4	Oct. 25
*Columbia	44.0	50.0	61.1	60.8	71.0	74.2	80.8	80.5	72.8	63.6	51.6	42.4	62.7	98	19	Feb. 23	Nov. 8
Conway	46.4	51.2	62.8	60.8	70.4	75.0	80.2	81.5	72.6	61.5	52.2	41.2	63.0	100	15	Feb. 22	Oct. 28
Darlington	43.6	49.0	61.2	60.6	71.8	74.8	81.2	80.9	73.2	62.8	51.2	[e]41.0	62.6	102	15	Apr. 4	Oct. 27
Duewest	43.4	[a]48.6	59.0	59.8	70.9	73.9	[a]80.0	[c]79.7	72.4	[d]62.1	.....	41.6	.....	95	17	Feb. 24	.....
*Florence	44.4	48.8	61.0	60.8	71.7	75.1	81.8	80.8	72.2	61.2	51.4	40.5	62.5	103	17	Feb. 21	Oct. 28
Gaffney	39.2	44.8	56.8	58.6	70.6	73.8	81.8	80.8	72.2	61.1	47.8	37.4	60.4	105	15	Apr. 24	Oct. 28
Georgetown	46.0	52.9	63.8	.....	70.6	.....	.....	.....	72.4	61.0	49.0	45.8	.....	.....	.....	Feb. 21	Nov. 7
Gillisonville	47.4	53.2	62.8	62.4	70.8	76.2	79.9	81.7	74.4	63.9	54.2	43.5	64.2	99	17	Feb. 25	Oct. 28
*Greenville	37.5	42.4	54.3	55.6	66.9	68.4	76.2	75.6	68.3	57.6	45.5	34.9	56.9	94	13	Apr. 25	Oct. 25
*Greenwood	39.8	44.9	57.6	59.8	71.8	74.2	82.3	80.2	71.8	60.8	48.8	38.2	60.8	98	16	Mar. 2	Oct. 25
Heath Spring	39.2	43.6	57.7	56.6	69.2	73.4	80.4	81.1	72.4	58.4	45.8	37.8	59.6	102	12	Apr. 5	Oct. 27
*Kingstree	45.0	49.3	61.1	60.0	70.8	74.8	79.8	80.4	73.4	62.2	[e]50.0	41.6	62.2	100	15	Feb. 22	Oct. 28
Liberty	40.7	45.2	57.0	58.6	71.4	72.8	81.2	80.1	71.2	60.3	48.8	38.4	60.5	101	13	Apr. 24	Oct. 25
Little Mountain	42.7	49.6	60.3	60.9	72.3	73.8	80.6	80.6	72.4	62.6	51.0	41.8	62.4	100	17	Mar. 2	Oct. 25
Longshore	41.8	48.0	59.6	59.6	70.8	74.0	81.0	80.6	73.2	61.3	50.0	40.2	61.7	101	12	Apr. 24	Oct. 24
Lugoff	.....	.....	.....	.....	71.2	[f]72.6	81.4	80.6	72.6	59.3	49.8	40.4	.....	102	13	.....	Oct. 27
Pinopolis (*a*)	49.1	52.0	62.2	.....	68.9	74.5	78.2	.....	.....	61.9	51.3	42.0	.....	.....	24	Feb. 20	Nov. 8
*St. George	46.0	50.6	62.6	61.2	71.2	75.6	80.2	80.8	73.6	61.8	51.8	42.0	63.1	97	17	Feb. 22	Oct. 28
*St. Matthews	45.3	49.6	61.6	60.2	70.6	74.4	80.0	80.8	72.8	62.0	51.6	42.1	62.6	97	16	Feb. 22	Oct. 28
Saluda	43.1	[a]47.4	[a]62.4	61.2	70.3	[a]73.8	81.2	81.0	72.8	61.7	50.6	40.0	62.1	101	14	Mar. 26	Oct. 28
Santuck	40.4	45.6	57.9	58.4	69.8	72.0	80.2	79.5	71.2	59.5	48.8	38.2	60.1	101	13	Apr. 24	Oct. 25
Scivern	45.1	48.0	60.4	59.2	70.4	74.8	80.7	80.8	72.1	[e]60.2	50.2	39.7	61.8	102	15	Apr. 24	Oct. 24
Societyhill	43.2	49.4	60.8	61.2	71.8	74.0	80.8	80.5	71.8	60.6	49.4	40.2	62.0	95	17	Feb. 22	Oct. 28
*Spartanburg	38.8	44.5	56.2	57.8	69.4	71.6	80.2	79.0	71.0	60.5	47.2	36.7	59.4	99	10	Apr. 5	Oct. 25
Statesburg	45.1	51.6	62.2	61.9	72.0	74.4	80.6	80.0	73.0	63.6	52.2	43.2	63.3	99	20	Apr. 5	Nov. 7
Summerville	46.6	52.4	62.5	61.0	70.0	74.5	79.0	79.8	72.3	62.4	52.5	43.6	63.0	95	17	Feb. 22	Nov. 19
Sumter	.....	49.8	62.4	60.7	72.9	75.8	81.8	81.8	72.8	.....	.....	.....	.....	104	.....	Feb. 20	.....
Temperance	42.9	48.8	[b]59.8	60.1	[b]69.4	74.9	80.9	[a]80.6	.....	.....	.....	.....	.....	99	.....	Feb. 22	.....
Trenton	44.0	49.9	60.6	61.0	70.9	75.4	81.1	81.2	72.6	62.4	51.8	40.8	62.6	101	18	Feb. 23	Oct. 25
Trial	46.2	52.1	62.1	58.8	68.6	72.8	78.8	78.8	71.0	61.6	52.0	40.6	62.0	99	13	Mar. 8	Oct. 28
Walhalla	39.6	44.8	.....	.....	69.2	70.5	78.2	78.0	70.3	59.9	47.7	40.8	.....	96	12	.....	Oct. 24
Walterboro	.....	.....	.....	.....	71.2	75.4	79.8	81.0	73.6	63.6	55.4	45.9	.....	98	.....	.....	Nov. 19
Winnsboro	38.6	45.7	59.2	59.2	70.4	74.0	81.2	81.1	73.2	63.2	51.8	41.3	61.6	100	18	Apr. 8	Nov. 8
Wintrop College	40.8	47.2	58.4	59.6	70.6	72.4	80.8	79.6	71.5	61.0	49.2	38.4	60.8	99	16	Mar. 2	Oct. 27
*Yemassee	47.4	51.8	64.4	62.8	71.2	76.1	80.4	81.4	74.0	63.8	53.4	43.3	64.2	99	19	Feb. 22	Oct. 28
Yorkville	41.8	48.4	59.2	61.2	69.8	74.2	82.8	81.3	72.1	63.0	50.6	41.0	62.1	101	18	Mar. 8	Nov. 7
South Dakota.																	
*Aberdeen	11.0	6.2	29.4	44.2	60.7	67.4	71.3	68.6	58.2	51.8	29.6	15.3	42.8	101	—39	May 11	Sept. 15
Academy	20.4	14.6	32.7	48.9	59.6	65.8	72.6	69.8	59.5	54.4	35.8	22.0	46.2	101	—22	Apr. 30	Sept. 16
Alexandria	14.6	10.0	32.5	46.6	58.0	65.4	71.0	68.6	59.2	52.4	31.0	16.6	43.8	100	—29	May 1	Sept. 16
Arnour	16.6	11.6	32.6	45.0	58.4	66.5	72.4	70.0	60.0	53.4	33.3	20.8	45.0	101	—24	May 2	Sept. 16
Ashcroft	24.2	15.9	32.0	46.0	54.9	63.8	68.4	67.8	55.4	49.8	32.1	27.6	44.8	103	—37	June 10	Sept. 12

[1] City engineer.

[2] Ladd Observatory.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
Bowdle	13.6	7.6	27.2	43.6	57.2	65.0	[a]68.2	[a]68.2	53.4	.....	[a]21.0	15.0	.....	106	−30	May 11	Sept. 12
Brookings	13.8	10.7	30.6	45.2	56.6	62.2	67.0	65.2	56.6	48.8	28.3	12.5	41.5	94	−27	June 11	Sept. 16
Canton	21.0	16.2	34.6	48.0	59.3	64.7	70.8	67.3	59.8	51.9	32.3	17.4	45.3	91	−29	Apr. 30	Sept. 16
Cavite	.....	[c]14.9	33.5	49.1	[c]58.7	67.0	73.8	71.0	58.6	.....	.....	.....	.....	104	.....	May 13	Sept. 13
Chamberlain	19.8	14.6	33.1	50.0	61.3	68.0	74.8	72.0	61.1	55.5	33.8	20.2	47.0	105	−22	Apr. 30	Sept. 16
Clark	.....	.....	27.4	.....	.....	66.9	69.3	66.2	55.4	50.8	28.0	11.9	.....	98	.....	June 10	Sept. 16
Clear Lake	.....	.....	.....	.....	.....	.....	67.6	65.6	56.6	49.2	28.4	13.0	.....	91	.....	.....	Sept. 13
Desmet	.....	.....	.....	44.8	.....	[c]65.2	[a]68.4	[a]68.0	.....	.....	.....	.....	.....	97	.....	.....	.....
Doland	13.6	7.3	29.8	45.8	58.3	64.8	69.7	67.9	58.2	50.2	28.0	12.0	42.1	93	−33	June 11	Sept. 16
Elkpoint	22.4	16.5	36.6	49.8	62.6	68.2	74.3	71.9	61.8	55.6	36.0	21.0	48.1	97	−20	May 3	Oct. 16
Fairfax	[b]20.4	.....	34.8	51.0	60.2	65.8	72.0	68.4	.....	[f]53.6	34.0	25.2	.....	95	.....	May 2	Sept. 14
Faulkton	13.2	8.6	26.6	45.8	57.4	66.0	68.0	66.0	55.2	50.3	28.8	15.8	41.8	98	−29	May 13	Sept. 16
Flandreau	15.6	13.0	31.5	45.6	56.3	61.4	67.4	65.2	57.0	50.0	29.4	14.5	42.2	90	−28	May 4	Sept. 16
Forestburg	12.4	8.0	30.9	46.8	59.0	64.6	71.0	68.9	59.0	52.8	30.4	13.6	43.1	100	−34	May 7	Sept. 16
Fort Meade	29.4	17.9	31.8	47.0	54.8	64.8	76.4	68.9	56.4	53.7	33.2	[b]30.7	47.1	103	−20	Apr. 30	Sept. 14
Gannvalley	16.3	11.0	31.2	49.0	60.2	66.8	73.8	71.4	59.4	52.8	30.8	16.4	44.9	107	−27	May 3	Sept. 16
Gary	.....	4.5	29.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gettysburg	10.6	10.4	.....	43.2	57.2	65.2	69.0	67.6	54.8	49.6	28.8	16.6	.....	102	−28	May 4	Sept. 13
Grand River School	19.6	12.4	29.4	47.2	57.2	65.7	71.2	67.5	58.4	46.6	.....	.....	.....	105	−28	May 12	Sept. 13
Greenwood	23.3	17.0	35.8	50.8	60.9	66.3	73.2	71.0	62.0	55.5	35.6	25.2	48.0	96	−17	Apr. 30	Sept. 16
Hitchcock	.....	.....	.....	.....	.....	.....	.....	.....	.....	52.8	.....	.....	.....	.....	.....	.....	.....
Hotch City	17.4	11.2	30.2	47.8	57.8	64.0	73.4	71.2	58.6	52.8	31.4	19.4	44.6	104	−27	May 12	Sept. 13
Howard	.....	[c]14.4	33.2	47.8	58.6	64.0	68.9	67.8	59.0	[a]50.6	[c]31.4	15.4	.....	91	−25	May 4	Sept. 16
Howell	14.0	8.6	28.0	45.8	57.4	65.7	70.2	67.3	56.0	50.0	28.6	14.6	42.2	101	−28	May 13	Sept. 13
*Huron	13.4	7.5	30.4	46.0	58.2	63.9	70.2	68.2	57.8	51.0	29.2	14.4	42.5	98	−31	May 3	Sept. 16
Interior	.....	.....	33.6	45.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ipswich	13.0	6.3	26.0	44.0	56.2	.....	69.0	66.7	54.5	48.2	27.2	13.4	.....	101	−31	May 13	Sept. 16
Kidder	.....	.....	.....	.....	.....	.....	.....	.....	54.4	48.7	26.2	11.6	.....	.....	.....	.....	Sept. 14
Kimball	17.6	11.6	31.4	49.4	58.2	64.6	71.6	68.4	58.2	52.7	31.4	18.6	44.5	96	−25	Apr. 30	Sept. 16
Leola	8.2	5.3	.....	44.4	57.2	66.0	69.6	67.0	53.8	49.8	29.0	16.2	.....	103	−36	May 12	Sept. 13
Leslie	20.6	16.8	31.2	47.6	56.6	66.6	71.5	69.7	55.4	50.8	29.8	21.0	44.8	106	−28	.....	.....
Marion	18.4	14.6	33.8	48.4	[c]60.1	64.3	[a]69.8	67.9	[c]58.4	51.9	[f]30.5	16.0	44.5	94	−20	Apr. 30	Sept. 15
Meilette	12.5	7.4	28.9	46.2	57.8	65.0	68.6	67.0	57.2	50.5	30.4	13.8	42.1	97	−30	May 6	Sept. 13
Menno	18.5	13.2	33.7	48.6	59.8	64.8	70.8	68.9	59.4	52.5	32.8	18.2	45.1	96	−21	May 3	Sept. 16
*Millbank	12.4	10.6	29.3	45.6	57.8	64.6	68.2	66.8	60.6	.....	.....	.....	.....	96	−25	June 11	Sept. 15
*Mitchell	15.9	11.0	32.0	47.6	59.5	65.7	71.4	69.3	60.5	52.4	30.8	16.0	44.3	97	−24	Apr. 30	Sept. 16
Oelrichs	26.2	15.5	31.9	45.9	54.4	62.6	71.0	70.1	52.9	50.6	31.2	27.2	45.0	103	−22	May 11	Sept. 9
Pedro	[b]22.2	16.0	31.5	48.8	[f]57.8	65.6	72.6	72.2	57.2	52.6	31.8	25.6	46.2	110	−21	May 21	Sept. 16
*Pierre	19.4	13.7	31.8	48.6	60.2	68.0	73.7	71.0	58.5	54.0	32.2	20.4	46.0	105	−20	Apr. 30	Nov. 5
Pine Ridge	22.4	15.6	33.6	47.8	54.2	[c]62.8	72.6	.....	56.6	51.0	33.3	27.6	.....	.....	−24	June 10	Sept. 12
Plankinton	[b]18.8	.....	35.6	49.2	59.0	65.8	71.8	69.0	58.0	51.4	31.4	[b]16.8	.....	96	−27	May 3	Sept. 16
Ramsey	15.6	11.0	31.6	45.9	58.4	62.8	68.7	[a]65.6	58.0	50.4	29.5	.....	.....	92	.....	June 11	Sept. 16
*Rapid City	28.9	18.6	30.8	45.7	53.8	62.5	69.2	68.0	55.0	51.8	34.0	30.0	45.7	100	−16	May 2	Sept. 17
*Redfield	12.2	6.9	26.0	44.3	56.8	64.6	69.4	66.7	55.4	49.4	27.9	[c]12.1	41.0	95	−30	June 1	Sept. 17
Rosebud	24.2	18.2	33.2	48.6	58.5	66.8	.....	.....	[a]59.4	.....	.....	[c]26.4	.....	.....	−20	Apr. 30	Sept. 14
St. Lawrence	.....	.....	.....	.....	.....	65.3	71.0	69.3	[a]55.2	.....	.....	.....	.....	100	.....	.....	Sept. 13
Sioux Falls	17.0	12.4	32.6	46.8	59.0	64.3	70.1	67.0	58.8	51.4	[f]28.4	13.7	43.5	92	−28	May 3	Sept. 16
Sisseton Agency	13.0	9.9	27.2	43.8	56.0	62.8	66.6	[a]63.7	54.2	49.4	28.6	13.2	40.7	89	−30	June 11	Sept. 16
Spearfish	31.4	17.6	29.7	45.4	50.8	62.2	68.2	67.6	53.9	51.8	33.9	32.4	45.4	95	−15	May 2	Sept. 16
Stephan	.....	.....	.....	.....	.....	.....	.....	.....	[c]57.0	50.7	29.6	15.5	.....	.....	.....	.....	Sept. 16
Tyndall	18.8	13.8	34.1	49.8	59.8	64.8	70.9	69.3	60.6	53.2	34.0	20.8	45.8	100	−21	May 3	Sept. 16
Vermilion	21.4	16.0	35.8	49.2	60.5	66.5	73.4	70.2	62.5	.....	.....	.....	.....	95	.....	Apr. 30	Sept. 16
Watertown	12.1	8.4	28.7	43.5	55.6	61.9	[a]66.5	64.4	54.8	47.4	28.6	11.9	40.3	92	−30	June 11	Sept. 16
Waubay	10.8	4.9	27.6	44.0	54.8	61.8	65.4	.....	.....	.....	.....	.....	.....	90	.....	June 11	.....
Wentworth	14.8	10.8	31.6	45.9	57.2	63.0	68.5	66.4	57.0	51.0	28.8	13.9	42.4	91	−25	May 7	Sept. 16
*Yankton	21.7	13.4	34.8	49.0	60.2	66.8	72.5	70.3	60.8	53.8	33.5	21.2	46.5	95	−22	Apr. 30	Nov. 5
Tennessee.																	
Andersonville	36.2	40.0	54.8	55.6	65.8	67.6	75.5	73.5	67.3	55.8	42.8	31.0	55.5	94	1	Apr. 24	Oct. 23
*Arlington	.....	.....	.....	59.2	68.5	69.6	80.8	78.5	69.1	59.0	.....	.....	.....	.....	.....	.....	Oct. 21
Ashwood	40.2	42.8	54.8	57.3	67.4	68.4	77.4	[a]78.2	69.8	60.4	46.5	36.4	58.3	98	0	Apr. 22	Oct. 19
Benton	39.4	44.8	56.8	57.9	68.4	69.2	76.0	76.4	69.5	57.4	45.3	.....	.....	95	7	Apr. 24	Oct. 10
*Bolivar	38.2	39.2	54.6	57.7	68.0	69.0	80.4	78.0	69.4	58.8	46.8	35.9	58.0	97	− 1	Apr. 4	Oct. 25
Bristol	33.6	37.7	52.8	52.0	60.6	66.2	75.9	[a]76.8	[a]67.8	54.5	40.7	30.6	54.6	93	3	Apr. 21	Oct. 19
*Brownsville	.....	.....	.....	59.3	69.2	70.9	.....	78.0	68.6	57.8	.....	.....	.....	.....	.....	.....	Sept. 24
Byrdstown	37.7	40.8	54.5	56.4	68.3	68.2	76.0	74.6	68.6	56.8	43.1	33.4	56.5	93	− 4	Apr. 24	Oct. 24
Carthage	39.4	.....	56.9	57.6	69.2	69.7	78.8	78.0	71.6	62.1	45.9	33.7	.....	98	.....	.....	.....
*Chattanooga	39.6	44.2	56.6	57.8	68.4	70.8	78.0	78.1	71.6	60.0	46.6	37.0	59.1	94	6	Apr. 24	Oct. 28
Clarksville	38.2	39.9	53.7	57.7	68.6	69.8	79.2	78.6	71.0	59.6	45.2	34.6	58.0	95	− 2	Apr. 4	Oct. 25
*Covington	39.6	40.2	53.6	60.0	68.6	70.4	80.6	78.8	70.0	60.6	47.4	37.2	58.9	96	2	Mar. 26	Oct. 25
Decatur	37.7	43.2	56.2	57.1	68.3	69.8	77.2	77.0	69.2	59.1	45.0	34.2	57.8	96	6	Apr. 24	Oct. 25
Dickson	.....	40.6	55.0	56.6	66.9	66.9	75.9	75.2	69.2	58.7	44.9	*33.0	.....	94	− 5	Apr. 24	Oct. 19
Dover	[c]38.3	.....	.....	.....	.....	67.4	78.6	.....	.....	60.4	46.4	35.1	.....	.....	.....	.....	Oct. 24
*Dyersburg	.....	.....	.....	57.0	69.6	69.6	80.6	79.6	71.6	61.3	.....	.....	.....	.....	.....	.....	Oct. 25
Elizabethton	36.3	40.6	55.3	52.1	68.1	67.7	76.2	74.8	69.7	55.6	41.8	33.4	56.0	96	6	Apr. 24	Oct. 25
Erasmus	34.6	39.4	52.8	53.0	62.8	64.2	72.7	71.6	64.0	54.2	41.3	29.6	53.4	91	−5	Apr. 24	Oct. 19
Florence	39.1	41.4	54.5	57.4	68.3	69.6	77.8	76.8	70.0	59.4	45.8	35.0	57.9	94	1	Apr. 5	Oct. 19
Franklin	38.6	41.2	54.4	57.2	67.9	69.2	77.9	77.6	69.7	59.5	44.8	34.6	57.7	94	0	Apr. 5	Oct. 25
Grace (α)	38.4	44.6	58.0	58.8	71.5	71.0	80.0	79.6	69.7	61.9	47.0	34.0	59.1	96	4	Apr. 5	Oct. 19
Greeneville	36.0	40.8	54.0	54.3	65.8	66.6	74.1	73.4	.....	56.4	43.9	33.2	.....	95	3	Apr. 24	Oct. 25
Harriman	.....	41.6	54.2	55.8	67.8	68.0	76.4	75.7	68.4	56.6	43.8	32.5	.....	94	5	Apr. 24	Oct. 24
Hohenwald	37.8	41.2	53.2	57.1	65.2	66.0	75.4	75.6	67.8	57.4	43.5	35.2	56.3	98	−4	May 2	Sept. 18
Iron City	39.4	43.0	55.2	57.8	66.7	68.2	77.5	77.6	69.0	58.8	45.8	35.0	57.8	97	0	Apr. 24	Oct. 18
Isabella	36.6	40.8	53.8	52.4	67.2	68.6	75.5	76.8	68.6	55.6	44.2	33.2	56.1	94	7	Apr. 25	Oct. 25
Jackson	40.8	41.0	55.2	60.0	67.2	69.2	78.8	77.5	68.6	59.4	46.2	36.7	58.4	102	−4	May 2	Oct. 24
Johnsonville	39.2	40.8	54.6	58.6	67.9	69.2	79.4	78.8	70.2	58.8	45.6	35.1	58.2	99	−1	Apr. 5	Oct. 24
Jonesboro	37.4	41.4	54.4	58.4	66.2	67.6	75.4	74.4	67.2	56.4	42.4	32.2	55.7	92	6	Apr. 24	Oct. 19
Kenton	39.0	40.2	54.4	58.3	68.2	69.2	79.4	78.2	70.4	59.4	45.8	36.2	58.2	99	−1	Apr. 4	Oct. 18

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
*Knoxville	37.4	42.0	55.8	56.2	69.0	69.1	77.3	76.4	70.0	57.8	44.4	34.4	57.5	95	8	Apr. 5	Oct. 25
Lafayette					67.8		79.6			57.4	43.6	31.6					Oct. 24
Lebanon	37.6		53.6	57.2	69.0			79.0			46.6					Apr. 5	Oct. 19
Lewisburg	39.6	43.2	54.8	57.6	68.3	70.1	78.6	78.6	70.5	60.0	46.2	35.9	58.6	97	0	Apr. 5	Oct. 19
Liberty					68.6	[a]69.1	77.6	77.7	69.6	60.2	45.2	32.9				Apr. 5	Oct. 19
Lynnville	39.4	41.5	55.8	56.2	68.2	70.2	77.6	77.2	69.9	59.6	47.0	35.7	58.2	94	1	Apr. 5	Oct. 25
McKenzie	[c]40.9	40.2	56.4	59.6	69.7	[a]70.2		79.6	73.6	61.4	46.1					Apr. 4	
McMinnville	38.4	42.8	55.5	56.4	67.6	68.1	76.7	76.0	69.0	59.2	45.0	34.0	57.4	95	0	Apr. 24	Oct. 25
Maryville	38.0	43.3	56.0	57.2	69.5	70.0	78.4	77.5	71.2	58.6	45.2	35.2	58.3	98	9	Apr. 24	Oct. 24
*Memphis	42.0	42.2	56.4	61.6	69.4	71.8	80.8	79.2	72.7	62.6	48.4	39.9	60.6	94	6	Mar. 1	Oct. 2
*Milan				58.1	68.0	69.4	80.1	78.0	69.0	59.2						Apr. 4	Oct. 25
*Nashville	38.6	41.4	54.2	57.6	69.0	70.4	79.6	78.9	71.6	60.8	45.2	34.9	58.5	97	1	Apr. 4	Oct. 25
Newport	38.0	42.6	56.4	56.0	69.0	70.8	77.4	76.1	69.2	57.1	44.0	33.6	57.5	94	10	Apr. 5	Oct. 25
Nunnelly	38.5	40.6	54.0	57.8	67.4	66.8	76.4									Apr. 5	
Oakhill	36.2	42.0	55.5	56.0	68.0		74.5	73.2								May 2	
Palmetto	39.8	42.6	55.7	57.8	69.0	69.6	78.5	78.2	70.6	60.6	46.0	35.0	58.6	96	0	Apr. 5	Oct. 25
Pope	39.5	41.4	55.6	59.6	67.9	69.3	79.2	78.4	70.4	59.4	47.4	36.4	58.7	100	5	May 3	Oct. 19
Rogersville	37.6	41.6	56.0	55.3	67.1	68.0	75.6	75.2	69.6	57.6	43.4	32.7	56.6	94	7	Apr. 24	Oct. 25
Rugby	34.6	38.8	52.6	52.8	64.6	65.8	74.4	73.8	65.4	55.2	40.8	30.4	54.1	95	−11	Apr. 24	Sept. 18
Savannah	41.4	43.5	57.2	59.7	70.0	70.5	80.5	79.4	71.6	61.1	48.4	37.7	60.1	99	2	Apr. 4	Oct. 19
Sewanee	36.5	40.6	53.0	54.6	65.9	66.8	74.4	74.4	69.2	58.3	43.9	33.3	55.9	92	1	Apr. 23	Oct. 24
Silverlake	33.2	38.6	50.7	50.0	62.5	63.3	69.7	69.2	61.8	51.1	38.5	28.0	51.4	87	0	Apr. 24	Oct. 19
Springdale	37.4	41.8	55.1	54.4	66.0	69.2	76.4	76.0	67.0	55.8	42.6	30.4	56.0	96	4	Apr. 24	Oct. 24
Springville	41.6	40.6	54.4	58.4	68.6	68.7	80.3	78.8	70.0	59.2	45.8	35.2	58.5	98	− 7	Apr. 23	Oct. 18
Tellico Plains	40.5	45.2	57.0	58.6	68.6	69.8	77.0	77.3	69.4	59.0	47.0	36.2	58.8	97	10	Apr. 24	Oct. 19
Tracy City	36.6	41.2	54.0	54.2	65.0	66.6	74.2									Apr. 24	
Trenton	40.4	41.2	54.8	59.3	68.5	69.2	79.9	78.4	70.2	60.6	47.6	37.4	59.0	98	− 1	Apr. 4	Oct. 19
Tullahoma	39.2	43.5	55.4	57.4	68.0	69.2	77.7	77.0	69.2	59.0	45.5	34.2	57.9	97	0	Apr. 24	Oct. 25
Union City	[b]38.6	39.0	54.8		[a]71.6	[a]69.0	79.5	[b]78.3									
Waynesboro	39.2	42.2	55.2	58.6	67.0	69.0	78.4	78.5	69.6	60.0	47.4	37.6	58.6	98	1	May 5	Oct. 18
Wildersville	41.0	41.8	55.4	59.6	67.7	68.8	78.1		69.2	59.6	46.5	37.0			0	Mar. 26	Oct. 24
Yukon	[g]40.3	43.5	55.8	57.6	68.6	69.8	77.9	77.8	71.6	63.0	47.4	36.8	59.2	95	2	Apr. 5	Oct. 25
Texas.																	
*Abilene	45.4	40.3	52.3	64.0	68.4	71.8	82.2	82.4	72.6	63.4	53.9	48.2	62.1	101	11	Mar. 2	Nov. 17
Albany	44.8	40.7	51.8	64.6	69.8	71.6	82.5	82.4	73.2	63.0	53.3	46.5	62.0	98	12	Mar. 1	Sept. 19
Alvin				[a]70.2		77.5	74.6	83.5	78.0	69.0	60.0	53.3					Nov. 19
*Amarillo	38.6	29.2	43.4	55.5	62.0	65.8	78.2	76.4	67.4	58.1	46.8	39.2	55.0	98	− 3	Apr. 30	Oct. 16
Anson																Mar. 29	
Austin	51.1	51.6	61.9	66.4	73.2	78.2	82.6	82.6	76.0	66.8	58.4	52.6	66.8	100	17	Feb. 18	Nov. 18
*Ballinger	44.6	42.6	52.8	63.4	68.0	72.5	81.8	81.7	72.8	62.2	53.2	46.1	61.8	100	12	Mar. 21	Nov. 17
Bastrop			60.7	66.9												Mar. 1	
Beaumont	52.1	54.5	62.0		72.6	75.8	82.2	82.6									
*Beeville	53.3	54.0	61.3	68.8		77.6	83.4	83.4	80.2	71.3	62.9	[c]54.4		99	20	Feb. 18	
Bigspring	44.2	40.8	55.0	64.4	70.2	73.4	83.8	83.9	74.2	63.4	51.4	45.8	62.8	101	22	Feb. 18	None.
*Blanco	45.8	45.4	53.6	62.3	67.3	71.6	77.6	79.2	73.8	64.1	54.6	49.2	62.8	106	6	Mar. 28	Oct. 24
Boerne (d)	47.2	47.3	55.8	64.1	68.8	73.1	76.7	78.8	73.2	63.9	56.1	50.4	63.0	96	14	Mar. 2	Nov. 18
Bonham	45.4	43.1	55.4	64.3	69.8	73.4	81.0	82.0	72.3	61.0	51.6	46.8	62.2	99	12	Mar. 1	Nov. 18
Bowie	43.4	40.1	52.2	64.1	69.2	72.7	82.2	83.8	75.3	63.8	51.8	45.6	62.0	110	6	May 1	Nov. 17
Brazoria	54.6	56.0	63.4	67.6	72.4	[a]77.2	80.8	[b]81.1						105	5	May 1	Nov. 18
*Brenham	49.8	50.2	59.1	67.3	72.3	76.3	81.4	81.9	76.8	66.9	58.6	52.4	66.1	93	20	Feb. 18	
Brighton	55.6	56.7	62.7	69.4	74.2	77.0	81.5	82.5	79.9	[c]72.4	64.0	57.2	69.4	100	18	Feb. 18	Nov. 18
*Brownwood		49.2	61.2		66.1	72.1	80.0	85.0	74.2	65.4	54.9	48.4		90	22	Feb. 17	Dec. 26
Burnet	45.9	44.4	56.8	65.2	70.3	74.2	79.6	81.2	75.0	65.9	56.4	50.8	63.8	105	21	Feb. 21	Nov. 17
Camp Eagle Pass	51.8	[c]53.0	59.0	70.2	78.3	78.3	87.0	90.3	78.3	66.6	58.0	53.3	68.7	100	12	Mar. 2	Nov. 18
Childress	42.2	37.1	50.5	62.2	67.7	72.4	84.2	83.6	74.2	64.3	50.2	44.6	61.1	104	21	Mar. 22	Oct. 27
Clarksville				68.2	68.4	71.4	80.0	[b]80.3						108	9	Mar. 28	Nov. 17
Coleman	48.4	42.4	54.2	62.8	67.5	71.4	79.6	81.0	74.5	64.0	56.7	[c]50.4	62.7	97	12	May 1	
College Station	50.2	49.7	60.2		73.6	77.4	81.9	83.2	78.0	68.6	59.6	53.4		110	17	May 1	Nov. 17
Colorado	42.8	[a]40.4	[c]55.8			74.2	83.8	[a]83.6	73.6	63.2	54.3	[c]45.9		108	2	Feb. 18	Nov. 18
Columbia	58.8	55.2	62.8	68.2	73.0	76.7	80.8	81.6	76.0	68.2	64.9	55.0	68.0	98	20	Mar. 24	Nov. 24
Comanche	[a]46.2	43.0	53.1	63.8	68.3	72.2	80.5	81.6	74.0	64.4				102	10	Feb. 18	Nov. 27
*Corpus Christi	55.6	55.6	62.3	69.7	74.4	77.3	81.4	82.1	78.8	71.7	63.9	56.8	69.1	92	27	May 1	Oct. 24
*Corsicana	50.0	51.5	58.9	65.0	69.2	72.7	82.5	83.8	76.2	66.0	55.4	49.5	65.1	104	20	Feb. 17	None.
Cotulla	53.4		62.6	69.7	73.6	84.8	87.4	89.0	77.1	69.8	62.8	59.6		106	23	May 1	Nov. 18
*Cuero	51.0	53.4	61.4	68.8	74.0	78.8	82.3	82.4	77.4	68.4	58.0	52.4	67.4	100	22	Feb. 14	Nov. 25
*Dallas	43.8	42.6	53.8	63.6	70.0	73.3	80.4	82.6	74.6	62.9	52.4	47.0	62.2	102	12	Feb. 19	Nov. 18
Danevang	52.8	53.2	61.5	66.8	73.8	77.6	82.2	82.1	77.2	68.4		53.8		99	19	May 1	Nov. 18
†Dialville	48.8	47.9	58.2	65.6	69.8	73.0	79.6	80.2	74.6	64.6	[a]56.2	48.6	63.9	97	9	Mar. 1	Nov. 27
*Dublin	43.1	42.2	51.8	63.8	67.6	73.2	81.0	82.0	72.9	62.8	51.4	48.1	61.7	100	11	Mar. 2	Nov. 18
Duval	49.3	48.2	58.3	68.0	72.4	74.6	78.8	80.6	76.3	67.8	58.7	52.7	65.5	95	15	Mar. 25	Nov. 17
*El Paso	45.8	48.6	54.4	64.6	69.4	75.4	82.8	80.1	73.8	62.9	54.4	44.4	62.6	102	14	Mar. 1	Nov. 18
Estelle	44.6	43.4	55.2	65.0	71.1	74.0	81.3	83.1	75.6	63.8	53.8	48.2	63.3	102	10	Mar. 8	Nov. 18
Fort Brown	59.6	61.6	64.9	70.0	77.3	79.8	84.4	84.0	80.6	73.2	67.8	60.9	72.0	98	26	Mar. 24	Oct. 18
Fort Clark	46.6	46.7	54.3	65.0	69.8	72.5	77.1	79.0	72.7	66.7	55.4	49.6	63.0	97	15	Feb. 16	None.
Fort Davis	43.4	42.4	51.2	61.0	65.2	68.6	76.8	73.8	68.8	59.0	52.2	43.6	58.8	96	4	Mar. 2	Nov. 17
Fort McIntosh	55.0	54.0	60.5	72.2	78.6	81.6	85.0	84.6	80.8	72.5	64.4	56.4	70.5	103	24	Apr. 30	Oct. 24
Fort Ringgold	59.1	62.0	65.0	74.9	79.8	82.8	86.4	84.4	80.6	73.6	66.8	57.4	72.7	107	26	Feb. 18	Nov. 27
*Fort Worth	46.0	43.4	54.1	64.4	69.6	73.3	80.6	82.1	74.8	63.7	53.8	47.4	62.8	100	12	Feb. 17	Dec. 10
Fredericksburg	[g]47.4	46.4	56.0	64.0	69.0	73.2	79.6	[a]79.8	[c]73.6	63.7	56.0	49.7	63.2	96	18	May 1	Nov. 18
Gainesville	42.4	41.2	53.1	63.4	68.8	[c]71.3	[a]79.8	81.4	[c]74.2	[d]62.2	50.2	43.9	61.0	100	5	Mar. 1	Nov. 18
*Galveston	52.2	53.6	62.0	67.6	72.9	76.0	81.4	82.0	79.1	70.5	61.9	55.0	67.8	91	24	May 1	Nov. 17
Gatesville	47.7	46.9	57.5	66.2	70.6	74.3	81.9	82.6	76.5	66.2		50.8				Feb. 17	None.
Georgetown	50.2	47.4	57.0	65.8	72.6	[a]75.5				66.7	58.5					Mar. 2	Nov. 18
Grapevine	44.8	[a]42.0	54.7	65.4	71.0	74.2	80.2	83.8	75.9	64.2	[a]53.8	[a]48.8	63.2	103	7	Mar. 1	Oct. 24
*Greenville	42.9	42.8	57.4	65.2	71.0	75.0	82.8	84.2	74.6	62.8	52.6	46.3	63.1	103	3	May 1	Nov. 17
Hale Center	43.5	38.8	50.7	60.4	66.5	69.1	79.0	77.6	70.2	61.6	51.0	43.6	59.3	99	5	Mar. 24	Nov. 17
Hallettsville	53.1	52.2	62.4	68.6	74.0	78.0	82.6	82.2	77.5	68.7	60.6	55.0	67.9	96	21	Apr. 30	Oct. 23
																Feb. 18	Nov. 18

† Observations made at Jacksonville, 9 miles distant, from January to July inclusive.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
Haskell	43.4	39.2	53.4	64.0	69.0	73.6	85.0	85.8	75.3	64.4	53.1	47.7	62.8	109	7	Apr. 30	Nov. 17
*Hearne	50.8	.....	63.8	69.0	70.2	80.0	85.1	86.8	76.8	71.3	63.0	[b]57.0	.....	102	19	Mar. 1	.....
*Henrietta	42.5	39.4	52.0	63.7	68.2	72.8	84.6	83.8	74.8	64.0	52.6	46.4	62.1	109	8	May 2	Nov. 17
Hillsboro	.....	.....	.....	.....	.....	75.0	79.2	82.2	75.2	64.1	54.0	47.8	.....	.....	.....	.....	Nov. 16
Hondo	.....	48.6	.....	.....	[a]69.1	.....	80.2	80.4	76.2	67.2	59.2	52.8	.....	100	16	Feb. 18	Nov. 18
*Houston	50.9	52.6	62.2	69.6	74.0	78.7	82.6	82.0	77.8	67.9	59.2	52.6	67.5	99	20	Feb. 18	Nov. 19
*Huntsville	48.2	47.3	58.0	64.6	71.2	74.6	81.5	81.9	74.8	[c]63.8	.....	.....	.....	97	15	Feb. 22	Nov. 18
Ira	44.4	40.1	53.0	63.6	68.0	72.1	82.7	82.2	72.8	64.2	55.0	[c]47.4	62.1	107	4	Mar. 28	Oct. 23
Jasper	52.8	53.6	62.4	67.8	71.8	[a]73.8	.....	[a]82.0	76.0	67.0	[a]57.9	54.2	.....	95	17	Feb. 18	Nov. 18
Jefferson	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53.0	45.8	.....	.....	.....	.....	Nov. 18
Kaufman	46.3	45.4	58.0	65.3	71.7	74.4	82.1	84.3	76.8	64.8	53.4	47.9	64.2	100	14	Mar. 1	Nov. 18
Kent	.....	.....	.....	63.4	68.4	71.8	79.0	78.4	73.4	60.9	55.8	44.9	.....	.....	.....	Apr. 30	Oct. 9
*Kerrville	47.5	56.7	.....	63.4	68.3	70.8	77.2	77.2	71.0	63.4	64.1	58.1	.....	98	.....	Apr. 4	Oct. 25
*Lampasas	46.4	45.4	54.8	63.8	69.3	73.6	80.4	81.2	74.4	64.8	54.4	48.6	63.1	102	11	May 2	Oct. 25
Llano	47.6	45.0	.....	63.1	65.2	74.6	83.6	82.9	74.2	64.0	57.2	50.4	.....	102	19	May 31	Nov. 18
*Longview	45.6	47.0	58.6	64.6	70.7	74.3	81.6	83.6	75.1	64.1	52.8	47.0	63.8	101	12	Mar. 1	Nov. 18
*Luling	48.7	49.0	58.8	66.7	72.6	75.8	80.4	81.2	76.2	67.0	57.2	50.8	65.4	95	18	Mar. 2	Nov. 18
Mann	48.0	45.8	57.9	65.7	70.1	73.6	80.2	81.4	74.3	[d]62.8	.....	.....	.....	98	13	May 1	.....
Marlin	45.6	45.2	56.4	64.4	71.6	75.0	81.2	82.0	76.1	66.5	54.8	50.9	64.1	99	18	Apr. 29	Nov. 18
McKinney	.....	.....	.....	61.1	68.1	73.9	78.6	80.6	.....	.....	.....	.....	.....	.....	.....	May 1	.....
Menardville	44.2	42.4	52.6	63.9	67.6	71.6	80.6	80.5	73.4	62.8	.....	.....	.....	103	12	May 1	Oct. 24
Mount Blanco	41.6	35.3	49.7	59.4	66.2	68.4	80.5	78.8	70.8	59.7	49.0	41.8	58.4	102	6	Apr. 30	Oct. 24
*Nacogdoches	46.7	48.6	58.7	64.2	68.8	71.8	78.9	80.3	72.8	63.0	54.2	47.1	62.9	96	13	Feb. 23	Nov. 18
New Braunfels	[c]50.1	.....	59.4	67.2	72.6	76.9	80.0	[a]80.8	76.6	67.4	59.6	54.0	.....	94	.....	Feb. 28	Nov. 18
*Palestine	47.8	47.0	58.6	64.6	69.7	73.2	79.6	80.8	74.1	64.8	56.0	50.0	63.8	95	14	Mar. 1	Nov. 18
*Paris	42.8	43.0	51.3	63.2	68.7	74.3	82.2	82.0	73.6	63.2	52.2	44.6	61.8	102	— 2	Mar. 24	Nov. 17
Pearsall	51.8	52.8	60.6	68.6	75.3	78.7	83.0	83.4	79.0	69.8	62.4	56.5	68.5	102	23	Feb. 18	Nov. 18
Port Lavaca	.....	.....	62.9	69.0	74.0	77.2	81.9	82.6	79.0	71.1	62.4	56.0	.....	93	.....	Feb. 17	None.
Rhineland	44.4	38.3	51.0	62.4	67.4	72.3	83.3	81.5	72.6	63.9	50.9	44.4	61.0	105	5	May 1	Oct. 24
Rockisland	52.0	[c]52.4	62.1	67.1	72.6	76.6	80.8	80.9	76.8	68.4	60.0	53.8	67.0	97	20	Feb. 17	Nov. 18
Rockport	54.2	56.2	55.6	67.8	71.4	77.2	81.6	82.0	77.8	70.1	62.0	58.4	67.9	93	30	Feb. 16	None.
Runge	52.4	[b]52.8	61.2	[c]68.4	[c]74.8	79.2	83.8	85.0	[c]79.4	[c]69.6	[b]60.8	[c]56.0	68.5	100	20	Feb. 16	Nov. 18
*San Antonio	51.4	50.1	59.2	67.1	72.0	75.8	79.8	81.2	76.7	68.4	60.2	54.2	66.3	99	19	Feb. 17	Nov. 18
Sanderson	47.1	46.0	56.3	65.5	74.4	75.9	85.5	.....	.....	.....	.....	.....	.....	103	16	Feb. 17	.....
*San Marcos	50.2	49.4	59.1	.....	72.0	76.6	81.0	.....	.....	.....	.....	.....	.....	98	17	Feb. 18	.....
San Saba	47.4	45.4	55.4	65.4	70.0	73.2	80.6	81.8	75.2	64.6	55.9	49.4	63.7	103	11	May 1	Oct. 24
Shaeffer Ranch	54.5	55.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Sherman	44.1	42.8	62.6	61.6	68.0	73.1	81.4	82.0	73.6	68.9	54.8	49.3	62.3	97	13	Mar. 2	Nov. 17
Sonora	46.4	44.8	55.3	65.2	68.2	71.6	79.9	81.5	74.2	63.2	54.6	47.8	62.7	100	15	May 1	Nov. 18
Sugarland	53.1	52.6	64.2	68.3	73.6	76.8	81.0	82.2	76.6	67.8	59.8	54.1	67.5	95	18	Feb. 17	Nov. 19
Sulphur Springs	45.4	45.4	57.0	65.0	69.5	73.6	80.4	81.4	74.0	63.4	53.0	46.4	62.9	96	8	May 1	Nov. 18
*Taylor	48.8	47.0	57.6	66.0	71.4	75.0	79.8	80.4	74.9	65.2	56.9	50.8	64.5	97	17	Mar. 1	Nov. 17
Temple[1]	44.8	43.2	54.8	64.6	69.6	73.0	79.8	80.2	74.5	63.8	52.5	47.2	62.3	97	14	Mar. 2	Nov. 17
*Temple[2]	45.8	43.4	55.6	64.1	70.0	74.4	80.0	80.0	74.1	63.7	54.4	48.8	62.9	97	15	.....	.....
Trinity	51.2	50.1	60.8	66.6	71.9	75.3	81.6	82.2	75.8	66.2	56.9	50.7	65.8	100	14	Feb. 18	Nov. 18
Tulia	38.9	30.8	.....	.....	.....	.....	.....	.....	64.2	57.7	48.1	40.3	.....	.....	0	.....	Oct. 16
*Tyler	45.3	45.8	57.3	65.4	71.0	74.6	82.6	83.1	74.8	63.4	53.3	46.3	63.6	100	12	Mar. 2	Nov. 18
Victoria	[a]54.1	[c]53.6	[c]62.6	.....	[a]73.8	[c]78.2	82.3	[c]82.1	[c]77.2	70.4	[c]62.1	55.8	.....	98	20	Feb. 18	None.
*Waco	51.7	50.8	57.8	67.0	73.0	76.8	84.8	84.6	77.0	65.4	56.3	50.8	66.3	101	20	Mar. 2	Nov. 18
*Waxahachie	.....	.....	.....	.....	71.8	75.4	81.8	83.2	74.8	63.6	52.4	46.6	.....	103	18	Mar. 1	Nov. 17
*Weatherford	44.5	42.6	53.4	64.7	69.8	73.8	82.8	83.4	75.0	63.4	52.8	46.0	62.7	101	9	May 1	Nov. 18
Weimar	52.6	.....	.....	.....	.....	78.3	[c]81.6	82.2	78.0	.....	.....	.....	.....	99	.....	.....	.....
*Wharton	58.6	58.3	62.4	70.8	74.6	78.2	83.8	83.6	.....	.....	.....	.....	.....	97	20	Feb. 17	.....
Utah.																	
Aneth	26.4	27.2	44.8	53.2	60.4	70.9	77.1	77.3	64.2	54.8	42.0	27.4	52.1	102	— 4	Apr. 2	Sept. 12
Blackrock	29.6	11.2	38.8	46.2	53.2	64.8	67.6	69.1	57.4	48.1	39.4	25.2	45.9	94	—24	.....	Sept. 12
Bluecreek	31.7	25.6	42.8	55.9	60.5	.....	75.0	82.0	56.6	.....	41.5	25.7	.....	103	—11	.....	Nov. 9
Callao	[c]29.2	.....	.....	[c]48.8	54.6	.....	73.8	72.4	59.6	49.3	35.9	24.1	.....	99	— 4	Apr. 29	Sept. 13
Castledale	21.4	14.0	36.2	43.6	51.6	63.8	68.8	[c]69.8	57.8	48.6	34.8	[c]22.4	44.4	104	—23	May 28	Sept. 19
Cisco	22.6	13.1	39.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—22	.....	.....
Corinne	28.0	16.7	39.5	47.4	55.0	70.8	72.0	75.2	60.0	50.6	38.7	25.4	48.3	105	—14	May 3	Sept. 16
Coyoto	[d]19.8	14.0	.....	[a]43.4	[c]48.4	.....	[a]65.6	62.2	52.5	44.8	[d]37.6	24.2	.....	88	—24	.....	Aug. 1
Deseret	29.0	10.2	39.6	46.5	54.2	67.0	69.0	71.2	59.0	53.5	37.4	25.4	46.8	98	—28	May 9	Aug. 30
Emery	26.2	19.2	35.1	40.8	47.4	58.7	62.8	70.0	52.6	48.8	38.4	25.8	43.8	85	—11	May 29	.....
Escalante	23.0	20.2	.....	47.4	56.0	66.4	69.5	70.6	61.1	50.6	39.8	28.1	.....	96	—11	May 23	Sept. 16
Farmington	29.8	19.1	40.6	47.4	53.4	69.2	70.9	71.2	55.3	48.8	39.1	27.6	47.7	95	— 9	Apr. 30	Sept. 8
Fillmore	38.5	19.6	41.1	47.9	55.9	71.0	73.6	77.6	64.6	53.6	[a]42.0	31.6	51.0	95	— 9	Apr. 30	Oct. 7
Fort Duchesne	.....	[c]1.6	28.3	44.3	52.4	65.2	68.5	69.0	57.0	46.2	[1]31.8	18.2	.....	98	—35	May 25	Sept. 9
Frisco	32.3	20.9	37.7	44.5	53.0	69.7	76.0	74.6	61.3	52.0	43.4	33.0	49.9	98	— 6	May 19	Oct. 30
Garrison	.....	16.8	40.8	46.9	54.2	66.6	73.7	72.8	61.2	50.7	40.8	27.0	.....	98	—18	.....	Sept. 9
Giles	18.8	12.9	37.3	49.6	58.4	69.7	75.2	74.8	61.2	46.9	37.0	23.2	47.1	104	—18	May 18	Sept. 12
Government Creek	29.2	16.0	36.4	44.8	51.6	66.2	72.4	73.8	60.2	49.8	39.8	26.4	47.2	95	—15	Apr. 29	Oct. 30
Greenriver	20.2	13.9	46.2	54.2	[a]62.8	79.8	79.2	[d]76.9	64.2	57.9	39.8	23.8	51.7	108	—23	.....	Sept. 11
Grover	29.2	24.0	35.0	43.2	51.7	63.8	68.8	68.5	57.2	49.2	40.4	29.0	46.7	94	— 5	May 24	Sept. 12
Heber	24.2	10.7	33.3	42.7	49.6	61.8	64.0	65.6	53.4	45.3	36.8	21.6	42.4	96	—30	May 29	Sept. 16
Henefer	25.3	9.0	32.7	42.0	48.4	61.0	64.6	66.4	52.8	47.0	35.2	22.4	42.2	95	—39	Apr. 30	Sept. 9
Hite	34.4	32.4	48.6	57.6	66.7	77.8	82.1	84.8	69.8	61.6	48.0	34.6	58.2	107	11	May 24	Oct. 31
Ibapah	29.2	14.8	36.2	43.5	49.7	62.5	64.0	67.0	55.2	46.0	36.3	23.2	44.0	96	—32	.....	Aug. 24
Kanab	.....	[c]27.2	43.8	52.0	59.5	69.1	72.2	73.7	64.6	56.0	49.8	.....	.....	100	0	May 19	.....
Kelton	22.8	.....	35.2	44.6	52.6	68.2	72.4	75.8	56.9	.....	.....	.....	.....	97	— 2	May 20	Sept. 9
Lasal	25.0	17.2	34.4	43.2	50.4	61.2	70.5	68.8	.....	.....	.....	.....	.....	89	—12	May 23	.....
Levan	26.0	14.0	35.2	44.8	51.0	64.8	68.8	71.4	57.8	47.8	38.4	24.2	45.4	94	—15	May 23	Sept. 12
Loa	15.2	7.2	29.4	36.0	44.8	58.4	74.1	68.0	54.8	44.6	35.8	23.6	41.0	110	—35	June 15	Sept. 7
Logan	27.2	13.3	36.2	46.8	52.5	67.0	68.6	72.5	58.2	50.4	35.3	24.0	45.9	96	—17	May 18	Sept. 14
Lund	[d]31.2	12.1	39.0	46.1	54.8	67.6	73.3	72.2	[c]60.6	49.9	38.8	27.1	47.7	99	—30	May 18	Sept. 17
Manti	27.8	16.2	35.5	44.4	50.8	63.6	72.6	69.3	58.2	49.0	38.4	26.0	46.0	94	—16	May 25	Sept. 12
Marysvale	28.9	17.9	36.8	43.6	51.5	62.5	66.6	67.0	56.7	48.9	40.6	27.8	45.7	92	—19	May 26	Sept. 12

[1] W. G. Jones.

[2] Cotton region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Utah—Continued.																	
Meadowville	23.0	6.4	21.9	38.9	47.4	59.2	62.8	65.6	51.8	42.6	32.0	23.8	39.6	90	−36	May 25	Sept. 9
Minersville	33.3	16.8	39.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−18	.....	.....
Moab	27.0	24.2	45.0	54.4	61.8	71.3	76.0	77.3	64.4	53.4	42.4	28.4	52.1	102	− 9	Apr. 30	Sept. 13
*Modena	32.1	15.0	37.6	44.1	53.0	65.7	68.8	71.6	59.2	50.0	39.9	27.6	47.0	94	−17	May 24	Sept. 12
Monticello	26.2	22.6	35.8	42.6	51.2	63.2	72.0	74.7	57.6	53.0	44.2	29.2	47.7	91	− 9	May 24	Sept. 12
Morgan	.....	12.3	34.8	43.0	48.7	62.2	64.3	66.7	54.0	c46.3	35.3	21.6	.....	94	−31	Apr. 30	Sept. 10
Mount Nebo	28.1	15.0	38.6	49.0	53.0	66.8	74.4	74.2	60.9	52.4	39.8	27.6	48.3	98	−15	May 25	Sept. 15
Mount Pleasant	27.2	18.8	37.4	45.4	52.5	65.6	69.5	72.6	58.9	49.0	40.6	28.6	47.2	96	−15	May 24	Sept. 11
Ogden	28.7	18.4	39.6	48.5	55.4	70.6	74.6	74.0	58.8	51.0	38.8	26.8	48.8	95	− 9	May 19	Oct. 7
Park City	27.1	17.0	33.0	40.4	50.2	63.8	67.8	.....	54.4	46.8	37.8	27.2	.....	101	−13	.....	Sept. 8
Parowan	30.9	19.8	38.0	44.6	53.2	64.8	73.6	68.9	57.1	48.5	40.6	27.2	47.3	97	−18	May 17	Sept. 12
Pinto	a30.0	18.1	34.0	42.2	c49.7	59.4	64.4	65.4	54.4	f43.6	37.8	b27.5	43.9	90	−19	May 18	Sept. 7
Plateau	24.0	14.5	30.7	40.6	46.4	58.4	68.6	64.6	53.6	44.1	39.7	22.8	42.3	95	−26	June 25	Sept. 7
Promontory(*a*)	.....	.....	.....	.....	.....	.....	75.2	79.0	65.6	52.6	.....	21.8	.....	99	0	.....	.....
Provo	29.9	17.4	40.6	48.2	53.9	65.6	69.6	71.2	58.8	50.2	38.8	28.4	47.8	97	−18	May 20	Sept. 9
Ranch	25.2	17.0	29.6	41.2	50.2	57.8	60.4	65.3	55.8	49.3	40.2	30.4	43.5	90	−19	May 18	Sept. 7
Richfield	30.3	.....	40.4	.....	54.2	63.9	67.0	68.3	55.8	a48.0	.....	26.1	.....	94	3	May 23	Aug. 26
St. George	38.7	31.7	48.7	56.4	65.6	75.9	77.6	79.5	66.7	56.2	44.8	33.6	56.3	110	5	May 24	Oct. 3
Salt Air	.....	.....	.....	.....	.....	.....	73.6	72.5	62.4	51.4	39.4	27.6	.....	96	8	.....	.....
*Salt Lake City	32.0	20.0	42.3	48.2	54.8	70.4	73.6	76.6	61.6	53.2	42.0	29.6	50.4	98	− 4	Apr. 13	Oct. 30
Scipio	29.6	13.4	38.2	45.8	52.4	66.8	71.8	71.2	58.9	48.0	38.9	26.2	46.8	100	−29	May 9	Aug. 27
Snowville	24.6	12.7	35.3	42.5	49.6	64.4	67.2	66.8	54.2	46.6	33.4	24.8	43.5	97	−22	May 28	Sept. 8
Soldier Summit	.....	.....	.....	47.3	54.2	66.7	.....	.....	.....	.....	.....	.....	.....	90	.....	June 8	.....
Terrace	26.4	12.9	37.9	46.8	54.5	68.8	70.6	73.3	59.3	49.4	35.4	26.3	46.8	100	−19	May 25	Sept. 10
Thistle	21.8	22.2	38.1	50.0	56.7	68.7	75.1	76.0	61.6	53.0	43.6	31.6	49.9	103	− 8	May 5	Oct. 24
Tooele	30.7	20.3	40.6	46.8	54.0	69.0	73.9	77.1	62.0	51.8	39.4	28.0	49.5	102	− 5	May 9	Oct. 7
Tropic	23.2	c13.8	40.0	44.4	51.0	63.2	68.2	67.6	58.0	52.6	41.4	30.8	46.2	90	−32	May 23	Sept. 11
Vernal	18.6	10.0	33.5	47.8	55.0	67.6	70.0	70.6	57.9	50.0	35.6	.....	.....	96	−25	May 19	Oct. 31
Wellington	f23.8	c16.6	c36.0	b46.2	b53.2	66.0	70.8	69.2	59.4	.....	37.2	c24.2	.....	99	−21	May 22	.....
Woodruff	14.8	c2.6	c19.8	38.2	45.4	57.8	63.4	62.2	49.1	.....	.....	d19.8	.....	97	−36	May 24	Aug. 27
Vermont.																	
Burlington	21.9	24.8	40.0	46.0	61.8	64.5	70.3	64.2	64.1	51.1	35.8	20.8	47.1	90	−13	May 2	Oct. 25
Cavendish	.....	.....	39.8	43.2	56.8	58.6	67.2	59.6	59.7	47.6	33.0	19.6	.....	93	−13	May 31	Sept. 8
Chelsea	15.4	20.0	35.2	39.6	55.4	58.8	64.4	58.7	57.2	44.3	29.0	14.4	41.0	87	−23	May 25	Sept. 29
Cornwall	20.4	23.8	f41.4	45.0	60.8	62.3	68.0	62.4	e62.7	50.5	35.0	19.3	46.0	93	−17	May 2	Oct. 19
Derby	.....	.....	.....	.....	57.6	60.7	64.7	58.8	59.0	45.6	30.4	12.4	.....	87	−15	May 24	Oct. 15
Enosburg Falls	15.4	19.0	36.9	40.5	54.6	61.0	65.8	58.9	57.2	46.5	29.8	15.2	41.7	89	−28	May 31	Sept. 8
Hartland	19.0	22.0	39.7	43.4	56.1	58.2	65.4	58.2	.....	.....	.....	.....	.....	90	−36	June 3	.....
Jacksonville	19.4	20.3	37.9	41.5	54.0	56.6	61.2	53.4	53.4	39.7	24.8	14.9	39.8	85	−20	June 5	Sept. 8
Manchester	21.8	25.0	41.0	43.7	57.2	59.7	66.2	60.0	58.8	48.8	32.2	20.2	44.6	87	−13	June 3	Sept. 31
Morrisville	17.2	19.8	38.0	41.6	57.6	61.4	66.8	59.8	59.2	46.4	30.4	15.4	42.8	95	−20	June 2	Sept. 8
*Northfield	16.6	19.2	37.6	40.8	54.2	57.5	64.0	57.4	56.8	45.4	29.7	14.8	41.2	89	−20	June 1	Sept. 8
Norwich	17.0	20.7	37.8	42.2	.....	59.0	65.0	58.7	58.1	46.6	30.6	15.9	.....	.....	.....	.....	.....
St. Johnsbury	16.0	20.5	38.8	42.0	56.8	60.8	66.6	60.4	60.6	46.6	30.9	17.2	43.1	91	−29	May 31	Sept. 26
Wells	18.6	23.9	38.8	41.8	58.0	61.2	67.0	60.8	59.3	47.2	31.4	18.4	43.9	90	−18	May 25	Oct. 19
Woodstock	20.2	22.4	40.9	43.2	57.0	59.6	67.4	60.6	59.8	49.4	33.5	21.2	44.6	94	−21	May 31	Sept. 24
Virginia.																	
Alexandria	33.7	37.8	51.2	54.8	66.0	69.0	78.2	.....	.....	.....	.....	.....	.....	100	5	Apr. 5	.....
Ashland	35.4	40.8	53.2	55.8	65.7	68.2	77.6	74.2	68.2	57.4	43.0	33.0	56.0	97	8	Apr. 6	Oct. 19
Barboursville	36.5	40.4	54.0	55.6	65.7	67.2	76.2	72.9	67.4	58.8	44.6	34.1	56.1	95	2	Apr. 5	Oct. 27
Bedford	36.2	41.9	53.6	57.4	68.8	70.4	79.2	76.8	70.1	60.0	45.8	33.2	57.8	100	6	Apr. 5	Nov. 7
Bigstone Gap	35.8	40.5	54.8	54.3	66.3	67.3	74.0	73.9	65.6	55.2	42.1	31.2	55.1	94	− 3	Apr. 24	Oct. 19
Blacksburg	32.5	35.2	47.2	50.5	61.6	63.9	71.8	70.4	62.0	53.2	37.6	28.4	51.2	91	− 1	May 2	Sept. 29
Bonair	36.2	41.8	53.1	56.4	65.9	69.7	77.8	77.3	.....	.....	.....	.....	.....	98	5	.....	.....
Boykins	.....	.....	.....	.....	.....	.....	.....	79.0	75.7	.....	.....	.....	.....	.....	.....	.....	.....
Buckingham	36.4	40.1	52.0	55.4	65.7	68.4	77.1	74.0	67.0	56.6	b39.1	33.1	55.4	99	10	May 1	Oct. 18
Burkes Garden	29.7	35.2	46.8	47.2	58.9	59.5	66.8	67.0	57.8	48.8	34.5	25.4	48.1	86	− 6	May 5	Sept. 19
Callaville	37.3	41.7	52.0	56.7	65.1	69.0	75.4	74.8	66.7	55.9	45.9	37.6	56.5	95	12	Apr. 5	Oct. 27
*Cape Henry	40.6	44.3	51.8	56.8	64.4	68.6	78.0	76.8	71.0	60.3	46.8	38.1	58.1	98	16	Mar. 14	Nov. 19
Charlottesville	35.7	40.2	52.9	56.0	65.0	67.1	76.8	73.0	68.0	59.2	45.7	33.4	56.1	97	2	Apr. 6	Oct. 27
Columbia	33.0	37.4	51.1	52.9	64.0	66.0	73.8	71.2	64.6	54.0	44.2	.....	.....	99	3	May 5	Oct. 19
Dale Enterprise	31.6	35.2	49.6	51.5	62.6	63.6	72.6	69.8	64.0	54.8	39.7	29.6	52.1	95	− 9	May 7	Sept. 25
Elk Knob	.....	.....	.....	.....	.....	.....	73.9	73.2	68.4	57.0	41.9	29.9	.....	.....	.....	.....	Oct. 24
Farmville	38.2	42.2	.....	56.4	65.9	70.8	78.9	75.4	67.6	57.8	a48.8	33.2	.....	99	12	May 3	Oct. 26
Fredericksburg	33.2	.....	52.0	54.7	65.7	68.0	77.0	73.6	67.4	56.6	42.4	32.2	.....	98	8	Apr. 7	Oct. 27
Grahams Forge	a32.6	.....	.....	a50.3	63.0	e64.4	a71.0	.....	.....	.....	.....	.....	.....	.....	.....	May 2	.....
Hampton	40.6	44.2	53.8	55.8	66.9	69.6	78.4	77.2	71.2	60.0	46.6	37.4	58.5	96	13	Apr. 5	Oct. 27
Hot Springs	30.0	34.9	48.0	48.7	61.6	62.0	68.8	68.8	60.6	51.4	35.7	26.2	49.7	88	− 6	Apr. 27	Oct. 18
Lacrosse	37.8	42.5	55.5	57.6	67.8	69.3	79.0	77.0	69.0	57.8	.....	.....	.....	99	11	Apr. 6	Oct. 26
Lexington	33.8	39.8	52.0	53.2	64.4	66.4	74.5	72.5	66.8	56.0	41.1	31.5	54.3	95	3	May 2	Oct. 19
Lincoln	31.5	35.5	49.7	52.4	63.1	66.2	74.8	71.2	65.4	56.0	39.8	28.7	52.8	99	−13	May 2	Oct. 25
*Lynchburg	36.6	41.2	52.8	56.1	66.4	68.8	77.6	74.2	67.8	58.0	43.5	34.4	56.4	96	8	Apr. 5	Oct. 27
Manassas	33.0	37.1	49.6	53.1	63.6	67.4	75.8	72.2	66.2	56.6	.....	.....	.....	96	2	Apr. 6	Oct. 27
Marion	b34.1	d39.1	e52.6	d51.0	f64.6	e65.8	d71.8	e71.8	e65.2	d54.2	e38.8	e28.8	53.1	94	− 4	Apr. 29	Oct. 13
McDowell	.....	.....	.....	47.5	.....	61.6	69.6	69.2	63.7	54.2	39.0	28.0	.....	.....	.....	.....	Oct. 14
Newport News	40.2	45.2	54.0	57.6	68.7	75.2	81.7	80.1	74.0	63.2	44.8	37.0	60.1	105	13	Mar. 4	Nov. 7
*Norfolk	41.2	46.0	54.6	58.0	66.0	70.3	78.7	77.2	70.4	60.6	47.1	38.2	59.0	97	14	Apr. 5	Oct. 28
Petersburg	36.9	42.2	53.7	57.2	e66.8	69.0	77.9	75.5	69.4	58.8	45.6	35.2	57.4	99	10	Mar. 8	Oct. 27
Quantico	.....	.....	50.2	54.6	65.2	68.4	78.2	73.2	68.2	61.4	44.2	33.4	.....	.....	.....	Apr. 5	Nov. 7
*Richmond	38.2	43.0	54.4	57.8	67.8	70.2	79.3	75.8	69.4	58.9	44.8	36.2	58.0	98	11	Apr. 5	Nov. 7
Roanoke	33.0	38.1	50.3	52.0	62.3	64.8	71.8	71.2	e61.8	.....	37.0	.....	.....	93	7	Apr. 24	.....
Rockymount	38.4	38.8	49.3	52.6	63.8	.....	71.2	71.4	62.0	53.2	38.8	28.8	.....	89	7	Apr. 6	Oct. 27
Saxe	37.7	42.2	53.5	54.4	65.8	69.0	72.7	69.2	67.6	55.1	44.0	33.7	55.4	101	8	May 1	Oct. 27
Spottsville	39.2	43.7	53.8	56.8	66.6	69.0	78.0	75.8	69.0	57.2	45.2	35.5	57.5	98	12	Apr. 22	Oct. 19
Stanardsville	28.2	34.0	52.7	52.2	62.3	e64.2	75.0	69.7	67.4	55.2	b42.2	.....	.....	100	− 6	Apr. 7	Oct. 25
Staunton	34.6	39.2	52.1	54.5	64.0	64.6	74.4	72.4	66.2	57.1	41.5	31.6	54.4	95	− 5	May 2	Oct. 25
Stephens City	.....	e36.0	50.3	53.3	64.2	65.5	74.2	70.8	65.6	56.7	40.5	30.3	.....	101	− 6	Apr. 6	Oct. 25

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Virginia—Continued.																	
Warsaw	35.4	40.1	53.1	55.8	66.8	66.5	78.1	74.8	68.8	57.4	°40.6	f33.0	56.0	97	6	Apr. 6	Oct. 27
Westpoint	34.4	39.8	51.6	53.6	f72.1	74.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 7	.....
Wilkersons	35.5	39.7	51.9	55.4	66.0	68.2	77.6	74.0	68.6	58.0	44.0	35.9	56.1	98	8	Apr. 6	Oct. 27
Williamsburg	39.0	42.1	53.0	56.2	65.0	68.2	78.0	75.1	68.3	57.8	44.8	35.8	56.9	98	9	Mar. 4	Oct. 27
Woodstock	29.6	34.5	50.6	51.9	65.2	66.4	75.4	72.8	67.0	57.0	41.4	30.5	53.5	101	— 4	May 2	Oct. 19
Wytheville[1]	31.9	38.4	50.5	51.8	63.7	65.3	73.6	73.0	64.2	55.4	39.8	30.6	53.2	94	— 1	Apr. 5	Oct. 19
*Wytheville	32.2	37.8	49.3	50.6	62.3	63.5	71.5	70.8	62.3	53.2	37.6	28.8	51.7	90	— 2	Apr. 5	Sept. 19
Washington.																	
Aberdeen	.....	38.9	43.0	45.0	52.8	60.0	57.9	60.5	57.4	53.6	44.6	42.4	.....	100	.....	Apr. 22	Nov. 12
Blaine	39.1	36.0	39.2	45.9	52.2	59.8	59.2	59.2	54.0	48.7	43.6	40.0	48.1	83	20	Apr. 17	Oct. 3
Bremerton	40.8	37.4	40.4	45.6	52.8	59.3	60.0	60.8	59.4	55.4	44.2	.....	.....	98	.....	Apr. 28	Nov. 17
Brinnon	40.8	38.6	41.4	46.8	53.0	61.1	61.8	62.2	56.7	51.7	43.4	40.8	49.9	86	24	Apr. 11	Nov. 10
Cedonia	26.6	24.0	33.8	41.2	51.6	63.8	61.4	63.6	51.4	46.2	33.0	27.2	43.6	92	2	May 8	Sept. 15
Centralia	41.6	38.2	42.0	47.0	54.6	61.8	61.0	62.8	57.7	52.8	44.3	40.3	50.3	101	18	June 3	Nov. 17
Clearbrook	.....	.....	39.8	47.6	52.4	61.4	60.0	60.5	55.6	50.4	41.0	38.8	.....	98	.....	May 24	Oct. 2
Clearwater	41.6	38.4	41.2	45.8	51.7	58.2	58.8	60.4	56.4	52.2	43.2	41.0	49.1	99	25	Apr. 28	Nov. 3
Clealum	29.0	24.7	35.2	41.2	49.6	59.4	60.2	61.4	52.2	47.2	33.2	29.4	43.6	97	— 9	May 21	Sept. 3
Colfax	33.5	31.1	40.8	44.9	53.4	63.2	62.4	64.2	55.8	51.4	40.2	.....	.....	101	.....	May 21	Sept. 15
Colville	27.8	22.2	37.4	44.2	54.4	65.1	63.1	64.9	52.6	45.5	33.0	28.5	44.9	99	—11	May 24	Sept. 3
Conconully	24.8	21.8	31.2	43.4	54.1	64.5	62.8	63.4	52.8	45.9	31.6	27.0	43.6	93	— 4	May 21	Sept. 29
Coupeville	41.4	38.8	41.2	47.2	52.2	58.8	58.7	60.6	55.0	51.6	45.2	43.0	49.5	88	25	Apr. 11	Oct. 30
Crescent	28.4	25.3	35.8	43.0	53.2	64.2	62.8	65.3	53.2	46.6	33.4	28.4	45.0	98	0	May 21	Sept. 11
Danville	.....	.....	.....	.....	54.0	65.4	64.6	65.2	52.3	45.4	33.8	28.0	.....	98	.....	May 21	Sept. 3
Dayton	.....	.....	42.3	47.3	55.6	67.6	66.2	66.8	59.1	53.4	42.4	34.0	.....	97	.....	May 21	Oct. 15
Eastsound	.....	37.4	39.1	44.8	b51.8	59.2	58.4	60.2	52.8	°49.2	f42.8	41.2	.....	89	12	May 21	Sept. 30
Ellensburg	27.7	21.8	39.0	44.6	53.4	64.4	63.7	64.9	54.2	47.4	33.0	29.4	45.5	96	— 1	May 7	Sept. 27
Ephrata	.....	.....	.....	°51.4	59.9	72.2	73.7	74.4	.....	.....	35.1	29.2	.....	107	.....	Apr. 12	.....
Grandmound	41.6	37.8	40.6	46.2	53.6	60.6	60.7	62.0	56.9	53.0	43.8	40.0	49.7	98	14	June 3	Nov. 8
Hooper	34.8	33.3	42.6	°47.8	57.6	70.0	69.5	70.7	60.3	52.7	b45.0	.....	.....	100	.....	May 21	Sept. 3
Ilwaco	43.6	40.6	43.0	46.5	51.8	b58.3	58.0	59.6	57.6	.....	.....	.....	.....	100	.....	Apr. 11	.....
Lacenter	39.8	37.2	42.0	46.8	53.8	61.6	61.8	62.6	.....	51.4	43.2	39.2	.....	96	20	Apr. 14	Oct. 30
Lakeside	27.0	24.6	37.0	48.5	58.0	69.4	69.4	70.6	60.0	50.3	35.8	24.9	48.0	96	4	Apr. 11	Oct. 3
Lind	32.9	30.4	41.5	49.0	59.6	72.4	71.3	71.2	58.9	53.8	39.2	29.7	50.8	104	6	May 28	Sept. 26
Loomis	27.7	22.2	35.2	48.9	57.7	71.2	68.3	69.4	57.7	49.3	33.2	29.0	47.5	98	0	Apr. 15	Oct. 29
Mayfield	39.4	.....	m41.1	.....	m53.4	61.2	60.9	.....	.....	.....	.....	s39.7	.....	.....	.....	.....	.....
Mottinger Ranch	37.2	35.8	46.3	53.3	62.0	72.3	73.0	74.2	64.6	55.4	43.0	34.6	54.3	105	14	Apr. 15	Oct. 31
Mount Pleasant	38.9	37.5	44.5	47.4	58.6	f62.2	62.0	63.2	59.2	55.4	45.5	38.8	50.7	94	22	Apr. 11	Nov. 18
Moxee	29.6	29.5	41.2	46.8	56.2	67.0	67.4	68.2	57.2	49.6	36.6	30.0	48.3	100	2	May 20	Sept. 26
*North Head	45.0	42.2	43.8	46.0	49.6	56.0	56.0	57.6	56.2	54.9	47.7	46.4	50.1	96	30	Mar. 13	None.
Northport	.....	.....	.....	d44.2	53.1	b65.8	.....	63.6	51.4	42.6	33.2	29.3	.....	.....	.....	May 24	Sept. 3
Odessa	.....	.....	37.4	44.8	53.7	66.6	67.0	73.8	59.0	52.6	37.2	29.0	.....	105	.....	July 14	Sept. 13
Olga	42.8	39.6	40.8	47.1	51.5	58.4	57.1	60.0	54.8	48.5	43.9	43.0	49.0	79	25	Apr. 11	Oct. 16
Olympia	42.4	38.8	42.5	47.5	54.8	62.0	61.8	63.2	58.3	52.8	45.5	42.0	51.0	96	19	Apr. 19	Nov. 17
Pinehill	35.8	34.2	42.8	48.5	57.3	65.8	66.4	68.0	60.2	50.7	40.4	34.4	50.4	100	12	Apr. 28	Sept. 30
Pomeroy	36.4	34.1	42.1	47.8	56.4	68.8	68.2	69.6	59.0	54.1	42.1	33.4	51.0	106	13	May 24	Sept. 30
*Port Crescent	39.8	37.8	38.4	43.2	47.8	54.2	54.2	55.0	52.4	48.4	42.4	40.6	46.2	84	21	Apr. 17	Nov. 11
Port Townsend	42.2	39.7	41.4	47.2	52.0	58.6	58.8	60.0	55.8	51.5	45.0	42.8	49.6	88	27	Mar. 30	Nov. 10
Pullman	31.8	29.5	38.2	44.6	b52.6	65.0	b64.6	b65.2	55.6	b52.0	b38.6	32.6	47.5	101	6	May 22	Sept. 30
Rattlesnake Mountains	31.3	27.2	b35.3	.....	.....	64.2	63.8	.....	56.1	49.2	34.4	29.3	.....	.....	.....	.....	Oct. 7
Republic	25.0	21.8	34.0	.....	52.0	63.0	60.6	62.6	49.5	44.5	31.0	26.0	.....	96	— 8	June 14	Sept. 2
Rosalia	31.4	28.2	37.3	43.2	52.0	63.4	62.3	64.0	53.4	49.9	38.3	31.0	46.2	97	— 1	May 7	Sept. 15
*Seattle	42.9	40.2	42.5	47.9	54.6	61.9	61.9	63.2	57.7	53.6	46.0	42.6	51.2	96	24	Mar. 19	Nov. 17
Sedro-Woolley	40.0	38.4	41.6	47.6	55.8	61.2	60.8	62.1	56.4	52.8	44.8	41.2	50.1	93	21	May 24	Nov. 10
Silvana	40.8	36.9	40.4	°47.5	52.5	59.4	m56.9	62.1	54.6	50.4	d45.4	39.0	48.8	89	18	Apr. 28	Oct. 14
Snohomish	39.8	36.5	40.8	45.9	53.0	61.6	61.4	61.7	57.0	52.0	45.4	40.0	49.6	97	17	Apr. 10	Nov. 10
Snoqualmie	39.4	36.3	42.4	46.0	54.9	63.4	.....	64.1	57.4	.....	.....	40.4	.....	.....	.....	May 3	.....
Southbend	43.6	40.9	42.6	45.9	d52.4	58.4	59.7	°61.0	56.2	55.4	46.6	42.8	50.5	94	22	Apr. 11	Nov. 10
South Ellensburg	28.9	23.7	37.5	43.8	.....	65.5	66.6	66.6	55.9	47.0	34.8	28.2	.....	100	— 2	.....	Sept. 16
*Spokane	32.1	27.7	39.0	44.8	54.2	66.6	65.6	67.8	55.4	49.2	36.8	31.3	47.5	97	4	Apr. 29	Sept. 30
Sunnyside	34.4	31.0	42.4	48.5	57.8	69.1	67.4	67.8	58.8	51.2	39.0	30.8	49.8	99	— 2	May 20	Sept. 30
*Tacoma	41.5	38.7	41.6	46.4	53.3	60.8	60.8	62.3	56.7	52.2	45.3	41.0	50.0	97	22	Mar. 13	Nov. 17
*Tatoosh Island	43.4	42.0	42.4	45.6	49.0	54.8	54.7	55.2	53.4	52.0	45.8	45.2	48.6	84	29	Mar. 7	None.
Trinidad	28.8	26.9	42.3	49.8	64.6	74.8	76.2	67.2	64.6	55.0	36.0	30.2	52.1	106	5	May 7	Oct. 31
Twisp	.....	.....	.....	44.4	54.4	65.9	64.0	67.4	56.3	48.6	30.6	21.8	.....	101	.....	May 21	Sept. 28
Union	f40.8	f36.8	41.8	°46.4	°58.9	60.8	61.2	62.6	56.4	°52.8	b42.8	b41.6	49.8	97	22	Apr. 11	Nov. 10
Usk	28.8	20.2	°34.2	42.4	b50.9	m64.2	60.4	f62.5	50.4	43.6	°33.6	29.6	43.4	93	—13	May 25	Sept. 1
Vancouver	41.6	40.0	44.9	49.0	56.9	63.4	64.2	65.8	60.0	54.6	45.0	39.2	52.0	98	19	Apr. 15	Nov. 17
Vashon	42.1	39.0	41.5	46.8	53.4	60.4	60.8	62.2	57.0	52.4	45.0	42.0	50.2	86	23	Apr. 11	Nov. 12
*Walla Walla	38.2	34.8	44.0	49.4	58.8	69.7	70.4	71.9	61.9	55.4	42.1	33.5	52.5	101	13	Apr. 5	Nov. 16
Waterville	23.4	21.6	29.8	42.7	53.3	65.9	65.0	65.4	54.4	47.2	30.6	22.9	43.5	98	— 5	May 8	Sept. 30
Wenatchee (near)	27.8	27.6	37.4	45.2	55.4	66.6	66.8	67.3	57.0	49.6	33.4	26.6	46.7	97	4	May 7	Oct. 30
Whatcom	41.5	38.6	41.6	47.4	52.0	59.5	59.0	60.0	55.6	51.8	45.4	41.8	49.5	86	19	Apr. 28	Oct. 30
Wilbur	25.8	22.4	34.8	41.8	51.6	62.4	59.8	63.4	53.4	46.8	32.2	27.3	43.5	96	— 7	July 30	Sept. 9
Zindel	37.4	s32.8	.....	52.6	61.8	74.2	75.5	77.6	65.0	56.2	45.0	39.5	.....	109	.....	May 21	Nov. 11
West Virginia.																	
Bayard	24.8	29.2	45.2	46.4	57.7	59.2	67.2	66.2	58.7	49.6	32.6	22.8	46.6	90	— 8	May 11	Sept. 19
Beverly	29.7	32.4	48.0	47.5	60.3	62.0	70.2	68.5	60.6	49.6	34.6	22.2	48.8	92	— 4	May 2	Oct. 19
Bluefield	34.6	41.4	°51.4	57.3	65.7	65.8	71.3	73.3	64.8	.....	44.4	28.2	.....	91	0	Apr. 7	Oct. 25
Buckhannon	31.6	33.4	49.9	49.9	66.0	.....	.....	.....	.....	52.3	.....	24.5	.....	.....	—11	May 4	Oct. 24
Burlington	28.2	32.2	48.8	50.3	62.3	63.5	72.0	f70.8	62.6	54.3	36.6	27.4	50.8	96	— 4	May 2	Sept. 29
Byrne	32.8	36.0	54.0	52.7	67.7	66.4	75.8	.....	.....	.....	.....	.....	.....	95	—17	Apr. 24	Oct. 24
Cairo	.....	.....	d55.0	53.6	67.1	66.5	74.0	.....	68.0	54.1	38.7	25.0	.....	.....	—10	May 5	Oct. 19
Camden	33.2	35.0	51.2	51.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 24	Oct. 24
Central Station	b28.6	32.7	51.0	50.0	64.4	64.5	72.2	.....	f64.8	53.8	37.8	25.4	.....	94	—16	May 4	Oct. 24
Chapel	.....	36.8	53.1	50.5	.....	72.8	74.7	.....	62.4	.....	.....	.....	.....	96	—16	Apr. 24	Oct. 24

[1] Dr. P. R. Brown.

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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.																	
Charleston	.....	41.6	58.3	58.6	.....	[a]70.0	[c]77.0	77.3	71.5	[c]57.5	.....	.....	.....	104	−11	Apr. 24	Oct. 24
Clay	32.5	40.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Creston	32.1	33.0	51.1	53.1	65.3	67.4	74.2	73.7	66.4	55.5	39.4	24.5	53.0	98	− 8	May 4	Oct. 24
Cuba	34.6	37.6	53.4	52.8	65.9	66.0	73.3	72.5	66.2	54.4	38.4	25.9	53.4	96	−18	Apr. 21	Oct. 24
Echo	34.6	37.7	54.4	55.4	67.8	68.4	74.8	.....	.....	.....	.....	.....	.....	.....	−17	Apr. 18	Oct. 24
Elkhorn	35.6	40.6	53.2	52.7	65.6	65.0	72.4	71.8	65.5	55.0	41.3	29.7	54.0	93	− 2	Apr. 5	Oct. 25
*Elkins	29.9	32.3	48.6	48.3	60.6	61.3	69.0	68.4	61.4	51.2	35.6	24.8	49.3	90	− 5	May 2	Oct. 19
Glenville	31.4	33.6	51.0	51.8	65.5	66.2	73.8	72.6	65.3	53.6	37.3	25.2	52.0	97	−13	May 2	Oct. 19
Grafton	32.6	33.3	51.2	51.6	64.8	64.2	71.6	71.2	65.4	54.4	38.3	26.4	52.1	96	− 7	May 2	Oct. 25
Green Sulphur Springs	31.1	33.8	50.7	48.8	62.8	65.0	71.2	71.6	64.4	51.8	37.9	26.8	51.3	105	− 7	May 2	Oct. 19
Hinton	35.6	38.7	53.1	[i]51.4	65.4	66.0	74.1	[g]73.5	65.6	[r]57.4	40.2	28.8	54.0	93	− 3	Apr. 24	Oct. 24
Huntington	33.2	35.0	51.8	53.5	68.1	68.4	76.2	75.0	67.2	55.0	38.4	27.5	54.1	98	4	Apr. 5	Oct. 24
Josiah	31.6	.....	.....	52.4	66.5	[c]66.4	74.0	72.9	67.2	56.0	39.6	.....	.....	.....	.....	Apr. 24	Oct. 24
Leonard	27.8	33.8	47.8	49.0	62.0	60.6	69.0	69.4	62.4	53.4	35.1	21.8	49.3	89	− 9	May 1	Oct. 24
Lewisburg	29.9	34.8	49.2	48.8	61.5	63.0	71.1	70.6	63.1	52.4	36.8	26.4	50.6	92	− 4	May 2	Oct. 19
Lillydale	33.2	38.6	52.0	51.9	64.6	65.0	72.5	72.0	66.6	56.5	.....	28.0	.....	93	− 3	Apr. 24	Oct. 26
Logan	37.8	41.8	57.4	57.7	69.9	69.3	75.6	73.9	68.2	59.5	43.4	32.6	57.3	97	− 6	Apr. 5	Oct. 25
Lost Creek	32.0	32.6	50.6	50.4	62.6	62.9	70.5	69.2	62.4	52.7	37.4	26.6	50.8	94	−18	May 7	Oct. 24
Magnolia	27.8	33.2	49.2	50.4	.....	.....	.....	.....	.....	.....	.....	[q]38.4	.....	.....	.....	Apr. 28	Oct. 25
Mannington	.....	.....	[b]52.4	52.4	64.2	65.1	72.4	71.8	.....	53.2	36.4	25.8	.....	97	.....	May 2	Oct. 24
Marlinton	.....	.....	.....	47.2	58.9	62.1	69.0	68.6	61.9	49.5	33.4	22.4	.....	90	−11	May 5	Oct. 25
Martinsburg	29.2	32.4	47.5	49.3	63.0	65.2	73.8	69.8	64.2	54.1	38.2	28.2	51.2	99	− 6	Apr. 7	Oct. 25
Morgantown	31.7	33.8	50.8	52.2	66.0	64.6	72.2	71.4	66.7	56.4	38.6	27.2	52.6	92	− 6	Apr. 22	Oct. 27
Moscow	28.4	30.9	49.1	49.6	63.2	63.1	70.8	69.2	65.4	55.6	37.2	24.8	50.6	94	− 7	May 2	Oct. 24
Moundsville	31.5	34.0	51.6	52.8	66.0	65.8	73.5	72.6	66.7	56.1	38.8	26.6	53.0	96	− 6	May 2	Oct. 24
New Martinsville	32.6	34.6	51.4	52.4	66.1	67.6	75.4	75.0	69.0	56.8	40.6	27.1	54.0	99	− 5	May 24	Oct. 25
Nuttallburg	36.1	41.2	58.4	58.7	66.2	65.6	72.2	72.6	66.4	57.5	43.6	29.4	54.7	94	−12	May 1	Oct. 25
Oceana	.....	37.8	58.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oldfields	31.1	34.2	49.2	51.6	63.5	[c]64.7	72.2	72.1	62.4	53.2	36.7	29.6	51.7	100	− 9	May 2	Oct. 25
*Parkersburg	33.0	34.8	51.7	53.2	67.0	66.9	75.1	74.1	67.8	56.0	39.6	27.4	53.9	95	− 2	Apr. 5	Oct. 24
Parsons	31.5	31.3	.....	.....	61.3	63.0	70.5	68.4	59.8	50.8	37.0	24.5	.....	91	1	May 8	Oct. 16
Philippi	32.4	33.1	50.2	51.7	63.8	64.8	71.2	70.2	63.4	52.8	37.2	25.1	51.3	94	−12	May 2	Oct. 25
Pickens	30.4	33.1	49.6	49.4	62.0	[c]61.7	[c]69.4	68.1	62.2	[s]52.5	37.1	24.8	50.0	91	−16	May 2	Oct. 25
Point Pleasant	31.8	36.1	51.8	50.6	68.2	68.4	75.7	75.9	70.3	58.2	41.2	27.0	55.1	98	− 3	May 1	Oct. 25
Powellton	35.6	39.0	55.4	[c]53.3	67.6	67.9	74.4	71.0	61.8	52.1	36.8	26.6	53.5	99	− 6	Apr. 25	Oct. 19
Princeton	32.4	37.8	50.6	51.4	64.2	63.8	70.6	70.4	62.4	52.6	37.8	28.2	51.8	88	− 1	Apr. 5	Oct. 25
Romney	29.8	34.6	49.3	52.1	63.6	64.8	[m]74.2	70.4	[h]62.5	56.0	38.8	26.9	51.9	94	− 1	May 2	Oct. 31
Ryan	33.4	35.0	52.6	52.8	65.2	65.6	73.3	73.0	65.8	54.2	38.8	26.1	53.0	97	−19	May 5	Oct. 19
Smithfield	.....	.....	[g]52.8	.....	63.9	64.6	[g]73.4	.....	.....	.....	.....	.....	.....	.....	.....	May 5	Oct. 24
Southside	35.7	38.2	54.0	55.3	67.6	68.4	76.4	75.8	69.2	56.4	42.6	29.7	55.8	98	− 3	Apr. 5	Oct. 25
Spencer	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.6	27.7	.....	.....	.....	May 2	Oct. 24
Terra Alta	25.8	29.4	45.8	46.8	60.0	59.7	66.5	65.6	61.2	50.6	34.2	22.5	47.3	88	−10	May 5	Sept. 5
Travellers Repose	25.4	29.2	45.4	45.9	56.8	58.8	66.1	66.6	58.4	[b]50.6	32.6	20.8	46.4	89	−12	May 12	Sept. 19
Uneeda	.....	.....	.....	.....	.....	70.6	75.5	75.6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Uppertract	31.4	36.5	50.3	51.4	62.2	63.6	72.2	70.5	64.8	55.4	39.6	29.1	52.2	94	− 2	May 2	Oct. 25
Valley Fork	.....	.....	.....	54.1	65.7	66.1	73.4	73.2	[d]72.0	54.2	39.6	27.8	.....	95	.....	May 24	Oct. 25
Webster Springs	33.2	.....	54.6	52.8	64.0	.....	71.8	71.5	.....	54.6	37.7	26.2	.....	100	.....	May 3	Oct. 19
Wellsburg	28.0	30.0	47.4	49.6	63.9	63.4	71.4	70.0	64.2	53.3	36.2	23.8	50.1	91	− 6	Apr. 22	Oct. 25
Wheeling	33.5	37.5	52.8	55.8	72.8	69.2	79.6	78.2	71.2	58.3	40.6	29.2	56.6	102	0	Apr. 5	Oct. 25
Williamson	34.2	38.6	54.4	54.0	70.6	68.4	74.6	75.0	67.7	55.7	41.2	31.2	55.5	97	1	Apr. 5	Oct. 24
Wisconsin																	
Amherst	13.0	16.2	37.0	44.5	55.9	.....	.....	62.4	56.1	48.9	29.8	12.2	.....	.....	−21	.....	Sept. 17
Antigo	[d]11.8	15.6	32.9	[g]48.5	57.2	61.1	67.2	61.5	.....	49.5	28.2	11.2	.....	91	−25	June 11	Sept. 5
Appleton	15.6	18.8	36.2	44.6	56.4	62.4	69.8	.....	59.9	.....	32.4	16.0	.....	90	−21	June 12	Sept. 5
Appleton Marsh	.....	.....	.....	.....	.....	.....	.....	63.0	58.0	48.4	29.5	12.5	.....	.....	.....	.....	Sept. 24
Barron	11.8	13.0	32.5	44.2	57.4	62.6	68.4	62.6	[f]60.3	47.3	[c]25.0	8.0	41.1	94	−30	June 12	Sept. 5
Beloit	21.2	22.9	40.8	49.4	61.6	62.8	72.8	67.6	61.8	51.0	33.9	15.2	46.8	91	−25	May 1	.....
Brodhead	21.6	22.3	40.7	49.6	62.5	63.8	72.5	68.0	62.0	51.8	34.0	16.0	47.1	95	−22	May 1	Sept. 18
Burnet Junction	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.1	31.9	13.3	.....	.....	.....	.....	.....
Butternut	10.2	10.1	30.0	40.0	52.1	58.6	64.8	60.5	54.0	44.6	27.8	7.2	38.3	88	36	June 12	Sept. 17
Chilton	15.6	18.2	36.6	44.0	57.8	62.6	69.4	64.0	59.2	48.4	30.3	11.9	43.2	91	−21	June 12	Oct. 22
Citypoint	16.7	.....	.....	.....	59.8	65.0	68.8	64.4	[b]62.0	51.0	30.2	10.7	.....	90	.....	June 12	Sept. 17
Darlington	17.6	17.8	37.3	47.2	61.2	64.2	70.0	67.2	61.6	48.2	[i]28.8	13.2	44.1	93	−30	June 10	Sept. 18
Delavan	.....	22.5	39.6	47.6	60.8	62.3	71.2	68.2	61.0	50.6	.....	.....	.....	93	.....	May 1	Oct. 18
Dodgeville	19.4	19.6	39.8	.....	61.2	61.6	67.2	.....	59.8	51.2	34.4	[c]18.0	.....	.....	.....	May 8	Sept. 24
Downing	12.2	11.7	33.4	43.2	56.0	61.0	66.2	61.3	55.7	46.6	27.8	10.4	40.5	90	−28	June 13	Sept. 5
Durand	.....	.....	.....	.....	.....	.....	.....	.....	.....	[g]51.4	34.2	.....	.....	.....	.....	.....	.....
Easton	15.0	16.9	37.9	46.2	59.2	62.4	69.5	63.9	58.9	48.0	29.8	11.0	43.2	93	−25	June 12	Sept. 17
Eau Claire	14.0	14.8	36.0	47.3	59.7	63.8	69.1	63.6	59.5	49.8	29.3	10.7	43.1	88	−24	June 12	Sept. 18
Florence	13.6	15.0	32.4	38.1	54.0	58.5	66.1	60.6	54.7	47.0	28.6	11.8	40.0	90	−21	June 12	Sept. 6
Fond du Lac	19.8	21.8	40.2	47.6	59.8	63.0	70.0	65.2	60.2	49.6	32.6	16.4	45.5	91	−21	June 12	Sept. 18
Grand Rapids	.....	16.0	37.3	46.0	58.4	62.6	68.6	64.6	59.0	48.7	29.4	10.0	.....	94	−32	June 12	Sept. 18
Granisburg	11.8	11.0	30.6	42.0	55.0	62.6	66.4	61.9	55.9	47.4	26.0	6.9	39.8	90	−40	June 11	Sept. 17
*Greenbay	16.3	18.6	36.6	43.7	56.8	62.2	69.7	63.6	59.4	48.8	31.2	14.0	43.4	89	−30	May 1	Oct. 18
Hancock	13.6	16.4	36.6	45.4	58.2	61.6	68.9	63.3	58.3	48.2	29.2	12.0	42.6	91	−25	June 12	Sept. 28
Harvey	19.6	21.6	39.4	46.6	59.6	62.9	69.8	65.6	60.2	49.8	32.2	15.2	45.2	90	−19	June 12	Sept. 24
Hayward	10.7	11.4	30.6	42.0	55.2	59.8	65.0	60.7	54.8	46.0	26.2	5.0	39.0	88	−35	June 12	Sept. 5
Hillsboro	15.6	16.7	36.4	46.4	58.2	61.4	68.4	64.8	58.8	48.2	30.9	11.9	43.1	91	−30	June 12	Sept. 18
Koepenick	13.4	14.3	34.9	42.1	56.6	58.4	66.3	60.2	56.0	47.0	29.7	11.2	40.8	92	−30	June 12	Sept. 5
*La Crosse	17.8	17.6	38.0	48.7	61.8	65.2	71.7	66.6	60.2	51.8	32.7	14.8	45.6	90	−21	Apr. 4	Oct. 24
Ladysmith	13.1	14.1	.....	.....	.....	.....	.....	.....	.....	[b]50.5	.....	.....	.....	.....	.....	.....	.....
Lancaster	[d]20.6	18.4	38.0	47.2	60.8	63.2	70.2	66.4	59.7	50.2	31.7	13.4	45.0	91	−22	May 3	Sept. 18
*Madison	18.6	20.3	38.1	46.6	59.8	63.6	71.2	66.2	60.5	50.4	32.7	16.2	45.4	89	−18	May 1	Oct. 18
Manitowoc	19.2	21.4	36.9	42.8	51.6	61.6	68.2	63.8	58.5	49.0	33.2	17.3	43.6	92	−19	May 1	Oct. 23
Meadow Valley	14.0	15.4	36.9	46.5	58.4	61.3	69.2	63.7	58.2	50.5	28.5	11.0	42.8	91	−29	June 12	Sept. 24
Medford	14.8	14.0	35.4	43.7	57.8	63.0	68.8	64.1	57.6	47.6	27.9	10.8	42.1	93	−27	June 12	Sept. 17
*Milwaukee	22.3	23.4	39.6	45.6	55.2	61.5	71.0	66.8	62.3	52.0	34.8	17.7	46.0	91	−14	Apr. 5	Oct. 18
Minocqua	.....	.....	.....	.....	.....	.....	.....	.....	[c]59.6	47.8	29.6	9.9	.....	.....	.....	.....	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.																	
Neillsville	12.7	11.5	36.4	46.9	60.0	63.0	69.0	63.3	57.4	48.5	28.6	10.4	42.3	94	−27	June 12	Sept. 18
New London	14.4	17.6	37.2	44.3	56.6	62.1	69.0	63.2	58.8	47.6	29.6	12.6	42.8	93	−24	June 12	Sept. 23
North Crandon	11.2	13.4	.....	.....	.....	63.8	[x]63.6	56.8	52.6	43.2	[x]28.1	.....	.....	.....	.....	.....	Sept. 5
Oconto	17.1	19.4	37.9	44.0	56.0	61.7	69.7	63.6	58.9	48.4	31.3	14.7	43.6	91	−18	June 12	Sept. 28
Osceola	9.2	9.4	31.5	42.4	53.9	62.1	67.2	62.8	55.6	46.8	27.4	8.6	39.7	90	−39	June 12	Sept. 24
Oshkosh	19.8	20.4	38.8	46.6	55.0	63.6	71.6	.....	.....	49.6	31.8	15.0	.....	.....	−23	May 3	Sept. 28
Pine River	15.7	18.6	37.8	[x]45.4	56.7	62.5	68.9	63.4	58.8	49.1	32.0	14.0	43.6	92	−23	June 12	Sept. 17
Portage	19.0	21.6	39.8	48.7	61.0	64.4	70.9	65.5	60.9	51.2	33.7	15.9	46.0	90	−20	May 3	Sept. 18
Port Washington	20.2	23.0	38.2	42.8	53.0	60.2	68.8	64.8	60.1	47.4	29.4	13.2	43.4	90	−22	Apr. 30	Sept. 27
*Prairie du Chien	23.7	23.2	38.2	49.2	63.4	65.4	73.6	68.9	61.4	54.1	38.5	19.1	48.2	99	−18	May 1	Sept. 28
Prentice	11.6	13.4	.....	.....	.....	.....	65.0	59.6	54.9	45.9	26.4	8.0	.....	.....	.....	.....	Sept. 5
Racine	23.0	24.0	40.0	[x]48.2	57.0	61.8	70.6	68.4	63.5	52.8	35.8	18.8	47.0	93	−17	May 1	Oct. 18
Sheboygan	21.9	23.6	38.5	43.9	52.3	61.4	70.3	66.0	61.5	49.9	34.2	18.6	45.2	95	−16	May 1	Sept. 28
Spooner	10.5	10.4	30.0	42.0	56.2	.....	.....	.....	.....	47.2	27.2	7.8	.....	.....	−33	.....	.....
Stanley	.....	.....	.....	.....	.....	.....	.....	.....	58.2	48.2	27.4	10.1	.....	.....	.....	.....	Sept. 18
Stevens Point	13.8	15.4	36.8	45.8	57.2	[x]61.3	68.4	62.8	58.4	47.6	29.2	11.4	42.3	91	−26	June 12	Sept. 28
Tomahawk	9.2	11.0	33.2	41.6	55.1	.....	67.0	60.0	[x]54.0	.....	.....	.....	.....	.....	.....	.....	.....
Valley Junction	17.0	18.7	38.2	47.2	58.4	63.2	69.4	64.4	.....	49.5	30.6	18.6	.....	91	−21	June 12	.....
Viroqua	16.4	17.8	36.7	45.5	58.8	62.0	68.3	64.3	57.8	49.3	30.6	12.4	43.3	88	−27	June 12	Sept. 18
Washburn	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.6	30.6	12.8	.....	.....	.....	.....	.....
*Watertown	18.4	19.6	38.4	46.0	58.7	61.9	69.0	64.4	56.9	49.4	31.3	14.8	44.1	91	−21	May 3	Sept. 24
Waukesha	20.2	21.6	39.6	46.4	58.4	61.9	70.2	65.0	60.6	50.4	33.0	16.0	45.3	89	−17	May 1	.....
Waupaca	14.3	16.6	36.8	45.4	57.4	62.8	69.4	63.4	58.1	[x]48.3	.....	11.4	.....	91	−23	June 12	Sept. 24
Wausau	13.7	15.6	36.3	43.7	56.7	61.2	68.0	62.4	57.1	46.0	28.2	9.7	41.6	89	−24	June 12	Sept. 24
Whitehall	16.4	16.0	38.8	46.8	59.2	61.7	68.4	64.5	58.1	48.0	[x]31.2	10.8	43.3	89	−29	June 12	Sept. 18
Wyoming.																	
Afton	.....	.....	26.9	36.4	45.2	58.0	59.0	62.0	49.4	44.2	31.6	19.8	.....	90	.....	(††)	(††)
Alcova	28.2	18.6	32.5	[x]45.6	50.6	61.8	70.6	69.6	53.9	47.5	35.5	28.3	45.2	98	−18	May 20	Sept. 11
Basin	22.2	15.9	34.0	45.6	54.9	70.2	73.8	73.3	[x]61.5	48.4	30.4	22.2	46.0	107	−17	June 9	.....
Battle	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.5	14.0	.....	.....	.....	.....	.....
Bedford	16.8	7.3	27.5	34.6	43.5	54.4	57.2	59.8	47.9	[x]42.0	30.0	18.4	36.6	88	−34	(††)	(††)
Border	8.9	−2.8	19.2	36.0	45.0	56.8	58.6	60.4	47.2	[x]41.0	24.4	12.5	33.8	92	−51	(††)	(††)
Buffalo	26.1	16.1	31.0	42.2	48.5	59.3	64.8	65.5	52.2	46.6	30.2	28.2	42.6	94	−26	June 10	Sept. 9
Centennial	24.6	11.4	23.9	33.6	39.6	53.0	.....	.....	.....	.....	.....	.....	.....	.....	−34	.....	.....
*Cheyenne	29.4	15.8	32.0	40.0	48.0	56.9	63.8	66.1	53.8	47.1	36.6	32.1	43.7	90	−20	June 1	Sept. 14
Chugwater	30.2	17.8	32.8	43.2	48.4	57.4	66.4	65.5	53.8	46.4	36.2	31.5	44.1	93	−28	June 1	Sept. 15
Daniel	15.4	3.6	17.0	31.7	40.7	51.6	54.4	55.2	42.4	[x]37.3	23.5	16.4	32.4	89	−49	(††)	(††)
Embar	.....	.....	.....	40.4	49.4	66.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evanston	22.0	9.1	25.2	36.8	44.6	56.0	59.4	61.7	49.5	43.3	31.4	22.9	38.5	90	−34	May 29	Sept. 9
Fontanelle	.....	.....	.....	37.2	.....	[x]56.3	.....	.....	.....	.....	25.8	17.4	.....	.....	.....	.....	.....
Fort Laramie	30.3	18.4	35.0	45.8	53.3	65.2	74.0	71.3	56.4	48.0	35.6	30.8	47.0	102	−26	June 1	Sept. 15
Fort Washakie	25.2	18.5	30.8	42.0	49.8	61.8	66.5	67.4	53.2	47.8	35.0	25.1	43.6	92	−28	May 23	Sept. 8
Fort Yellowstone	22.6	12.8	28.6	36.8	44.8	56.8	59.6	61.2	49.2	45.2	31.8	24.6	39.5	90	−20	June 11	Sept. 5
Fourbear	27.2	16.2	27.0	35.7	42.5	55.0	57.2	60.0	48.0	44.6	31.8	28.4	39.5	85	−22	June 10	Aug. 28
Griggs	26.5	14.1	33.4	42.1	50.6	61.3	67.3	67.3	53.6	48.4	33.5	29.6	44.0	97	−33	June 10	Sept. 9
Hyattville	28.5	19.6	34.2	45.5	53.4	66.2	69.2	71.0	56.0	50.0	33.8	26.7	46.2	105	−14	May 23	Sept. 11
Irma	33.1	22.4	32.8	42.0	49.7	61.2	63.1	65.8	51.6	49.0	35.0	34.5	45.0	92	−18	June 10	Sept. 12
Iron Mountain	28.8	16.0	32.2	41.2	46.6	56.6	65.6	65.4	52.2	.....	.....	.....	.....	98	−24	June 1	Sept. 9
Kimball Ranch	33.6	20.5	29.6	41.3	[x]48.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	−19	.....	.....
*Lander	23.0	16.0	30.1	41.4	49.0	60.8	65.3	66.3	51.6	46.6	34.0	22.3	42.2	93	−28	May 23	Sept. 9
Laramie	23.3	11.4	29.3	37.5	43.9	53.9	62.6	63.4	51.2	43.4	34.8	26.4	40.1	84	−26	June 1	Sept. 15
Leo	21.0	11.4	29.0	38.0	44.8	55.2	62.7	62.6	49.8	43.5	33.2	24.6	39.6	87	−24	June 11	Sept. 9
Lolabama Ranch	23.0	13.2	26.2	33.2	41.6	54.2	55.0	56.6	44.3	42.2	29.6	25.9	37.1	88	−25	(††)	(††)
Lusk	[x]25.8	14.2	29.6	41.4	49.2	59.0	66.0	66.6	52.1	46.6	32.1	27.3	42.5	95	−27	June 9	Sept. 11
Moore	29.0	17.2	32.9	42.3	47.8	[x]56.5	65.6	65.7	[x]53.2	47.7	38.2	31.4	44.0	90	−20	June 11	Sept. 14
Moorcroft	.....	.....	29.4	44.6	51.6	62.4	68.8	68.9	52.8	48.1	31.2	25.0	.....	100	−24	June 9	Sept. 9
Parkman	[x]28.4	17.7	[x]27.4	43.2	[x]48.6	[x]61.2	66.3	[x]66.4	.....	.....	.....	.....	.....	94	−20	.....	.....
Phillips	.....	.....	.....	.....	.....	.....	[x]69.6	67.8	55.0	49.2	36.7	32.8	.....	98	.....	.....	.....
Pinebluff	29.0	15.4	32.4	44.3	51.8	59.1	69.4	68.5	57.6	48.6	37.4	.....	.....	98	−21	May 23	Sept. 14
Rawlins	23.0	13.4	29.8	40.0	45.8	58.6	66.8	66.6	51.3	43.6	35.6	26.7	41.8	99	−28	June 9	Sept. 11
Redbank	.....	.....	31.2	41.4	49.4	60.8	66.8	69.0	54.6	50.2	35.0	.....	.....	94	−20	May 21	Sept. 7
Rock Springs	.....	.....	30.2	43.8	48.2	57.8	64.3	.....	.....	.....	.....	.....	.....	.....	−32	.....	.....
Saratoga	22.3	15.6	30.6	39.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−31	.....	.....
South Pass	15.2	5.8	21.0	33.8	41.4	53.6	57.7	60.2	45.5	40.6	26.2	16.6	34.8	102	−36	(††)	(††)
Tensleep	.....	.....	.....	45.2	52.2	64.7	66.6	69.3	55.7	48.8	.....	22.2	.....	95	.....	May 19	Sept. 9
Thayne	14.9	3.9	25.4	36.0	44.2	55.2	56.6	58.8	46.8	42.4	29.5	17.8	36.0	91	−37	(††)	(††)
Thermopolis	20.8	12.2	23.4	33.0	47.4	68.8	72.4	76.2	58.5	45.6	26.0	21.4	41.7	106	−25	May 19	Sept. 9
Wheatland	27.8	13.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	−23	.....	.....
Porto Rico.																	
Adjuntas	69.8	69.6	70.2	72.4	74.2	75.4	74.5	75.3	75.5	74.8	73.3	71.8	73.1	97	44	.....	.....
Aguadilla	75.8	76.1	76.6	79.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aguirre	76.1	75.2	76.4	77.4	81.7	80.6	80.5	81.3	82.3	80.6	79.5	78.4	79.2	95	61	.....	.....
Arecibo	73.0	72.6	73.4	.....	[x]79.0	79.4	78.8	79.0	78.8	78.2	77.0	71.9	.....	95	54	.....	.....
Barros	68.7	69.8	69.8	71.8	73.1	74.8	74.5	75.2	74.6	74.0	71.6	71.0	72.4	89	43	.....	.....
Bayamon	74.8	74.0	74.4	75.0	75.0	74.6	75.2	76.8	77.0	77.6	77.4	77.2	75.8	95	56	.....	.....
Caguas	72.7	73.4	74.0	78.2	79.7	80.7	80.0	80.0	79.6	79.0	76.2	74.4	77.3	99	50	.....	.....
Canovanas	76.2	76.6	77.3	80.0	82.7	83.0	81.4	81.1	80.8	80.2	77.8	76.2	79.4	97	67	.....	.....
Cayey	70.8	70.3	70.5	72.7	75.2	80.9	80.4	76.0	75.1	75.9	72.6	71.4	74.3	99	50	.....	.....
Cidra	70.6	69.6	70.1	71.8	69.4	71.5	70.3	72.6	71.4	71.2	72.9	70.6	71.0	90	50	.....	.....
Coamo	74.7	76.0	75.8	.....	79.2	77.2	79.2	79.4	78.1	77.4	77.0	75.0	.....	97	56	.....	.....
Corozal	78.7	[x]77.0	71.2	75.0	77.4	79.4	79.1	.....	.....	77.7	74.2	[x]72.4	.....	95	52	.....	.....
Fajardo	77.3	77.6	75.6	78.6	80.9	81.6	82.4	82.8	81.8	81.0	79.0	78.0	79.8	93	60	.....	.....
Guanica	74.8	74.6	74.4	77.0	79.4	.....	76.1	76.6	80.0	79.3	77.4	76.0	.....	98	56	.....	.....
Hacienda Amistad	72.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

†† Frost every month of the year.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1903—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.
Porto Rico—Continued.														*Max.*	*Min.*		
Hacienda Coloso	.....	72.4	72.8	75.4	77.8	°78.6	79.5	80.2	79.5	78.7	77.6	75.8	.....	94	52	.....	.....
Hacienda Perla	70.5	75.6	76.4	79.4	81.0	82.8	82.0	82.2	79.6	76.6	75.8	77.6	78.3	99	61	.....	.....
Humacao	77.2	79.2	79.3	82.8	83.0	84.3	84.2	83.6	83.2	82.4	79.8	77.6	81.4	93	68	.....	.....
Isabela	74.0	74.2	73.0	75.3	77.5	78.9	81.0	79.8	78.4	78.1	76.7	74.4	76.8	92	59	.....	.....
Juan Diaz	.....	.....	76.7	78.0	80.1	81.1	81.6	80.1	.....	.....	.....	.....	.....	.....	.....	.....	.....
La Carmelita	.....	73.0	72.1	73.1	74.4	75.6	76.0	76.6	°76.4	75.6	74.0	73.6	.....	91	59	.....	.....
La Isolina	73.8	74.0	72.8	74.8	76.2	78.2	79.2	78.2	77.4	76.6	74.7	73.6	75.8	96	58	.....	.....
Lares	.....	.....	.....	.....	.....	77.9	77.0	°77.5	76.0	75.2	74.0	72.0	.....	93	.....	.....	.....
Las Marias	76.7	77.0	75.5	76.6	77.4	78.6	.....	79.4	79.4	79.7	78.6	76.8	.....	94	60	.....	.....
Manati	75.2	75.2	75.0	77.2	79.3	81.6	80.7	81.0	80.2	79.6	77.4	75.0	78.1	100	58	.....	.....
Maunabo	75.5	75.0	75.4	78.4	77.2	84.3	81.3	82.2	80.4	79.9	78.2	75.8	78.6	96	59	.....	.....
Mayaguez	74.8	75.2	75.5	77.2	79.9	80.0	79.5	79.6	79.8	79.0	77.1	76.1	77.8	97	56	.....	.....
Morovis	75.5	73.6	70.8	75.4	77.7	79.9	79.6	79.5	°78.6	78.8	76.7	72.5	76.6	95	56	.....	.....
Ponce	76.0	76.2	76.2	79.2	80.0	81.4	80.7	80.9	80.6	79.6	78.1	76.4	78.8	94	59	.....	.....
San German	°74.8	76.6	77.4	80.2	82.6	84.0	85.2	82.6	82.6	81.0	78.9	78.0	80.3	100	60	.....	.....
*San Juan	76.8	76.2	75.6	78.0	80.5	81.8	80.7	80.6	80.4	80.4	78.1	76.4	78.8	94	65	.....	.....
San Lorenzo	72.6	72.1	73.1	75.6	77.6	79.2	77.5	78.3	78.3	77.4	75.0	73.2	75.8	96	58	.....	.....
San Salvador	72.0	71.6	71.2	73.4	75.5	76.8	76.2	76.2	75.7	75.5	73.2	71.8	74.1	90	56	.....	.....
Santa Isabel	75.8	75.5	75.8	78.2	80.2	81.0	80.4	80.6	80.6	79.7	77.7	76.0	78.5	96	58	.....	.....
Utuado	73.0	72.2	72.8	74.4	76.6	80.3	80.7	79.4	76.8	76.8	76.9	73.6	76.1	95	56	.....	.....
Vieques	77.6	77.6	77.5	78.8	80.5	81.1	80.8	80.4	79.4	79.3	76.5	75.0	78.7	93	64	.....	.....
Yauco	74.3	74.3	74.6	77.8	79.8	81.6	81.0	80.0	80.1	79.2	76.8	75.6	77.9	94	59	.....	.....

PART V.

MONTHLY AND ANNUAL PRECIPITATION, 1903—ALL STATIONS.

The precipitation values given in the following tables have been taken largely from the records of unpaid cooperating observers. The paid stations of the Weather Bureau are indicated by an asterisk (*). Most of the cooperating 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 1903–04 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 1903.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Alabama.													
Anniston (formerly Oxanna)	0.11	.....	6.03	5.51	5.69	2.89	4.77	3.48	0.91	1.94	0.91	0.69	.....
Ashville	2.68	8.88	5.18	4.79	8.37	2.88	3.68	5.83	0.70	2.84	1.57	1.71	49.11
Benton	2.49	13.24	4.97	3.16	6.42	5.25	3.31	4.76	1.36	.....	0.65	2.93	.....
Bermuda	.....	10.81	3.90	1.35	6.56	3.99	4.55	3.75	.....	.....	1.46	4.44	.....
*Birmingham	2.90	15.86	5.74	2.27	3.65	3.40	7.13	3.65	0.97	2.63	0.42	1.92	50.54
*Bridgeport	2.94	11.33	7.25	4.08	5.51	4.08	2.42	3.69	0.83	2.23	4.56	2.74	51.65
Burkeville	1.95	11.75	3.81	2.70	5.50	5.15	3.20	3.40	0.85	1.65	0.70	3.00	43.66
Calera	3.61	10.94	6.18	0.79	5.37	3.86	7.15	4.88	1.54	2.26	0.50	2.15	49.23
Camphill	3.00	11.42	6.08	1.84	5.87	6.38	3.24	2.95	3.60	0.98	2.20	3.68	51.24
Citronelle	3.92	9.33	7.63	1.38	2.71	6.37	3.89	2.23	1.24	1.09	1.73	5.26	46.80
*Clanton	.....	.....	.....	2.56	5.72	5.54	5.04	1.67	2.00	1.50	0.30	3.43	.....
Cordova	4.33	12.01	3.57	2.81	5.16	2.87	3.88	1.64	0.81	4.36	1.27	[1]1.95	44.66
Daphne	5.61	12.19	7.56	T.	6.64	2.07	7.22	3.17	1.52	0.65	1.15	4.33	52.11
*Decatur	3.52	11.03	4.53	3.12	5.27	2.19	2.47	4.49	0.58	2.73	.....	2.14	.....
*Demopolis	3.96	9.59	4.82	1.90	5.54	5.24	1.90	4.54	1.58	0.72	0.92	2.98	43.69
Dothan	4.25	5.58	5.72	1.67	5.77	7.30	2.22	5.31	5.60	0.72	5.79	3.59	53.47
*Eufaula	4.11	6.71	6.79	1.74	9.16	2.66	4.64	5.05	4.96	1.13	3.29	3.97	54.21
Eutaw	3.98	10.53	3.94	[2]1.16	7.06	4.35	1.93	.....	.....	.....	.....	.....	.....
*Evergreen	3.20	11.18	4.75	3.35	4.29	6.80	6.62	3.80	1.59	2.19	2.49	4.80	55.06
Flomaton	4.25	10.36	4.72	0.45	[3]3.95	9.70	4.59	6.65	0.86	3.68	3.83	3.95	56.99
*Florence [1]	5.04	9.66	6.24	2.78	7.13	9.70	3.48	0.68	0.64	1.12	3.12	3.76	53.35
Florence [2]	5.11	8.01	6.29	2.85	6.90	9.31	4.66	1.00	0.89	1.26	2.53	3.91	52.72
*Fort Deposit	3.00	10.33	4.29	2.62	6.24	5.50	3.53	4.27	2.10	0.93	1.85	4.86	49.52
*Gadsden	3.86	11.18	6.96	3.76	6.14	4.68	4.56	2.62	0.32	3.54	2.20	1.40	51.22
*Goodwater	3.33	16.66	6.87	4.39	6.95	4.90	2.36	3.39	1.93	1.46	1.06	3.06	56.36
Greensboro	3.50	9.27	4.22	1.31	14.81	5.84	3.67	4.09	1.17	0.85	0.54	3.03	52.30
Greenville	3.20	.....	3.62	3.45	7.13	3.37	.....	.....	3.30	0.50	2.07	2.46	.....
Haleysville	.....	.....	4.65	4.72	5.40	3.30	1.25	6.82	T.	2.30	4.60	.....	.....
Hamilton	4.45	9.02	5.99	1.97	.....	4.76	1.32	.....	.....	1.49	.....	3.11	.....
Helena	4.29	16.16	6.56	2.07	5.53	3.25	4.90	.....	1.80	3.10	1.10	.....	.....
Highland Home	2.17	9.57	[4]5.29	2.20	6.62	5.75	5.35	3.28	1.64	1.46	3.68	3.87	50.88
Letohatchie	2.90	8.92	4.30	2.55	5.95	4.94	3.42	4.33	2.14	1.54	1.99	4.26	47.24
*Livingston	3.96	15.47	3.93	1.25	4.20	9.17	4.52	2.50	1.24	2.23	3.02	2.87	54.36
*Lock No. 4	3.57	14.20	5.76	3.39	7.02	2.05	5.11	1.73	1.13	2.26	1.10	1.89	49.21
Madison Station	3.09	11.68	4.87	3.85	6.76	8.91	4.83	3.65	0.32	4.17	5.32	3.08	60.53
Maplegrove	3.11	13.63	8.83	4.68	6.88	2.78	3.89	1.10	1.05	2.50	2.77	1.44	52.66
*Marion	3.74	9.69	5.68	1.71	6.75	5.34	3.58	4.09	0.40	0.60	1.25	3.43	46.26
*Milstead	2.51	10.82	4.82	3.94	4.45	4.98	3.95	3.43	1.65	1.36	1.47	2.78	46.16
*Mobile	5.39	8.83	6.63	0.64	5.40	2.65	5.03	6.37	0.83	0.99	0.85	4.40	48.01
*Montgomery	3.16	11.76	5.21	3.04	6.11	5.63	2.25	4.57	1.06	1.65	1.61	2.94	48.99
Newbern	3.70	8.41	5.07	1.89	10.07	6.17	2.43	2.32	2.22	0.97	0.95	3.32	48.12
Newburg	4.40	8.42	.....	4.95	.....	.....	.....	.....	.....	.....	.....	.....	.....
Notasulga	2.44	12.86	4.83	2.75	7.71	5.69	4.27	1.83	3.74	1.84	1.27	2.78	52.01
Oneonto	2.85	14.42	5.46	5.54	8.63	3.29	5.56	3.84	0.68	2.76	0.89	2.17	56.09
*Opelika	3.36	.....	7.38	4.73	9.38	5.31	3.60	3.84	2.97	1.39	0.59	3.39	.....
*Ozark	4.26	3.23	6.68	2.30	4.38	6.78	5.37	4.54	4.00	0.50	3.44	3.95	49.38
Prattville	3.24	12.31	3.84	2.39	4.36	5.02	3.07	4.66	0.99	1.89	0.58	2.42	44.77
Pushmataha	5.15	13.22	7.56	0.25	4.42	5.23	3.20	4.97	0.37	1.08	1.44	3.35	50.24
*Riverton	4.62	8.94	6.28	2.50	7.18	3.58	4.22	2.08	0.76	0.74	3.88	4.66	49.44
Scottsboro	2.93	12.44	6.50	3.40	5.06	3.77	4.09	3.06	.....	2.20	1.69	2.02	.....
*Selma	2.42	12.54	4.58	2.50	5.60	7.76	3.32	2.95	1.06	1.08	0.17	3.21	47.21
Talladega	2.56	11.46	7.04	2.88	6.76	2.88	4.22	4.30	1.44	2.12	0.91	1.95	48.52
*Tallassee	2.92	12.27	4.58	3.30	4.77	6.85	3.60	2.80	1.21	1.52	1.62	3.06	48.50
*Thomasville	3.70	6.50	7.70	1.70	6.10	2.70	4.90	9.62	2.01	1.52	0.72	3.91	50.18
*Tuscaloosa	3.81	14.94	4.51	1.34	6.84	5.99	3.63	4.57	0.43	3.43	1.00	1.91	52.40
*Tuscumbia	5.02	10.43	7.81	2.74	6.37	4.87	3.01	0.16	1.25	1.04	.....	.....	.....
Tuskegee	2.36	9.42	5.60	3.89	3.97	4.95	3.88	1.39	2.52	1.79	0.66	2.29	42.72
*Union Springs	3.69	12.38	8.35	3.40	4.55	5.10	4.89	2.16	3.96	2.23	1.90	4.06	56.53
Uniontown	3.14	8.91	5.59	1.92	6.90	7.60	4.07	4.22	1.87	0.63	1.17	2.77	48.79
Valleyhead	3.04	11.42	6.27	3.95	7.87	3.92	4.19	3.59	1.02	2.60	3.83	2.24	53.94
Verbena	3.54	15.16	5.37	1.28	7.98	6.72	5.03	6.24	2.17	1.20	0.20	3.17	58.06
Wetumpka	3.01	11.50	5.09	2.66	8.34	5.36	5.93	3.20	1.55	1.88	0.24	3.41	52.17
Alaska.													
Coal Harbor	3.90	7.32	1.90	2.26	2.77	2.05	3.66	3.64	5.29	2.52	2.52	4.69	42.52
Copper Center	0.05	0.05	0.40	T.	0.60	1.38	0.99	1.16	1.34	1.71	0.20	0.75	8.63
Fort Egbert	0.58	0.81	0.54	0.12	1.38	0.57	2.40	0.97	2.97	.....	.....	.....	.....
Fort Gibbon	0.37	0.73	1.14	0.23	0.16	0.38	1.76	.....	0.48	0.22	0.33	T.	.....
Fort Liscum	10.42	13.60	4.72	3.87	2.23	3.24	4.29	6.44	8.62	6.62	5.62	9.61	79.28
Fort Yukon	0.62	1.09	.....	0.34	0.35	0.77	.....	.....	1.70	1.30	0.26	0.38	.....
Juneau	11.31	7.29	3.09	3.74	6.74	1.44	2.26	5.45	6.94	.....	.....	.....	.....
Kenai	0.83	2.18	0.44	0.67	0.54	1.16	2.48	3.78	2.72	0.77	0.78	0.18	16.58
Killisnoo	4.05	2.40	0.20	6.15	2.55	0.75	1.15	2.30	3.10	12.45	3.65	5.00	43.75
Koltzebue	.....	.....	.....	.....	.....	3.11	3.48	.....	.....	.....	.....	.....	.....
Mine Harbor	2.36	6.61	1.00	2.25	2.59	1.01	.....	2.51	5.10	3.97	2.60	5.92	.....
Orca	16.74	16.60	.....	.....	.....	.....	.....	10.75	16.67	17.70	13.24	23.44	.....
Point Barrow	0.20	0.10	.....	.....	.....	0.10	0.74	1.43	0.09	.....	T.	0.05	.....
Sitka	6.61	8.68	2.57	4.25	3.65	0.90	2.85	3.90	5.80	14.52	6.50	14.97	75.20
Skagway	2.08	1.44	0.43	0.48	1.10	0.56	0.02	2.08	1.41	9.99	1.60	3.35	24.54
Tyoonok	1.95	3.91	0.45	1.01	0.69	1.59	2.62	5.69	2.76	1.15	0.64	0.53	22.99
Wood Island	4.74	8.10	0.39	4.61	4.92	7.80	[5]4.38	4.79	7.95	6.27	3.30	8.29	65.54

[1] River observer.

[2] Prof. Richard Smith.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept	Oct.	Nov.	Dec.	Annual.
Arizona.													
Agua Caliente	T.	0.04	0.02	0.00	0.00	0.00	0.09	T.	0.58	0.00	0.00	0.07	0.80
Allaire Ranch	0.04	0.54	1.32	0.00	0.40	0.33	1.11	3.73	1.06	0.00	0.00	0.07	8.60
Arizona Canal Co.'s Dam	0.18	1.41	0.50	0.39	0.00	0.34	0.79	0.50	1.09	0.00	0.00	0.11	5.31
Ashfork	.....	.....	1.00	0.20	T.	.....	.....	.....	.....	.....	0.00	.....	.....
Aztec	0.10	T.	T.	0.00	0.00	0.00	T.	0.85	0.35	0.00	0.00	0.00	1.30
Benson	.....	.....	.....	0.00	0.35	0.65	2.88	2.06	1.40	0.00	0.00	T.	.....
Bisbee	0.30	1.17	1.71	.....	0.43	0.60	1.20	6.28	0.30	.....	.....	.....	.....
Bowie	0.05	0.61	0.07	0.00	0.00	.....	0.25	2.53	1.14	0.00	0.00	T.	.....
Buckeye	0.00	0.00	0.40	T.	0.00	0.00	0.20	1.10	3.40	0.00	.....	.....	.....
Casagrande	0.00	0.66	.....	0.00	0.29	.....	0.60	0.00	.....	0.00	0.00	T.	.....
Champie Camp	T.	.....	0.21	0.40	.....	.....	.....	2.50	2.70	0.02	0.00	T.	.....
Cochise	T.	4.20	1.05	0.00	0.62	0.00	0.86	2.00	1.22	0.00	0.00	0.00	9.95
Congress	0.23	0.40	0.68	0.40	0.01	T.	1.54	0.51	1.89	0.00	0.00	0.06	5.72
Dragoon	0.00	1.15	.....	.....	T.	T.	0.40	1.88	0.99	0.00	0.00	0.00	.....
Dudleyville	0.04	0.92	0.90	0.03	0.42	0.34	1.09	2.86	2.06	0.00	0.00	0.76	9.42
Duncan	0.04	0.10	1.07	T.	0.35	1.08	0.61	4.06	2.62	0.00	0.00	.....	.....
*Flagstaff	0.45	2.62	3.77	3.85	1.39	1.88	3.01	2.26	4.68	1.04	0.00	0.10	25.05
Fort Apache	0.20	1.30	2.05	0.20	0.70	2.00	0.72	3.00	1.85	0.00	0.00	0.20	12.22
Fort Defiance	0.42	2.47	1.85	0.85	1.14	4.67	0.55	4.03	2.51	0.00	0.00	0.02	18.51
Fort Grant	T.	0.09	2.05	T.	0.50	0.69	0.12	3.10	1.60	0.00	0.00	0.40	8.55
Fort Huachuca	0.44	0.95	1.47	0.00	0.00	0.43	3.76	3.62	1.83	0.00	0.00	0.18	12.68
Fort Mohave	.....	.....	.....	.....	.....	.....	T.	0.42	0.24	0.50	0.00	0.00	.....
Gila Bend	.....	.....	.....	0.14	0.03	0.00	0.57	0.40	1.01	0.00	.....	.....	.....
Globe	0.00	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Greaterville	.....	.....	.....	0.00	0.33	1.81	2.98	4.98	2.43	0.00	[b]0.00	0.25	.....
Grand Canyon	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.02	0.00	0.00	.....
Holbrook	.....	.....	.....	.....	.....	.....	.....	.....	1.27	0.00	0.00	0.00	.....
Jerome	0.50	0.46	0.93	0.90	0.90	0.40	2.90	1.20	4.60	0.20	0.00	0.00	12.99
Kingman	.....	.....	.....	.....	0.10	0.27	0.26	0.66	1.52	0.20	0.00	0.00	.....
Maricopa	0.00	0.47	0.30	T.	0.12	0.10	0.25	0.52	2.76	0.00	0.00	0.20	4.72
Mellen	.....	.....	.....	.....	.....	.....	.....	0.04	1.00	T.	0.00	0.00	.....
Mesa	T.	0.92	0.51	0.34	T.	0.24	1.05	0.46	1.96	0.00	0.00	0.20	5.68
Mesa (near)	0.00	0.82	0.59	0.29	0.06	0.18	1.05	0.14	2.23	0.00	0.00	.....	.....
Mohawk Summit	0.00	.....	.....	0.00	0.00	0.00	0.22	0.02	0.92	0.00	0.00	.....	.....
Natural Bridge	0.25	2.64	2.22	0.65	0.39	1.27	1.46	1.57	3.86	0.15	0.00	0.10	14.56
Nogales	T.	0.50	0.98	0.00	0.01	0.64	1.90	3.67	.....	0.00	0.00	0.68	.....
Oracle	0.23	2.75	1.66	0.00	0.80	0.31	3.60	2.73	2.81	0.00	0.00	0.19	15.08
Oro	0.09	0.48	1.05	0.16	0.20	2.40	0.99	6.20	3.17	0.00	0.00	0.21	14.89
Parker	.....	.....	0.06	0.35	T.	0.00	0.12	0.12	0.17	T.	0.00	0.00	.....
*Phoenix	T.	0.64	0.42	0.49	T.	0.18	0.70	0.70	3.16	0.22	0.00	0.14	6.61
Phoenix (ex. station)	T.	0.50	0.76	0.39	T.	0.20	1.69	1.26	2.68	T.	0.00	0.21	7.69
Pima	0.10	0.46	0.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pinal Ranch	T.	1.32	2.39	0.13	0.33	0.41	0.53	2.48	3.39	0.00	0.00	0.86	11.84
Prescott	0.74	1.40	3.18	1.06	T.	0.96	3.13	3.81	2.36	0.10	0.00	0.00	16.74
St. Johns	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.00	0.00	0.04	.....
San Carlos	.....	.....	.....	.....	.....	.....	0.46	1.09	1.32	2.44	0.00	0.00	0.20
San Simon	T.	1.05	1.30	0.00	T.	0.80	1.21	4.47	1.02	0.00	.....	.....	.....
Sentinel	0.00	.....	.....	0.00	0.00	0.00	0.50	0.25	1.00	0.00	0.00	0.00	.....
Showlow	T.	2.96	2.18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Signal	0.14	0.49	0.33	0.61	0.00	0.02	0.13	0.73	0.96	0.52	0.00	0.00	3.93
Superstition	0.05	2.25	1.11	0.07	0.08	0.61	0.40	1.55	1.94	0.00	0.00	0.21	8.27
Taylor	0.13	2.04	0.75	0.18	0.45	1.94	0.66	1.55	2.02	0.00	0.00	T.	9.72
Thatcher	.....	.....	.....	.....	.....	.....	.....	.....	0.74	0.00	0.00	0.03	.....
Tombstone	.....	.....	.....	.....	0.08	0.60	3.09	2.22	1.30	0.00	0.00	.....	.....
Tonto	0.15	1.40	1.35	.....	.....	.....	.....	2.04	1.91	0.00	0.00	0.15	.....
Tuba	0.00	0.20	0.44	0.38	T.	0.75	0.60	.....	.....	.....	.....	.....	.....
Tucson	0.00	1.11	1.63	0.00	0.20	0.22	1.52	2.67	1.17	0.00	0.00	0.28	8.80
Upper San Pedro[1]	0.38	0.69	2.56	.....	0.00	.....	0.25	.....	1.13	0.00	0.00	0.04	.....
Vail	0.00	2.15	0.17	0.00	0.04	0.08	0.14	0.19	0.16	0.00	0.00	T.	2.93
Walnut Grove	0.00	0.40	2.06	0.05	0.00	0.06	2.19	1.07	2.80	0.00	0.00	0.01	8.64
Willcox	0.21	0.73	.....	0.00	1.00	0.59	0.86	0.84	0.65	0.00	0.00	0.00	.....
Williams	.....	.....	.....	.....	.....	.....	.....	.....	1.83	0.36	0.00	0.00	.....
Yarnell	0.05	0.77	1.31	0.42	0.05	0.18	3.39	1.58	3.36	0.03	0.00	0.04	11.18
Young	.....	.....	.....	.....	.....	.....	1.06	2.67	1.44	0.00	0.00	0.15	.....
*Yuma	T.	0.23	T.	T.	0.00	0.00	0.04	T.	0.67	0.04	0.00	T.	0.98
Arkansas.													
Alco	2.13	7.40	5.12	2.78	6.36	3.34	4.42	2.62	3.55	2.20	0.94	2.22	43.08
Amity	2.53	9.30	7.09	1.82	13.31	2.78	2.90	11.08	2.43	4.11	0.21	3.55	61.06
Arkadelphia	2.60	9.39	5.33	1.55	8.27	2.61	4.49	5.75	4.04	3.83	0.10	2.91	50.87
*Arkansas City	5.50	8.96	5.24	2.34	3.42	3.40	4.08	2.64	0.40	0.76	0.70	6.25	43.69
Batesville	2.43	6.92	6.04	2.07	7.78	2.00	1.70	1.27	2.47	2.86	.....	2.23	.....
Beebranch	.....	6.85	5.80	1.50	8.80	1.60	2.75	1.80	0.80	3.55	0.55	3.30	.....
Blanchard	3.61	9.35	4.44	1.56	2.34	4.04	4.49	3.58	1.15	0.94	0.41	5.05	40.96
*Brinkley	2.42	5.31	4.42	1.81	6.95	1.60	5.82	0.95	3.04	0.28	0.53	2.61	35.24
*Camden[2]	3.53	6.95	7.19	1.28	5.66	3.21	6.74	3.50	0.93	1.57	0.53	3.38	44.47
Camden[3]	2.37	7.62	7.18	1.37	5.78	2.52	6.71	3.72	0.47	1.68	0.37	4.01	43.80
Conway	2.56	8.64	5.37	1.18	5.36	0.45	3.68	5.52	5.23	2.75	0.43	1.08	42.25
Corning	2.52	8.20	4.76	4.92	7.33	1.98	2.86	2.22	2.92	3.80	0.57	4.06	46.14
Dallas	1.58	7.52	7.12	1.06	7.74	1.25	3.59	9.24	7.38	1.41	0.08	1.88	49.85
*Dardanelle	1.76	6.80	6.50	1.50	8.19	0.60	2.62	4.22	2.58	2.25	0.18	2.08	38.78
*De Queen	.....	.....	.....	.....	7.15	2.86	.....	2.56	2.95	1.38	0.10	3.55	.....
Des Arc	.....	.....	.....	.....	.....	.....	.....	.....	2.06	0.89	0.70	3.58	.....
Dodd City	1.90	5.30	4.45	1.30	12.30	2.55	2.40	3.40	3.25	2.00	0.86	2.95	42.66
Dutton	2.85	6.40	6.68	3.25	12.35	4.55	.....	4.88	2.45	2.50	0.60	6.58	.....
Elon	.....	.....	.....	.....	.....	2.24	4.10	.....	1.68	.....	.....	.....	.....
Eureka Springs	1.37	5.26	3.71	2.11	11.26	4.79	1.83	6.41	4.58	3.62	0.81	2.99	48.74
*Fayetteville	1.39	4.89	4.65	2.12	10.35	3.06	2.24	4.01	3.89	4.85	0.41	3.45	45.31
*Forrest City	3.30	7.81	4.07	1.79	6.69	1.91	4.53	4.40	0.40	0.58	0.25	3.30	38.99

[1] Name changed from Mount Huachuca. [2] River observer. [3] A. L. Morgan.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Arkansas—Continued.													
*Fort Smith	1.52	5.33	3.96	0.36	9.23	1.37	2.00	4.15	1.33	2.71	0.86	2.64	35.46
*Fulton	1.86	9.73	4.64	1.04	3.80	1.76	3.44	2.65	1.46	3.28	0.13	1.92	35.71
Hardy	1.81	5.56	6.82	2.81	8.52	2.74	3.01	1.70	3.52	1.99	0.74	2.70	41.92
*Helena [1]	5.02	7.92	5.84	1.74	5.68	2.10	5.64	4.04	0.50	0.32	0.88	5.64	45.32
*Helena [2]	.....	7.77	6.26	1.45	5.13	1.93	4.80	3.58	0.45	0.24	0.86	5.63	.....
Ione	.....	.....	.....	.....	.....	.....	.....	.....	3.90	.....	.....	.....	.....
Jonesboro	3.50	7.23	5.64	1.50	8.51	2.30	3.27	.....	1.65	3.06	1.82	4.30	.....
Lacrosse	.....	.....	.....	2.27	5.91	2.94	2.22	1.68	3.27	1.24	1.80	.....	.....
*Lake Village	5.29	8.92	4.71	1.08	2.45	2.00	5.13	5.09	1.91	0.83	0.83	.....	.....
*Little Rock	2.60	6.50	5.09	1.58	5.72	0.76	6.18	4.69	2.09	2.04	0.66	2.60	40.51
Lonoke	3.32	6.73	4.58	2.18	6.92	1.50	5.22	3.09	0.99	1.32	0.05	3.50	39.40
Lutherville	2.26	8.04	4.67	1.58	9.35	1.69	4.36	2.99	4.39	2.66	0.78	3.48	46.25
*Malvern	3.60	9.20	5.00	2.60	8.25	3.35	5.00	9.35	2.35	2.60	T.	3.47	54.77
Marianna	4.38	8.12	7.23	1.85	8.08	.....	.....	.....	.....	.....	.....	.....	.....
Marvell	4.22	9.63	5.93	1.97	5.99	2.26	3.88	2.13	0.67	0.52	0.86	4.85	42.91
Mossville	1.92	7.46	8.37	3.68	14.88	4.93	2.53	6.24	3.35	5.07	1.21	5.36	65.00
Mountain Home	1.40	4.96	5.12	1.06	6.87	1.52	.....	.....	.....	.....	.....	.....	.....
Mount Nebo	1.58	6.98	6.12	1.59	11.79	0.97	2.41	7.25	2.89	2.73	0.32	2.87	47.50
New Gascony	2.25	11.12	4.60	1.35	3.90	4.00	3.22	3.05	2.05	T.	0.35	4.55	40.44
*Newport [1]	3.23	8.39	6.17	3.49	5.19	0.67	4.82	1.81	1.99	3.68	1.07	3.41	43.92
*Newport [2]	3.50	7.54	5.12	.....	.....	0.74	4.61	2.14	1.23	3.66	1.13	3.37	.....
Newport [3]	3.45	7.99	5.51	3.64	5.50	1.01	.....	.....	.....	.....	.....	.....	.....
Oregon	2.00	5.62	4.63	1.76	9.99	1.82	4.98	3.12	5.65	2.22	1.01	2.68	43.48
Ozark	1.46	7.02	5.59	1.33	9.36	2.86	2.58	8.69	2.67	2.81	0.91	2.87	48.15
Paragould	2.21	8.06	7.03	3.17	6.13	2.28	2.36	3.39	2.50	2.27	1.85	3.59	44.83
Perry	2.35	8.26	6.13	1.05	7.07	1.00	4.57	5.57	2.66	2.18	0.05	1.66	42.55
*Pine Bluff	2.94	9.44	4.98	1.59	4.76	5.50	6.44	5.41	2.26	1.05	0.51	4.28	49.16
Pocahontas	2.27	7.96	5.83	3.02	6.13	3.52	4.08	2.96	2.52	4.26	0.78	4.43	47.76
Pond	1.15	3.44	3.29	1.78	8.57	1.89	1.45	6.29	4.71	3.42	0.87	1.96	38.82
*Prescott	2.76	11.82	5.28	0.69	5.80	2.11	8.27	5.74	1.81	2.57	0.05	2.46	49.36
Princeton	3.07	9.15	5.02	1.42	5.09	2.91	4.65	4.63	1.73	1.68	0.27	3.13	42.75
Rison	2.98	.....	.....	1.85	3.15	8.01	2.27	.....	3.33	1.34	0.47	.....	.....
Rosadale	1.52	8.84	6.63	0.53	12.24	2.22	4.06	4.38	4.25	2.01	T.	2.20	48.88
*Russellville	1.61	4.18	4.06	1.19	9.55	1.39	2.23	.....	2.92	4.10	0.65	3.38	.....
Silver Springs	0.42	3.15	3.39	1.25	8.67	1.74	1.31	5.34	2.85	3.10	0.49	2.77	34.48
Spielerville	1.81	8.46	4.37	2.04	9.77	1.72	2.48	5.81	3.54	1.83	0.37	1.76	43.96
Stuttgart	3.42	9.27	6.24	2.20	6.13	2.90	6.67	3.07	2.41	1.20	0.54	3.38	47.43
*Texarkana	1.60	7.80	.....	1.25	1.16	.....	1.75	3.60	0.59	2.90	0.00	1.80	.....
*Warren	4.35	9.44	5.51	1.70	4.40	3.13	5.85	4.37	2.85	0.88	1.34	4.26	48.01
Washington	1.83	10.38	8.10	0.46	8.22	2.44	5.68	4.44	1.59	2.38	0.05	2.12	47.64
Wiggs	2.33	9.90	6.02	0.68	9.08	1.30	7.53	7.65	2.66	4.87	0.15	3.47	55.64
Winchester	4.81	9.02	5.29	.....	3.27	3.18	.....	3.40	0.75	0.81	[4]1.15	.....	.....
Winslow	1.81	6.60	7.80	1.88	13.10	5.78	.....	6.43	2.88	3.89	0.51	5.27	.....
Witts Springs	2.21	6.50	5.70	.....	9.67	7.08	.....	3.26	2.87	1.02	0.96	4.40	.....
California.													
Angiola	0.75	0.11	0.90	0.22	0.00	0.00	0.00	0.00	0.00	0.00	T.	0.00	1.98
Azusa	2.26	1.57	9.00	4.30	0.14	0.00	[5]0.00	0.00	0.37	0.00	0.00	0.00	17.64
Bagdad	0.00	0.12	2.20	0.00	0.00	0.00	0.00	0.00	T.	0.00	0.00	0.00	2.32
Bakersfield	1.27	0.59	0.82	0.49	T.	0.22	0.00	0.00	0.00	0.00	0.15	0.13	3.67
Ballast Point light-house	0.87	2.21	1.20	1.20	0.12	0.00	0.00	0.00	0.00	0.10	0.00	0.20	5.90
Barstow	0.50	0.55	1.00	0.10	0.00	T.	0.00	T.	0.50	0.00	0.00	0.00	2.65
Bear Valley	13.84	3.31	17.93	2.32	1.79	0.36	0.00	0.30	0.00	3.10	20.36	4.13	67.44
Berkeley	5.17	2.05	7.81	1.11	0.02	T.	0.00	0.00	0.00	0.50	5.89	2.19	24.74
Bishop	0.46	0.20	0.35	0.14	T.	0.20	0.00	0.00	T.	0.21	0.00	0.00	1.56
Boca	6.40	1.50	0.90	0.70	0.20	T.	0.00	0.00	0.00	T.	0.62	0.50	10.82
Bodie	2.88	1.04	0.78	0.88	0.60	0.31	0.00	0.00	0.30	0.00	0.55	0.00	7.34
Bowmans Dam	19.97	5.99	17.32	2.54	0.94	0.40	0.00	0.05	0.00	4.03	31.27	6.19	88.70
Branscomb	22.30	6.82	9.53	1.08	0.19	0.24	T.	0.02	0.02	3.94	37.17	9.75	91.06
Caliente	2.15	2.60	1.92	2.42	0.00	0.02	0.00	0.00	0.00	0.00	0.16	0.00	9.27
Campbell	2.69	1.64	6.22	0.81	0.00	0.00	0.00	0.00	0.00	0.12	1.88	0.54	13.90
Campo	1.85	4.93	2.30	3.23	0.11	T.	0.00	0.00	0.47	0.03	0.00	0.00	12.92
Cape Mendocino light-house	17.40	2.95	7.30	1.60	0.20	0.30	0.00	0.05	0.00	3.60	8.60	5.60	47.60
Cedarville	2.65	0.50	1.95	0.11	0.39	1.78	0.19	0.14	0.37	0.33	4.46	0.42	12.39
Chico	3.90	2.15	6.23	0.40	0.25	T.	0.00	0.00	T.	0.45	7.23	2.15	22.76
Cisco	5.85	2.80	10.60	4.20	0.40	0.00	0.00	0.00	0.00	1.00	16.90	2.80	44.55
Claremont	2.38	0.45	8.59	2.86	0.00	0.00	0.00	0.00	0.45	0.02	0.00	0.00	14.74
Cloverdale	6.49	2.89	7.06	0.34	0.00	0.22	0.00	0.00	0.00	1.22	10.11	3.86	32.18
Coachella	.....	.....	.....	.....	.....	.....	.....	.....	0.25	0.00	.....	.....	.....
Colusa	2.74	1.27	4.91	0.08	T.	T.	0.00	0.00	0.00	0.17	3.60	2.13	14.90
Corning	1.95	1.20	5.23	0.15	1.15	T.	0.00	0.00	0.00	0.15	6.25	3.20	18.28
Coronado	0.58	2.18	1.25	0.86	0.06	0.00	0.00	0.00	T.	0.16	T.	0.38	5.47
Crescent City	24.38	6.06	10.06	3.40	1.32	0.19	0.14	0.92	0.98	3.96	21.73	7.62	80.76
Crescent City light-house	17.83	3.34	9.95	3.24	1.78	0.64	0.25	0.96	1.01	3.10	20.53	5.14	67.77
Cuyamaca	3.96	7.31	6.13	8.21	0.69	0.00	0.00	0.28	1.28	0.53	0.04	0.16	28.59
Delano	1.05	1.15	1.38	.....	.....	T.	0.00	0.00	0.00	0.00	0.30	0.11	.....
Delta	11.86	3.67	14.74	0.38	0.51	0.02	0.00	0.00	T.	5.17	15.48	5.07	56.90
Drytown	6.30	1.70	9.03	2.20	0.00	0.00	0.00	0.00	0.00	0.10	6.38	1.20	26.91
Dunnigan	3.98	1.26	5.00	0.12	T.	T.	0.00	0.00	0.00	0.36	4.83	1.59	17.09
Durham	3.73	1.77	6.19	0.38	0.24	0.00	0.00	0.00	0.00	0.52	8.80	2.90	24.53
East Brother light-house	3.70	1.30	7.15	0.20	0.00	0.05	0.00	0.00	0.00	0.15	4.25	1.45	18.25
Elcajon	0.84	2.97	1.33	1.29	0.14	T.	0.00	0.00	T.	0.20	0.00	0.10	6.87
Elmdale	2.84	0.72	4.91	0.15	T.	T.	0.00	T.	0.00	T.	1.37	0.50	10.49
Elsinore	0.81	2.50	6.55	1.71	T.	0.00	.....	.....	0.40	0.05	0.00	T.	.....
Escondido	1.58	3.67	2.78	3.84	T.	0.00	0.00	0.00	0.32	0.12	0.03	0.05	12.39
*Eureka	16.07	3.80	7.42	1.23	0.70	0.57	0.06	0.53	0.28	2.42	10.79	4.03	47.90
Fallbrook	3.11	3.33	5.19	4.35	0.08	0.05	0.00	0.00	0.15	0.11	0.05	0.05	16.47
Folsom City	5.23	1.57	9.27	0.89	T.	0.01	0.00	0.00	0.00	0.22	5.32	1.78	24.29
Fordyce Dam	11.51	8.20	18.37	3.00	1.15	0.92	0.00	0.08	0.00	2.75	19.47	2.86	68.31
Fort Bragg	8.54	2.16	5.37	T.	.....	.....	.....	.....	.....	.....	5.98	3.39	.....

[1] River observer. [2] Cotton region observer. [3] G. B. Irby.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
Fort Ross	9.85	5.21	12.87	0.36	0.01	0.09	0.00	0.00	0.00	1.27	15.97	5.09	50.72
Foster	2.13	4.31	4.11	2.71	0.38	0.00	0.00	T.	.....	0.18	0.00	0.12	.....
*Fresno	1.86	0.65	2.28	0.50	T.	T.	0.00	0.00	0.00	0.00	0.68	0.22	6.19
Georgetown	14.77	2.72	16.60	2.06	0.70	0.03	0.00	T.	T.	1.39	17.71	2.07	58.05
Geyserville	4.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gilroy (near)	2.87	1.30	5.56	0.02	0.00	0.00	0.00	0.00	0.00	0.05	2.24	0.24	12.28
Glendora	3.87	1.18	11.57	4.31	.....	.....	.....	.....	.....	.....	.....	.....	.....
Greenville	7.44	2.36	7.36	1.05	0.54	0.64	0.00	0.00	0.50	0.99	12.17	2.94	35.99
Hanford	1.31	0.88	1.71	0.50	0.00	0.00	0.00	0.00	0.00	0.05	0.47	0.15	4.57
Healdsburg	7.55	3.36	7.60	0.39	T.	T.	0.00	0.00	0.00	1.00	14.53	4.64	39.07
Hollister	2.78	1.36	4.30	0.84	0.00	0.00	0.00	0.00	0.06	0.02	1.81	0.20	11.37
Humboldt light-house	16.33	3.21	8.85	1.31	0.53	0.89	0.00	0.52	0.04	2.57	8.90	4.91	48.06
Idylwild	3.82	3.00	6.76	6.10	0.48	0.09	0.00	0.57	2.21	0.47	0.00	0.00	23.50
Imperial	T.	0.06	0.03	T.	T.	T.	T.	T.	0.25	T.	0.00	0.00	0.34
*Independence	0.71	0.27	0.34	0.19	T.	0.02	0.00	0.00	T.	0.42	T.	0.00	1.95
Indio	0.00	0.00	.....	0.75	0.00	0.00	0.00	0.10	0.12	0.00	0.00	.....	.....
Iowa Hill	12.54	3.39	12.00	2.66	0.88	0.06	0.00	T.	T.	1.38	13.88	2.03	48.82
Irvine	1.42	1.33	4.98	4.12	0.02	0.00	0.00	0.00	0.12	.....	.....	.....	.....
Jackson	9.12	1.62	11.84	1.31	0.04	T.	0.00	T.	0.00	0.47	.....	.....	.....
Jamestown	11.19	1.60	10.77	1.33	0.05	0.00	0.00	T.	0.00	T.	4.95	1.15	31.04
Jolon	2.34	0.93	5.45	0.99	T.	0.00	0.00	0.00	T.	0.02	0.61	0.42	10.76
Kennedy gold mine	11.78	1.80	16.72	1.46	0.00	0.00	0.00	0.00	0.00	0.00	7.20	1.99	40.95
Kentfield	10.51	4.00	12.39	0.31	0.00	T.	0.00	0.00	0.00	1.74	14.61	4.11	47.68
Kernville	2.05	1.75	1.50	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.10
King City	1.19	1.40	1.76	0.67	T.	0.00	0.00	0.00	0.00	0.00	0.26	0.37	5.65
Laguna Valley	.....	.....	.....	3.20	0.54	0.15	0.00	0.45	1.08	0.00	0.00	0.05	.....
Lakeport (near)	5.37	2.02	4.20	0.20	T.	T.	0.00	0.00	0.00	0.36	5.29	3.18	20.62
Lamesa	1.10	3.38	2.10	1.75	.....	.....	.....	.....	.....	.....	.....	0.28	.....
Laporte	16.42	3.14	16.71	2.18	0.33	0.25	0.00	0.01	0.40	3.50	27.64	6.46	77.04
Legrande	2.39	0.98	4.51	0.25	0.00	0.00	0.00	0.00	T.	0.00	1.11	0.50	9.74
Lemoncove	2.22	0.94	4.04	1.68	0.12	0.10	0.00	0.00	T.	0.02	0.32	0.27	9.71
Lick Observatory	8.86	2.20	9.89	1.12	0.05	T.	0.00	0.00	T.	0.29	7.67	1.39	31.47
Lime Point light-house	3.62	0.95	5.21	0.11	0.00	0.00	0.00	0.00	0.00	0.14	2.34	1.80	14.17
Livermore	3.19	0.94	5.65	0.81	0.12	0.00	0.00	0.00	0.00	T.	2.16	0.59	13.46
Lodi	3.21	1.79	10.31	0.23	0.00	0.00	0.00	0.00	0.00	0.03	3.58	1.01	20.16
*Los Angeles	2.10	1.52	6.93	3.77	T.	0.02	0.00	T.	0.43	T.	0.00	T.	14.77
Los Gatos	5.93	[b]2.51	10.17	0.78	0.00	T.	0.00	0.00	0.00	0.84	4.94	0.74	25.91
Mammoth	0.00	0.00	.....	0.00	0.00	0.00	T.	T.	0.25	0.00	0.00	0.00	.....
Manzana	0.60	0.96	3.02	3.46	0.00	.....	.....	.....	.....	.....	.....	.....	.....
Mare Island light-house	3.30	1.62	5.27	0.60	0.15	0.00	0.00	0.00	0.00	0.07	3.17	1.68	15.86
Marysville	5.00	1.70	5.09	0.63	T.	T.	0.00	0.00	0.00	0.24	4.85	1.97	19.48
Meadow Valley	9.48	3.48	20.85	1.83	0.48	0.47	0.00	.....	.....	.....	24.00	4.13	.....
Merced	2.24	0.63	6.41	T.	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.35	11.03
Mercury	9.28	3.05	8.79	0.25	0.00	0.00	0.00	0.00	0.00	1.45	14.26	5.20	42.28
Mills College	5.68	1.99	6.68	1.14	0.00	0.00	0.00	0.00	0.00	0.52	7.02	1.32	24.35
Milo	5.38	1.80	5.08	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.60	T.	15.15
Milton	4.52	0.96	8.08	0.79	0.00	T.	0.00	0.00	0.00	0.02	4.65	0.84	19.86
Modesto	2.34	0.68	5.16	1.45	0.00	0.00	0.00	0.00	0.00	0.00	2.64	0.17	12.44
Mohave	0.02	0.50	0.35	1.00	0.00	0.00	0.00	0.00	T.	0.00	0.00	0.00	1.87
Mokelumne Hill	7.89	1.65	10.50	1.02	0.10	0.02	0.00	T.	T.	0.31	7.48	1.37	30.34
Montague	2.18	0.10	1.81	0.08	0.07	0.32	0.25	0.05	0.00	0.70	5.53	1.05	12.14
Monterio	1.94	1.90	3.08	.....	.....	0.96	0.00	0.00	0.00	0.00	1.55	0.40	.....
Monterey	3.43	1.88	5.98	0.80	0.00	0.00	0.00	0.00	0.00	0.00	2.17	0.41	14.67
Mount St. Helena	12.07	7.96	10.61	0.20	0.10	T.	0.00	0.00	0.00	2.00	.....	6.75	.....
*Mount Tamalpais	6.37	1.79	6.77	0.79	T.	T.	0.01	T.	T.	0.36	8.67	2.70	27.46
Napa	3.22	2.11	4.99	1.13	T.	0.00	0.00	0.00	0.00	0.44	4.25	2.46	18.60
Needles	.....	0.00	0.65	T.	0.00	0.00	0.00	0.27	0.44	0.07	0.00	0.00	.....
Nevada City	10.62	2.36	13.80	1.46	0.52	0.16	0.00	T.	0.14	1.49	13.48	3.72	47.75
Newcastle	8.88	1.95	10.00	1.24	0.00	0.00	0.00	0.00	0.00	0.35	7.65	2.10	32.17
Newhall	1.13	1.77	4.29	5.48	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	12.77
Newman	1.47	0.78	4.31	0.07	T.	0.00	0.00	T.	0.00	T.	1.06	0.30	7.99
Niles	4.26	1.36	5.82	0.75	0.00	0.00	0.00	T.	0.00	0.13	3.52	0.78	16.62
North Bloomfield	12.72	2.80	15.04	1.91	0.59	0.21	0.00	0.02	0.06	2.13	15.28	3.80	54.56
North San Juan	12.88	2.60	13.70	1.14	[d]0.08	0.15	0.00	T.	0.20	1.56	14.13	4.37	50.81
Oakland	4.02	1.68	7.42	0.55	T.	T.	0.00	0.00	0.00	0.31	5.22	1.60	20.80
Ogilby	0.00	T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.
Old Ranch House	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ontario (near)	1.34	2.11	7.24	3.43	T.	0.00	0.00	0.00	0.28	0.00	0.00	0.00	14.40
Orland	2.27	1.70	4.20	0.28	T.	T.	0.00	T.	0.00	0.19	5.69	2.70	17.03
Orleans	.....	.....	.....	0.84	0.25	0.57	0.16	0.08	0.00	2.06	18.41	5.52	.....
Oroville	5.30	1.33	6.90	0.12	0.15	0.04	0.00	0.00	0.00	0.65	6.56	3.09	24.14
Palermo	6.62	1.12	6.55	0.14	0.16	0.04	0.00	T.	T.	0.55	6.10	2.54	23.82
Palmdale	0.36	0.65	2.58	2.00	0.00	T.	0.00	0.00	0.00	0.00	0.00	.....	.....
Paso Robles	2.19	1.35	4.16	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.33	9.30
Peachland	9.36	3.60	9.98	0.37	0.02	0.02	0.00	T.	0.01	1.11	13.98	6.26	44.71
Piedras Blancas light-house	3.20	1.56	7.16	0.74	0.00	0.00	0.00	0.00	0.00	0.32	1.22	0.73	14.93
Pigeon Point light-house	3.86	1.00	5.86	0.30	0.00	0.00	0.00	0.00	0.00	0.15	3.39	0.65	15.20
Pilot Creek	16.04	3.97	19.39	1.60	0.92	0.05	0.00	T.	0.00	1.89	20.78	4.02	68.66
Pine Crest	3.13	1.43	6.83	3.12	0.14	T.	0.00	0.00	0.00	0.00	0.08	T.	14.73
Placerville	9.33	2.35	11.85	2.11	0.11	0.00	0.00	0.00	0.00	0.73	10.26	1.86	38.60
Point Ano Nuevo light-house	4.62	1.63	7.94	0.39	0.00	0.00	0.00	0.00	0.00	0.35	5.05	0.75	20.73
Point Arena light-house	7.35	2.82	6.59	0.65	0.02	0.02	0.00	0.00	0.00	1.30	11.78	3.35	33.88
Point Bonita light-house	8.08	1.72	6.74	0.28	0.00	0.00	0.00	0.07	0.00	1.03	6.87	2.41	27.20
Point Concepcion light-house	1.05	1.08	5.31	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	9.00
Point Fermin light-house	1.69	0.93	3.13	3.20	0.00	0.00	0.00	0 00	0.10	0.15	0.00	0.00	9.20
Point George light-house	8.24	2.80	4.11	1.52	1.18	0.09	0.00	0.15	0.28	1.49	11.23	2.44	33.53
Point Hueneme light-house	1.82	1.51	5.55	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.44
Point Lobos	3.84	1.72	5.72	0.67	0.00	T.	0.00	0.00	0.00	0.10	2.97	0.52	15.84
Point Loma light-house	0.28	1.01	0.29	0.51	0.00	0.51	0.00	0.00	0.00	0.10	0.00	0.15	2.85
Point Montara light-house	5.90	1.75	7.45	0.10	0.00	0.00	0.00	0.00	0.00	0.75	6.21	1.52	23.68
Point Pinos light-house	4.69	1.76	6.56	0.15	0.05	0.00	0.00	0.00	0.05	0.00	2.31	0.76	16.33
Point Sur light-house	3.80	1.76	4.34	0.38	0.00	0.00	0.00	0.00	0.00	0.25	3.70	0.50	14.73

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
*Point Reyes	2.64	1.39	3.88	0.51	0.00	0.00	0.00	0.00	T.	0.33	4.45	3.15	16.35
Porterville	1.80	0.78	1.85	1.02	0.01	0.01	0.00	0.00	0.00	0.00	0.09	0.23	5.79
Poway	2.22	2.83	2.96	1.95	0.11	0.00	0.00	T.	0.17	0.14	0.02	0.06	10.46
Quincy	9.31	2.17	7.45	0.52	0.55	0.92	0.00	T.	0.35	1.58	14.08	3.72	40.60
Ranch House	1.54							0.00	0.07	0.14			
*Red Bluff	2.78	1.53	4.99	0.38	1.06	0.01	0.00	0.00	0.00	0.46	7.99	3.73	22.93
Redding	10.14	2.68	9.60	1.09	2.29	0.02	0.00	0.00	0.00	1.14	13.97	4.90	45.83
Redlands	1.16	1.41	5.86	3.88	0.48	0.00	0.00	0.21	0.54	0.06	0.00	0.00	13.60
Reedley	2.16	0.97	2.58	1.26	0.04	0.00	0.00	0.00	0.09	0.00	0.44	0.23	7.77
Represa	5.77	1.64	8.13	1.04	0.00	0.00	0.00	0.00	0.00	0.19	6.42	1.83	25.02
Riovista	2.86	1.47	4.35	0.65	0.05	T.	0.00	T.	0.00	0.05	3.18	1.25	13.86
Riverside	0.94	1.24	5.22	2.49	0.03	0.00	T.	T.	0.43	0.05	0.00	0.03	10.43
Roe Island light-house	3.20	0.93	4.74	0.25	0.00	0.00	0.00	0.00	0.00	0.13	2.11	0.94	12.30
Rohnerville	14.34	3.48	7.21	1.05	.....	0.56	0.11	0.35	0.12	2.52	10.06	3.91	.....
Rosewood	4.79	2.05	4.83	0.51	0.49	0.03	0.00	0.00	T.	0.27	6.98	2.36	22.31
*Sacramento	3.05	1.70	4.81	0.46	T.	T.	0.00	0.00	0.00	0.12	3.44	1.12	14.70
Sacramento[1]	3.81	1.86	5.78	0.65	T.	T.	0.00	0.00	0.00	0.15	3.89	1.43	17.57
Salinas	3.14	1.38	3.02	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.29	9.06
Salton	0.00	0.15	0.27	1.33	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	1.90
San Bernardino	1.96	1.67	6.47	3.10	0.21	0.00	0.00	0.15	0.46	0.07	0.00	0.00	14.12
*San Diego	0.69	2.27	1.17	1.40	0.14	T.	0.00	T.	T.	0.07	T.	0.35	6.09
*San Francisco	3.73	1.76	6.23	0.56	T.	T.	0.00	T.	T.	0.17	4.25	1.63	18.33
San Jacinto	1.32	1.37	4.54	4.99	0.00	T.	0.00	0.11	1.16	0.00	0.00	.....	.....
San Jose	2.74	1.27	4.99	0.84	0.00	0.00	0.00	0.00	0.00	0.12	0.99	0.34	11.29
San Leandro	4.89	1.94	6.61	0.74	0.00	0.00	0.00	0.00	0.00	0.31	5.78	1.09	21.36
San Luis light-house	2.39	2.17	5.90	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.30	12.75
*San Luis Obispo	3.67	3.18	4.98	1.66	0.00	T.	0.00	0.00	T.	0.02	0.48	0.32	14.31
San Mateo	6.30	2.45	6.83	1.15	0.00	0.00	0.00	0.00	0.00	0.29	5.18	0.86	23.06
San Miguel	1.27	1.06	2.96	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.36	6.68
San Miguel Island	0.65	3.92	3.99	0.70	0.00	0.18	0.00	0.00	0.00	0.30	1.30	0.00	11.04
San Rafael								0.00	T.	1.03	9.51	2.42	.....
Santa Barbara	2.06	1.63	6.12	2.91	0.27	0.02	0.00	0.00	T.	T.	0.05	T.	13.06
Santa Barbara light-house	1.80	1.67	4.76	2.59	0.21	0.00	0.00	0.00	0.00	0.00	0.03	0.00	11.06
Santa Clara	2.99	1.52	4.52	1.99	0.00	0.00	0.00	0.00	0.00	0.05	1.70	.....	.....
Santa Clara College	3.09	1.50	5.74	0.82	0.00	0.00	0.00	0.00	0.00	0.12	1.85	0.39	13.51
Santa Cruz	6.25	2.07	11.06	0.25	0.00	0.00	0.00	0.00	0.00	0.65	8.59	0.35	29.22
Santa Cruz light-house	4.86	2.67	9.61	0.41	0.00	0.00	0.00	0.00	0.00	0.30	7.40	0.62	25.87
Santa Maria	1.80	1.91	3.97	0.71	T.	0.00	0.00	0.00	0.00	T.	0.19	0.16	8.74
Santa Monica	1.14	2.11	6.55	2.84	0.02	0.00	0.00	0.00	0.37	0.00	0.00	0.00	13.03
Santa Paula	1.66	1.30	6.14	2.65	0.10	0.00	0.00	0.00	T.	0.00	0.00	0.00	11.85
Santa Rosa	6.38	2.58	6.49	0.60	T.	0.03	0.00	T.	T.	0.64	9.65	3.59	29.96
Shasta	17.24	1.84	14.03	1.30	0.57	T.	0.00	T.	0.17	2.05	19.67	4.78	61.65
Sierra Madre	4.84	1.78	9.24	4.06	0.33	0.19	0.00	0.00	0.46	0.02	0.00	0.00	20.92
Sisson	8.18	1.76	8.57	0.13	0.21	0.33	T.	T.	T.	1.75	10.71	2.22	33.86
Sneddens Ranch	0.59	0.75	3.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sonoma	5.46	2.01	5.49	0.50	0.00	T.	0.00	0.00	0.00	0.34	6.38	2.97	23.15
S. E. Farallone light-house	2.99	1.49	3.26	0.43	0.00	0.00	0.00	0.00	T.	0.22	4.35	1.39	14.13
Stockton	2.50	1.12	7.29	0.33	0.08	0.00	0.00	0.00	0.00	0.05	3.06	0.73	15.16
Storey	1.55	0.78	2.49	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.62	6.77
Summerdale	14.13	3.70	11.83	3.37	0.79	0.29	0.00	0.00	0.00	0.66	5.90	2.05	42.72
Susanville	3.71	1.13	2.45	0.41	0.58	0.32	0.00	T.	0.15	0.52	5.26	0.61	15.14
Tehama	2.40	1.30	6.34	0.41	0.69	T.	0.00	0.00	0.00	0.39	5.86	2.87	20.26
Tejon Ranch	2.19	1.27	1.86	1.42	T.	T.	0.00	0.00	T.	0.00	0.99	0.18	7.91
Trimmer	5.83	1.78	6.71	2.62	.....	.....	.....	.....	.....	.....	.....	.....	.....
Trinidad light-house	17.91	3.40	8.09	3.60	1.10	0.67	0.00	0.81	0.38	3.22	12.82	4.64	56.64
Truckee	8.00	1.00	4.15	3.40	0.53	0.98	0.00	0.00	0.00	1.02	8.21	0.40	27.69
Tulare[2]	1.26	0.65	1.92	0.54	0.00	.....	.....	.....	.....	.....	.....	.....	.....
Tulare[3]	1.60	0.68	1.88	0.41	T.	0.00	0.00	0.00	0.00	0.03	0.39	0.10	5.09
Tustin	1.49	1.18	5.73	3.00	0.00	0.00	0.00	0.00	0.18	0.09	0.03	0.05	11.75
Ukiah	7.26	2.50	5.20	0.01	T.	T.	0.00	0.00	T.	0.90	11.93	4.55	32.35
Upland	3.97	2.10	9.45	4.00	0.63	0.00	0.00	0.00	0.42	0.00	0.00	0.00	20.57
Upperlake	6.23	1.91	4.90	0.20	0.08	T.	0.00	0.00	0.00	0.65	9.44	3.71	27.12
Upper Mattole	28.05	6.62	15.65	1.88	0.74	0.88	0.00	0.14	0.02	7.87	29.77	8.26	94.88
Vacaville	4.95	1.83	6.26	0.01	T.	T.	0.00	0.00	0.00	0.50	5.88	1.84	21.27
Ventura	0.88	1.08	5.25	2.04	0.00	0.00	0.00	0.00	.....	.....	0.00	T.	.....
Visalia	1.77	0.60	2.17	0.25	T.	0.05	0.00	0.00	0.06	0.00	0.35	0.24	5.49
Volcano Springs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.20
Wasco	1.40	0.65	0.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.25	T.	3.10
Westpoint	10.39	4.69	.....	.....	.....	.....	0.00	0.03	T.	0.46	9.52	2.30	.....
West Saticoy	1.17	1.09	2.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wheatland	6.31	1.66	6.81	0.49	0.07	T.	0.00	0.00	0.02	0.24	4.35	2.03	21.98
Williams	2.10	1.84	3.62	0.80	0.00	0.00	0.00	0.00	0.00	0.10	2.96	1.86	12.78
Willits	12.36	4.15	7.56	0.18	T.	0.02	0.00	0.00	T.	2.52	20.72	6.75	54.26
Willow	2.48	1.35	5.76	T.	0.03	T.	0.00	0.00	0.00	0.14	4.91	2.14	16.81
Yerba Buena light-house	4.25	0.75	5.80	0.40	0.00	0.00	0.00	0.00	0.00	0.12	4.10	1.42	16.84
Yuba City	5.17	1.63	5.87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zenia	17.29	5.37	9.62	0.76	0.43	0.79	0.00	0.07	0.17	3.49	21.63	6.47	66.09
Colorado.													
Alford	0.10	0.95	0.76	1.22	0.36	3.20	1.27	1.98	1.64	0.61	0.26	0.02	12.37
Antelope Springs	.....	.....	.....	.....	1.59	1.37	1.66	2.44	2.06	0.77	0.50	T.	.....
Ashcroft	0.80	1.04	0.85	2.12	1.65	3.53	2.11	1.01	2.47	0.78	1.14	0.56	18.01
Blaine	T.	1.90	0.23	1.53	0.82	1.68	0.97	2.82	0.09	0.07	0.21	0.11	10.43
Boulder	0.08	1.52	1.45	2.31	2.02	1.87	0.95	1.46	1.31	3.43	0.15	0.16	16.71
Boxelder	0.11	2.43	0.90	1.96	0.97	4.04	2.77	.....	2.21	0.43	0.33	0.03	.....
Breckenridge	1.50	0.99	.....	.....	1.51	2.06	1.72	2.47	1.53	1.23	2.29	2.20	.....
Buenavista	0.05	1.45	0.05	0.80	.....	.....	.....	.....	.....	.....	.....	.....	.....
Canyon	0.05	2.16	0.36	1.62	0.56	3.66	1.05	5.30	0.41	1.14	0.08	0.32	16.71
Castlerock	0.62	1.32	0.70	1.04	1.29	3.25	1.53	1.17	0.98	1.25	0.15	0 47	13.77

[1] S. H. Gerrish. [2] John Tuohy. [3] Experiment station.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Colorado—Continued.													
Cedaredge	0.30	1.08	1.67	1.03	0.54	0.16	.....	0.05	1.58	0.17	T.	.....	.....
Cheesman	0.14	1.15	0.40	0.92	0.77	3.14	1.39	3.04	0.57	2.35	0.17	0.58	14.62
Cheyenne Wells	0.34	0.79	0.23	0.94	3.69	2.63	.....	1.89	T.	T.	0.71	0.13	.....
Clearview	0.35	1.24	0.83	1.85	0.48	6.60	2.67	2.71	0.74	0.99	0.07	0.69	19.17
Collbran	0.45	1.77	1.32	2.11	0.94	1.93	1.66	0.16	2.24	0.78	0.09	0.32	18.77
Colorado Springs	0.11	0.70	0.37	0.93	0.62	5.10	0.43	2.57	.....	1.15	0.25	0.05	.....
Cripple Creek	0.53	0.91	0.55	1.70	0.37	3.92	2.36	1.34	0.74	0.74	0.00	0.39	13.55
Delta	0.12	0.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Denver	0.12	0.42	0.87	0.81	0.75	1.62	1.36	1.35	0.56	1.34	0.07	0.23	9.50
Durango	0.35	1.24	3.90	2.60	1.25	2.02	2.82	1.87	2.15	0.13	0.00	0.04	18.37
Fort Collins	0.16	1.60	1.03	1.50	0.63	2.23	1.06	0.86	0.87	1.48	0.14	0.07	11.63
Fort Morgan	T.	0.45	0.27	0.54	0.88	2.85	2.22	0.44	0.65	0.06	0.23	0.15	8.74
Fox	0.15	1.51	0.10	0.73	1.26	2.71	3.68	0.81	0.17	0.38	0.28	0.10	11.88
Fruita	0.04	1.55	1.27	1.40	1.20	1.16	0.81	0.16	1.61	0.22	T.	0.01	9.43
Garnett	0.01	0.28	0.23	0.59	T.	2.15	0.62	0.48	0.58	0.19	T.	0.05	5.18
Gilman	2.86	1.60	1.35	2.92	1.56	1.43	2.18	1.02	2.56	0.84	0.99	0.87	20.18
Gleneyre	0.31	1.29	0.44	1.15	1.17	5.42	1.25	2.97	0.40	1.33	0.42	0.17	16.32
Glenwood Springs	1.03	0.70	0.48	1.14	.....	1.37	1.11	0.39	.....	0.72	0.02	.....	.....
*Grand Junction	0.15	1.05	0.73	0.78	1.21	1.22	0.67	0.02	0.69	0.07	0.01	0.02	6.62
Greeley	0.02	0.68	0.47	0.56	0.96	1.76	1.25	0.93	0.72	0.51	0.30	T.	8.16
Grover	T.	.....	.....	.....	1.95	1.71	2.90	2.00	0.95	0.00	0.25	0.00	.....
Gunnison	0.69	0.30	0.90	2.18	0.59	2.21	0.87	0.37	1.42	0.13	0.02	0.26	9.94
Hamps	0.20	0.76	0.21	0.53	0.75	3.73	1.99	1.40	0.44	0.53	0.09	0.14	10.77
Hoehne	0.14	0.97	0.12	0.85	0.22	4.28	0.83	1.44	0.08	0.83	0.27	0.20	10.23
Holly	.....	.....	.....	0.98	4.11	6.51	2.29	3.40	0.02	0.52	0.29	0.35	.....
Holyoke	0.05	0.75	0.05	0.35	2.03	.....	2.43	5.50	0.42	0.21	0.38	0.00	.....
Husted	0.03	0.82	0.43	0.75	0.61	4.07	1.03	0.70	0.81	1.75	0.40	0.14	11.54
Lake Moraine	0.45	2.79	1.46	2.55	1.19	6.10	4.60	2.80	1.52	3.09	0.30	0.51	27.36
Lamar	0.04	2.04	0.20	1.44	2.11	4.35	1.58	2.67	0.07	0.76	0.92	0.77	16.95
Laporte	0.15	1.69	1.32	1.85	0.83	3.03	2.57	0.54	0.97	1.53	0.10	0.00	14.58
Las Animas	0.00	2.13	0.35	0.95	0.66	2.87	1.10	2.60	0.70	1.15	0.33	0.00	12.84
Lay	1.03	0.97	1.61	0.83	1.87	0.23	.....	0.16	3.26	0.70	0.34	0.00	.....
Leadville	1.87	1.12	0.78	1.77	1.31	1.62	0.58	1.06	1.37	0.28	0.87	0.54	13.17
Leroy	0.18	1.50	0.26	1.12	0.80	1.07	1.71	3.44	0.62	0.29	0.06	0.03	11.08
Longs Peak	0.22	1.70	1.85	2.55	1.70	3.27	2.00	0.70	3.23	2.07	0.20	0.22	19.71
Mancos	0.42	1.77	2.96	2.87	1.12	1.51	1.59	0.44	1.33	0.20	0.00	0.09	14.30
Marshall Pass	1.02	2.04	0.90	1.12	1.12	.....	0.09	1.59	1.10	1.18	1.07	0.93	.....
Meeker	0.77	1.77	0.80	2.46	1.66	0.68	1.40	1.11	4.42	0.92	0.47	0.41	16.87
Montrose	0.00	0.95	1.20	.....	0.13	.....	0.91	0.37	1.94	0.02	T.	1.18	.....
Moraine	0.12	0.95	1.06	1.42	0.20	3.25	1.05	0.90	2.40	1.83	0.64	0.01	13.83
Pagoda	0.99	1.91	0.82	3.13	1.03	0.68	0.55	1.45	.....	1.67	0.46	0.57	.....
Parachute	0.50	1.04	0.79	2.14	2.26	1.20	1.05	0.06	2.51	0.65	0.01	0.06	12.27
Platte Canyon	.....	1.39	0.74	2.81	1.51	2.77	0.79	0.83	0.70	2.39	0.13	0.45	.....
*Pueblo	0.23	1.20	1.01	0.36	0.29	3.24	0.71	1.98	0.21	0.93	0.15	0.04	10.35
Rangely	0.45	1.29	1.25	1.00	1.06	0.50	0.98	2.12	2.48	0.38	0.10	0.21	11.82
Rockyford	T.	1.05	0.18	0.56	0.28	3.94	0.42	0.87	T.	1.62	0.26	0.40	9.58
Rogers Mesa	0.70	0.57	1.26	1.19	0.71	0.58	1.05	0.26	1.67	0.18	0.00	0.30	8.47
Ruby	4.73	4.00	7.70	10.45	4.80	.....	.....	0.64	0.64	0.66	1.44	0.92	.....
Russell	0.43	1.61	1.40	1.87	0.20	4.81	1.32	2.12	.....	.....	.....	.....	.....
Saguache	0.15	0.33	0.24	0.52	0.10	2.68	0.54	1.15	0.70	0.10	0.00	T.	6.51
Salida	T.	3.06	0.57	0.70	T.	2.47	0.99	0.90	0.38	1.02	0.00	0.05	10.14
San Luis	0.03	0.93	0.50	1.25	0.12	1.92	1.19	0.27	0.77	0.00	0.00	T.	6.98
Santa Clara	0.40	1.30	0.54	2.58	0.64	9.25	8.22	2.12	0.56	2.54	0.05	0.95	24.15
Sapinero	.....	.....	.....	.....	.....	.....	1.25	0.30	1.02	.....	0.13	.....	.....
Silt	0.71	1.13	.....	2.34	1.44	0.83	0.88	0.39	2.32	0.66	0.05	0.10	.....
Sugarloaf	0.15	1.40	1.79	2.00	1.58	3.48	2.57	1.47	1.79	2.95	0.78	0.34	20.30
Telluride	2.19	.....	8.61	6.49	.....	.....	.....	.....	.....	.....	.....	.....	.....
Trinidad	T.	1.51	0.14	1.80	0.13	5.48	1.17	2.08	0.13	1.04	0.09	0.53	14.10
Twinlakes	0.36	0.77	0.37	0.84	0.10	1.94	0.50	0.54	0.30	.....	.....	.....	.....
Vilas	T.	2.20	T.	0.45	0.61	2.35	0.52	0.09	0.27	0.11	0.02	T.	6.62
Wagon Wheel Gap	0.22	1.47	0.52	1.17	.....	.....	.....	.....	.....	.....	0.00	0.30	.....
Wallet	T.	1.42	0.50	1.00	1.03	2.84	5.03	0.57	0.30	.....	0.13	0.07	.....
Waterdale	0.18	1.69	0.93	1.45	0.65	2.91	1.25	0.29	1.30	1.20	0.18	0.18	12.21
Westcliffe	0.34	2.40	2.05	1.67	0.58	7.01	.....	1.84	0.58	1.68	0.02	0.25	.....
Whitepine	1.24	1.62	1.96	2.94	1.42	3.08	2.64	1.21	2.02	0.37	0.42	0.58	19.50
Wray	0.25	1.98	0.16	0.54	1.95	1.55	5.16	1.48	0.69	0.34	0.25	T.	14.35
Yuma	0.14	1.88	0.20	0.40	1.00	2.10	2.65	3.12	0.35	0.10	0.36	0.09	12.89
Connecticut.													
Bridgeport	4.28	5.38	6.07	3.52	0.49	8.48	2.79	11.24	2.60	5.09	1.83	4.07	55.84
Canton	4.10	4.46	5.31	3.07	0.81	11.69	3.86	7.34	4.46	4.10	3.21	4.60	57.01
Colchester	3.88	6.12	7.93	3.12	0.42	8.40	3.72	6.00	2.97	4.12	1.89	4.82	53.34
Falls Village	2.63	4.39	4.48	2.85	0.97	10.01	2.64	5.98	2.02	6.04	2.42	3.96	48.34
Gaylordsville	4.42	4.62	5.04	2.64	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hartford	3.70	4.92	6.87	2.54	0.95	11.03	6.58	7.91	3.68	3.46	2.84	3.51	57.99
Hawleyville	4.39	4.51	5.16	2.50	1.61	10.38	2.56	7.41	6.17	6.32	2.07	4.54	57.62
Lake Konomoc	4.18	5.80	8.42	3.83	0.65	5.65	3.83	5.37	0.50	3.34	2.38	3.23	46.68
*New Haven	3.17	3.98	5.09	2.61	0.31	7.41	2.17	6.96	2.20	2.94	1.85	2.53	41.22
New London	2.94	4.04	4.39	3.40	0.54	4.44	2.00	5.70	1.31	2.14	1.29	2.28	34.42
North Grosvenor Dale	3.93	5.54	8.14	3.23	0.49	7.33	3.51	4.59	1.70	3.11	2.05	4.10	47.72
Norwalk	4.45	4.93	5.83	3.22	0.07	10.54	3.03	10.05	2.61	5.07	1.88	4.32	55.50
Southington	3.80	4.20	6.60	2.50	0.50	12.10	3.65	6.90	3.00	2.15	4.10	52.50	
South Manchester	2.86	3.71	6.13	1.81	0.95	9.05	4.40	5.62	1.97	3.18	2.24	3.01	44.93
Storrs	3.79	5.18	7.09	2.81	0.50	9.24	4.56	4.52	1.81	2.79	1.95	4.27	48.51
Voluntown	4.84	6.80	7.69	3.67	0.46	6.88	2.94	3.79	1.13	3.70	1.92	4.35	48.17
Wallingford	4.01	5.58	6.50	3.13	1.28	11.48	2.46	5.96	1.75	3.33	2.10	4.48	52.01
Waterbury	3.78	4.32	6.45	3.38	0.73	11.25	3.71	6.36	3.02	4.77	2.30	4.37	54.44
West Cornwall	3.93	4.97	4.93	3.20	1.39	9.74	4.07	5.65	2.86	6.39	3.10	6.65	56.87
West Simsbury	4.02	5.18	5.13	2.95	0.73	9.79	3.79	7.21	4.57	3.70	3.09	4.80	54.96

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Delaware.													
Delaware City	3.17	3.23	4.62	2.29	1.13	2.66	3.73	3.97	2.28	4.58	0.69	4.23	36.58
Milford	3.35	6.82	8.21	3.68	2.81	4.93	3.93	5.35	3.70	6.06	1.36	4.52	54.22
Millsboro	4.39	6.04	8.06	3.46	2.01	2.97	5.47	3.35	3.94	6.50	2.50	4.20	52.89
Newark	4.29	4.84	3.94	4.91	2.18	3.23	3.98	5.84	2.37	5.58	0.56	4.09	45.81
Seaford	3.46	6.90	5.67	3.98	2.51	3.46	3.91	4.88	4.15	8.44	1.71	3.70	52.27
District of Columbia.													
Distributing reservoir	4.10	4.16	6.01	4.07	2.67	4.04	3.56	5.14	0.93	4.00	0.80	1.63	41.11
Receiving reservoir	3.77	4.07	6.02	4.08	2.11	5.11	5.21	5.53	0.89	4.43	0.94	1.86	44.02
*Washington	4.26	5.32	5.73	4.29	2.76	3.60	5.17	4.52	0.74	4.48	0.80	1.89	43.55
West Washington	4.40	5.93	6.69	4.98	3.41	4.29	5.69	5.57	0.90	4.89	0.93	2.37	50.05
Florida.													
Archer	6.21	5.58	5.69	0.14	5.63	8.25	9.64	10.71	6.55	0.79	0.40	2.31	61.90
Avon Park	5.22	5.40	5.85	0.16	1.98	5.63	6.61	4.85	8.84	1.42	4.69	1.40	52.05
Bartow	6.64	4.87	6.42	0.60	6.21	10.38	9.16	11.64	10.57	0.97	1.49	0.95	69.90
Bonifay	3.15	6.06	4.90	0.06	6.03	10.20	4.35	.....	6.50	1.46	7.56	3.78	.....
Brooksville	4.92	7.04	[f]6.03	[k]0.10	.....	.....	.....	.....	.....	0.43	1.56	1.50	.....
Carrabelle	5.61	6.07	.....	0.00	4.65	8.27	5.18	8.17	11.27	4.00	0.70	2.02	.....
Clermont	5.79	5.55	4.83	0.02	2.47	8.15	8.04	6.84	6.39	0.95	2.05	0.83	51.91
De Funiak Springs	4.73	6.41	7.04	0.24	8.41	9.55	7.05	9.96	2.58	2.08	4.56	4.63	67.24
Eustis	6.09	5.72	4.29	0.44	6.06	7.60	5.73	4.36	6.96	0.43	1.54	1.30	50.55
Federal Point	5.56	5.46	3.53	0.24	9.07	6.04	5.30	4.19	13.96	0.86	1.18	1.24	56.63
Fernandina	6.84	6.49	3.54	1.44	16.27	4.61	1.17	3.06	4.13	1.93	4.32	.....	.....
Flamingo	3.45	1.35	4.20	1.12	1.12	7.98	.....	.....	.....	2.40	T.	0.09	.....
Fort Meade	9.14	6.12	8.61	0.91	5.42	4.03	8.46	10.86	19.04	0.79	2.50	2.24	78.12
Fort Myers	4.76	3.37	7.78	T.	0.71	10.45	11.40	.....	.....	.....	.....	.....	.....
Fort Pierce	4.78	10.19	7.53	0.00	1.77	4.93	4.60	5.82	12.93	0.00	8.36	0.60	61.51
*Gainesville	5.15	5.29	6.68	0.37	5.05	5.71	5.72	8.63	4.12	0.70	0.25	1.49	49.16
Huntington	6.39	5.08	4.98	0.50	5.52	6.98	2.92	5.20	6.15	1.03	1.45	2.01	48.21
Hypoluxo	5.70	4.70	6.69	0.83	1.66	9.51	5.94	3.94	.....	2.78	2.76	0.98	.....
Inverness	5.73	5.08	5.72	0.10	3.60	3.86	12.67	10.27	4.43	0.85	0.94	1.55	54.80
*Jacksonville	4.44	5.23	2.55	1.54	14.80	3.22	2.54	6.60	2.80	2.83	3.82	1.66	52.03
Jasper	4.11	5.57	3.28	.....	7.16	6.51	5.04	.....	7.75	2.06	1.47	1.34	.....
Johnstown	7.21	.....	.....	.....	.....	.....	8.33	14.79	5.63	1.05	0.46	3.42	.....
*Jupiter	6.94	4.50	9.27	0.44	2.71	7.01	3.23	2.47	15.82	1.81	2.50	0.56	57.26
*Key West	3.43	1.97	3.23	0.55	9.76	4.74	2.87	4.24	3.00	4.10	0.76	0.71	30.36
Kissimmee	4.76	5.04	5.84	0.25	6.68	10.12	6.07	4.31	12.06	1.02	3.56	1.51	61.22
Lake City	4.50	4.55	3.28	1.29	5.05	7.12	7.93	10.04	5.27	1.57	0.83	1.78	53.21
Macclenny	6.31	5.59	4.43	1.45	10.95	5.57	9.27	7.07	4.31	1.70	1.05	1.39	59.09
Madison	.....	.....	.....	.....	.....	4.72	3.79	7.79	13.79	4.95	1.50	2.67	.....
Malabar	4.34	5.09	6.10	0.09	4.12	1.64	1.49	4.84	8.14	0.95	3.38	1.12	41.30
Manatee	6.84	4.09	4.26	0.27	2.49	4.77	6.66	4.50	3.67	1.30	2.70	2.35	43.90
Marco	5.11	6.14	7.80	1.08	1.03	5.57	8.72	6.71	9.05	1.74	T.	0.72	53.67
Marianna	3.93	5.34	4.63	1.24	7.82	5.96	4.69	4.56	5.44	0.85	7.26	.....	.....
Merritt Island	4.56	6.39	5.39	0.44	2.59	3.78	2.78	6.78	7.82	0.84	2.67	1.31	45.30
Miami	4.99	4.70	3.82	[i]0.00	1.35	10.48	.....	.....	12.54	4.48	3.70	T.	.....
Micanopy	.....	5.51	4.21	0.90	6.33	.....	.....	.....	.....	.....	.....	2.20	.....
Middleburg	.....	6.84	4.12	1.01	18.01	5.64	5.33	10.01	4.09	2.76	1.23	1.21	.....
Molino	5.45	12.69	7.66	T.	4.11	5.50	7.31	5.94	0.00	5.53	9.28	3.75	67.22
Myers	.....	.....	.....	.....	.....	.....	.....	5.50	4.15	1.62	2.02	1.61	.....
New Smyrna	4.10	5.72	5.78	0.25	6.19	7.64	2.29	8.75	5.17	1.71	2.84	1.01	51.45
Nocatee	4.65	5.54	5.24	.....	1.55	.....	10.28	.....	.....	0.34	2.83	2.14	.....
Ocala	6.52	5.57	8.50	T.	5.37	8.02	9.55	9.70	4.23	0.36	1.20	1.69	60.71
Orange City	5.01	5.99	5.92	0.35	2.78	7.85	.....	.....	3.24	1.13	2.00	1.40	.....
Orange Home	.....	.....	.....	.....	.....	6.72	6.01	4.94	4.68	0.15	1.49	1.15	.....
Orlando	5.69	[e]5.48	8.37	.....	3.59	11.05	8.41	3.68	8.08	1.69	2.71	1.09	.....
*Pensacola	6.37	8.31	6.36	0.10	2.24	3.28	8.07	2.73	0.47	6.00	11.46	3.49	58.88
Pinemount	4.59	5.51	5.06	1.53	7.55	8.00	8.42	9.55	7.81	2.38	0.65	2.23	63.28
Plant City	.....	4.91	6.61	.....	.....	.....	9.24	7.00	9.20	0.95	2.35	1.20	.....
Quincy	.....	6.02	5.93	0.30	4.73	6.27	4.20	.....	6.30	.....	.....	3.25	.....
Rockwell	3.95	.....	8.36	0.11	4.38	14.54	12.95	.....	5.90	0.70	.....	.....	.....
St. Andrew	5.56	7.34	2.63	0.34	5.52	5.13	3.51	7.95	5.05	5.79	5.71	3.34	57.87
St. Augustine	4.47	4.47	3.23	0.29	10.58	3.40	8.90	3.48	8.75	2.95	3.53	1.48	50.53
St. Leo	7.37	5.72	7.59	0.11	3.12	5.30	7.25	6.32	7.39	.....	2.93	1.32	.....
*Sand Key	.....	.....	.....	.....	.....	2.91	1.41	3.76	3.72	1.58	0.61	0.31	.....
Stephensville	3.86	5.29	3.93	T.	2.53	2.31	7.90	.....	10.50	0.20	T.	1.60	.....
Sumner	4.57	5.24	4.86	0.00	2.21	3.59	12.03	14.14	4.68	0.63	0.73	2.23	54.91
Switzerland	4.87	4.50	4.06	1.22	9.48	4.51	7.45	6.22	4.10	0.41	1.49	1.54	49.85
Tallahassee	3.28	5.35	5.21	0.11	5.59	10.01	7.09	2.98	9.96	2.92	5.14	3.25	60.89
*Tampa	6.33	6.06	4.79	0.74	1.92	5.38	9.34	6.00	10.64	0.93	3.09	1.46	56.68
Tarpon Springs	5.23	6.52	6.65	0.18	2.10	5.45	4.46	8.15	10.40	0.34	2.57	1.74	53.79
Titusville	.....	6.47	6.68	0.43	7.53	9.89	5.02	4.77	.....	[g]0.96	.....	.....	.....
Waukeenah	3.61	5.70	5.09	0.06	2.37	9.25	6.65	.....	.....	.....	.....	.....	.....
Wausau	4.66	6.22	5.53	0.01	10.70	8.10	5.86	7.65	6.40	0.91	6.71	3.95	66.70
Wewahitchka	4.99	6.88	4.28	0.46	6.06	4.45	3.83	7.30	6.60	6.58	3.55	3.54	58.52
Georgia.													
Abbeville	.....	.....	.....	.....	.....	6.18	3.08	6.04	3.98	2.92	3.62	2.78	.....
Adairsville	2.79	14.31	11.39	2.79	2.77	4.84	.....	1.72	0.78	[d]2.87	1.12	1.54	.....
*Albany	4.09	4.96	3.81	2.86	7.45	2.62	8.83	7.25	7.34	1.78	3.31	2.89	57.19
*Allapaha	.....	.....	.....	3.64	5.97	7.59	5.06	7.96	7.99	1.97	1.85	1.82	.....
Alpharetta	2.75	11.95	9.07	2.03	4.92	8.51	2.64	3.67	3.33	.....	2.58	2.71	.....
*Americus	4.00	7.05	5.16	3.20	7.94	6.15	3.93	5.09	5.52	1.57	4.73	3.63	57.97
*Athens	3.11	10.69	9.33	2.62	2.78	4.12	1.87	6.47	4.98	2.05	1.76	1.84	51.62
*Atlanta	1.96	9.66	9.07	3.33	3.59	6.65	4.29	1.91	2.52	0.94	3.08	1.66	48.66
*Augusta	3.41	7.46	5.95	3.83	3.69	5.35	2.02	8.98	4.48	1.82	3.20	1.64	51.83
*Bainbridge	.....	.....	4.86	0.47	4.59	3.61	7.69	6.17	7.43	.....	.....	.....	.....
Blakely	3.86	6.05	5.54	1.18	7.50	7.17	.....	8.90	7.50	1.84	6.85	3.20	.....
Bowersville	4.26	9.57	6.70	3.35	2.94	3.63	3.59	7.22	2.25	1.11	1.65	1.53	47.80
*Butler	3.17	7.49	4.84	6.48	6.59	5.12	5.18	7.92	6.74	1.74	3.04	3.01	61.32
*Camak	2.77	10.26	6.64	2.96	4.30	4.02	1.78	1.70	4.19	2.26	1.91	1.27	44.06
*Canton	2.61	10.79	5.00	1.47	.....	.....	3.33	2.74	2.43	2.38	2.96	2.02	.....

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Georgia—Continued.													
*Carlton	3.05	9.46	7.69	2.07	2.09	7.99	7.20	4.10	2.98	1.52	1.24	1.88	51.22
Clayton	4.73	14.41	14.81	5.25	3.87	11.14	2.60	7.71	2.84	2.76	2.89	2.17	75.18
*Columbus	3.55	9.94	5.84	5.06	11.95	5.02	8.01	2.12	4.61	2.30	1.70	2.65	62.76
Coney	3.08	6.68	3.54	3.76	4.70	5.46	3.61	8.09	5.63	1.29	5.08	3.57	54.49
*Covington	2.38	10.45	6.66	3.71	4.11	4.32	5.21	5.19	4.95	1.17	0.99	2.03	51.17
*Dahlonega	4.60	14.11	9.95	4.14	4.02	10.05	3.41	2.46	2.64	1.20	1.76	2.28	60.62
Dawson	.....	.....	3.90	3.40	8.10	3.70	3.24	5.50	5.14	1.80	6.18	3.70	.....
Diamond	3.00	13.08	10.83	3.25	3.85	11.57	5.91	3.69	1.53	2.08	2.15	2.06	63.00
Douglas	3.85	5.12	7.07	4.74	6.74	4.62	3.06	6.87	5.46	2.06	1.70	3.91	55.20
*Dublin	3.11	5.12	7.77	3.55	5.62	5.51	2.95	6.84	3.91	2.19	4.05	3.01	53.63
Dudley	3.76	5.93	7.99	4.37	5.71	3.39	9.34	3.33	2.66	1.94	3.60	2.66	54.68
*Eastman	3.24	4.48	6.49	2.71	7.44	5.56	4.17	6.36	4.51	2.63	.....	2.57	.....
Eatonton	2.48	9.57	5.80	2.38	5.24	5.76	.....	.....	.....	.....	1.44	1.75	.....
Elberton	3.37	9.51	6.26	2.02	[2]2.12	7.65	3.27	4.02	2.99	1.32	0.55	1.76	44.84
Experiment	1.67	11.58	7.52	2.61	6.47	2.27	2.28	5.46	4.67	1.17	1.06	2.02	48.78
Fitzgerald	3.23	5.15	5.18	3.36	4.84	8.59	4.92	12.81	4.20	2.64	3.77	1.90	60.59
Fleming	3.68	5.20	5.66	2.11	7.24	8.36	3.10	9.10	6.07	3.05	1.00	1.78	56.35
Forsyth	2.75	10.70	6.00	4.68	6.26	5.15	1.21	5.58	5.07	2.45	1.55	2.33	53.73
*Fort Gaines	4.02	6.35	6.86	2.28	8.67	3.72	3.02	6.22	3.27	1.06	.....	.....	.....
*Gainesville	4.09	11.81	12.17	2.80	4.79	6.03	2.16	3.83	4.98	1.18	3.10	2.41	59.34
Gillsville	2.26	12.64	9.58	2.16	2.60	6.44	2.95	4.65	4.19	1.18	2.43	2.18	53.26
*Greensboro	2.50	11.45	4.81	2.78	2.37	5.26	2.71	3.36	3.39	3.07	1.51	2.26	45.42
Greenbush	.....	.....	.....	.....	.....	4.81	4.59	3.84	1.87	4.85	2.22	1.26	.....
*Griffin	2.12	11.80	8.12	2.60	4.81	3.96	4.01	5.14	5.72	0.44	1.07	2.35	51.94
Harrison	4.20	5.65	6.28	3.51	5.44	10.20	3.56	4.88	4.21	2.87	3.61	2.00	56.41
Hawkinsville	2.78	5.40	6.43	3.18	7.17	6.72	4.66	10.78	4.60	2.08	3.94	3.00	60.74
Hephzibah	3.15	.....	.....	2.00	4.85	3.19	1.12	7.10	3.40	1.90	1.50	1.05	.....
Jesup	3.69	4.14	5.03	1.61	7.96	6.42	2.05	8.96	5.98	3.47	1.79	1.85	52.95
Lost Mountain	2.56	12.33	8.49	3.27	4.27	4.72	3.97	3.08	2.08	1.31	2.97	2.07	51.12
Louisville	2.52	5.78	6.11	2.23	10.10	3.20	2.57	4.64	2.19	2.02	2.39	2.21	45.96
Lumpkin	3.33	9.48	5.66	2.79	11.67	3.93	3.92	2.22	4.03	1.79	3.98	3.24	56.04
*Macon	2.88	6.25	5.38	4.47	3.30	3.53	4.45	4.57	3.05	2.25	3.05	2.02	45.80
Marshallville	3.92	7.19	4.37	5.34	4.82	9.56	3.78	7.09	5.36	1.75	4.24	2.20	60.72
Mauzy	3.16	5.14	5.90	3.17	[d]5.05	[e]8.43	4.52	10.03	9.91	2.25	3.48	.....	.....
*Milledgeville	3.50	7.79	5.98	2.98	5.32	5.25	1.36	6.94	4.48	2.58	1.76	2.37	50.31
*Millen	1.34	3.33	3.43	0.57	5.49	5.31	5.61	4.24	3.34	1.52	1.44	1.29	36.91
*Monticello	2.22	11.15	6.56	2.69	2.84	5.57	1.31	5.70	4.48	2.04	1.29	2.71	48.47
Morgan	3.62	4.72	3.44	3.22	7.26	3.78	6.37	7.68	5.10	1.06	5.90	3.91	55.06
Naylor	4.61	5.18	5.00	2.98	6.94	6.46	5.48	7.08	9.70	1.00	0.30	3.60	58.33
*Newnan	2.15	9.42	8.02	2.95	4.62	5.09	4.97	1.26	3.32	1.98	1.59	2.05	47.42
*Oakdale	2.79	13.48	6.87	3.35	2.35	8.69	3.70	1.67	3.98	0.88	3.49	1.89	58.14
Oakfield	.....	.....	.....	.....	.....	5.20	6.15	6.54	5.76	0.96	5.73	4.04	.....
Point Peter	3.44	10.12	6.99	2.33	2.49	11.16	4.63	5.93	2.88	1.43	1.34	1.63	54.37
Poulan	3.20	.....	3.44	4.27	4.89	7.98	7.11	7.37	6.02	2.01	3.94	1.93	.....
Putnam	3.21	7.85	4.07	4.23	5.80	5.01	3.16	8.65	4.14	1.92	3.98	2.72	54.74
*Quitman	3.40	4.08	6.46	3.15	7.89	7.82	6.19	7.98	9.03	2.90	1.64	3.20	63.74
Ramsey	3.10	11.96	7.42	3.51	2.47	5.45	3.67	2.39	1.10	3.31	3.07	1.61	49.06
*Resaca	3.60	12.70	7.84	3.82	2.88	4.83	2.85	2.98	1.37	2.62	1.66	1.89	49.04
*Rome	2.71	13.45	10.52	3.41	3.48	5.12	3.25	3.20	0.85	2.69	1.74	1.74	52.16
St. Marys	6.70	5.77	3.37	1.66	18.46	7.29	3.11	5.14	6.34	3.01	1.48	1.76	64.09
*Savannah	3.64	4.08	5.53	1.53	6.30	6.01	6.54	5.17	8.45	3.24	1.84	1.34	53.67
Statesboro	3.17	3.10	.....	1.34	5.05	9.31	4.38	9.10	7.55	2.50	3.69	1.85	.....
Stillmore	3.46	3.72	6.51	2.02	7.98	5.10	.....	.....	.....	.....	.....	.....	.....
Talbotton	3.75	7.04	7.35	6.80	6.04	5.80	7.07	3.83	4.61	2.46	1.65	2.76	59.16
*Tallapoosa	3.29	10.34	5.96	2.62	3.23	4.43	2.55	1.66	1.53	1.10	1.88	.....	.....
*Thomasville	3.71	6.43	5.60	2.37	5.79	5.05	5.87	5.73	12.73	2.97	2.86	3.17	62.28
*Toccoa	4.31	11.84	12.11	6.33	2.42	7.67	4.69	3.42	1.92	1.45	2.34	2.15	60.65
Valona	1.75	6.24	4.88	0.98	10.89	5.72	1.46	13.85	3.01	1.00	2.14	1.84	53.76
Vidalia	3.28	5.29	6.94	1.91	8.66	6.92	3.67	10.58	5.53	3.67	.....	.....	.....
*Washington	4.64	11.35	5.17	2.90	3.00	6.59	1.66	3.48	4.67	3.40	1.12	1.85	49.83
Waverly	4.69	5.64	4.88	1.28	17.02	7.95	3.61	6.54	3.57	1.59	2.43	1.54	60.74
*Waycross	3.58	3.63	4.11	1.32	7.30	5.44	5.46	9.15	8.96	3.16	1.41	1.75	55.29
*Waynesboro	1.32	6.81	4.70	1.53	7.58	9.27	3.40	8.71	3.15	1.64	0.70	1.48	50.29
*Westpoint	2.34	13.69	7.74	4.79	9.94	4.76	4.15	3.95	3.82	1.66	1.22	2.84	60.90
*Woodbury	1.54	10.63	6.25	3.90	5.51	.....	3.65	7.56	5.14	1.51	0.62	0.90	.....
Idaho.													
Albion	1.40	0.85	1.10	0.70	1.39	0.32	T.	0.13	1.59	1.21	1.95	0.60	11.24
American Falls	2.58	0.57	1.13	1.17	2.37	0.59	0.38	0.44	1.26	0.19	1.22	0.87	12.77
Blackfoot	1.53	0.00	0.52	1.63	2.55	0.06	T.	.....	.....	.....	0.47	0.75	.....
*Boise	2.52	0.49	0.83	0.69	0.53	0.43	0.07	0.13	0.54	1.06	1.52	0.74	9.55
Blue Lakes	3.87	0.64	1.72	0.53	0.73	0.68	0.22	T.	0.38	0.58	2.08	0.34	11.77
Burnside	0.60	0.10	2.00	1.15	2.25	2.47	0.50	0.40	1.26	1.90	0.70	0.50	13.83
Cambridge	3.61	0.82	2.46	0.47	0.73	0.51	0.98	1.19	0.91	0.77	4.37	.....	.....
Chesterfield	2.22	0.06	0.48	1.46	2.18	0.77	0.30	0.08	0.88	1.18	0.68	0.42	10.71
Dickey	.....	0.00	0.80	1.50	0.45	.....	2.50	0.25	1.75	.....	.....	.....	.....
Forney	2.62	0.26	1.19	1.31	2.05	0.71	1.29	0.23	0.96	1.21	2.53	1.75	16.11
Garnet	1.10	0.10	0.86	0.69	0.34	0.79	T.	T.	T.	0.38	1.06	0.37	5.69
Grangeville	2.14	0.30	4.29	3.17	3.73	3.86	2.00	2.03	2.40	2.37	4.63	1.10	32.02
Idaho City	.....	.....	[f]0.81	0.59	1.16	0.46	.....	.....	.....	.....	.....	.....	.....
Lake	2.20	0.80	2.40	2.10	1.80	1.20	1.80	0.50	2.10	0.85	0.90	1.90	18.05
Lakeview	5.35	0.76	2.82	0.81	1.91	3.32	0.93	2.02	2.01	1.96	3.93	2.11	27.93
*Lewiston	1.07	0.19	0.88	0.69	1.49	1.09	0.85	1.84	1.02	1.05	2.34	0.96	12.97
Lost River	1.12	T.	1.02	2.13	0.78	0.77	0.14	0.04	0.49	0.53	0.97	0.22	8.12
Meadows	.....	.....	.....	.....	.....	2.64	0.95	1.52	1.32	2.02	4.19	2.08	.....
Moscow	3.80	0.22	1.77	0.87	3.63	1.80	0.57	1.43	1.57	1.65	2.79	2.37	22.47
Murray	6.72	0.98	2.41	2.26	2.96	2.70	2.16	2.07	3.11	2.54	7.19	2.60	37.70
Oakley	1.50	T.	2.00	1.35	1.04	0.70	T.	2.20	0.50	0.55	1.40	0.30	9.54
Ola	[g]6.45	[g]0.25	2.38	0.55	1.01	0.47	0.67	0.39	1.15	2.53	4.36	1.66	21.89
Orofino	.....	.....	.....	.....	.....	.....	.....	.....	1.60	2.25	6.65	2.20	.....
Paris	2.53	.....	1.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Payette	2.19	0.80	0.88	.....	.....	.....	.....	.....	0.41	0.84	0.92	2.49	0.88	.....
*Pocatello	1.77	0.18	0.86	1.54	2.18	0.82	0.41	0.59	0.42	0.33	1.08	0.61	19.79

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Idaho—Continued.													
Pollock	0.53	0.11	1.82	1.08	1.31	3.06	1.24	1.00	1.88	1.17	2.25	1.12	16.57
Porthill	2.69	0.31	2.66	0.83	0.78	1.45	2.13	1.79	1.80	0.71	3.09	1.77	20.01
Priest River	5.11	0.77	2.79	1.74	1.73	3.17	1.41	1.36	1.63	.....	5.40	1.88	.....
Riddle	2.19	1.15	2.50	0.79	1.37	0.98	T.	0.00	0.83	0.68	3.17	1.00	14.66
Roosevelt	3.73	[j]1.18	3.60	1.60	.....	0.36	1.33	0.21	1.81	1.14	2.95	0.91	.....
St. Maries	5.08	0.69	2.09	1.60	2.57	3.47	1.57	1.31	1.50	1.48	4.30	1.69	27.35
Silver City	7.86	2.21	2.13	2.06	1.04	1.28	0.20	.....	.....	.....	.....	.....	.....
Soldier	3.33	0.37	1.80	0.53	0.32	0.95	0.60	0.06	0.39	0.69	3.32	1.00	13.36
Vernon	1.87	0.62	1.53	3.09	3.02	0.77	0.19	0.20	1.91	0.95	1.70	1.18	17.03
Weston	2.36	0.10	0.87	1.66	2.45	0.58	0.10	0.14	0.31	1.27	2.56	0.54	12.94
Illinois.													
Albion	2.40	4.59	4.26	3.18	.....	3.05	4.19	4.92	1.28	4.55	1.41	2.01	.....
Aledo	0.73	1.53	1.86	3.60	0.26	3.84	1.89	6.53	6.35	5.09	0.98	0.66	39.32
Alexander	1.07	2.93	2.67	3.67	3.42	5.20	3.54	2.90	3.57	2.12	0.78	1.09	32.96
Antioch	0.35	0.60	2.60	2.55	3.65	2.90	[f]6.60	7.95	6.35	0.80	0.70	1.10	36.15
Ashton	0.94	1.32	3.14	4.62	2.91	1.69	6.29	4.95	6.98	3.40	0.62	1.80	38.66
Astoria	1.36	3.13	2.81	5.36	4.44	3.50	4.03	4.43	4.60	3.15	1.27	2.30	40.38
Aurora	0.83	1.94	3.94	4.23	3.11	4.09	5.59	5.39	7.45	2.09	0.54	1.74	41.54
*Beardstown	.....	.....	3.41	4.26	4.83	2.29	3.30	.....	.....	.....	.....	.....	.....
Benton	1.74	4.31	4.01	3.39	2.58	2.47	1.60	3.13	1.97	2.43	0.98	1.92	30.48
Bloomington	1.31	3.32	3.24	5.76	4.01	3.25	4.63	2.04	2.75	1.48	1.47	2.49	35.75
Bushnell	.....	.....	.....	4.12	3.26	1.43	1.70	5.20	4.80	2.43	1.37	.....	.....
*Cairo	2.35	4.19	4.28	1.85	3.52	2.37	4.89	0.81	0.75	1.98	2.07	3.85	32.91
Cambridge	0.96	1.85	2.34	4.97	7.03	2.85	2.95	3.96	6.27	2.32	1.09	1.36	37.95
Carlinville	1.57	3.76	2.18	5.62	3.17	3.75	3.89	3.38	3.69	1.50	0.54	1.75	34.80
Carrollton	1.22	3.27	3.11	3.57	[d]2.33	.....	.....	.....	4.73	1.39	0.28	1.40	.....
Centralia	1.43	3.26	3.45	4.30	2.96	2.34	0.92	4.97	2.59	3.60	0.47	.....	.....
Charleston	1.68	2.97	1.77	4.41	0.63	5.55	5.32	5.57	1.94	2.68	1.47	2.04	36.03
*Chester	1.50	3.71	4.33	1.97	1.71	2.69	4.39	4.35	2.52	2.92	1.07	1.95	33.11
*Chicago	1.09	3.03	1.67	3.77	0.93	1.62	4.78	3.49	4.00	1.09	0.34	2.26	28.09
Chicago Heights	1.15	2.62	2.34	4.32	3.53	1.91	5.50	4.59	5.40	1.26	0.68	2.07	35.37
Cisne	1.68	3.19	3.34	3.54	3.37	2.07	4.41	7.12	1.34	2.14	0.81	2.67	35.68
Coatsburg	1.28	1.95	2.54	5.15	3.68	4.50	2.24	4.23	4.42	1.77	0.88	1.17	33.81
Cobden	2.26	4.76	5.87	3.54	3.16	2.25	3.22	1.85	1.31	3.59	2.22	2.82	36.85
Danville	.....	.....	2.22	6.37	4.75	2.65	1.19	.....	.....	.....	.....	.....	.....
*Decatur	1.60	4.13	2.48	4.84	3.66	2.61	4.57	5.16	2.67	4.07	1.74	2.16	39.69
*Dixon	2.76	0.90	3.07	4.20	4.35	1.46	4.91	5.64	6.13	3.21	0.73	1.16	38.52
Dwight	1.55	3.17	2.50	5.14	3.24	2.37	.....	.....	.....	.....	.....	.....	.....
Effingham	2.10	3.55	3.50	2.28	0.68	4.57	.....	.....	.....	.....	.....	.....	.....
Equality	2.67	4.44	7.27	3.53	2.60	2.40	1.83	1.62	0.60	2.17	1.29	2.74	33.16
Fandon	0.88	1.48	2.42	3.87	2.85	1.57	2.32	4.37	4.25	4.42	1.41	0.87	30.71
Flora	2.04	2.02	3.57	4.79	1.75	2.18	3.89	5.62	2.51	1.81	0.83	1.92	32.93
Friendgrove	2.58	5.15	4.76	4.86	5.37	2.33	3.31	4.52	1.07	3.51	1.73	2.83	41.55
*Galva	0.74	1.95	2.72	4.07	5.42	3.64	5.77	4.91	5.30	1.88	1.08	0.92	38.40
*Grafton	1.67	3.28	3.44	3.40	2.47	3.40	1.34	4.44	5.18	1.85	0.53	.....	.....
Greenville	1.29	3.48	3.34	4.07	1.71	2.41	2.29	2.84	1.84	2.51	1.10	1.80	28.68
Griggsville	1.30	2.62	3.20	4.59	3.34	3.14	2.10	4.52	4.89	2.53	0.68	1.05	33.96
Halfway	2.03	4.65	4.03	2.75	3.06	2.78	2.78	1.46	1.61	3.19	0.96	2.19	31.49
Halliday	1.22	3.65	3.98	1.98	1.67	1.91	2.51	3.58	2.46	.....	.....	.....	.....
Havana	.....	.....	.....	.....	.....	2.55	3.02	5.48	5.66	2.18	0.89	1.35	.....
Henry	1.20	2.59	3.84	5.22	3.85	2.67	3.28	5.50	6.68	1.35	1.69	1.86	39.73
*Hillsboro	1.19	3.16	2.22	3.57	2.83	4.26	2.56	5.63	1.87	1.78	0.61	3.05	32.73
Hoopeston	1.94	3.03	0.64	6.45	3.77	1.84	3.85	5.78	1.64	1.92	1.80	2.45	35.11
Joliet	1.05	2.92	2.22	3.62	2.49	1.68	4.46	4.77	4.98	1.40	0.80	2.18	32.63
Kishwaukee	0.58	1.19	3.84	6.00	3.73	2.38	5.25	9.29	6.06	2.77	1.25	1.04	43.38
Knoxville	1.10	1.72	2.95	5.62	4.57	2.43	1.53	6.40	2.45	2.20	1.08	0.98	33.03
Lagrange	0.86	2.90	2.51	3.51	1.27	[e]2.06	.....	.....	5.54	1.50	0.37	2.08	.....
Laharpe	2.07	2.13	1.92	5.30	3.00	2.20	1.45	5.00	7.65	4.05	1.02	0.88	36.67
Lanark	1.06	1.90	2.94	4.02	5.05	1.88	9.09	6.26	5.64	2.02	1.06	1.71	42.63
Lasalle	.....	1.27	2.94	.....	.....	.....	.....	4.95	6.27	1.02	0.65	0.33	.....
Loami	1.24	2.47	1.31	3.85	4.78	3.96	2.43	3.76	3.74	1.97	1.08	1.32	31.91
*McLeansboro	2.21	4.86	3.72	3.75	3.38	4.09	1.31	3.90	1.71	2.96	0.98	2.20	35.07
Martinsville	.....	.....	.....	3.81	0.85	2.54	3.06	4.50	2.93	2.28	1.55	1.15	.....
*Martinton	1.29	2.00	1.28	7.18	4.67	3.33	4.34	3.88	2.40	2.54	0.79	.....	.....
Mascoutah	1.76	4.74	2.34	3.54	2.12	3.92	3.83	3.30	2.83	3.45	1.58	1.14	34.85
Mattoon	0.99	1.95	2.01	4.16	1.14	3.12	5.39	6.73	2.33	1.29	1.06	2.78	32.95
Minonk	0.77	2.16	2.80	4.65	3.23	4.12	6.24	4.49	7.11	2.23	0.92	1.47	40.16
Monmouth	0.63	1.66	2.11	6.58	3.63	2.27	1.92	6.82	6.57	2.35	0.72	0.66	35.42
Morrison	1.04	1.47	2.41	4.45	5.49	2.02	7.40	5.78	6.09	3.57	1.05	1.58	42.35
Morrisonville	1.47	3.25	2.35	2.72	1.70	3.15	4.59	4.36	3.25	1.73	0.55	1.82	30.94
*Mount Carmel	3.58	5.46	4.44	5.82	2.05	6.22	3.46	2.71	1.38	3.96	1.89	3.44	44.41
Mount Pulaski	1.18	3.06	1.42	5.10	4.09	1.98	2.24	3.13	3.07	3.67	1.19	1.70	31.83
*Mount Vernon	1.66	3.37	3.15	3.66	2.54	4.89	0.94	2.87	1.94	3.20	0.84	2.68	31.74
*New Burnside	1.01	4.90	6.21	2.76	3.06	3.13	1.43	2.13	0.89	3.35	1.06	3.19	33.12
Olney	2.94	4.02	3.66	4.96	0.94	3.57	4.46	2.49	0.42	1.99	1.35	2.87	33.67
*Ottawa	1.13	2.35	3.10	5.08	4.19	3.78	1.94	4.90	6.03	1.43	0.46	1.91	36.30
Palestine	2.60	3.97	4.47	5.41	0.52	2.51	4.51	6.83	0.73	2.66	1.95	1.42	37.58
Pana	1.43	4.15	2.84	3.66	1.95	3.25	3.53	4.83	2.41	2.24	0.42	1.99	32.70
*Paris	1.10	2.45	2.73	4.54	[c]1.21	[k]1.10	3.43	3.48	0.71	2.24	0.56	0.29	23.84
*Peoria[1]	1.70	2.50	4.48	4.30	3.11	2.13	5.07	7.11	4.77	2.48	0.71	1.59	39.95
*Peoria[2]	0.89	1.70	3.66	5.15	4.22	2.39	4.91	7.22	5.78	2.13	0.85	0.95	39.85
Philo	1.45	3.16	1.45	5.50	2.32	3.36	3.49	2.39	1.77	2.87	2.04	2.20	32.00
Plumhill	1.28	2.89	2.98	3.13	2.31	1.94	2.28	3.43	.....	.....	1.41	1.68	.....
Pontiac	0.80	3.28	2.54	4.94	4.96	1.39	6.35	2.60	3.62	2.76	1.06	1.98	35.63
*Rantoul	1.14	3.23	1.40	6.26	3.77	6.13	2.73	4.66	1.25	1.85	1.34	2.62	36.38
Raum	2.63	5.22	5.90	2.65	3.34	1.60	2.76	2.35	1.94	2.83	1.81	3.71	36.74
Riley	0.80	1.38	3.47	3.36	3.29	1.65	4.61	6.52	6.43	1.97	0.82	1.66	35.91
Robinson	2.80	5.10	3.81	8.01	0.70	3.01	4.90	5.37	1.04	2.48	1.39	3.29	41.90
*Rockford	.....	.....	.....	3.95	2.53	1.62	5.49	7.59	5.89	.....	.....	.....	.....

[1] River observer. [2] Corn and wheat region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Illinois—Continued.													
Rushville	1.08	1.50	2.45	5.63	4.41	2.26	3.13	4.26	3.99	1.98	0.97	0.95	32.61
St. Charles	0.54	2.55	5.17	4.04	3.71	3.08	6.89	4.83	6.60	1.39	1.06	1.94	41.80
St. John	1.49	3.64	3.22	2.25	1.89	1.37	2.04	2.39	1.33	2.29	1.12	2.05	25.08
Shobonier	1.05	2.51	3.47	4.36	0.62	2.60	2.93	2.87	1.48	3.05	0.87	1.72	27.53
*Springfield	1.44	3.05	1.47	3.99	5.28	2.13	1.59	2.92	2.48	1.50	0.98	1.50	28.33
*Streator	0.90	2.52	3.79	4.81	2.48	2.07	2.43	4.04	7.60	1.02	0.78	1.78	34.22
Sullivan	1.16	2.53	2.07	3.67	1.38	4.99	4.91	3.58	1.40	2.98	1.97	2.20	32.84
*Sycamore	1.83	1.87	3.10	4.76	3.16	2.70	7.14	5.14	6.88	2.57	0.97	2.38	42.50
Tilden	0.95	2.89	3.06	3.13	2.69	2.51	1.35	3.58	1.63	4.32	2.05	1.69	29.85
Tiskilwa	0.99	2.95	2.71	5.07	3.72	2.82	2.24	4.26	7.19	2.43	1.27	1.20	36.85
*Tuscola	1.71	3.20	1.71	4.48	2.07	2.60	3.97	4.46	1.48	1.74	0.90	2.63	30.95
Urbana	1.04	2.40	1.43	5.71	3.95	2.56	5.13	2.33	0.99	2.70	2.06	2.18	32.48
Walnut	1.57	1.88	2.65	4.88	4.59	1.96	5.38	4.53	6.69	2.98	0.53	1.32	38.46
Winchester	1.70	3.89	4.45	4.34	3.24	3.04	3.30	3.01	4.16	2.45	0.58	1.57	35.73
Winnebago	0.58	1.81	3.51	4.91	3.73	2.75	4.93	7.66	5.49	4.35	1.15	1.68	42.55
Yorkville	0.80	1.78	3.23	3.14	3.01	4.72	5.07	5.15	6.76	2.40	0.36	1.58	37.95
Zion	0.50	1.17	2.40	4.22	5.28	1.55	9.45	5.51	6.39	1.78	1.13	1.70	41.08
Indiana.													
Anderson	2.05	3.74	1.93	3.16	4.90	4.49	2.98	3.96	1.23	3.19	1.39	1.66	34.68
Angola	1.59	4.15	1.81	4.20	2.44	3.35	5.66	5.80	3.15	1.91	1.93	3.27	39.26
*Auburn	1.15	3.89	1.08	4.92	3.04	4.10	2.62	3.50	1.75	2.10	0.93	2.14	31.22
Avoca	2.85	5.77	4.32	3.22									
*Bloomington	4.44	6.00	4.75	4.23	2.22	2.55	3.90	5.46	1.50	2.70	2.11	2.91	42.77
Bluffton	1.30	3.30	2.06	4.36	1.89				1.50	3.42	1.64	1.83	
Butlerville	3.18	7.18	5.03	4.49	2.78	9.49	1.49	2.07	1.90	1.50	2.06	2.24	43.41
*Cambridge City	2.35	4.93	2.86	3.19	4.40	5.44	7.10	2.66	1.64	3.39	1.97	1.76	41.69
*Columbus	2.44	5.27	3.47	3.46	3.67	4.30	2.73	4.28	0.97	2.91	1.93	1.42	36.85
Connersville	2.30	3.82	4.32	2.74	4.56	4.20	4.12	2.64	1.07	3.85	1.68	0.79	36.09
Crawfordsville		1.90	3.30	5.85	4.68	3.67	1.55	4.63	0.83	2.49	1.58	0.61	
*Delphi	2.03	4.08	1.42	4.94	2.36	5.20	1.56	3.49	2.53	1.81	1.35	2.71	33.48
Edwardsville	2.80	6.52	4.07	7.86	2.69	2.64							
Elkhart	1.60	1.76	1.18	3.76	1.38	1.36	6.26	4.82	3.72	1.13	1.85	2.18	31.00
*Evansville	2.43	5.88	4.66	3.17	2.82	2.52	2.28	4.54	0.49	1.87	1.77	3.02	35.45
Farmersburg[1]	1.32	3.77	5.04	3.89	1.36	3.59		3.93	2.16	2.62	1.66	2.22	
*Farmland	2.23	3.82	2.24	3.27	5.59	3.63	2.06	3.97	2.43	3.67	1.26	2.10	36.27
Fort Wayne		4.61	2.29	3.80	3.30	2.52	4.85	3.57	1.47	2.45	1.45	2.12	
Franklin	2.42		3.10	2.66	5.73	3.02	6.77	2.29		3.65	1.89	1.89	
Greencastle	1.65	3.48	2.17	4.23	4.26	3.65	3.36	5.61	2.81	3.31	0.87	1.80	37.20
Greensburg	2.45	6.04	4.53	3.00	4.28	5.19	6.13	1.92	1.02	2.62	2.99	2.12	42.29
Hammond	2.25	3.36	1.42	4.71	3.21	2.75	2.69	2.49	2.96	2.54	0.79	2.57	31.74
Hector	2.25	3.90	1.77	5.12	3.30	3.00	2.95	2.56	1.40	1.82	1.25	2.30	31.62
Holland	3.89	6.03	4.08	3.85	0.88	2.78	3.14	3.55	0.49	2.26	1.19	2.47	34.61
Huntington	1.71	4.31	1.85	4.45	2.86	3.37	7.39	3.17	1.49	2.80	3.53	2.47	39.40
*Indianapolis	2.39	3.74	2.13	3.72	3.73	3.19	2.54	3.92	1.18	3.67	1.67	0.58	32.46
Jeffersonville	2.48	6.26	3.54	5.68	2.42	4.15	1.10	3.57	0.81	1.73	2.40	1.64	35.78
Kokomo	1.88	3.36	1.35	4.41	2.98	2.47	1.15	4.95	1.23	2.20	2.45	3.07	31.50
*Lafayette	1.82	3.25	1.53	4.98	2.71	2.37	2.68	5.05	1.96	2.58	2.34	2.40	33.67
Laporte	1.58	3.12	1.71	5.30	2.59	2.06	5.73	4.05	4.79	1.50	1.64	3.21	37.28
*Logansport	1.27	3.22	1.20	4.22	3.57	3.65	5.29	4.42	2.12	4.85	1.67	2.90	38.38
Madison[2]	2.44	5.21	4.58	4.60	2.08	8.82	1.52	4.65	1.11	1.16	2.02	1.88	40.07
*Madison[3]	2.63	4.86	4.30	3.97	1.60	7.31	1.39	4.47	0.69	1.06	2.49	1.92	36.69
Marengo	3.54	7.87	4.69	5.94	1.94	2.38	0.82	3.85	0.69	1.92	1.69	2.55	37.88
*Marion	2.12	4.29	1.97	6.62	4.12	6.60	2.14	3.02	1.09	2.71	3.06	2.12	39.86
Markle	2.30	4.55	1.70	4.40	3.40	2.50	6.30	3.30	0.80	3.80	1.65	2.05	36.75
Mauzy	2.77	4.90	3.29	3.21	4.29	3.52	5.21	3.64	0.91	3.91	2.31	2.15	40.11
Moores Hill	2.30	5.43	4.50	3.30	3.78	4.16	2.49	2.38	1.05	1.21	1.61	1.79	34.00
Mount Vernon	2.90	5.19	4.47	4.67	3.72	4.02	2.06	7.17	0.74	1.05	0.51	1.01	38.11
Northfield	3.35	2.90	1.77	4.29	7.75	2.42	1.74	3.66	1.51	3.48	2.16	2.09	37.12
Paoli	2.64	6.11	3.95	5.06	3.07	3.26	1.50	3.74	0.59	2.36	1.05	1.85	35.18
Princeton	2.75	5.00	4.40	4.75	3.12	2.82	2.45	3.55	0.75	4.58	1.96	2.15	38.23
Rensselaer	1.09	3.49	1.30	5.94	2.69	2.34	4.85	5.11	2.73	2.46	1.13	2.81	35.94
Richmond	1.84	4.46	3.06	3.62	4.78	3.72	3.04	2.48	0.80	2.80	1.95	1.53	34.08
Rockville	1.54	3.02	2.24	5.15	4.95	3.98	2.04	6.04	1.96	2.44	1.44	1.64	36.44
Rome					1.74	5.71	3.62	5.17	2.30	1.45	2.04	2.50	
Salem	3.04	6.61	4.59	5.65	2.34	4.12	1.60	2.89	1.34	1.88	2.23	2.34	38.63
Scottsburg	2.43	5.92	6.71	4.21	1.37	8.11	1.63	4.08	1.65	1.88	1.87	1.67	41.53
Seymour	3.00	6.05	4.00	3.90	1.75	4.55	1.90	3.45	1.00	2.20	1.85	2.10	35.75
Shelbyville						2.66			1.33	4.69	2.39		
*South Bend	2.91	3.33	1.86	4.89	1.25	5.52	6.43	5.21	3.72	2.47	1.43	3.30	42.32
Syracuse	1.51	3.99	1.69	4.94	1.73	3.24	4.80	4.63	3.81	3.13	1.86	3.02	38.55
*Terre Haute	2.32	3.67	2.72	4.35	3.20	2.24	2.15	3.38	2.94	3.31	1.15	1.79	33.22
Topeka	0.99	1.25	1.92	3.27	0.52	3.31	5.25		3.86	0.59	2.32	1.92	
Valparaiso	1.11	2.74	1.82		2.43	1.32	8.46	3.95		1.10	1.68	2.56	
Veedersburg	2.74	3.37	0.87	4.40		3.71		4.05	2.28	2.55	1.79	[4]1.23	
Vevay	2.80	5.45	3.85	4.15	2.70	3.80	4.20	2.65	4.15	1.65	2.15	1.10	38.65
*Vincennes	3.18	4.59	4.49	6.23	1.97	2.28	3.34	4.86	1.30	3.81	2.29	2.62	40.46
*Washington	3.50	4.94	4.65	5.60	1.67	3.11	2.68	4.78	1.30	5.21	2.48	2.34	42.21
Winamac		3.35	1.15	6.52	3.26	[5]4.24	4.18	3.76	4.55	4.02	1.05		
Worthington	2.46	5.58	4.38	3.79			2.18	3.29	1.58	3.85			
Indian Territory.													
*Ardmore	1.44	5.95	2.41	0.35	3.29	2.29	2.90	1.25	3.11	2.88	0.12	0.80	26.79
Chickasha	0.85	2.44	2.97	0.06	4.27	1.89	1.90	4.74	2.36	1.98	0.00	0.52	22.93
Claremore											0.37		
*Durant	1.30	5.35	3.17	0.37	3.59	5.88	10.89	3.45	3.76	4.92	0.18	0.92	43.78
Fairland	1.05	2.83	2.63	1.46	11.55	3.98	2.73	4.14	2.58	3.63	0.63	2.01	39.42
Goodwater	1.23	5.70	6.01	0.30	9.53	4.44	3.70	2.79	2.13	2.88	T.	2.68	41.84
Hartshorne	0.90	7.12	[6]4.71		7.03	1.90	2.54			9.05	0.35	1.20	

[1] Name of station changed from Prairie Creek.

[2] Dr. J. Cooperider.

[3] River observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Indian Territory—Continued.													
Healdton	0.72	6.09	2.08	0.32	2.58	1.80	0.51	1.39	1.83	2.52	0.00	0.64	20.48
*Holdenville	1.39	4.36	2.79	0.23	10.35	0.48	5.30	2.42	1.39	2.66	0.68	1.15	33.20
Hugo						3.48	7.70		4.80	4.30			
*Marlow	0.84	4.38	1.42	0.59	3.34	1.81	0.79	1.50	3.11	0.20	T.	0.39	18.37
*Muscogee	1.23	3.33	4.74	1.27	9.92	1.11	4.29	2.70	1.74	3.53	0.82	1.84	36.52
Okmulgee									2.24	4.49	0.82	1.55	
Pauls Valley	0.80	[f]2.90			3.75	3.05	6.20	2.02		2.85	0.45		
Ravia	1.82	5.21	2.21	0.40	3.43	1.63	8.76	1.23	3.39	4.12	0.08	0.60	32.83
Roff						2.19	7.95	1.60	1.85	3.64	0.10	0.90	
*South McAlester	1.68	5.83	5.10	1.04	5.66	2.33	5.50	5.25	3.52	8.76	0.03	1.40	46.10
Tallequah	1.20	4.37	4.24	1.61	[b]10.89		2.49	7.06		2.08	0.20	2.10	
*Tulsa	0.30	3.18	2.49	1.25	9.98	0.82	4.35	3.07	2.20	5.17	1.36	1.09	35.26
Wagoner			2.72					5.25	2.55	3.65	0.90	0.95	
*Webbers Falls	2.10	4.68	5.32	0.38	10.31	1.11	3.25	6.59	2.72	4.36	1.21	3.06	45.09
Iowa.													
Afton	T.	0.96	0.71	1.45	11.90	2.97	2.83	12.34	3.38	1.96	0.88	0.20	39.58
*Albia	0.40	1.46	1.87	2.53	9.13	3.93	2.21	7.49	5.02	2.26	0.64	0.40	37.34
Algona	0.30	0.95	0.60	2.91	8.05	4.26	2.77	3.90	3.90	1.40	T.	0.20	29.24
Allerton	0.48	1.17	1.85	1.80	8.20	3.90	3.92	11.58	6.90	2.22	1.74	0.63	44.39
Alta	0.16	0.93	0.80	2.65	6.96	4.85	6.81	6.28	7.05	1.12	0.62	0.19	38.42
Amana	0.28	1.47	1.44	2.39	7.30	1.33	2.47	7.31	4.43	2.15	0.60	0.50	31.67
Ames	0.14	0.94	0.61	1.97	9.46	1.97	4.77	3.70	1.46	1.07	0.14	0.18	26.41
Atlantic	T.	2.10	1.11	2.26	12.37	3.34	3.68	9.10	2.01	2.12	1.24	0.25	39.58
Audubon		0.49	0.47			3.33			2.79	2.72	0.94	0.12	
Baxter	0.10	1.05	0.90	2.12	11.70	1.42	3.61	5.35	1.77	1.23	0.20	0.10	29.55
Bedford	0.05	1.13	0.83	1.58	9.83	1.50	2.48	9.46	4.00	1.78	0.87	0.13	33.59
Belknap	1.00						0.94	6.72	5.08	2.32	1.51	1.16	
Belleplaine	0.70	2.32	2.10	2.75	7.53	2.81	4.47	5.46	3.97	1.34	0.39	0.59	34.43
Bonaparte	0.43	1.92	2.23	4.15	4.30	2.30	2.74	7.53	5.95	3.78	0.94	0.81	37.08
Britt	0.39	0.63	0.73	2.69	6.89	2.58	3.45	4.50	4.43	1.76	0.05	0.36	28.46
Buckingham	0.08	0.61	1.08		7.57	2.40	2.41	7.11	2.19	1.45	0.29	0.20	
Burlington	0.58	1.98	2.32	3.97	4.83	1.75	1.82	7.63	5.81	2.74	0.84	0.70	34.97
*Carroll	T.	1.29	0.70	2.70	9.54	4.99	5.59	6.00	1.74	1.39	0.44	0.10	34.48
*Cedar Rapids	0.11	0.74	0.65	1.97	6.11	1.14	4.94	6.12	4.06	1.48	0.48	0.68	28.48
Chariton	0.25	1.14	0.86		7.75	3.61	4.43	14.05	2.78	2.10	0.11	0.26	
*Charles City	T.	0.50	1.65	3.55	9.15	1.93	7.86	4.38	2.06	1.84	T.	0.21	32.63
Chester					9.44	2.28	4.15	8.41	4.46				
*Clarinda	0.14	1.18	0.99	1.92	9.97	3.29	2.02	9.50	2.46	1.17	1.13	0.17	33.94
Clearlake	0.25	0.62	0.50	2.35	7.54	1.60	4.95	9.59	5.10	3.08	T.	0.60	36.18
Clinton	0.83	1.29	2.36	4.93	5.45	1.66	5.27	4.79	6.12	1.85	0.78	1.00	36.33
College Springs	0.20	0.96	1.07	1.86	9.10	1.44	2.34	8.36	2.99	2.36	0.34	0.22	31.24
Columbus Junction	0.28	1.42	2.40	5.54	5.33	2.69	1.58	9.10	5.48	3.28	0.74	0.95	38.79
Corning	0.07	1.05	1.34	1.88	10.68	3.38	2.51	13.80	3.47	0.84	0.85	0.17	40.04
Corydon	0.32	1.55	1.97	2.44	7.70	4.31	2.94	10.14	5.16	1.74	1.26	0.26	39.79
Council Bluffs	0.03	3.23	0.50	2.72	10.01	1.83		15.09	1.71		0.92	0.05	
Cumberland	T.	1.00	1.10	1.65	8.27	2.96	6.69	9.32	1.70	2.15	0.78	0.20	35.82
Danville	1.20	3.35	1.55	3.80		3.64	1.75	5.97					
*Davenport	0.79	1.67	2.06	3.42	5.52	2.28	4.47	4.68	7.09	2.27	0.70	0.78	35.73
Decorah	0.31	1.09	1.58	5.38	6.75	1.57	8.14	8.07	2.94	2.13	0.18	0.80	38.94
Delaware	0.07	0.77	1.74	4.35	4.77	2.12	10.50	4.14	3.78	1.69	0.36	0.39	34.68
Denison	0.10	1.45	0.15	4.51	9.92	3.17	5.28	6.58	1.87	0.89	0.46	0.17	34.55
*Des Moines	0.20	1.12	1.09	1.64	10.64	3.06	3.62	6.72	1.62	1.32	0.31	0.09	31.43
Desoto			0.74	2.39	8.38	3.82	4.44	6.40	1.81	0.55	1.04		
Dows	0.20	1.45	0.95	4.04	9.33	3.07	9.50	4.47	2.02	1.63	0.10	0.42	37.18
*Dubuque	0.17	1.19	1.84	3.29	4.25	2.16	7.10	5.27	3.20	1.72	0.75	0.85	31.79
Earlham	0.03	1.57	1.05	1.73	11.60	4.20	3.62	8.20	1.91	0.90	0.76	0.05	35.62
Eldon		1.14	0.71	2.03									
Elkader	0.16	1.46	2.07	4.93	5.89	1.50	12.72	7.18	2.67	1.46	0.21	0.51	40.76
*Estherville	0.09	1.01	0.67	3.04	10.69	3.36	8.70	3.26	3.83	2.49	0.06	0.43	37.63
Fayette	0.04	1.22	1.70		6.65	1.91	10.71	4.75		1.73	0.06		
*Forest City	0.10	0.80	0.73	3.38	10.17	1.70	3.79	4.38	3.67	1.76	T.	0.65	31.08
Fort Dodge		0.83								2.02	0.41	0.02	
Fort Madison	1.46	1.03	2.25	4.81	2.88	3.49	1.70	5.09	6.37	2.75	1.34	0.64	33.81
Galva	0.30	0.80	0.16	3.65	10.07	4.07	4.32	6.11	4.25	0.93	0.05	0.09	34.30
Gilman	0.10	0.83	1.37	3.66	8.24	2.56	4.49	4.85	2.21	1.72	0.18	0.10	30.31
Grand Meadow	0.40	1.18	2.05	6.00	8.33	1.90	10.85	9.52	4.27	2.11	0.28	0.75	47.64
Greene	0.12	0.81	1.59	3.77	6.37	2.56	8.90	5.16	1.81	1.85			
Greenfield	0.09	1.13	1.03	2.27	13.50	4.83	2.43	8.87	2.15	1.52	0.65	0.12	38.59
Grinnell	0.34	1.92	1.21	2.04	12.69					1.45	0.24	0.37	
Grinnell (near)	0.22	1.55				1.90	3.79	7.13	3.63	1.35	0.25	0.15	
Grundy Center	0.12	0.90	1.91	1.69	11.04	3.14	6.19	4.03	4.23	1.05	0.21	0.24	34.75
Guthrie Center	T.	1.19	0.95	3.02	14.16	3.62	5.35	5.05	2.88	2.75	1.32	0.13	40.42
Hampton	0.18	1.52	1.33	3.62	7.95	2.49	9.70	5.28	2.09	1.82	0.19	0.34	36.51
Hanlontown			0.73	2.91	7.67	1.23	3.89	6.15	4.03	2.17	0.08	1.08	
Harlan	0.05	1.27	0.83	2.32	10.43	2.83	5.05	9.39	1.90	4.50	1.02	0.14	39.73
Hopeville	0.12	0.77	1.14	1.72	8.59	3.06	2.21	12.24	3.97	1.45	0.78	0.07	36.12
Humboldt	0.07	0.43	0.65	3.49	7.50	6.04	5.39	3.21	5.23	2.41	0.08	0.22	34.92
Ida Grove	0.10	1.37	1.96	2.73	8.40	3.45	4.31						
Independence	0.27	0.82	0.80	2.67	6.78	3.32			3.05	1.85	0.16	0.63	
Indianola	0.09	2.58	1.21	2.38	8.89	4.51		7.54	4.23	1.27	0.73	0.12	
*Iowa City	0.67	1.03	1.86	3.11	6.90	1.95	4.76	3.45	5.38	3.60	0.97	1.27	34.95
*Iowa Falls	0.20	1.35	1.35	3.15	7.17	2.16	6.58	2.77	1.45	1.72	0.09	0.45	28.43
Jefferson	0.27	0.98	1.40	4.13	14.29	4.58	3.89	6.17	4.24	2.52	0.23	0.18	42.86
*Keokuk	0.77	1.42	3.03	4.21	3.56	1.40	1.27	4.80	7.16	3.23	0.87	0.86	33.28
*Keosauqua	0.84	2.09	3.00	4.49	4.84	2.41	2.72	6.18	6.50	3.42	0.74	0.66	37.89
Lacona	0.85	1.04	2.49	2.85	11.35	4.60	1.99	9.16	4.15	2.13	0.94	0.80	42.35
Lansing				4.90	7.30	2.08	5.25						
Larchwood			2.11	2.12	8.38	3.34	5.88	4.87	1.92	2.16	0.17		
Larrabee	0.11	1.13	1.02	2.92	[d]10.52	3.02	8.24	5.83	8.79	2.05	0.26	0.18	44.07
*Leclaire	0.78	1.04	2.61	3.46	4.27	3.04	4.54	4.26	8.23	3.17	0.70	0.76	36.81

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Iowa—Continued.													
Lemars	0.01	.....	3.90	2.48	9.89	3.80	5.46	5.79	3.80	.....	.....	0.25	.....
Lenox	0.08	0.98	0.79	1.91	10.58	2.65	4.23	10.60	3.70	1.13	0.43	0.08	37.11
Leon	0.31	1.03	1.86	1.69	7.25	2.64	1.88	10.43	4.45	1.27	0.84	0.60	34.30
Logan	0.70	1.46	0.28	0.79	5.77	3.73	4.96	11.66	1.66	1.60	1.54	0.30	34.45
Maple Valley	0.20	0.90	0.98	2.49	7.27	5.25	6.23	6.04	7.83	1.16	0.79	0.20	39.34
*Maquoketa	0.30	0.82	1.83	4.72	6.55	2.10	7.68	5.24	8.48	2.24	1.13	0.62	36.71
*Marshalltown	0.29	1.14	1.55	2.17	8.46	2.74	6.12	3.23	3.07	1.61	0.40	0.12	30.90
Mason City	.....	1.11	1.07	2.78	7.57	1.42	5.94	6.23	4.04	3.25	T.	0.53	.....
Monticello	0.20	1.50	2.25	4.65	6.80	4.03	8.40	4.54	4.57	2.20	.....	0.32	.....
Mountayr	0.24	1.08	1.38	2.11	8.90	3.38	4.33	6.85	5.88	1.03	0.63	0.62	36.43
Mount Pleasant	0.15	0.32	1.15	.....	3.82	1.05	.....	5.32	6.15	2.72	0.99	0.19	.....
Mount Vernon	0.29	1.05	1.66	2.97	7.05	1.17	4.10	4.72	4.64	1.16	0.93	0.85	30.59
New Hampton	0.06	0.60	1.68	3.47	6.46	2.09	8.08	4.75	1.66	1.48	0.05	0.85	31.23
Newton	0.65	1.65	1.41	2.79	13.07	1.87	5.30	9.02	2.41	1.08	0.16	0.22	39.63
Northwood	0.40	1.12	0.95	3.84	6.95	3.24	3.41	6.94	4.46	2.13	T.	0.75	34.19
Odebolt	0.28	0.79	0.54	2.36	7.93	2.70	4.87	6.44	4.68	0.79	0.36	0.10	31.84
*Ogden	0.18	0.95	1.09	2.58	10.95	5.42	5.09	5.47	2.10	2.00	0.25	.....	.....
Olin	0.31	1.64	3.52	3.28	5.55	1.42	7.50	5.02	8.42	1.87	1.01	1.09	35.63
Onawa	0.06	1.62	1.08	2.56	14.76	3.85	7.21	11.62	4.30	1.71	1.34	0.42	50.53
Osage	0.31	1.65	2.02	3.93	8.23	2.10	6.39	4.43	3.86	2.99	0.06	0.90	36.27
*Osceola	0.57	0.90	1.41	2.12	7.16	4.13	2.45	11.30	3.61	0.88	0.56	0.10	35.19
Oskaloosa	0.22	0.79	0.90	1.67	9.68	1.78	1.61	5.72	3.12	1.68	0.57	0.34	28.03
Ottumwa	0.47	2.51	0.95	2.36	7.90	2.37	1.78	7.53	.....	2.49	0.65	0.81	.....
Pacific Junction	0.05	1.04	0.58	2.11	12.43	1.70	2.88	6.28	2.49	1.69	0.19	0.17	31.61
Pella	.....	.....	.....	.....	10.16	.....	.....	.....	.....	.....	.....	.....	.....
Perry	0.65	1.10	0.80	2.34	11.41	3.09	3.64	8.31	2.08	2.35	0.36	0.30	36.43
Plover	0.11	0.57	0.50	2.44	8.01	3.50	5.30	4.25	5.65	1.43	0.04	0.17	31.97
Primghar	.....	.....	1.15	2.64	7.62	3.22	4.52	5.35	3.79	3.22	.....	.....	.....
Redoak	0.05	1.70	0.88	1.56	11.74	3.25	2.34	11.61	2.84	1.21	0.36	0.13	37.67
Ridgeway	1.14	2.05	2.81	5.68	8.70	1.22	6.12	5.87	3.18	2.02	0.11	1.96	40.81
Rockwell City	0.40	0.60	0.40	3.44	11.09	5.93	6.64	4.93	5.26	1.70	0.50	0.10	40.99
Ruthven	.....	.....	0.15	3.25	5.78	.....	.....	.....	4.91	3.30	T.	.....	.....
Sac City	0.20	1.10	0.57	2.55	8.85	4.20	7.26	6.16	4.22	0.82	0.26	0.15	36.34
St. Charles	0.17	1.15	1.92	3.11	10.28	5.21	4.19	7.43	2.70	0.32	0.63	0.53	37.64
Scranton	0.12	1.37	0.55	2.98	12.06	4.24	4.88	7.99	.....	.....	.....	.....	.....
Sheldon	0.05	1.57	2.23	.....	9.00	2.32	6.22	4.87	1.84	[d]3.31	.....	.....	.....
*Sibley	0.27	0.50	2.52	2.28	9.00	3.82	5.93	3.91	2.80	3.98	0.02	0.35	35.38
Sigourney	0.56	1.40	1.35	2.26	8.69	1.72	2.71	6.37	6.86	1.13	.....	.....	.....
Sioux Center	0.05	0.90	2.68	1.72	7.73	2.99	2.70	4.33	1.51	3.75	0.10	0.35	28.81
*Sioux City	0.06	0.66	1.85	2.39	11.78	5.65	5.57	5.67	2.06	3.24	0.96	0.21	41.10
Spirit Lake	0.40	1.00	.....	.....	[b]13.03	3.25	.....	.....	.....	.....	.....	0.50	.....
Stockport	0.39	1.56	1.91	3.66	5.31	1.42	2.53	5.91	7.34	3.47	0.85	0.46	34.81
*Storm Lake	0.06	1.11	0.64	3.61	4.72	4.85	5.83	7.65	6.49	1.32	0.52	T.	36.80
Stuart	.....	.....	.....	1.99	10.54	4.09	3.18	5.23	3.54	1.03	0.84	0.20	.....
Thurman	T.	2.45	1.23	3.49	15.45	1.62	3.06	6.37	2.87	2.78	1.05	0.52	40.89
Tipton	0.35	1.17	1.57	2.76	6.20	0.98	6.36	2.57	5.36	1.67	1.53	0.95	31.47
Toledo	0.46	0.97	1.07	2.73	8.78	2.07	4.43	2.55	2.64	1.37	0.27	0.15	27.49
Villisca	0.05	1.62	1.65	2.75	13.66	3.82	.....	12.02	.....	1.27	0.99	0.23	.....
Vinton	0.12	0.78	1.27	.....	5.30	1.91	4.71	3.94	4.42	1.67	0.20	0.40	.....
Wapello	0.65	1.56	1.38	3.93	5.59	2.99	2.59	5.60	5.47	[b]2.05	0.79	0.70	33.30
Washington	0.38	1.43	2.25	3.79	5.12	1.70	1.52	4.76	4.76	2.98	1.46	0.60	30.75
Washta	0.05	1.20	0.90	1.95	10.80	4.72	7.14	5.08	5.19	1.93	0.70	0.20	39.86
*Waterloo	0.17	1.37	1.60	2.67	7.85	1.93	9.08	5.17	2.75	2.05	0.19	0.37	35.20
Waukee	0.35	1.38	0.84	2.04	10.78	3.11	4.32	9.33	1.42	1.22	0.98	0.32	36.09
Waverly	0.19	1.49	1.59	3.29	6.66	1.86	7.60	3.06	1.76	1.87	0.08	0.55	29.90
Westbend	0.38	.....	0.92	3.47	8.69	3.03	4.55	3.61	5.47	1.05	0.03	0.34	.....
Westbranch	0.18	0.99	1.99	3.77	6.76	1.57	.....	.....	.....	.....	.....	.....	.....
West Union	.....	.....	.....	3.95	8.28	0.75	11.12	6.14	.....	.....	.....	0.30	.....
Whitten	0.15	1.25	1.77	1.18	10.44	3.45	4.63	3.42	2.82	1.24	T.	0.25	30.60
Wilton Junction	1.02	1.90	2.91	4.78	6.89	2.04	6.35	3.52	4.93	2.85	1.67	0.43	38.29
Winterset	T.	0.95	0.66	.....	9.20	4.23	4.34	8.44	.....	.....	.....	.....	.....
Woodburn	0.05	1.72	1.19	2.10	7.23	3.77	3.41	17.74	5.02	1.53	1.04	0.15	44.95
Kansas.													
Abilene	0.30	0.81	.....	2.32	.....	.....	.....	.....	.....	.....	.....	.....	.....
Achilles	0.09	1.79	0.77	1.29	8.94	0.96	4.76	1.03	0.36	0.16	0.75	0.10	16.00
Alton	0.15	2.11	0.59	2.28	10.27	2.00	4.77	5.95	0.28	2.53	1.27	T.	32.20
Anthony	0.04	1.71	0.86	2.95	8.42	0.38	1.85	4.04	3.10	5.01	0.32	T.	28.68
Atchison	0.45	1.20	1.09	2.14	11.80	1.78	2.67	9.28	5.71	2.71	1.58	1.06	41.42
*Baker	T.	1.22	1.68	1.84	12.48	3.11	2.42	7.65	5.57	2.05	1.42	0.39	39.83
Beloit	T.	0.60	0.33	2.61	9.20	2.63	6.07	3.33	1.75	3.35	0.77	T.	30.64
Burlington	0.22	1.58	2.03	2.92	7.66	3.26	5.43	9.97	7.69	8.02	1.13	1.14	51.05
Chanute	0.69	2.83	2.94	3.29	9.93	4.16	.....	.....	.....	.....	[b]0.74	[c]0.12	.....
Clay Center	0.20	1.13	1.63	3.48	13.36	2.44	3.31	3.94	3.79	3.15	1.20	0.23	37.86
Colby	0.22	1.94	0.71	2.40	3.00	2.19	5.59	3.04	0.64	0.43	0.97	T.	21.13
Cottonwood	0.32	1.14	1.25	3.40	9.15	1.92	3.60	8.26	.....	.....	.....	.....	.....
Columbus	1.15	3.29	5.87	3.80	14.47	1.90	3.14	6.62	1.23	2.69	0.58	1.93	46.67
*Concordia	0.27	0.80	1.21	3.34	13.15	3.97	5.22	4.32	1.84	2.88	1.07	0.12	38.19
Cunningham	.....	.....	.....	.....	.....	.....	.....	3.25	.....	.....	1.00	T.	.....
Delphos	0.26	1.78	2.38	4.02	8.00	.....	.....	.....	.....	.....	.....	.....	.....
*Dodge	0.08	2.87	0.67	1.97	2.88	1.49	0.59	2.21	0.15	1.28	1.02	0.05	15.27
*Dresden	0.05	3.65	0.62	2.70	4.79	1.47	3.28	2.69	0.53	0.24	0.91	T.	20.93
Eldorado	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.11	0.40	.....
Ellinwood	0.21	2.67	0.63	2.68	6.49	3.97	1.10	7.37	0.78	2.38	0.87	0.34	29.44
Emporia	.....	1.10	1.91	1.85	8.96	1.05	3.53	7.51	2.41	5.10	0.91	0.43	.....
Englewood	0.43	2.82	0.29	1.95	6.34	1.66	T.	3.23	0.23	2.86	1.05	0.07	20.93
Enterprise	.....	.....	.....	.....	.....	.....	.....	.....	.....	[d]4.90	0.30	0.22	.....
Eureka	0.12	2.03	2.26	3.34	10.37	0.57	3.68	4.88	4.04	6.46	0.30	0.54	38.59
Eureka Ranch	0.09	2.30	0.57	3.40	5.98	3.00	2.83	2.44	0.79	1.82	0.94	0.15	24.81
Fallriver	0.19	2.61	2.41	1.76	11.02	2.92	6.29	5.89	3.02	3.29	1.57	0.77	41.74
Farnsworth	0.06	3.12	0.42	4.51	2.32	1.99	2.57	5.82	0.16	0.68	0.47	0.45	22.57

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Kansas—Continued.													
Forsha	0.25	0.99	1.10	2.20	5.53	0.93	0.45	5.77	2.50	4.26			
Fort Leavenworth	0.70	1.15	1.15	2.50	10.50	3.95	2.22	9.54	3.55	4.73	0.95	1.72	42.66
*Fort Scott	1.02	3.40	4.77	3.66	7.84	4.64	2.96	7.95	2.60	6.93	1.13	1.39	48.29
Frankfort	0.55	2.00	2.86	2.31	16.34	3.64	5.23	8.35	4.10	3.97	1.15	0.40	50.40
Fredonia	T.	4.20	2.30	2.89				4.63	3.71	5.51	0.92	0.40	
Garden City	0.25	4.45	0.70	5.10	1.49	2.83	0.77	3.65	0.35	0.40	0.40	0.25	20.64
Gove	0.10	2.09	0.21	2.95	3.66	1.21	1.49	3.56	0.20	0.66	0.72	0.40	17.25
Grenola	T.	2.27		2.56	14.33	0.82	5.36	4.57	5.31	5.76	1.00	0.34	
Hanover	0.54	0.52	0.60	2.50	14.25	2.55	3.66	6.85	2.55	3.10	2.00	0.00	39.11
Harrison	0.25	2.06	1.60	1.98	13.70	1.65	2.97	4.99	0.57	3.10	1.10	0.09	34.06
*Hays	0.15	4.20	1.08	2.01	10.08	4.40	2.72	4.55	0.55	1.95	0.88	T.	32.52
Holton	0.38	1.28	0.80	3.08	13.09	2.73	3.89			3.26	1.40	0.49	
Horton	0.48	1.40		2.57	13.32	2.26	2.82	5.58	5.09	2.23	1.15	0.24	
Hoxie	0.10	2.40	0.45	3.35	3.10	2.55	3.20	3.21	0.69	0.37	0.93	T.	20.35
Hutchinson	0.40	2.62	0.90	2.64	7.51	1.48	3.04	1.91	2.84	3.44	0.68	0.17	27.63
Independence	0.47	3.46	4.95	2.89	9.73	1.52	3.90	3.92	1.75	3.31	1.27	0.14	37.31
Jetmore	0.05	1.95	0.80	2.25	3.66	1.08	0.10	2.39	0.15	1.82	0.60	T.	14.85
La Crosse	0.15	2.65	0.28	2.66	5.66	2.63	1.06	6.02	0.05	3.42	1.29	T.	25.87
Lakin	0.20	3.20	0.30	5.51	2.54	3.99	1.10	2.75	T.	0.62	0.36	0.05	20.62
Lawrence	0.44	1.76	1.88	2.53	7.06	3.11	5.31	7.95	3.61	4.98	1.74	0.98	41.29
Lebanon	0.30	0.94	0.80	2.00	10.70	1.60	5.60	7.10			1.00	0.00	
Lebo	0.36	1.77	2.51	3.36	8.59	3.46	2.78	7.78	5.34	5.76	0.81	1.12	43.64
Leoti	0.04	1.95		4.25	4.71	3.46	1.70	5.43	0.10				
Little River	0.20	2.66											
*Macksville	0.22	2.10	0.50	1.40	6.65	1.20	0.89	5.60	0.13	3.93	0.45	0.12	23.19
*McPherson	0.47	2.96	0.96	3.16	10.85	1.20	2.96	6.39	5.28	5.33	1.24	0.36	41.16
Madison	0.14	1.84	2.23	3.23	9.27	1.53	4.53	5.99	6.26	5.56	1.71	0.88	43.17
Manhattan[1]	0.65	1.85	1.30	3.05		1.61	3.80	6.17	2.98	3.90	1.51	0.40	
*Manhattan[2]	0.63	1.57	1.31	2.73	9.60	2.34	2.94	6.45	2.77	5.02	1.47	0.20	37.03
Marion	0.60	1.50	1.35	2.50	7.85	1.75	3.75	5.05	2.65	5.75	2.10	0.75	35.60
Meade		2.80		[f]1.37	3.45	2.58	0.56						
Medicine Lodge	0.11	1.75	0.92	2.00	6.86	0.63	1.70	1.17	1.32		0.88	0.02	
Minneapolis	0.35	1.02	0.55	3.61	9.30	2.29	2.40	7.53	2.34	2.31	0.66	0.20	32.56
Moran	0.56	1.72	2.39	3.26	6.96	3.10	10.42	7.87	1.59	4.95	0.97	1.16	44.95
Mounthope	0.20	1.94	0.83	3.58	5.71	0.45	0.63	4.21	1.97	5.00	0.76	0.30	25.58
Ness City	0.42	3.79	0.10	2.70	4.27	1.66	1.38	9.05	0.83	1.41	0.31	0.08	26.00
Newton	0.40	0.80		4.15	8.93		1.15	4.20	2.21	6.12	0.79	0.40	
Norton									0.45	1.29	0.25	T.	
Norwich	0.10	1.28	1.05	3.29	6.56	0.60	2.49	4.12	3.84	7.79	0.60	0.01	31.73
Oberlin	0.20	2.80	0.70	1.30	6.45	1.46	3.75	2.55	0.70	0.47	0.75	0.00	21.13
Olathe	0.73	1.60	2.69	3.37	11.14	2.94	2.40	5.80		4.12	0.65	1.05	
*Osage City				3.47	8.97	4.67	3.13						
Osborne			0.10	2.21	11.06	3.79	4.78	5.66	2.49	3.11	1.08		
Oswego	0.96	3.03	4.13	2.90	12.04	2.24	3.21	6.14	1.14	5.18	0.78	1.42	43.17
Ottawa	0.62	1.87	2.48	3.37	7.93	3.05	2.50	7.73	4.90	7.66	0.91	0.65	43.67
Paola	0.85	2.50	2.50	3.52	8.47			5.89	5.17	5.73	1.05	1.28	
Phillipsburg	0.71	1.22	0.00	2.03	8.51	3.10	1.87	3.85	0.00				
Pittsburg	0.75	2.74	5.67	3.72	13.20	2.35	1.09	6.66	1.61				
Pleasanton		[f]0.99	2.09	4.83	7.21	2.49	2.60	6.46	2.78	4.25	2.28	1.97	
Pratt	0.10	1.38	0.38	1.75	6.55	0.58	0.37	1.78	0.40	7.93	T.		
Republic	0.31	1.30	0.90	2.62	17.13	2.64	6.06	5.68	1.55	2.43	1.25	0.09	41.86
Rome	0.40	2.11	1.65	3.44	9.63	3.43	2.72	3.37	0.81	4.76	0.47	0.10	32.89
Russell	0.30	4.00	0.65	4.24									
Salina	0.39	1.75	0.99	2.95	17.94	1.48	2.94	6.82	1.54	2.63	0.85	0.05	39.23
*Sedan	0.53	3.29	2.13	2.59	10.94	1.55	3.50	4.56	1.12	5.11	0.59	0.11	35.42
Seneca	0.23	1.55	0.91										
*Topeka	0.44	1.14	1.27	3.08	8.63	4.91	3.74	12.69	2.74	3.50	1.09	0.91	44.14
*Toronto	0.80	2.68	2.19	4.08	9.28	1.30	6.98	3.79	3.29	6.40	0.72	0.55	42.86
Ulysses	0.50	3.14	0.70	2.51	1.85	7.10	0.35	1.67	0.08	0.59	0.31	0.25	18.70
Valley Falls	0.64	1.22	0.61	1.78	7.40	4.82	2.82	7.91	3.02	2.99	1.12	0.63	34.96
Viroqua	0.11	4.10	0.30	1.25	1.88	2.46	1.62	1.78	0.20	0.30	0.20	0.10	14.30
Wakeeney	0.08	2.67	0.90	3.32	7.45	3.98	3.80	2.69	0.60	2.87	0.51	0.29	29.16
Wallace	0.15	1.90	0.25	1.91	2.77	2.34	5.36	0.73	0.48	0.28	0.78	0.28	17.23
Walnut	0.48	2.71	5.36	3.42	10.67	3.14	3.24	5.93	3.53	7.51	0.81	1.07	47.87
Wamego	0.47	1.29	1.36	3.29	13.11	4.22	3.73	7.59	2.87	4.78	1.81	0.35	44.87
*Wichita	0.08	1.71	1.61	3.31	7.97	1.26	1.46	4.46	2.25	5.96	0.75	0.26	31.08
Winfield	0.22	2.35	1.61	2.91	9.12	1.29	2.19	4.59	0.84	6.57	1.66	0.25	33.60
Yates Center	0.07	2.70	2.09	2.86	8.51	2.03	7.50	4.35	2.67	5.66			
Kentucky.													
Alpha	2.62	10.50	6.83	10.85	3.62	4.69	5.07	5.62	0.74	4.65	3.90	4.85	63.94
Anchorage	2.31	6.07	2.74	6.12	2.84	4.48	1.48	2.90	0.97	2.16	2.71	1.92	36.70
Bardstown	2.85	6.52	3.46	4.17	1.72	3.81	1.06	4.59	1.07	1.44	3.33	2.75	38.77
*Beattyville	3.08	8.37	5.06	6.55	1.78	5.19	6.38	3.77	0.37	2.78	2.58	2.86	49.27
*Beaver Dam				2.98	3.96	3.93	1.18	3.95	1.16	1.68	3.55	2.86	
Berea	2.01	*7.08	6.39	5.41	2.02	2.97	5.44	3.33	0.66	2.99	4.04	2.59	44.93
Blandville	2.85	7.78	4.10	2.35	4.43	1.72	3.76	0.66	0.65	2.25	2.12	4.68	37.35
*Bowling Green	2.64	8.37	3.10	3.23	4.95	5.95	5.46	2.03	0.76	2.63	1.21	3.57	43.90
*Burnside	2.75	7.98	5.65	8.30	2.83	3.59	3.15	2.23	0.46	2.84	3.59	3.55	46.92
Cadiz	1.95	[f]7.45	[d]4.07	2.34	4.94	1.92	5.03	1.13	T.	0.95	4.20	2.61	36.59
Calhoun						4.78	3.17	3.52	0.27	1.49	3.27	2.30	
Carrollton	2.26	6.24	3.22	3.78									
*Catlettsburg	2.31	6.29	4.64	3.79	1.58	4.00	4.65	3.02	0.92	2.88	2.60	1.61	38.29
*Earlington	2.48	7.50	3.34	3.38	5.92	2.55	4.80	2.05	0.45	3.52	3.89	2.93	42.31
Edmonton	2.25	8.65	6.67	5.35	3.69	4.28	5.63	2.19	0.35	3.01	3.89	3.02	48.98
*Eubank	8.04	9.81	4.74	6.97	3.08	3.67	5.71	3.75	1.59	2.20	3.47	3.90	51.03
*Falmouth	2.47	7.25	3.47	4.55	2.22	2.78	2.65	4.36	1.30	2.20	2.04	2.37	37.46
Fords Ferry	2.73	5.67	2.55	2.91	4.25	1.26	1.93	3.85	1.14	1.69			

[1] Agricultural College.

[2] Corn and wheat region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Kentucky—Continued.													
*Frankfort	2.28	8.12	3.78	4.66	1.03	3.99	3.54	2.39	0.72	2.50	3.14	2.26	38.42
Franklin	1.44	6.80	4.90	3.51	1.80	5.45	2.80	1.00	1.00	2.50	3.85	4.31	38.86
*Greensburg	2.69	8.48	6.01	4.22	4.27	3.84	3.02	5.25	0.35	3.11	3.39	3.08	47.71
Henderson	2.63	5.66	4.63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Highbridge	2.06	7.25	4.60	3.77	1.01	1.59	3.23	3.43	0.61	2.01	3.94	2.35	35.85
*Hopkinsville	2.66	7.66	4.31	2.68	6.18	3.39	3.23	4.08	0.95	1.74	4.53	4.02	45.43
Irvington	1.60	6.16	3.69	3.61	1.14	3.50	2.91	4.58	1.30	3.44	2.62	2.19	36.74
Jackson	2.37	8.20	4.24	7.33	1.44	2.23	5.69	2.21	0.13	2.95	2.45	2.29	41.53
*Lexington	1.68	6.16	3.24	3.29	1.75	2.71	2.62	1.49	0.81	2.12	2.84	1.99	30.70
Leitchfield	2.55	8.19	3.78	3.93	4.65	5.43	4.33	3.95	1.35	1.48	2.97	3.38	45.99
*Louisville	2.43	6.03	3.18	4.82	2.23	3.52	1.25	3.51	0.83	1.60	2.71	1.58	33.69
Loretto	2.30	7.43	3.69	4.55	2.80	4.05	1.52	6.01	0.68	1.96	3.10	2.40	40.44
Manchester	2.90	9.40	4.35	7.64	2.15	6.30	6.41	5.97	.....	.....	.....	.....	.....
Marrowbone	.....	[c]6.46	5.55	5.75	4.20	5.22	6.38	.....	0.10	.....	.....	.....	.....
Mayfield	2.62	.....	.....	2.34	2.07	0.70	3.15	2.20	1.65	1.83	3.32	4.43	.....
*Maysville	2.64	7.58	5.03	3.88	2.41	3.27	3.73	1.25	1.37	2.31	2.10	2.70	38.27
Middlesboro	2.40	8.94	6.05	5.88	4.11	1.85	5.31	5.31	T.	2.42	2.33	[b]3.62	48.22
*Mount Sterling	2.41	7.00	5.84	3.89	1.51	5.66	1.43	2.17	2.17	2.95	3.73	2.55	41.31
*Owensboro	2.58	5.64	3.37	2.91	2.50	3.35	3.28	4.45	0.77	1.51	1.90	3.30	35.56
Owenton	3.78	7.43	4.96	4.87	3.00	3.75	2.96	4.45	2.43	1.93	2.76	3.05	45.37
*Paducah[1]	2.88	6.47	3.42	1.86	3.75	0.47	2.63	1.42	0.44	1.92	1.98	.....	.....
*Paducah[2]	3.20	6.16	3.42	2.14	3.92	0.83	3.14	2.08	0.79	1.90	2.26	4.02	33.86
Pikeville	2.55	7.58	3.99	5.41	.....	.....	.....	.....	.....	.....	.....	.....	.....
Princeton	2.60	8.42	3.50	2.62	5.69	.....	.....	.....	.....	1.56	3.96	3.95	.....
*Richmond	2.03	7.76	3.17	4.07	3.32	2.90	2.44	4.04	0.78	2.95	.....	.....	.....
*St. John	2.44	7.94	3.64	3.16	3.86	3.94	2.30	4.50	0.30	1.57	4.45	2.54	40.64
Scott	1.82	5.12	4.21	5.14	3.87	3.17	3.89	1.20	3.31	1.19	1.90	1.09	35.91
Shelby City	2.37	8.96	5.52	4.63	2.61	1.87	4.06	3.80	0.36	2.86	3.89	2.86	43.79
*Shelbyville	2.71	7.15	3.63	4.58	0.92	4.63	2.03	2.73	2.80	2.49	3.20	2.29	38.46
Taylorsville	2.46	6.87	3.97	4.08	0.52	4.97	2.87	3.55	0.97	2.01	2.84	2.49	37.60
*Williamsburg	2.89	7.56	5.08	6.35	2.78	4.15	5.00	3.92	0.60	2.20	3.07	3.44	47.04
*Williamstown	2.21	5.57	3.25	3.25	3.18	3.64	4.46	3.86	2.04	2.24	1.95	1.96	37.11
Louisiana.													
Abbeville	6.81	7.36	8.63	1.35	2.00	4.22	10.05	4.23	2.86	4.68	0.92	4.46	57.57
*Alexandria	5.61	13.87	9.10	1.42	1.07	5.40	3.98	2.92	1.00	2.86	0.46	4.67	52.86
*Amite	9.76	8.89	16.34	0.36	3.14	2.98	8.46	6.66	2.04	0.60	0.35	4.85	64.43
*Baton Rouge	8.22	7.54	10.79	0.60	2.53	4.19	6.15	3.91	2.73	3.40	1.35	2.95	54.36
Burnside	6.94	9.94	8.09	0.62	2.28	5.86	4.54	6.12	1.49	2.03	0.86	3.94	52.71
Calhoun	2.77	10.12	6.95	0.40	3.90	3.04	10.66	5.62	2.88	.....	.....	3.42	.....
Cameron	4.51	6.11	5.93	2.43	2.50	2.43	8.36	1.89	0.00	0.49	0.02	3.18	37.85
Caspiana	.....	.....	.....	.....	.....	1.50	6.46	3.67	0.87	2.06	0.23	5.04	.....
*Cheneyville	4.97	13.28	11.59	1.60	2.08	3.49	4.76	5.70	1.55	2.05	0.00	.....	.....
Clinton	6.51	7.61	21.47	1.15	2.75	4.48	7.14	4.51	0.43	2.93	0.55	5.23	64.76
Collinston	4.84	9.44	5.65	0.76	4.21	1.15	3.27	3.77	1.48	0.48	0.04	4.94	40.03
*Covington	7.64	8.16	8.09	0.17	1.66	7.48	8.91	5.91	1.30	0.94	0.62	3.75	54.63
*Donaldsonville	7.09	10.19	6.55	0.93	3.58	2.97	2.76	4.59	1.60	1.90	0.65	5.11	47.92
Emilie	6.44	7.59	5.00	0.47	0.93	5.16	3.72	6.65	1.44	1.12	T.	4.62	43.14
Farmerville	2.54	9.55	8.36	0.74	4.11	1.65	3.93	5.79	1.82	0.39	.....	.....	.....
*Franklin	6.66	7.96	6.13	1.44	1.57	4.79	1.79	5.44	3.50	1.10	0.40	4.15	44.93
Grand Coteau	6.17	9.02	9.77	1.63	3.03	7.29	7.97	2.36	3.69	3.77	0.77	4.46	59.93
Hammond	5.93	9.40	10.15	0.39	1.47	8.51	9.73	4.89	0.91	1.67	1.35	3.62	57.52
Houma	5.92	5.58	4.40	0.65	1.99	4.28	7.60	11.12	4.33	1.14	0.16	3.12	50.29
Jeanerette	5.12	5.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Jennings	5.70	7.77	10.75	1.54	5.14	4.62	7.61	6.06	4.46	1.64	0.44	2.54	58.27
*Lafayette	6.82	8.38	8.65	1.07	3.30	2.79	11.00	4.92	0.80	1.86	0.55	3.36	53.50
*Lake Charles	5.43	11.10	9.42	1.38	2.59	9.14	6.49	3.50	0.72	2.04	0.40	3.17	55.38
Lake Providence	5.83	16.02	5.20	0.95	4.15	3.23	4.43	5.16	1.48	0.65	0.09	3.81	51.00
Lakeside	5.28	.....	9.04	1.79	2.23	2.87	8.51	3.59	8.01	1.10	0.23	2.01	.....
Lawrence	3.41	5.95	4.62	.....	1.77	8.22	10.31	4.85	1.37	3.90	0.80	2.45	.....
Leesville	.....	.....	9.17	1.52	1.57	4.85	4.82	2.81	0.71	0.99	0.26	4.82	.....
Libertyhill	5.68	8.77	7.35	1.68	5.97	2.61	8.59	4.12	1.52	0.56	0.18	5.34	47.87
*Logansport	.....	.....	.....	.....	.....	.....	.....	.....	0.30	1.61	0.34	4.34	.....
*Mansfield	3.44	8.40	5.76	.....	1.20	3.28	4.20	4.17	0.85	1.72	.....	.....	.....
*Melville	6.40	6.72	15.68	1.85	2.46	4.85	9.60	2.62	2.10	2.84	0.34	4.46	59.92
*Minden	.....	9.07	4.84	1.31	3.29	1.82	4.18	4.29	0.10	0.97	0.00	5.55	.....
*Monroe	5.36	8.96	6.24	0.48	5.05	1.58	2.54	8.92	1.29	0.32	0.16	4.17	46.07
New Iberia	5.20	.....	7.25	1.30	1.90	5.70	5.40	2.00	2.20	0.80	0.45	3.30	.....
*New Orleans	4.01	10.20	14.61	0.97	1.11	3.61	7.17	7.48	3.32	0.81	0.18	3.71	57.18
*Opelousas	6.13	10.05	13.94	1.75	3.65	7.77	6.41	3.64	2.53	3.41	0.47	3.36	63.11
Oxford	.....	.....	.....	2.00	1.42	3.33	4.43	3.12	0.00	1.79	0.00	4.24	.....
Paincourtville	.....	.....	.....	1.35	2.30	3.79	.....	.....	.....	.....	.....	.....	.....
Plain Dealing	3.34	9.07	4.22	0.69	4.09	2.01	6.62	2.69	0.66	2.15	0.05	3.85	39.44
Port Eads	3.89	7.70	6.65	0.45	3.05	3.91	4.65	4.21	2.16	3.18	0.73	2.43	43.01
*Rayne	.....	.....	.....	.....	2.63	1.37	6.85	1.80	2.20	2.42	0.39	3.80	.....
Reserve	7.06	6.09	6.00	[b]0.20	0.92	4.28	6.46	4.60	1.65	0.57	0.12	4.37	42.52
*Robeline	2.95	6.75	.....	2.45	1.90	4.45	3.40	7.40	0.45	2.65	.....	.....	.....
Ruston	4.60	8.72	7.35	0.60	4.03	0.99	3.44	5.58	1.43	T.	T.	5.02	41.77
St. Francisville	.....	[b]2.40	12.70	1.50	0.50	5.80	6.10	.....	0.09	2.00	.....	.....	.....
*Schriever	5.15	8.30	4.02	0.46	1.57	4.34	9.17	4.69	1.54	1.87	0.07	3.54	44.71
*Shreveport	2.95	5.79	2.89	1.41	1.65	1.55	3.32	3.06	0.25	2.33	0.04	3.22	29.26
Southern University	.....	.....	.....	.....	.....	.....	.....	.....	0.69	0.74	0.14	3.89	.....
Sugar Experiment Station	4.47	10.53	9.08	0.85	2.02	3.66	5.56	5.98	1.27	0.26	0.23	3.89	47.79
Sugartown	4.89	13.04	13.90	1.68	2.87	5.25	8.33	4.14	0.95	0.72	0.00	3.61	59.43
Venice	3.70	5.50	4.34	0.25	2.67	6.52	6.96	5.00	1.20	0.60	1.05	1.52	39.40
Wallace	6.43	6.97	5.33	0.60	1.35	5.81	2.46	4.48	1.52	1.20	T.	4.82	40.97

[1] River observer.

[2] Corn and wheat region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Maine.													
Bar Harbor	5.83	5.30	10.05	3.65	1.65	3.23	3.25	0.75	1.68	5.28	3.97	3.35	47.99
Belfast	4.96	5.13	8.94	1.45	0.53	3.51	4.12	2.69	0.84	3.99	2.46	4.26	42.88
Bemis	.....	.....	.....	.....	.....	14.60	3.49	2.82	.....	.....	.....	.....	.....
Cornish	4.54	4.50	6.84	2.81	0.27	8.83	3.69	3.28	1.27	4.21	1.63	3.19	45.06
Danforth	2.94	3.92	5.05	2.55	0.65	3.72	4.10	2.46	1.42	3.62	3.59	3.16	37.18
*Eastport	3.85	4.01	4.98	3.33	2.52	1.69	3.85	1.14	1.62	2.83	3.59	3.26	36.67
Fairfield	3.94	3.39	6.35	1.95	0.37	3.56	.....	.....	.....	.....	1.06	2.70	.....
Farmington	3.61	2.81	5.67	2.47	0.59	5.70	4.27	2.67	1.17	3.08	1.24	4.19	37.47
Fort Fairfield	.....	6.10	.....	1.25	0.35	1.93	3.82	.....	0.60	1.90	1.65	1.55	.....
Gardiner	4.54	3.63	6.65	1.42	0.46	5.12	4.77	2.90	1.34	3.82	1.63	3.56	39.83
Houlton	3.14	2.68	5.49	2.50	0.30	2.45	2.78	1.55	1.15	2.40	2.62	2.00	29.06
*Jackman	2.32	4.65	3.30	1.51	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Kineo	2.36	.....	4.99	.....	.....	2.79	.....	.....	.....	.....	.....	.....	.....
Lewiston	4.48	4.15	6.22	2.11	0.35	5.30	3.90	2.53	1.44	3.58	1.58	4.13	39.82
*Mattawamkeag	3.57	3.12	6.56	1.96	.....	.....	.....	.....	.....	.....	2.50	2.67	.....
Mayfield	5.48	3.27	5.33	1.56	0.58	6.54	5.27	3.03	0.85	3.12	1.61	3.06	39.70
*Millinocket	3.34	3.30	6.39	1.96	0.72	2.07	4.25	2.48	2.82	2.72	2.64	3.64	36.33
*Montague	.....	3.49	5.43	2.12	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Bridgton	4.20	4.02	5.62	2.02	0.54	6.38	3.45	2.88	2.16	4.04	1.02	3.36	39.69
Orono	3.62	3.48	6.22	1.71	0.73	2.09	6.49	2.22	1.21	3.44	2.79	3.14	37.14
Patten	1.60	.....	3.02	.....	0.12	2.29	4.03	2.64	0.69	2.58	2.42	3.40	.....
*Portland	4.90	3.44	5.60	2.51	0.68	5.53	2.50	1.85	2.06	3.57	1.44	3.46	37.54
Rumford Falls	3.51	3.89	4.09	1.51	0.18	5.25	6.01	2.96	1.21	2.69	0.98	3.63	35.91
*Solon	3.78	2.81	4.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Lagrange	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.99	1.86	2.51	.....
The Forks	2.30	3.63	4.42	1.35	0.61	4.36	4.58	3.24	0.91	1.60	1.73	2.97	31.70
Vanburen	2.70	3.81	4.65	2.25	1.56	2.03	4.71	3.05	1.12	2.57	2.05	2.51	33.01
Vanceboro	2.20	3.30	.....	1.89	0.20	3.40	.....	.....	.....	.....	5.08	0.39	.....
*Winslow	4.14	3.01	7.15	2.21	0.31	4.47	4.53	3.37	1.01	3.31	1.34	2.98	37.83
Maryland.													
Annapolis	4.15	6.20	5.60	4.00	3.50	4.95	8.00	6.67	1.05	5.40	1.12	3.40	54.04
Bachmans Valley	6.08	8.20	9.36	7.02	4.78	13.87	6.18	8.34	3.80	5.36	1.53	4.20	78.72
*Baltimore	3.81	5.43	4.40	3.29	3.33	5.01	7.65	5.88	1.00	3.54	0.73	2.19	46.26
Boettcherville	3.88	6.17	3.98	4.67	2.70	7.49	5.73	3.18	2.49	2.58	0.88	0.36	44.11
Boonesboro	.....	4.74	3.75	4.48	2.49	5.48	5.80	3.78	3.24	2.87	1.06	1.19	.....
Cambridge	4.71	6.56	6.94	3.20	1.81	4.86	4.70	7.15	3.04	5.97	1.83	4.27	54.54
Charlotte Hall	.....	.....	.....	.....	.....	.....	3.61	.....	2.02	4.89	1.36	.....	.....
Chase	4.25	4.98	4.98	4.03	1.60	3.28	5.74	7.44	2.02	3.56	0.91	3.36	46.15
Cheltenham	3.67	4.16	5.59	4.18	2.98	2.95	4.68	5.58	1.52	3.79	1.09	2.25	42.44
Chestertown	3.78	5.55	4.71	3.28	1.86	3.12	5.55	4.96	0.98	4.44	1.17	3.47	42.87
Chewsville	3.95	2.74	3.23	3.73	4.28	6.70	8.85	4.19	1.68	3.25	1.19	0.41	44.20
Clearspring	5.07	4.42	3.20	4.86	2.00	5.81	7.03	3.88	2.75	2.28	1.41	1.49	44.20
Coleman	4.00	5.46	5.05	4.91	1.20	3.09	5.28	6.00	1.35	4.19	0.79	3.76	45.08
Collegepark	3.75	4.34	5.54	4.37	3.10	5.27	6.55	3.51	0.61	4.04	.....	.....	.....
Colora	4.98	5.83	4.55	3.78	2.99	5.34	3.62	4.59	2.35	4.37	1.10	3.61	47.11
*Cumberland	3.96	5.49	2.77	4.11	1.92	6.07	3.02	4.16	2.49	2.62	0.88	0.50	37.99
Darlington	4.60	4.30	4.18	3.30	3.38	5.63	3.72	5.34	3.06	4.20	0.98	3.51	46.15
Deerpark	4.65	5.23	3.72	3.26	4.35	6.55	6.24	.....	1.10	2.55	2.60	1.77	.....
Denton	2.39	4.15	4.57	2.57	0.35	2.10	3.90	4.03	1.27	5.55	.....	3.39	.....
Easton	3.61	5.38	5.49	3.05	1.58	8.13	4.59	4.63	2.27	4.85	1.04	2.55	47.17
Fallston	4.28	5.09	4.28	4.18	2.13	5.37	5.87	5.05	3.16	4.89	0.92	2.86	48.08
Frederick	4.24	5.00	4.22	4.32	2.65	7.27	5.69	7.83	2.04	2.69	0.72	1.58	48.25
Grantsville	3.60	6.06	4.19	4.19	2.79	6.43	4.58	3.33	1.80	2.61	2.16	1.83	43.57
Greatfalls	4.28	3.10	6.23	4.07	1.89	4.86	4.77	4.51	0.58	4.07	0.56	0.88	39.80
Greenspring Furnace	3.85	3.94	3.00	4.13	1.18	7.06	6.68	3.55	2.62	2.23	1.15	1.31	40.70
Hancock	3.10	2.90	3.17	4.31	1.90	8.19	5.55	3.41	2.38	2.32	0.91	0.71	38.85
Harney	4.31	5.18	4.85	5.18	3.81	7.83	5.46	5.23	3.25	2.75	0.94	2.00	50.59
Jewell	3.53	4.46	6.20	4.41	2.34	5.91	4.35	5.12	0.96	3.90	0.98	2.48	44.64
Johns Hopkins Hospital	.....	3.69	4.30	4.19	3.42	5.22	7.19	6.60	0.91	4.18	0.95	2.86	.....
Laurel	4.57	5.70	5.50	4.82	2.62	6.41	5.30	7.04	0.74	4.35	0.98	2.33	50.36
McDonogh	4.63	3.27	5.55	3.79	2.74	6.36	8.58	7.55	1.68	2.36	.....	.....	.....
Mount St. Marys College	4.27	4.75	4.20	6.24	3.86	8.17	4.99	5.21	2.87	2.15	0.71	1.38	48.80
Newmarket	4.76	5.05	5.94	4.27	2.75	12.06	7.67	7.57	2.15	3.48	0.85	1.94	58.51
Oakland	.....	.....	.....	.....	.....	.....	.....	.....	2.28	2.96	2.15	.....	.....
Pocomoke City	2.68	3.92	6.60	2.80	0.98	4.23	5.20	2.42	4.00	9.63	1.52	2.71	46.89
Prince Fredericktown	3.77	4.84	6.30	3.59	4.12	4.26	.....	.....	.....	.....	.....	.....	.....
Princess Anne	3.78	5.39	7.45	3.54	1.25	3.11	5.22	6.31	3.18	7.74	2.21	3.01	52.19
Queenstown	3.13	5.22	4.86	3.22	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sharpsburg	4.11	3.19	4.87	4.39	3.10	5.97	5.89	5.63	3.48	3.07	0.85	0.72	45.27
Solomons	3.05	4.62	5.40	2.97	2.81	3.12	5.56	4.97	1.72	3.27	1.57	2.04	41.10
Sudlersville	3.08	4.71	6.35	3.75	1.41	4.39	4.32	5.27	1.61	5.36	1.27	3.30	44.82
Sunnyside	.....	7.67	6.33	4.97	4.50	.....	.....	.....	.....	.....	.....	.....	.....
Tacoma Park	5.20	5.60	5.53	3.91	2.09	6.35	6.27	5.40	1.03	4.27	0.86	2.27	48.78
Van Bibber	4.61	4.74	5.06	4.45	3.18	4.97	5.68	7.38	2.37	2.95	1.20	3.22	49.81
Western Port	2.73	4.33	3.07	3.27	2.93	6.95	5.73	3.37	1.79	1.58	1.29	0.32	37.36
Woodstock	3.69	3.68	4.99	3.07	2.61	5.16	.....	4.39	1.29	2.90	0.64	2.39	.....
Massachusetts.													
Amherst	3.28	4.27	6.40	2.30	0.48	7.79	4.64	4.92	1.66	2.72	2.04	3.95	44.45
Bedford	3.16	3.03	5.98	3.18	0.63	8.31	2.87	2.71	1.71	4.61	1.48	2.67	40.34
Blue Hill (Summit)	4.29	4.92	7.20	3.86	1.28	6.46	2.94	4.36	1.74	5.46	1.20	3.05	46.76
*Boston	3.48	3.90	5.95	4.43	0.32	7.19	2.99	3.33	2.43	3.95	1.48	2.57	41.97
Cambridge	3.54	3.65	6.09	4.07	0.38	7.40	3.11	3.56	1.67	4.05	1.52	3.25	42.29
Chestnuthill	3.96	4.60	6.52	4.33	0.79	8.14	3.54	4.01	2.96	4.87	1.53	3.01	48.35
Cohasset	.....	.....	7.34	5.40	0.76	6.75	4.22	3.66	1.15	3.91	2.06	2.25	.....
Concord	3.16	3.05	6.05	2.82	0.76	8.30	3.27	3.26	2.10	4.41	1.61	2.72	41.51
East Templeton	2.75	3.96	5.44	2.39	1.36	5.51	3.68	3.37	2.99	3.02	1.67	3.72	39.86
Fall River	4.48	4.99	7.13	4.76	1.08	5.14	2.16	4.11	0.65	3.88	2.01	3.32	43.71

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Massachusetts—Continued.													
Fitchburg[1]	2.68	3.59	5.86	3.69	1.20	10.34	3.05	3.43	2.29	4.87	2.00	3.88	46.88
Fitchburg[2]	2.65	3.61	5.14	2.49	1.05	8.98	3.08	3.06	2.46	4.10	2.13	3.26	42.01
Framingham	3.77	3.91	6.34	2.94	1.15	8.55	2.54	3.60	1.49	4.42	1.48	3.05	43.24
Groton	2.90	3.87	6.55	3.01	1.16	10.92	4.39	3.79	1.93	4.70	2.09	2.94	48.25
Holyoke	3.16	4.59	6.55	2.57	.....	.....	.....	.....	.....	.....	2.25	.....	.....
Hyannis	4.18	4.48	7.25	3.72	0.96	3.25	2.28	4.10	1.85	5.77	6.11	3.17	47.12
Jefferson	2.84	4.20	6.85	2.95	1.27	8.97	3.11	3.89	3.24	3.83	2.52	4.27	47.94
Lawrence	3.31	3.62	5.39	3.42	0.64	7.53	2.95	3.09	1.24	2.93	1.33	2.64	38.09
Leominster	2.68	4.32	5.86	3.05	1.33	9.89	3.47	3.22	2.55	4.30	2.20	2.53	45.40
Lowell	3.39	3.96	5.90	3.69	0.82	9.11	2.62	3.68	1.74	4.46	1.58	3.01	43.91
Ludlow Center	2.64	3.75	5.98	2.73	1.06	8.03	5.12	5.79	2.56	2.34	2.86	2.29	45.15
Middleboro	3.94	4.94	7.02	4.17	0.49	3.38	2.33	3.56	0.68	5.35	1.67	3.35	40.88
Monson	2.38	3.94	6.73	3.21	1.07	5.88	2.44	4.14	3.49	3.15	2.76	4.14	43.33
*Nantucket	3.02	3.32	3.53	3.04	0.93	1.10	1.81	2.09	1.37	3.33	3.82	2.97	30.33
New Bedford	4.77	4.52	8.02	5.77	0.81	4.13	2.22	4.47	1.71	4.15	3.57	3.35	47.49
*Pittsfield	2.76	3.92	4.88	2.04	.....	.....	.....	.....	.....	.....	2.32	3.33	.....
Plymouth	4.43	5.36	7.94	7.45	0.67	4.76	2.36	5.65	1.45	6.32	3.23	4.01	53.63
Princeton	2.39	3.96	6.52	3.09	1.74	10.08	3.95	4.30	3.20	4.78	2.60	3.71	50.32
Provincetown	4.15	3.48	6.41	4.40	0.56	3.52	2.48	3.64	1.62	5.47	4.39	3.22	43.84
Salem	3.77	.....	6.25	4.91	0.27	10.48	2.27	3.82	.....	.....	.....	2.43	.....
Somerset	5.85	6.25	9.27	6.72	0.68	5.35	3.28	4.01	0.87	4.04	2.39	5.18	53.89
Sterling	2.66	4.39	6.37	3.05	0.97	10.56	3.27	3.84	2.62	4.38	2.16	3.84	47.01
Taunton	7.59	6.69	6.79	4.65	0.35	4.49	3.89	4.05	0.72	3.97	1.68	3.70	48.57
Webster	3.30	4.44	7.23	2.68	0.73	7.25	2.98	4.45	2.16	3.40	2.10	3.29	44.01
Westboro	3.63	3.64	6.85	2.86	0.97	10.37	2.86	3.84	2.88	4.67	1.70	3.41	47.18
Weston	3.78	4.26	6.30	3.45	0.81	7.93	4.35	3.92	2.11	4.37	1.51	2.63	45.42
Williamstown	2.68	3.55	4.67	1.37	0.68	9.07	3.49	7.51	1.36	4.46	1.92	2.19	42.90
Winchendon	2.70	3.73	6.15	2.35	1.29	8.18	6.05	3.36	1.95	2.86	2.03	3.48	44.13
Worcester	2.75	2.87	5.15	2.28	0.88	7.44	3.01	3.31	1.14	3.21	1.89	2.30	36.23
Michigan.													
Adrian	0.40	1.40	0.50	4.02	1.37	2.83	6.19	5.25	1.88	0.85	1.40	.....	.....
Agricultural College	1.20	1.58	1.25	.....	2.63	6.28	3.79	6.73	2.86	2.01	1.45	1.76	.....
Allegan	2.82	2.90	1.06	2.66	1.46	2.06	5.66	4.52	4.39	1.91	1.79	2.92	34.15
Alma	1.99	2.71	1.57	2.87	3.97	2.99	2.73	7.84	5.16	4.20	0.80	1.47	38.30
*Alpena	1.52	2.63	1.51	2.00	2.39	2.57	5.06	5.68	3.02	2.73	1.36	1.07	31.54
*Ann Arbor	1.27	3.47	1.79	4.19	2.23	5.13	4.65	5.45	2.33	1.47	1.58	2.39	35.95
Annpere	1.38	1.13	0.37	1.78	0.52	1.92	2.50	1.66	1.51	.....	0.75	.....	.....
Arbela	2.95	3.97	1.65	4.32	6.13	6.25	4.45	7.77	4.52	2.95	1.95	1.27	48.18
Baldwin	2.10	2.45	0.33	3.65	2.43	.....	.....	2.68	6.83	1.17	1.55	.....	.....
Ball Mountain	1.04	2.69	1.43	5.25	3.56	5.00	4.28	6.41	2.59	1.93	1.75	1.98	37.86
Baraga	0.50	.....	.....	.....	.....	.....	.....	1.70	.....	.....	.....	.....	.....
*Battlecreek	3.32	1.66	0.65	3.63	2.39	2.24	3.18	6.55	2.93	1.77	1.95	2.65	32.92
Bay City	1.53	2.55	1.26	4.77	1.95	2.40	0.60	7.25	8.05	3.90	1.95	1.45	37.66
Benzonia	2.79	2.94	3.39	3.14	2.13	2.94	2.02	2.75	3.84	1.83	3.06	2.60	33.43
Berlin	1.41	3.08	1.73	3.03	4.18	4.28	4.62	6.05	3.55	1.39	1.42	2.13	36.87
Berrien Springs	3.50	3.10	2.44	5.00	2.05	3.42	7.02	7.02	3.45	2.50	.....	.....	.....
Big Rapids	2.66	2.82	1.78	4.09	3.01	1.93	1.59	3.73	4.38	2.91	2.14	2.85	33.89
Birmingham	0.99	3.00	1.70	3.83	2.09	1.04	2.17	4.42	1.88	1.50	1.49	1.12	25.23
Boon	2.34	1.80	2.12	4.93	2.73	3.20	2.73	2.98	.....	.....	.....	.....	.....
Calumet	2.20	2.45	2.84	1.98	5.77	1.27	2.89	2.79	3.17	4.84	4.19	4.12	38.51
Carsonville	1.10	1.06	1.01	0.32	.....	.....	.....	.....	.....	.....	.....	.....	.....
Caseville	0.53	.....	.....	2.55	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cassopolis	4.45	3.55	2.60	5.50	0.60	3.90	5.00	5.40	5.30	1.20	2.20	3.24	43.94
Charlevoix	1.30	1.30	3.15	1.96	1.55	2.03	2.35	0.51	0.43	0.84	1.70	2.30	19.42
Chatham	2.45	2.45	1.82	1.84	4.12	1.71	6.64	5.93	3.34	3.54	3.29	1.99	39.12
Cheboygan	0.75	2.00	3.30	0.10	2.33	2.10	2.10	4.40	[i]0.25	3.31	0.70	1.40	22.74
Clinton	1.14	2.81	1.30	5.21	2.49	3.09	3.54	4.36	2.95	2.06	1.28	1.96	32.19
Coldwater	1.10	1.20	0.60	5.70	1.17	3.20	6.53	6.55	4.55	1.25	1.90	2.00	35.75
Deerpark	2.94	3.50	2.83	1.44	3.45	1.71	4.49	2.64	2.50	2.46	2.70	2.65	33.21
Detour	2.35	1.79	5.07	1.19	2.31	1.91	5.36	5.78	3.16	5.01	2.89	.....	.....
*Detroit	1.63	3.19	1.36	5.51	1.55	6.32	4.59	4.27	2.78	1.67	1.18	1.83	35.88
Dundee	1.15	3.74	1.32	4.29	0.94	3.91	4.50	5.52	3.03	2.60	1.63	2.09	34.72
Eagle Harbor	0.21	2.30	1.13	2.18	5.44	1.07	2.51	2.55	[j]1.01	[j]3.59	.....	.....	.....
East Tawas	1.38	1.61	2.41	2.19	1.83	3.66	4.53	3.25	3.73	1.68	[a]1.49	1.91	29.67
Eloise	1.08	3.94	1.02	4.75	1.79	4.39	3.98	3.38	2.81	1.44	1.02	1.99	31.49
*Escanaba	1.01	0.70	2.70	1.69	3.41	1.18	7.85	4.97	4.73	1.75	1.76	0.88	32.58
Ewen	0.70	0.70	2.08	1.06	5.94	1.14	5.46	3.67	3.36	1.65	1.35	0.55	27.66
Fennville	2.93	2.25	1.99	3.94	2.23	2.64	5.54	5.27	4.31	2.20	[b]1.99	4.26	39.55
Fitchburg	3.13	3.45	1.48	6.38	2.82	3.63	4.25	6.48	4.15	2.02	2.21	2.82	42.82
*Flint	1.61	2.74	1.67	3.71	3.93	5.47	1.09	6.72	4.04	2.77	1.81	1.37	36.83
Frankfort	1.20	1.50	0.62	0.60	2.86	0.81	.....	.....	.....	1.49	1.05	0.90	.....
Gaylord	1.65	1.75	2.40	0.43	1.00	1.70	4.10	6.70	1.35	0.92	2.50	2.01	26.51
Gladwin	3.05	1.75	1.90	4.00	2.40	1.75	2.80	1.50	1.85	1.20	.....	.....	.....
*Grand Haven	1.66	2.51	1.64	4.92	3.06	2.40	2.08	5.83	5.44	1.04	1.24	1.37	33.19
Grand Marais	2.81	1.85	2.07	2.48	2.87	2.56	4.72	3.43	2.26	2.25	2.09	2.31	31.70
*Grand Rapids	1.11	1.08	2.48	4.80	2.28	4.21	4.14	4.83	5.22	2.31	0.85	2.29	35.61
Grape	1.21	3.49	1.45	3.92	1.59	2.23	3.41	7.52	2.66	1.80	2.78	1.84	33.90
Grayling	3.30	3.45	1.45	2.50	3.60	[i]0.60	3.54	4.60	4.93	.....	2.20	3.10	.....
Hagar	3.44	2.76	3.35	7.00	1.59	2.85	7.50	6.90	4.07	2.52	1.24	4.85	48.07
Hanover	1.72	3.02	.....	.....	2.30	2.63	.....	.....	.....	.....	.....	.....	.....
Harbor Beach	1.44	1.51	1.06	1.75	3.55	2.22	2.81	4.52	3.78	2.58	2.27	1.32	28.88
Harrison	1.91	1.73	1.04	3.83	2.20	2.33	1.23	2.75	3.89	2.82	2.15	2.60	26.46
Harrisville	2.08	2.88	1.86	2.19	2.95	3.32	5.52	5.47	3.68	2.27	1.66	2.22	36.05
Hart	1.21	1.91	0.31	1.05	2.05	2.76	1.05	2.78	1.97	.....	0.75	4.40	.....
Hastings	1.87	3.05	1.12	3.72	2.47	1.84	5.68	5.65	3.82	1.55	1.57	1.98	34.32
Hayes	1.88	3.45	1.63	3.13	1.89	3.60	2.99	3.38	6.05	3.91	1.45	1.76	35.11
Highland Station	1.90	3.85	1.67	4.55	2.63	5.34	3.61	4.64	3.33	1.19	1.71	1.82	36.24
Hillsdale	3.20	3.86	1.48	6.17	3.23	3.31	6.77	6.21	3.16	1.35	1.58	2.64	43.16
*Houghton	2.54	1.74	3.27	3.70	4.85	0.60	4.66	2.03	3.03	3.52	5.17	4.06	39.17
Humboldt	0.50	0.10	0.35	0.70	2.33	.....	.....	.....	.....	.....	1.60	1.10	.....

[1] Dr. Jabez Fisher.

[2] Dr. A. P. Mason.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Michigan—Continued.													
Ionia				2.20	2.00	2.50							
Iron Mountain	0.54	1.46	3.06	3.26	6.63	1.75	5.42	5.31	4.71	2.85	2.56	0.84	36.36
Iron River	0.45	0.60	2.70	10.50	6.45	1.60	9.50	5.55	6.60	3.30	1.40	0.95	49.60
Ironwood	2.00	0.84	1.72	0.89	4.77	1.01	7.33	2.86	3.77	1.61	2.09	4.40	33.29
Ishpeming	[a]0.55	1.40	2.85	1.44	8.71	1.69	6.58	7.16	4.50	4.67	3.60	1.55	44.65
Ivan	2.56	2.14	1.36	3.69	1.53	2.71	3.72	5.41	3.86	2.44	2.46		
Jackson	1.69	3.56	1.19	5.66	3.56	3.17	4.65	5.46	2.55	1.43	1.43	2.07	36.42
Jeddo	1.22	2.47	1.20	3.56	3.75		2.83	6.75	3.10	2.10	2.95	2.10	
Kalamazoo	2.85	2.37		4.87	2.50	1.80	3.72	3.37		[f]0.58	2.78	5.71	
Lake City	2.10		1.56	0.33	1.83	1.05	0.17	3.80	0.94	0.10	0.55	1.55	
Lansing	1.54	3.10	1.52	4.40	2.07	4.16	4.79	5.68	3.92	1.99	1.45	2.06	36.68
Lapeer				1.73	2.64	[e]5.24	4.09	5.20	3.62	1.67	1.84		
Lincoln	0.55	0.70											
Ludington	[i]2.60	2.40		2.61	0.84	2.36	1.80		0.27	0.33		[j]3.16	
Mackinac Island	2.25	2.68	4.54	1.34	2.91	1.86	4.01	4.58	3.49	5.88	[d]2.75	2.56	38.85
Mackinaw	1.60	0.84	4.26	1.56	2.75	2.51	5.75	7.40	4.70	4.22	1.80	3.57	40.96
Mancelona	3.90	2.40	0.80	0.50	0.50	0.35	0.40	0.65	0.65	0.82	1.20	5.20	17.37
Manistee	1.80	1.30	3.00					0.08	0.40	0.23		[b]3.45	
Manistique	1.21	1.00	5.00	1.99	3.14	1.51	5.01	5.24	5.11	3.42	2.09	[k]1.20	35.92
Marine City						2.94	4.72	5.59	1.93	2.46		2.60	
*Marquette	1.35	1.24	2.44	3.60	5.24	2.16	6.79	4.68	2.93	2.30	4.63	2.48	39.84
Menominee	0.25		3.23	1.67	4.07	4.76	1.34	3.92	4.68	1.39	1.42	0.57	
Midland	1.08	1.51	1.57	3.60	2.48	2.78			5.40	3.50		1.37	
Mio	1.87	2.29	1.36	2.31	2.70	2.10	4.44	5.08	3.99	1.47	1.94	1.15	30.70
Montague	2.15	1.35	1.95	2.65	1.43	1.71	1.43	2.72	2.72	0.60	1.78	3.60	23.99
Mount Clemens			0.85										
Mount Pleasant	1.57	2.00	1.50	2.99	3.06	2.94	1.26	2.88	5.25		1.22	1.55	
Muskegon	1.50	1.90	1.92	3.26	2.38	1.60	3.40	3.88	5.78	1.47	1.72	3.60	32.41
Newberry	1.55	0.20		0.12			6.95	4.55	2.33	0.96	1.20	1.50	
Old Mission	2.00	1.50	3.99	3.09	1.35	2.32	2.71	7.49	4.43	1.08	3.04	1.33	34.33
Olivet	1.96	3.16	1.75	4.63	2.75	2.90	5.00	5.32	5.03	3.13	1.92	2.48	40.03
Omer	1.50	2.63		2.96		1.08	1.09	2.81	3.48	3.21	1.75	1.00	
Onaway	1.28	2.58	2.32	1.69	2.80	3.76	4.83	6.77	3.38	1.18	0.47		
Ontonagon	2.45	1.90	2.74	2.52	6.68	0.73	3.73	3.79	4.53				
*Ovid	1.54	3.05	1.16	3.22	2.84	4.01	3.92	5.13	3.46	2.78	1.11	0.98	33.20
Owosso	1.20	2.30	0.20		0.80	0.80	1.70	2.80	1.45	0.40	1.10	0.70	
Petoskey	[c]1.52	1.70	3.37	0.78	1.24	1.45	3.57	4.77	3.37	3.12	1.91	2.68	29.48
Plymouth								2.50				0.45	
Port Austin	0.87	1.24		0.81	3.05	2.47	2.62	2.44	3.30	2.03	1.69	1.15	
*Port Huron	1.38	2.46	1.54	2.19	3.68	2.47	4.89	4.26	3.23	2.16	2.78	1.87	32.91
Reed City	1.90	2.10	0.70	0.60								1.37	
Roscommon	1.84	2.80	1.90	3.03	2.25	2.05	2.74	5.41	4.57	1.40	1.75	1.40	31.14
Saginaw West Side	2.11	3.59	1.41	2.69	3.15	3.61	2.81	6.07	5.60	3.19	1.32	1.76	37.31
St. Ignace	0.95	0.90			1.46			4.71	2.43	4.41	1.59	1.45	
St. Johns	0.80												
St. Joseph	2.41	2.10	2.01	3.85	1.45	3.70	4.45	3.50	2.05	0.85	1.10	5.00	32.47
*Sault Ste. Marie	1.46	1.02	3.01	1.19	2.61	1.49	4.66	3.37	3.31	3.49	1.69	1.74	29.04
Sidnaw	1.55	1.60											
Slocum	1.23	1.96	0.37	1.13	0.76	1.07		2.91				1.40	
Somerset	1.00	[b]1.35		2.93	2.05	3.30	3.00	4.70					
South Haven	2.37	2.23	2.97	3.80	2.39	1.75	5.28	4.74	2.59	1.26	1.18	4.14	34.70
Thomaston	0.70	0.66	2.09	[f]1.05	5.94	0.35	6.08	4.30	3.37	1.58	1.80	0.80	28.72
Thornville	1.73	3.58	1.46	2.63	3.39	4.95	3.17	7.18	4.39	1.83	2.09	3.58	39.93
Traverse City	2.08	1.60	3.85	1.87	2.53	2.51	2.39	3.20	3.98	1.32	3.62	2.30	31.25
Vans Harbor			3.73										
Vassar	1.70	2.21	1.15	2.40	2.76	3.70	1.12	5.66	1.95	2.35	1.55	1.38	27.93
Wasepi	2.24	4.12	1.80	5.35	1.62	3.50	6.97	5.53	3.15	1.53	1.60	3.24	40.65
Waverly	1.81	2.02	1.30	4.53	1.52	1.96	6.22	4.64	3.91			2.26	
Webberville	3.06	2.82	1.72	3.57	1.52	3.99	4.56	5.66	4.36	1.99	1.99	2.40	37.64
Westbranch	2.21	[g]1.64	0.55	3.01	2.91	2.10	2.18	3.08	0.69	1.36	[h]0.92	1.75	22.40
Wetmore	1.10	0.70	0.30	1.20	3.20	0.70	2.82	2.45	2.35	2.87	3.17	1.71	22.57
Whitecloud	2.20	3.10	1.30	4.50	1.72	[f]3.94							
Whitefish Point	1.53	1.82	3.01	1.30	3.51	1.72	4.35	3.68	2.86	1.56	3.77	2.70	31.81
Ypsilanti	1.60	3.37	2.13	4.89	2.07	3.95	4.29	6.05	2.98	1.70	1.49	2.58	36.60
Minnesota.													
Ada	0.54	0.40	0.65	1.14	2.67						0.22		
Albert Lea	0.20	0.70	1.74	3.62	7.99	3.25	3.21	6.42	6.20	1.45	T.	1.40	36.18
*Alexandria	0.13	0.46	1.85	2.94	2.75	0.90	7.18	2.70	3.39	2.86	0.03	0.40	25.59
Angus		0.30	1.40	1.26	2.40	0.61	0.87	3.88	4.18	2.14	0.65	2.60	
Ashby	0.41	0.36	1.25	3.05	4.75	[b]1.92	5.52	3.02	4.08	1.87	0.18	0.50	26.91
Beardsley	1.00	1.00	0.55	1.67	3.20	3.48	8.29	3.68	3.95	1.83	0.10	0.34	29.09
Beaulieu	0.37	0.82	0.86	2.03	3.32	0.36	1.31			1.97	0.32	0.42	
Bemidji	0.65	0.79	1.05	1.30	3.01	2.96	4.48	3.71	4.27	3.10	0.18	0.71	26.21
Bird Island	0.50	0.13	2.89	2.47	4.67	3.58	5.90	3.92	7.01	2.56	0.34	0.67	34.64
Blooming Prairie	0.55	0.70	2.30	3.65	10.00	2.20	3.80	7.55	6.90	2.35	T.	1.10	41.10
Brainerd										4.18	0.30	1.15	
Caledonia	0.20	0.76	1.52	5.42	9.43	3.58	9.83	7.25	4.73	2.36	T.	0.98	46.06
*Campbell				1.49	2.49	2.36	4.71	8.06	3.43				
Collegeville	0.22	0.48	3.44	2.71	4.02	2.25	8.85	2.36	3.64	2.17	0.08	0.46	30.68
*Crookston	0.65	0.20	0.80	0.98	3.74	0.70	1.79	4.86	3.78	2.02	0.82	1.80	21.64
Currie							5.86	4.11		2.50			
Deephaven	0.05	0.14	1.33	2.95	6.12	1.32	5.92	5.53	5.95	4.40	0.34	0.30	34.85
*Detroit City	0.72	0.29	0.95	1.98	3.77	1.03	5.69	5.34	[a]3.50	4.12	0.30	0.99	28.68
*Duluth	0.83	0.67	1.87	2.16	3.54	0.79	3.50	3.80	4.76	3.84	0.96	1.30	28.01
*Duluth (substation)	0.73	0.61	1.84	2.09	3.59	0.83	4.12	3.84	4.84	4.12	1.15	1.04	28.80
Faribault	0.20	0.62	1.10	3.70	7.74	0.85	8.26	3.67	5.90	2.08	0.12	0.37	34.61
Farmington	0.35	0.35	1.95	4.03	6.39	1.10	3.09	5.35	7.91	3.92	0.40	0.70	35.54
Fergus Falls	0.46	0.27	0.95	1.54	2.45	1.52	5.17	3.06	4.05	3.20	0.21	0.75	23.73
Floodwood	[c]0.40	0.05	1.12	3.95	8.90	1.40	4.47	5.10	5.75	3.92	0.81	0.75	31.62
Glencoe	0.10	0.05	1.67	2.10	4.30	2.25	4.45	4.16	6.77	4.37	0.25	0.55	31.02
*Grand Meadow	0.46	1.20	3.62	4.86	9.42	1.99	5.04	8.33	6.44	2.75	T.	0.72	44.83

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Minnesota—Continued.													
Hallock	0.94	0.02	0.88	1.55	2.30	2.55	2.20	3.81	4.17	1.46	0.62	1.59	22.09
Lake Winnibigoshish	0.93	0.67	0.79	2.60	4.00	1.20	1.14	4.93	4.78	2.89	0.95	1.02	25.90
Leech Lake Dam	0.96	0.57	1.19	1.91	4.35	0.92	2.94	3.60	4.95	2.00	0.74	1.02	25.15
Long Prairie	0.18	0.46	2.15	3.37	3.30	1.44	6.08	2.82	5.32	3.10	0.16	0.25	28.63
Luverne	0.32	0.76	2.21	1.38	8.20	2.12	6.31	4.00	3.24	2.13	0.08	1.25	32.00
Lynd	0.57	0.52	1.58	1.68	6.40	5.22	4.86	5.25	4.08	2.22	0.22	0.36	32.96
Mapleplain	0.42	0.79	1.98	3.69	4.89	1.26	4.50	5.42	6.81	4.02	0.48	1.16	35.42
Milaca	0.20	0.36	2.47	6.02	4.53	2.72	11.41	3.96	5.43	3.47	0.40	0.63	41.60
Milan	1.07	0.55	2.46	2.38	3.97	3.78	6.60	3.74	*3.79	2.21	0.30	0.90	31.65
*Minneapolis	0.22	0.50	2.05	3.02	4.40	1.02	7.29	4.61	7.77	4.36	0.31	0.64	36.19
Minneapolis[1]	0.24	0.54	1.60	3.46	4.96	1.60	7.37	4.92	8.68	3.94	0.22	0.76	38.29
*Montevideo	0.24	0.37	2.92	2.70	4.66	2.39	6.60	2.79	5.46	2.95	0.22	0.63	31.93
*Moorhead	1.18	0.70	0.85	2.56	3.86	0.80	2.86	5.58	5.60	3.66	0.24	0.90	28.29
Morris	0.31	0.50	1.10	1.93	3.84	1.48	5.63	3.31	4.17	1.90	0.15	0.53	24.85
Mount Iron	1.15	1.07	0.48	1.55	3.87	1.63	3.21	3.64	7.45	5.16	1.96	2.73	33.90
New London	0.17	0.28	4.34	2.59	3.48	2.34	6.24	2.98	4.62	4.16	0.23	0.28	31.71
New Richland	0.50	0.80	1.45	2.87	5.98	2.16	1.03	8.78	3.91	1.74	T.	0.80	30.02
*New Ulm	0.25	0.40	3.48	2.53	6.22	3.20	5.58	5.87	7.42	4.72	0.15	1.12	40.94
*Park Rapids	0.61	0.55	1.24	2.30	3.99	1.79	2.38	4.68	5.44	2.35	0.44	0.87	26.64
Pine River	0.38	0.52	1.88	4.23	4.42	1.46	5.60	7.60	6.75	5.98	0.19	0.67	39.63
Pipestone	0.33	0.61	1.57	1.60	6.77	2.83	5.77	4.94	2.96	3.93	0.04	0.13	31.48
Pleasant Mounds	0.33	0.46	0.87	2.81	6.20	2.96	5.75	6.57	5.09	3.67	0.04	0.71	35.46
Pokegama Falls	0.42	0.98	0.72	2.85	4.43	1.30	2.67	4.53	5.90	3.65	1.10	1.22	29.77
*Redwing[2]	0.22	0.59	0.73	1.70	8.44	0.41	3.38	4.40	11.74	1.80	0.22	0.53	34.16
Redwing[3]	.....	0.69	1.41	4.14	7.88	1.96	4.24	4.94	10.07	2.31	0.27	0.35	.....
*Reeds	0.15	0.72	1.82	3.64	7.62	1.88	3.70	5.72	10.58	2.54	0.10	0.43	38.90
Rolling Green	T.	0.80	1.35	2.73	10.17	2.92	8.06	2.93	4.25	2.50	T.	0.60	36.31
St. Charles	.....	.....	.....	.....	.....	.....	.....	4.61	5.85	1.52	T.	1.85	.....
St. Cloud	0.20	0.33	2.75	3.74	5.46	1.28	10.53	2.64	5.20	.....	.....	.....	.....
*St. Paul	0.27	0.62	2.33	3.46	5.28	1.16	5.61	4.90	7.84	5.41	0.35	0.65	37.88
St. Peter	0.15	T.	1.69	2.57	8.31	2.82	4.17	4.33	8.79	3.97	0.10	0.87	37.77
Sandy Lake Dam	0.69	0.81	2.48	2.90	3.69	1.59	6.38	4.47	6.30	3.80	0.82	1.43	35.36
Shakopee	0.27	0.45	2.07	2.85	5.67	1.95	3.49	3.81	7.56	4.05	0.30	0.99	33.46
Thief River Falls	.....	0.10	1.45	.....	4.25	1.10	1.49	.....	.....	.....	.....	.....	.....
Tower	0.80	1.10	1.55	2.60	3.80	1.30	3.20	4.30	5.90	5.00	1.20	0.67	31.42
Two Harbors	0.61	0.42	2.84	3.80	4.03	2.98	5.09	5.57	6.94	3.11	0.95	0.35	36.69
Wabasha	0.26	1.10	1.93	3.63	8.76	2.21	4.45	4.09	9.77	1.75	0.22	0.76	38.93
Warroad	.....	0.05	1.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willow River	0.81	2.56	3.09	.....	4.02	1.65	5.75	4.76	.....	.....	.....	.....	.....
*Winnebago City	0.14	0.86	1.03	2.62	7.99	1.41	6.69	8.29	4.59	2.65	T.	0.57	36.84
Winona	0.07	1.42	2.55	3.82	9.55	2.00	3.76	6.56	4.45	1.87	0.02	0.57	36.64
*Worthington	0.28	1.80	2.98	5.26	12.68	4.60	9.19	5.10	.....	.....	.....	.....	.....
Wyoming	.....	.....	1.70	4.03	5.35	1.81	7.27	2.14	5.33	3.11	0.20	0.51	.....
Zumbrota	.....	.....	.....	.....	.....	.....	4.53	4.49	7.17	1.95	T.	.....	.....
Mississippi.													
*Aberdeen	5.28	8.93	6.82	0.75	4.20	3.25	2.09	3.69	T.	1.81	2.49	2.43	41.74
Agricultural College	4.64	8.62	4.63	0.45	8.33	2.36	4.80	3.35	T.	1.26	0.15	2.35	40.94
Austin	5.40	10.48	5.14	2.41	5.21	2.70	3.30	2.57	0.72	0.56	0.60	6.63	45.72
*Batesville	4.67	8.80	3.42	2.36	6.77	4.97	3.30	2.80	0.40	1.00	2.54	5.30	46.33
Bay St. Louis	4.83	.....	12.72	0.36	3.97	.....	.....	.....	.....	1.70	0.13	3.23	.....
Biloxi	4.83	7.82	8.73	2.28	1.40	2.55	8.97	4.68	1.05	2.25	4.02	4.14	52.72
Boggan	.....	.....	7.76	1.17	2.94	1.04	4.32	5.38	1.34	1.94	0.18	.....	.....
Booneville	4.74	8.41	6.20	2.91	5.51	3.88	1.09	4.74	0.18	0.55	0.86	4.60	43.67
*Brookhaven	6.15	12.55	13.07	1.28	8.77	2.65	6.65	3.30	0.40	0.80	.....	.....	.....
Canton	3.47	11.66	6.17	0.64	1.41	3.41	2.25	2.47	0.38	0.98	0.65	2.23	35.72
Cleveland	4.86	.....	3.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Columbus	4.79	11.22	6.02	0.62	7.87	2.18	2.99	4.65	T.	0.87	5.51	2.47	49.19
*Corinth	.....	.....	.....	.....	5.66	4.30	5.27	3.71	0.60	1.19	2.64	4.39	.....
Crystalsprings	5.08	12.39	6.81	0.56	4.32	4.44	5.64	6.54	0.30	0.73	0.26	3.68	50.75
Duckhill	.....	.....	3.60	0.95	3.54	1.15	3.15	3.40	T.	0.50	1.50	4.56	.....
Edwards	4.27	11.78	6.23	0.88	1.50	1.55	4.39	4.52	0.49	0.70	1.24	2.98	40.48
Fayette	6.35	15.25	9.55	1.25	4.25	3.90	8.15	7.25	1.82	0.90	0.42	3.17	62.26
Fayette (near)	4.43	12.39	8.72	0.83	5.88	3.29	7.23	5.74	1.30	0.61	0.52	3.46	52.40
Greenville[4]	5.04	8.04	5.76	1.12	2.42	2.07	4.50	5.34	0.38	0.50	0.27	4.21	39.65
*Greenville[5]	4.73	7.97	5.87	1.12	2.41	2.05	4.71	5.37	0.36	0.53	0.28	4.49	39.89
*Greenwood	5.13	10.89	4.53	0.52	3.69	2.64	3.10	3.52	0.59	0.53	1.45	4.46	41.05
Hattiesburg	5.53	10.22	8.14	1.18	4.29	4.35	4.97	3.41	1.20	2.71	1.07	5.01	52.08
*Hazlehurst	5.64	13.23	6.90	0.40	6.03	5.45	7.70	3.40	0.40	0.40	0.40	3.70	53.65
*Hernando	.....	.....	2.98	5.98	5.62	1.35	7.45	1.91	0.20	0.40	1.95	5.65	.....
*Holly Springs	3.41	8.12	3.48	4.60	7.27	1.67	8.99	4.42	0.38	2.04	4.09	5.07	48.54
Indianola	*3.72	10.82	3.40	1.30	3.07	4.41	3.02	4.45	1.20	[5]T.	1.04	.....	.....
*Jackson	.....	9.69	8.06	0.55	3.26	2.56	2.71	7.59	0.38	0.64	0.35	3.07	.....
*Kosciusko	4.73	16.29	4.52	0.99	8.34	1.90	3.66	3.97	0.22	1.81	1.12	1.86	44.40
*Lake	5.78	13.40	6.24	0.88	3.50	4.59	2.02	7.26	0.05	0.71	1.33	2.83	48.59
Lake Como	6.45	12.30	7.84	0.53	2.45	2.48	5.47	2.92	0.31	2.25	1.65	4.34	48.99
Laurel	6.38	12.30	10.14	0.42	3.11	3.12	4.98	.....	.....	.....	.....	.....	.....
Leakesville	4.63	9.47	4.09	0.14	3.72	.....	5.68	4.16	1.59	2.09	0.93	5.22	.....
Louisville	4.92	15.89	3.86	0.90	5.92	2.16	2.66	3.47	0.00	2.27	0.00	2.09	44.14
McNeill	.....	.....	.....	0.05	1.36	4.39	11.05	7.11	1.65	0.33	0.59	4.74	.....
*Macon	3.43	10.44	3.27	0.56	5.81	1.75	1.80	1.07	T.	1.85	2.24	2.62	34.84
Magnolia	8.18	10.13	11.74	0.67	4.13	5.09	6.28	4.00	1.28	1.12	0.48	4.70	57.89
*Meridian	4.99	13.30	4.45	1.35	1.42	3.24	6.68	4.61	0.09	1.02	0.71	2.78	44.59
*Natchez	4.20	14.25	8.75	1.05	2.85	6.58	6.40	8.05	0.50	0.65	T.	4.40	57.68
Nittayuma	5.81	14.08	4.98	1.10	1.95	2.24	2.99	3.01	1.25	0.45	0.14	2.77	40.77
*Okolona	5.52	[6]5.98	6.47	0.15	5.40	.....	1.32	4.25	0.02	0.07	2.20	2.40	.....
Patmos	5.47	13.40	5.08	1.23	3.39	1.34	3.71	2.44	0.98	0.07	0.08	3.01	40.20
Pearlington	4.67	8.67	8.84	0.50	2.15	3.12	9.76	6.19	2.59	2.01	0.29	3.54	52.33
Pittsboro	4.72	8.26	5.72	0.15	3.17	3.72	2.43	4.43	T.	0.52	1.85	4.77	39.74

[1] J. H. Aschenbeck.
[2] River observer.
[3] Training School.
[4] Robert Somerville.
[5] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Mississippi—Continued.													
Pontotoc	5.33	6.83	4.24	2.14	4.14	3.03	4.23	3.71	0.61	0.69	2.73	3.92	41.60
Poplarville	6.21	9.25	8.09	0.00	1.84	4.05	7.25	3.44	.....	.....	.....	.....	.....
*Port Gibson	.....	13.88	6.91	1.12	2.77	2.96	3.98	5.59	1.34	0.76	0.66	3.22	.....
Ripley	5.05	8.55	4.28	2.95	6.31	1.45	6.85	4.62	0.30	0.50	2.60	4.65	48.11
Shoccoe	3.55	11.64	6.11	0.71	2.51	2.80	4.60	8.04	0.12	2.30	T.	2.26	44.64
Stonington	6.20	11.10	8.59	0.20	4.78	.....	7.87	6.05	2.30	0.49	0.56	2.84	.....
Suffolk	5.63	13.26	9.41	1.72	3.41	4.53	9.53	3.22	0.80	0.67	0.39	4.95	57.52
Swartwout	5.94	8.27	9.45	T.	5.93	4.87	7.20	6.88	0.91	1.68	1.11	3.57	55.81
Thornton	8.45	13.44	3.61	0.50	1.95	3.12	1.44	3.53	1.55	0.91	0.90	2.80	42.20
*Tupelo	5.66	8.45	4.88	2.61	5.64	3.26	1.37	2.73	0.05	0.46	3.18	3.97	42.26
University	5.85	8.80	4.17	2.05	3.60	2.80	2.52	4.77	T.	1.09	2.44	5.44	43.53
Utica	.....	.....	.....	.....	.....	.....	.....	4.85	0.55	1.11	0.03	3.26	.....
*Vicksburg	4.10	11.45	6.00	1.00	2.75	1.80	2.11	2.82	1.81	0.96	0.25	2.99	38.04
Walnutgrove	4.44	11.22	5.41	0.96	2.05	2.78	3.03	5.91	0.51	3.88	0.19	2.20	42.08
Watervalley	5.68	9.97	3.74	1.77	4.47	4.45	2.97	5.07	T.	2.00	2.16	4.70	46.98
*Waynesboro	4.01	8.96	6.35	1.12	1.65	3.01	4.16	4.03	T.	1.00	1.31	5.22	40.82
West Point	.....	6.06	6.21	1.12	7.96	2.40	1.64	3.45	.....	1.84	1.43	.....	.....
Woodville	6.10	9.97	14.98	1.13	3.30	4.74	7.41	5.97	1.51	1.77	0.43	4.89	62.20
*Yazoo City	4.57	12.96	3.58	1.55	1.55	1.21	1.75	5.55	1.75	0.55	T.	2.61	37.63
Missouri.													
Appleton City	0.86	3.15	4.45	4.43	.....	.....	.....	6.35	3.06	3.78	0.73	0.73	.....
Arthur	0.80	3.87	4.67	4.53	9.68	7.74	2.96	6.31	3.09	3.98	1.90	1.49	51.02
Avalon	0.75	2.10	2.68	4.87	6.36	1.77	1.83	4.46	8.58	2.21	1.94	1.00	38.55
*Bagnell	.....	.....	3.85	1.84	.....	2.60	.....	.....	.....	.....	.....	.....	.....
Bethany	0.15	1.08	1.56	3.05	8.19	1.22	3.29	6.42	5.38	2.24	0.67	0.86	34.11
Birchtree	1.56	4.00	3.20	3.77	8.49	3.91	6.52	4.53	4.16	2.72	0.54	2.26	45.66
Blue Springs	.....	.....	.....	2.80	7.05	1.91	2.78	6.37	6.07	2.65	1.38	1.35	.....
*Boonville	1.91	1.98	3.56	4.26	5.24	4.10	2.71	8.09	4.28	3.13	1.00	0.59	40.85
*Brunswick	1.82	2.05	2.13	5.83	5.97	2.62	2.41	11.54	7.01	2.27	1.71	1.14	46.00
Carrollton	1.79	2.02	2.12	5.26	9.91	2.54	4.01	10.92	5.78	2.09	1.43	1.34	49.21
Caruthersville	3.45	6.03	6.14	1.83	5.49	1.68	3.16	2.23	1.84	.....	3.26	3.28	.....
*Columbia	1.90	2.66	3.46	4.66	5.26	2.16	2.36	5.09	5.24	2.41	0.71	0.87	36.78
Conception	0.40	1.35	0.85	1.88	8.67	1.54	1.42	7.71	6.08	1.65	2.81	0.35	34.71
Cowgill	.....	.....	2.25	2.89	5.14	.....	2.14	7.88	.....	.....	.....	.....	.....
Darksville	1.46	1.52	2.95	5.97	3.80	4.26	2.85	6.50	5.98	1.97	0.50	1.52	39.28
Dean	1.36	4.06	3.57	1.83	9.87	2.55	1.18	4.42	3.12	2.15	0.93	1.76	36.80
Desoto	1.43	2.65	3.71	2.29	4.19	2.91	3.70	4.48	2.09	2.20	1.38	1.17	32.20
Downing	0.45	1.27	1.27	5.13	8.08	3.05	2.18	7.98	5.46	2.58	1.24	0.48	39.17
Edgehill	2.08	4.33	2.68	2.62	6.42	3.04	3.23	2.99	2.78	5.98	1.56	2.05	39.71
Edwards	1.41	2.91	3.64	3.46	6.50	5.86	4.21	3.61	3.48	6.33	.....	.....	.....
Eightmile	1.09	1.60	4.17	4.10	7.92	3.88	2.67	6.94	3.98	5.82	1.33	1.63	45.13
Eldon	.....	.....	3.90	2.79	5.23	.....	.....	.....	.....	.....	.....	.....	.....
Fairport	0.20	1.33	1.65	3.96	9.11	1.40	1.39	5.42	7.61	1.11	1.08	0.94	34.60
Fayette	2.06	2.53	3.56	4.51	5.18	4.16	2.61	5.64	4.33	2.56	1.69	0.86	39.71
Fulton	1.88	3.26	3.18	4.60	5.01	2.83	4.45	5.28	4.70	2.67	0.59	1.24	39.64
Galena	1.20	4.31	4.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gallatin	0.50	1.91	2.37	3.54	10.36	2.18	6.13	8.10	8.32	1.40	1.35	1.40	47.56
Gano	.....	.....	.....	.....	.....	.....	.....	.....	2.77	4.45	0.73	1.68	.....
*Glasgow	1.62	2.70	2.91	3.64	3.65	2.69	2.32	6.18	5.47	2.53	1.11	0.95	34.86
*Gorin	0.58	1.45	2.37	4.37	5.94	3.03	1.23	4.97	4.66	2.92	2.34	0.45	35.12
Grant City	0.12	0.53	0.91	1.81	7.58	2.37	5.30	7.04	4.38	1.70	1.26	0.37	33.37
Halfway	1.77	4.45	5.05	2.24	8.34	5.60	3.16	4.95	3.48	3.50	0.21	1.86	44.61
*Hannibal	1.98	2.70	2.37	4.96	5.24	2.59	2.86	5.14	4.71	1.65	1.28	0.93	36.41
*Harrisonville	1.19	3.06	4.93	3.80	9.24	3.56	2.45	5.31	4.83	4.16	1.77	1.62	45.92
Hazelhurst	0.22	1.65	1.63	4.44	7.53	2.44	3.09	4.16	4.04	1.77	1.00	1.38	33.35
*Hermann	1.55	2.74	3.58	3.54	5.15	2.34	2.54	3.08	6.21	2.75	0.48	1.09	35.05
Houston	2.05	3.42	4.90	2.15	8.61	3.17	6.33	5.62	5.01	3.59	0.55	1.73	47.13
Huntsville	1.59	2.47	3.17	6.51	4.18	3.63	2.57	6.22	7.76	2.53	0.59	1.33	41.55
*Ironton	1.45	4.47	2.97	2.94	4.44	3.77	4.03	3.51	2.21	6.38	1.48	2.67	40.32
Jackson	2.43	5.01	6.24	3.18	4.70	2.34	2.31	4.72	2.41	3.31	2.69	3.10	42.44
*Jefferson City	1.69	3.09	4.49	3.05	5.27	2.25	2.26	5.06	2.65	2.31	0.56	0.83	33.51
Joplin	1.16	2.98	3.15	3.23	11.64	3.37	4.09	3.91	1.33	3.63	0.60	1.81	40.90
*Kansas City	0.50	1.89	1.92	2.78	7.67	2.35	3.10	6.40	6.12	3.86	1.61	1.02	39.22
*Kidder	0.28	1.29	1.99	2.80	8.64	2.17	2.31	5.67	4.87	1.24	1.45	1.39	34.10
Koshkonong	2.10	6.10	4.76	4.09	8.69	2.11	4.35	3.99	5.09	3.11	1.40	3.01	48.80
*Lamar	0.85	2.85	8.63	3.02	13.32	2.34	1.86	5.24	0.72	5.97	1.15	1.86	47.81
Lamonte	1.44	2.33	3.48	4.27	5.56	2.95	6.22	4.29	4.16	3.82	1.31	0.86	40.69
Lebanon	1.45	3.88	4.81	2.34	8.47	5.79	5.33	4.05	4.63	3.64	0.50	2.45	47.34
*Lexington	0.97	1.95	2.51	3.41	7.15	3.08	3.18	4.78	5.62	3.12	1.99	1.22	38.93
Liberty	0.45	1.10	1.89	1.76	8.47	3.07	3.37	5.11	4.92	3.07	1.28	1.52	36.01
Louisiana	1.97	3.91	3.91	3.83	3.34	3.61	2.47	4.02	5.99	1.73	1.09	0.95	36.82
Macon	1.46	2.17	2.10	5.47	4.86	4.07	3.25	5.17	5.14	2.04	0.46	1.43	37.62
Marblehill	1.48	4.89	4.93	3.58	4.46	3.12	2.74	1.17	2.29	3.38	1.77	2.59	36.40
Marshall	1.69	2.34	3.58	4.72	6.34	4.07	4.91	7.48	5.29	3.42	1.39	0.98	46.21
*Maryville	0.30	1.18	1.47	1.65	9.71	2.45	2.52	11.63	5.64	2.40	2.09	0.30	41.34
*Mexico	2.31	2.92	2.59	5.66	4.78	6.32	2.73	6.96	5.66	1.85	0.47	1.35	43.60
Miami	1.16	2.01	2.40	5.72	9.13	3.23	4.09	11.23	5.93	3.15	2.23	1.36	51.64
Mineralspring	2.35	4.15	3.75	1.55	10.50	1.90	1.55	3.90	1.70	1.68	1.15	2.90	37.08
Monroe City	2.13	2.60	2.56	7.94	4.74	2.60	2.43	5.44	5.26	1.96	0.62	0.79	39.06
Montreal	1.82	3.89	3.41	1.63	5.24	2.78	7.00	5.39	8.12	4.14	0.92	1.58	45.92
Mountaingrove	1.81	3.95	4.79	2.28	10.05	3.67	3.47	4.25	5.27	4.07	0.95	1.61	46.17
Mount Vernon	1.08	5.88	4.56	3.03	9.57	1.80	2.07	3.09	2.20	3.49	1.54	1.84	40.15
Neosho	1.60	3.37	3.45	2.17	8.88	2.18	3.17	5.35	2.12	3.36	1.03	2.19	38.87
Nevada	1.25	3.14	3.23	3.65	9.27	5.48	3.17	6.27	1.60	5.90	1.68	1.45	46.09
New Haven	2.10	4.22	3.37	2.28	6.36	2.71	2.48	2.88	4.37	2.18	0.67	1.97	35.59
*New Madrid	3.31	7.31	4.37	2.25	4.43	2.25	2.84	2.28	1.26	2.52	3.10	4.62	40.54
New Palestine	1.42	2.84	3.68	4.69	5.41	3.60	2.67	5.91	4.28	2.74	1.39	0.31	38.89
Oakfield	1.74	3.13	3.73	2.51	5.70	2.53	4.11	4.14	2.91	1.99	1.63	1.15	35.27
Olden	1.88	4.25	3.87	3.92	8.55	2.21	2.68	4.53	3.37	2.22	2.07	2.45	42.50
Oregon	0.23	1.61	1.34	1.90	12.72	3.94	4.11	7.71	4.56	2.60	1.21	0.39	42.31

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Missouri—Continued.													
Palmyra	1.97	2.54	1.72	4.73	.....	2.33	1.25	4.94	3.40	1.61	1.74	1.45	.....
Pinehill	0.53	4.62	4.04	2.79	4.19	2.48	3.25	2.37	2.57	3.88	1.23	2.51	34.41
Poplarbluff	2.20	4.33	6.36	2.59	5.01	.....	.....	1.50	.....	.....	.....	.....	.....
Princeton	0.27	1.27	2.33	2.53	9.57	4.23	2.97	6.45	5.56	1.11	1.27	0.96	38.52
Protem	1.51	5.05	4.26	2.08	9.05	3.11	2.67	2.33	2.51	1.88	[d] 1.29	2.87	38.61
Richmond	0.65	1.80	1.58	2.90	6.55	.....	3.00	4.00	5.45	1.64	0.99	1.70	.....
Rockport	0.06	1.49	1.29	2.12	14.01	1.69	4.34	9.95	3.42	1.89	1.50	0.13	41.89
Rolla	1.82	3.08	4.92	3.11	7.27	4.24	0.78	5.75	7.67	2.84	0.41	1.62	43.51
St. Charles	1.94	2.87	3.13	2.87	3.73	4.95	2.67	6.24	3.81	1.65	0.60	1.41	35.87
*St. Louis	1.76	3.14	3.20	2.79	2.08	5.71	2.68	6.16	3.06	1.37	0.61	1.25	33.81
*St. Joseph	0.24	1.10	1.20	1.32	7.94	3.28	1.40	8.10	6.46	2.00	1.30	1.24	35.58
Sarcoxie	0.97	3.29	4.52	2.69	11.69	2.36	2.91	2.82	1.57	4.76	0.80	2.28	40.66
Sedalia	1.37	2.93	4.25	6.13	4.80	3.74	5.03	7.01	5.76	3.68	1.65	1.06	47.36
Seymour	1.49	3.85	4.42	2.91	9.78	8.30	3.95	3.74	2.79	4.17	1.33	1.42	48.15
Shelbina	1.15	2.10	2.48	6.67	7.82	2.92	3.88	6.08	4.37	1.50	0.20	0.70	39.87
Sikeston	2.45	6.72	5.18	2.89	4.29	3.80	4.58	1.45	1.25	3.33	2.47	3.57	41.98
*Springfield	1.32	3.35	2.82	2.85	9.96	3.99	2.96	4.49	4.68	4.57	0.78	1.75	43.52
Steffenville	1.39	2.00	2.50	5.22	7.48	2.82	2.28	3.02	3.61	2.80	1.38	1.31	35.81
Sublett	1.65	1.42	3.80	4.60	6.35	4.87	2.47	7.35	6.85	3.05	1.70	1.45	45.56
Trenton	0.36	1.44	2.04	3.75	10.24	2.68	2.20	4.29	4.85	1.42	0.97	1.26	35.50
*Unionville	0.48	2.16	1.86	3.57	8.78	3.85	3.03	11.52	8.41	1.98	2.62	1.46	49.72
Vichy	2.26	3.17	4.98	2.21	6.21	4.59	.....	4.35	5.41	2.45	0.73	.....	.....
Warrensburg	1.68	2.51	4.55	4.49	8.75	3.72	6.78	7.19	2.81	3.41	0.99	1.15	48.03
*Warrenton	1.70	3.27	3.92	2.85	5.07	3.12	2.19	3.19	6.14	2.55	0.60	1.51	36.11
Wheatland	1.77	2.98	4.09	2.60	7.00	3.68	3.92	5.08	3.26	.....	0.43	1.40	.....
Willowsprings	1.80	4.55	3.55	2.74	11.80	3.13	8.56	2.86	6.10	1.38	1.13	2.63	50.23
Windsor	1.04	2.62	4.71	6.51	4.85	3.18	4.64	3.91	.....	.....	.....	.....	.....
Zeltonia	1.36	4.41	4.04	3.24	4.29	2.79	2.51	2.09	2.68	3.99	1.46	2.75	35.61
Montana.													
Adel	0.70	1.20	2.01	2.62	1.85	.....	3.32	1.01	1.27	0.50	1.30	1.00	.....
Anaconda	0.85	0.06	0.95	0.25	.....	.....	.....	0.57	1.37	.....	.....	.....	.....
Augusta	0.19	0.18	1.00	1.71	2.48	1.36	3.54	1.51	0.75	0.27	1.71	0.69	15.39
Billings	.....	.....	0.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boulder	0.45	0.37	0.98	0.83	1.70	0.85	1.91	0.30	0.91	0.39	0.45	0.34	9.48
Bozeman	0.78	0.33	0.67	3.42	2.58	2.45	2.76	0.50	1.11	0.64	1.62	0.78	17.64
Butte	0.42	0.05	1.30	1.30	1.20	0.80	0.65	0.60	0.50	0.70	1.90	0.85	10.27
Canyon Ferry	0.57	0.52	0.78	0.53	0.93	1.28	4.41	0.64	0.43	0.39	1.04	0.46	11.98
Chester	.....	.....	.....	.....	0.44	.....	.....	.....	.....	.....	.....	.....	.....
Chinook	.....	.....	0.48	0.67	3.40	.....	2.78	2.03	0.54	0.28	.....	0.05	.....
Columbia Falls	1.75	0.62	0.27	0.97	3.99	1.53	2.83	1.57	1.56	0.75	2.21	1.60	19.65
Crow Agency	0.50	1.29	0.80	1.15	1.50	2.05	3.11	0.90	1.80	0.40	0.95	1.30	15.66
Culbertson	0.23	0.17	0.05	0.13	4.04	2.46	2.74	3.49	1.21	0.12	0.12	0.43	15.19
Dayton	.....	.....	0.56	1.67	1.21	2.50	2.66	0.43	.....	.....	2.48	0.83	.....
Deerlodge	0.05	0.05	0.10	.....	.....	.....	.....	.....	.....	.....	1.64	0.11	.....
Dillon	0.82	0.07	1.23	5.36	2.12	1.64	2.49	1.16	1.45	0.23	1.52	1.01	19.10
Ekalaka	0.40	0.60	.....	.....	.....	.....	.....	.....	.....	0.20	.....	.....	.....
*Fort Benton	0.10	0.70	0.80	0.65	3.23	1.43	3.70	0.91	0.65	0.28	0.40	0.30	13.15
Fort Logan	0.12	T.	0.51	1.34	.....	.....	.....	2.05	.....	.....	.....	.....	.....
Glasgow	0.17	0.07	0.18	0.12	5.35	.....	1.37	1.02	0.14	0.09	0.44	0.07	.....
*Glendive	1.32	0.40	0.40	0.44	1.29	1.30	3.55	2.27	1.40	T.	T.	0.75	13.12
Greatfalls	0.08	0.35	0.89	2.00	1.84	2.19	2.74	0.74	0.99	0.45	0.83	0.91	14.01
Hamilton	1.08	0.06	0.45	0.67	0.70	1.41	0.87	0.72	0.96	1.00	0.63	0.22	8.77
*Havre	0.33	0.21	0.52	0.95	3.47	1.51	5.23	2.52	0.48	0.21	0.50	0.10	16.03
Hayden	.....	.....	.....	.....	0.35	2.54	3.25	0.68	2.56	.....	.....	.....	.....
*Helena	0.69	0.09	0.92	1.57	1.64	1.09	1.90	0.83	0.90	0.28	1.09	0.36	11.36
*Kalispell	0.91	0.48	0.53	0.95	1.07	1.61	1.70	0.78	1.49	1.11	3.13	0.87	14.63
Kipp	0.30	0.50	1.17	[f] 0.20	.....	.....	2.45	1.91	0.48	0.43	0.70	0.07	.....
Lamedeer	.....	0.80	0.70	1.70	0.76	1.81	2.79	2.20	0.98	.....	0.35	2.00	.....
Lewistown	0.47	1.30	0.55	2.90	4.70	1.75	5.60	0.75	2.42	0.25	0.70	0.70	22.09
Livingston	0.25	0.01	0.01	0.10	2.25	3.24	.....	.....	1.75	0.42	1.44	0.58	.....
Manhattan	.....	.....	0.45	2.71	0.86	1.67	2.78	.....	.....	.....	.....	.....	.....
Marysville	3.04	.....	.....	1.38	2.72	.....	2.75	0.73	1.94	1.47	8.18	.....	.....
*Miles City	0.19	0.51	0.28	0.56	1.07	0.94	2.70	1.43	1.58	0.32	0.26	0.14	9.98
Missoula	0.90	0.29	1.28	0.65	1.50	2.24	.....	.....	.....	1.19	1.34	0.87	.....
Ovando	.....	0.30	1.11	0.75	0.80	2.52	1.87	0.93	2.33	1.35	1.49	1.05	.....
Parrot	0.37	.....	0.62	3.91	0.90	2.21	1.34	0.08	0.84	0.06	.....	.....	.....
Philipsburg	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.65	2.68	0.69	.....
Plains	0.35	0.10	0.50	1.30	0.80	2.12	1.42	1.68	1.77	1.17	2.64	0.30	14.15
Poplar	T.	0.20	.....	0.31	2.65	2.33	2.62	3.58	0.64	0.20	0.25	0.35	.....
Redlodge	0.44	1.61	0.43	2.96	2.04	2.06	1.81	0.60	2.41	0.71	0.87	0.81	16.75
Ridgelawn	.....	0.80	0.22	0.42	4.64	1.82	3.88	3.62	.....	.....	0.15	1.65	.....
St. Pauls	0.50	0.33	0.18	1.07	4.08	1.86	5.18	2.77	0.81	0.15	0.45	0.17	17.50
St. Peter	0.50	0.93	1.00	1.84	4.05	2.31	5.89	1.36	2.52	0.37	0.92	0.62	22.31
Springbrook	1.23	0.78	0.75	1.79	1.93	2.09	2.91	2.56	1.29	0.32	0.73	1.16	17.54
Summit	8.50	1.00	6.85	3.14	4.77	.....	.....	.....	.....	.....	.....	.....	.....
Toston	0.11	0.02	0.56	0.10	.....	1.99	1.24	0.63	0.90	T.	2.66	0.25	.....
*Townsend	.....	.....	.....	0.70	0.65	0.90	1.52	0.83	0.40	0.26	.....	.....	.....
Troy	4.50	1.09	3.49	1.02	.....	.....	1.61	0.85	1.78	1.15	4.86	1.87	.....
Twin Bridges	.....	T.	.....	2.30	0.40	.....	.....	.....	.....	0.00	0.90	0.30	.....
Twodot	0.70	0.10	1.50	2.90	1.80	2.19	1.36	0.72	1.80	.....	.....	.....	.....
Utica	0.50	0.24	1.11	2.29	1.82	2.81	2.57	0.81	2.42	0.05	0.44	0.65	15.71
Wibaux	.....	.....	.....	T.	8.83	.....	.....	.....	.....	.....	.....	1.18	.....
Winston	0.68	0.62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wolf Creek	.....	.....	1.76	1.82	2.86	1.91	2.99	0.55	2.55	1.02	1.08	0.41	.....
Wolsey	.....	.....	.....	.....	.....	1.12	4.35	0.70	2.10	0.64	1.39	1.41	.....
Yale	0.65	1.06	2.23	.....	1.31	1.07	2.16	0.24	1.24	0.07	1.90	1.30	.....
Nebraska.													
Agate	0.24	1.68	0.37	1.12	3.07	1.97	1.93	1.11	1.00	0.68	0.18	0.12	13.47
Agee	0.15	0.95	0.50	1.31	7.38	1.63	4.82	2.65	1.13	1.30	0.77	0.40	22.99
Albion	0.00	1.20	1.61	2.44	6.91	2.29	5.61	7.42	0.47	1.99	0.97	0.00	30.82

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska—Continued.													
Alliance	0.05	0.10	T.	0.82	2.60	1.40	4.45	3.35	1.21	0.10	0.05	0.25	14.38
Alma	0.43	2.46	0.79	2.37	9.90	2.03	5.52	4.98	0.78	1.83	.....	0.00	.....
Ames	0.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ansley	0.62	1.65	0.41	1.20	9.64	2.90	6.45	6.61	0.60	0.83	0.60	T.	31.51
Arapahoe	0.20	2.40	0.70	1.68	8.46	2.40	4.76	4.50	1.10	0.30	0.80	0.00	27.30
Arcadia	0.40	1.20	.....	0.92	6.42	2.52	8.05	4.85	0.50	0.90	0.75	0.00	.....
*Ashland [1]	T.	1.16	0.50	3.88	10.67	2.30	5.92	5.77	2.84	1.75	0.50	T.	35.29
Ashland [2]	.....	.....	0.62	3.88	12.31	2.65	7.27	.....	.....	2.34	0.44	T.	.....
Ashton	0.24	1.21	1.32	1.93	7.61	2.06	8.18	4.41	0.43	1.11	1.07	T.	29.57
Auburn	0.08	1.24	0.97	2.32	13.26	1.88	1.01	9.07	4.10	1.59	1.35	0.20	37.07
Aurora	0.10	.....	1.11	2.29	12.03	3.10	4.90	7.54	0.69	1.80	1.30	0.00	.....
Bartley	0.25	1.90	0.68	0.80	6.60	1.31	4.99	1.58	1.35	0.78	0.41	0.14	20.74
Beatrice	0.10	1.16	0.97	3.50	12.11	2.84	1.79	6.25	5.17	3.32	1.67	0.05	38.93
Beaver	0.25	1.85	0.93	2.16	11.05	1.85	6.29	3.39	0.24	0.90	0.71	0.01	29.63
Bellevue	0.31	1.29	0.72	2.81	15.78	3.13	4.17	6.34	2.76	1.89	0.47	0.39	40.06
Benedict	T.	1.45	1.91	2.92	13.01	1.45	9.21	5.49	2.40	2.35	1.20	.....	.....
Benkelman	0.50	2.95	0.08	0.85	4.97	2.84	1.96	2.28	1.10	0.24	0.61	0.10	17.98
Blair	0.05	0.74	0.74	2.57	9.54	3.20	6.27	11.52	3.82	1.34	1.52	0.12	41.43
Bluehill	b0.10	1.35	0.20	1.70	10.51	4.13	5.73	5.79	0.45	2.49	0.90	0.05	33.40
Bradshaw	0.12	1.70	1.27	2.62	17.22	2.64	5.77	9.57	1.34	3.02	2.49	0.22	47.98
Bridgeport	0.30	0.77	0.47	0.55	1.76	1.00	1.93	3.15	1.23	0.80	0.11	T.	12.07
Broken Bow	0.24	1.15	0.65	0.81	5.40	2.32	6.27	6.16	0.50	0.98	0.40	T.	24.58
Burchard	T.	1.10	0.80	2.08	11.06	3.92	1.55	10.64	5.07	1.85	2.04	0.10	40.21
Burwell	0.20	1.70	0.15	2.17	7.07	0.96	7.36	5.18	0.08	1.54	0.20	0.20	26.81
Callaway	0.45	1.53	0.10	2.05	5.45	2.25	7.70	4.28	0.30	1.10	0.55	T.	25.76
Cedar Rapids	0.06	0.93	1.43	2.99	6.14	1.10	8.27	4.67	0.54	.....	.....	.....	.....
Central City	T.	1.55	1.72	1.55	13.57	3.04	8.88	4.81	1.04	1.10	0.72	0.30	38.28
Chester	0.35	1.30	0.10	2.90	15.00	4.82	5.10	3.22	1.35	2.58	1.97	0.10	38.79
Cody	0.30	0.65	0.37	.....	1.74	1.02	4.14	4.74	0.66	.....	.....	.....	.....
*Columbus	T.	1.33	1.58	2.98	9.46	0.84	6.28	8.33	2.65	0.99	0.90	0.06	35.40
Crete	0.37	1.23	0.55	2.91	10.91	2.43	2.45	6.47	1.32	3.64	1.10	0.08	33.46
Culbertson	0.30	1.70	0.58	0.90	6.73	1.75	4.05	2.69	0.77	0.12	0.77	0.09	20.45
Curtis	0.30	2.60	0.60	1.10	4.78	4.04	6.28	.....	.....	.....	0.40	0.10	.....
David City	.....	.....	0.65	3.17	13.09	1.77	5.82	6.90	2.33	2.17	1.52	0.02	.....
Dawson	0.07	1.22	1.12	2.41	11.61	3.01	2.09	8.73	4.82	2.81	1.89	0.05	39.33
Edgar	0.22	1.25	0.48	2.00	13.90	1.70	5.75	5.46	0.74	1.60	2.74	T.	35.84
Ericson	0.30	1.70	0.25	2.40	4.25	1.60	8.00	6.60	T.	2.10	0.85	0.10	28.15
Ewing	0.25	1.02	0.74	2.50	4.76	2.32	7.08	5.80	0.48	1.45	0.85	T.	27.25
*Fairbury	0.20	1.17	0.74	3.17	13.27	1.64	4.38	2.95	1.87	3.36	1.38	T.	34.13
*Fairmont	0.15	1.37	0.84	1.89	12.37	2.98	2.00	6.45	1.09	2.38	0.90	T.	31.92
Fort Robinson	0.60	0.60	1.75	1.21	2.29	0.71	4.70	2.53	1.17	0.85	0.10	0.38	16.89
Franklin	0.20	1.50	.....	[2]2.57	9.98	1.25	3.59	5.17	0.20	2.13	1.13	0.00	.....
Fremont	T.	0.97	0.73	2.64	10.94	3.15	4.87	11.08	2.89	2.08	1.46	0.17	40.98
Fullerton	0.05	2.80	.....	.....	.....	.....	.....	.....	1.91	0.93	1.10	T.	.....
Geneva	0.80	1.12	0.38	2.76	13.78	3.15	3.75	3.69	1.17	2.84	1.16	0.10	34.20
Genoa	T.	1.03	2.17	2.66	7.51	1.32	9.90	7.12	1.43	0.66	1.34	T.	35.14
Gering	0.30	0.89	0.48	1.42	1.71	1.95	1.48	.....	.....	.....	.....	0.05	.....
Gordon	0.80	0.65	0.25	1.30	3.40	1.40	2.30	.....	0.70	0.10	.....	0.30	.....
Gosper	0.30	1.40	0.44	0.94	6.86	3.00	7.31	4.31	.....	.....	.....	.....	.....
Gothenburg	0.40	2.20	0.44	0.92	3.93	3.38	6.59	5.09	0.33	0.55	0.60	0.00	24.43
Grand Island [2]	.....	.....	.....	.....	12.47	3.78	9.89	5.70	.....	.....	.....	.....	.....
Grand Island [3]	0.20	2.09	1.39	1.86	12.27	3.11	9.31	6.25	1.27	1.79	1.29	0.01	40.84
Greeley	0.10	1.10	0.55	1.75	6.45	1.20	6.70	5.00	0.80	1.15	0.55	T.	25.35
Guiderock	0.30	1.65	1.12	1.69	13.75	1.86	6.89	3.86	0.47	2.50	1.23	T.	35.32
Haigler	0.20	.....	.....	.....	2.98	1.76	.....	.....	0.82	0.32	.....	0 10	.....
Halsey	.....	1.04	0.24	1.68	5.19	1.25	5.24	1.74	0.30	0.31	0.44	0.05	.....
*Hartington	0.00	1.20	1.03	1.90	8.14	3.68	4.25	6.17	0.97	.....	.....	.....	.....
Harvard	0.20	2.30	1.31	1.98	9.72	1.86	7.80	4.32	0.83	2.62	0.92	T.	33.36
Hastings	0.20	2.50	0.45	1.45	10.92	3.35	5.06	9.86	0.60	1.31	1.12	T.	36.82
Hayes Center	0.28	3.83	T.	1.42	5.48	0.94	4.15	2.74	0.64	0.80	0.44	0.10	20.82
Hay Springs	0.48	1.20	0.92	2.19	3.91	2.16	8.92	2.22	[1]1.92	0.98	0.21	T.	25.11
Hebron	0.16	1.34	0.58	2.78	14.01	2.29	2.87	8.39	1.81	2.75	1.35	T.	37.78
Hickman	0.20	0.65	0.65	3.62	11.94	3.50	3.55	7.75	2.90	3.05	1.60	0.20	39.66
Holbrook	0.40	2.74	0.81	1.24	6.31	2.03	8.71	2.45	0.78	0.32	0.30	T.	26.09
Holdrege	0.20	2.30	0.25	1.83	12.36	2.48	7.15	4.90	0.40	2.10	0.20	T.	34.17
Hooper	T.	0.78	1.08	2.96	14.09	3.35	5.39	9.20	3.32	1.66	1.09	0.10	42.42
Imperial	0.22	2.75	0.30	0.70	3.17	1.33	4.87	2.67	0.02	0.30	0.59	T.	16.92
Johnstown	0.35	0.90	0.10	1.57	2.65	0.88	4.72	4.53	2.00	0.58	0.55	0.32	19.15
Kearney	0.22	2.25	1.21	1.78	8.64	4.63	8.40	7.19	0.52	1.04	0.58	0.02	36.48
Kennedy	0.70	2.72	0.30	1.65	4.48	2.35	5.38	2.29	1.30	0.48	T.	0.40	22.05
Kimball	0.15	1.00	0.50	1.25	1.56	1.38	3.66	2.69	1.05	0.25	0.15	T.	13.64
Kirkwood	0.18	1.00	0.67	2.04	6.66	2.44	9.15	3.66	1.49	1.17	0.35	0.12	28.93
Laclede	T.	2.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Leavitt	.....	.....	0.90	2.12	15.51	1.91	6.57	10.34	2.41	2.72	1.36	0.03	.....
Lexington	0.35	1.55	0.83	1.15	5.80	3.18	9.24	5.42	0.81	0.88	0.72	0.00	29.93
*Lincoln	0.25	1.39	0.47	3.59	10.72	2.60	3.07	6.45	1.34	2.90	1.81	0.07	34.66
Lockridge	.....	.....	1.36	2.50	13.55	2.26	4.56	6.28	1.19	2.57	1.47	0.02	.....
Lodgepole	T.	1.80	0.52	0.90	T.	0.84	2.90	2.80	0.55	T.	T.	0.08	10.46
Loup	0.20	0.70	1.67	1.18	9.79	2.13	9.24	6.06	1.20	1.98	1.21	0.00	35.36
Lynch	0.13	1.84	0.70	1.20	7.25	3.11	7.31	3.67	1.96	1.27	1.04	0.30	29.78
Lyons	0.02	1.07	1.25	2.27	10.67	3.19	5.55	8.57	6.02	2.08	1.61	.....	.....
McCook	0.10	2.32	0.25	0.90	6.87	.....	6.39	2.01	0.65	0.25	1.40	T.	.....
McCool Junction	0.05	1.21	0.87	2.72	12.93	1.56	5.00	5.05	1.06	3.15	1.43	0.00	35.03
Madison	T.	0.85	2.00	3.00	8.87	1.86	4.41	8.64	1.53	2.24	1.45	0.20	35.05
Madrid	0.20	2.10	0.10	.....	3.82	1.47	4.06	2.03	0.00	.....	0.36	0.30	.....
Marquette	0.15	1.45	1.18	1.63	10.65	2.14	6.44	7.39	1.60	1.74	1.00	T.	35.37
Mason City	0.40	0.60	0.45	1.40	5.40	2.31	5.94	4.17	0.80	1.20	0.95	0.10	24.22
Minden	0.33	2.61	1.17	1.83	9.57	2.67	8.26	8.16	0.73	1.77	0.91	0.01	38.02
Monroe	.....	1.07	1.33	3.56	8.15	1.54	8.22	7.38	1.54	1.33	0.95	T.	.....
Nebraska City	T.	1.60	0.79	2.90	11.03	1.62	1.49	6.36	2.70	3.00	1.30	0.15	32.34

[1] Corn and wheat region observer. [2] Agent B. and M. Railroad. [3] E. Corbin.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska—Continued.													
Nemaha	T.	.....	0.61	1.84	12.22	3.45	2.95	8.65	3.60	2.17	2.19	T.	.....
Norfolk	0.14	1.36	1.65	3.52	6.81	3.02	6.35	7.10	0.96	2.42	1.09	0.16	34.58
*North Loup	0.30	1.40	1.10	1.95	6.22	2.38	6.46	5.06	0.71	1.17	0.85	T.	27.60
*North Platte	0.27	1.29	0.12	0.95	3.74	3.99	2.93	3.58	0.76	0.44	0.28	0.01	18.36
*Oakdale	0.06	0.82	1.50	2.24	9.58	4.30	8.12	5.01	1.57	2.08	0.66	0.13	36.07
Odell	0.20	1.60	0.92	2.65	16.49	5.68	.....	8.57	3.25	2.07	1.96	0.10	.....
*Omaha	0.07	1.12	0.58	2.01	8.32	1.31	2.67	12.50	2.50	1.19	1.01	0.15	33.43
*O'Neill	0.35	1.30	0.59	1.30	5.26	1.33	5.04	4.44	0.90	0.90	1.52	.....	.....
Ord	0.22	1.21	0.26	1.84	5.52	2.14	8.19	4.21	0.06	1.57	0.35	0.00	25.57
Osceola	0.01	2.30	1.45	2.97	12.34	1.98	9.55	7.27	1.62	1.40	.....	.....	.....
Palmer	0.20	1.30	0.66	2.25	8.85	1.95	7.53	11.55	1.46	0.80	0.85	0.20	37.60
Palmyra	T.	0.99	0.67	4.05	10.05	3.75	3.62	7.10	2.22	2.65	1.00	0.10	36.11
Pawnee City	0.17	1.20	1.30	2.46	12.29	2.44	2.14	8.15	4.60	2.60	1.84	0.22	39.41
*Plattsmouth [1]	.....	.....	0.84	2.04	13.33	1.69	3.97	.....	.....	.....	.....	.....	.....
Plattsmouth [2]	T.	0.95	0.64	1.84	13.66	1.54	3.35	6.74	2.16	1.39	0.50	0.34	33.11
Purdum	0.36	0.99	0.09	2.23	4.67	1.22	6.52	1.86	0.77	0.21	0.80	0.05	19.77
Ravenna [3]	0.37	2.55	1.50	1.45	6.73	3.94	9.58	7.62	0.51	1.87	0.74	0.03	36.89
Ravenna [2]	0.40	.....	.....	1.62	8.26	3.19	8.91	.....	.....	1.45	0.91	.....	.....
Redcloud	0.30	1.32	0.33	1.85	10.85	2.16	2.80	6.76	0.28	2.67	1.18	T.	30.50
Republican	0.25	2.00	.....	.....	.....	1.94	6.00	4.51	0.62	1.20	0.80	T.	.....
Rulo	0.02	0.97	0.69	1.53	13.45	4.67	1.45	6.90	7.66	1.50	1.78	0.20	40.82
St. Libory	0.20	2.50	.....	2.06	9.71	2.33	8.13	7.81	1.36	1.38	1.37	T.	.....
St. Paul	0.11	1.32	1.70	2.16	7.44	3.06	6.85	10.04	0.52	0.79	1.01	0.06	35.06
Salem	0.10	1.20	0.75	1.20	14.95	2.40	.....	7.45	4.28	1.75	1.27	0.20	.....
Santee	0.12	1.74	1.10	1.26	9.70	2.80	5.26	4.52	1.26	1.68	0.89	0.19	30.52
Schuyler	0.00	1.00	0.75	3.32	11.47	1.03	4.17	7.48	2.17	1.95	0.92	0.25	34.51
Seneca	.....	[5]1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seward	0.02	1.20	1.17	3.86	13.60	3.07	7.23	3.61	1.59	3.02	1.60	0.14	40.11
Smithfield	0.30	1.60	0.50	1.68	7.15	3.74	8.21	6.34	0.62	1.03	0.56	0.00	31.73
Spragg	.....	2.30	0.04	1.91	5.84	0.89	6.10	2.07	0.64	0.63	0.65	0.16	.....
Springview	0.20	1.50	0.44	1.55	3.68	1.68	6.33	4.02	2.93	0.52	0.05	0.05	22.95
Stanton	T.	0.82	1.87	2.78	6.84	2.27	5.46	8.20	1.66	2.55	1.34	0.17	39.96
Strang	0.15	1.10	0.93	2.48	16.18	2.17	5.71	8.75	1.23	3.27	1.72	T.	38.69
Stratton	0.28	2.90	0.45	0.80	6.00	1.16	2.26	2.96	0.76	0.25	0.91	0.01	18.74
Stromsburg	.....	.....	.....	.....	.....	.....	9.97	5.09	1.50	2.18	0.41	0.00	.....
Superior	0.20	1.40	0.20	1.70	13.11	2.25	7.56	2.17	0.60	3.87	1.49	T.	34.55
Syracuse	0.10	1.35	1.00	1.90	12.95	2.67	2.12	6.84	2.14	1.76	1.34	0.20	34.37
Tablerock	0.02	1.29	1.33	3.10	10.53	3.45	1.80	7.76	4.51	2.63	1.69	0.12	38.23
*Tecumseh [4]	.....	1.14	1.80	3.17	11.09	2.22	.....	.....	.....	.....	.....	.....	.....
Tecumseh [2]	0.11	1.07	1.12	3.13	11.10	2.95	1.30	8.36	4.43	2.07	1.62	0.06	37.82
*Tekamah	0.03	0.93	1.08	3.57	10.97	3.24	7.31	12.12	3.83	1.48	1.83	0.27	46.61
Turlington	0.19	1.29	0.76	2.44	12.00	1.97	1.83	5.69	2.60	1.67	1.81	0.15	32.40
University Farm	0.13	1.41	0.57	3.41	11.13	2.49	2.48	5.98	1.39	2.96	1.80	0.10	33.85
*Valentine	0.22	0.73	0.28	1.81	2.41	1.43	3.95	4.21	1.70	0.22	0.04	0.15	17.15
Wahoo	.....	.....	.....	.....	7.83	2.46	5.03	6.36	1.56	2.73	1.30	0.11	.....
Wakefield	0.01	1.65	2.04	2.56	9.61	3.19	3.02	6.37	1.58	3.93	0.76	0.21	34.93
Wallace	0.20	1.10	T.	0.30	3.69	1.30	3.76	3.24	0.30	0.30	0.40	0.00	14.59
Wauneta	.....	.....	.....	0.39	4.93	0.70	2.74	2.26	0.67	0.41	0.40	0.00	.....
Weeping Water	0.28	1.20	0.75	2.01	9.17	3.19	3.12	5.61	3.01	1.86	1.73	0.23	32.16
Westpoint	T.	1.31	1.01	1.68	10.08	2.28	4.48	11.47	3.81	2.09	1.03	0.18	39.42
Wilber	0.20	0.70	0.75	4.17	11.25	1.32	2.58	9.69	1.84	2.21	1.00	0.00	36.71
Willard	.....	.....	.....	0.65	2.63	3.61	1.94	2.90	.....	.....	.....	.....	.....
Wilsonville	0.20	2.10	0.32	2.15	11.60	1.45	2.15	2.78	0.68	0.35	0.60	T.	24.88
Winnebago	T.	1.00	0.99	1.96	10.90	4.12	4.66	6.64	4.55	2.20	0.72	0.25	37.99
Wisner	0.00	1.50	2.12	2.04	9.81	2.44	5.90	7.15	3.96	2.72	2.62	0.33	40.59
Wymore	0.02	1.20	0.70	2.83	14.29	4.19	4.90	7.14	3.95	3.28	1.43	T.	43.93
York	0.00	.....	0.65	2.70	16.40	1.61	7.24	3.32	.....	2.82	1.10	0.00	.....
Nevada.													
Amos	.....	0.10	.....	0.33	.....	.....	.....	.....	.....	.....	.....	.....	.....
Austin	1.80	0.49	2.40	1.91	1.57	0.60	0.00	0.30	T.	0.00	0.04	0.13	9.24
Battle Mountain	1.35	0.20	0.92	0.30	0.40	0.34	0.00	0.00	0.00	0.60	0.90	1.10	6.11
Belmont	0.76	0.02	1.15	0.26	0.78	0.80	0.00	0.00	0.51	0.04	0.00	T.	4.32
Beowawe	1.37	T.	2.36	0.00	0.55	0.43	0.00	0.00	0.00	.....	1.05	0.20	.....
Caliente	.....	.....	.....	0.10	0.55	0.00	0.01	0.00	.....	.....	.....	.....	.....
Candelaria	0.61	1.20	0.23	0.12	0.66	0.39	0.00	0.02	0.02	0.11	0.00	T.	3.36
Carlin	1.55	1.30	.....	.....	0.00	.....	0.00	0.00	.....	0.00	0.00	.....	.....
*Carson City	2.17	1.04	1.56	0.50	0.04	T.	0.00	T.	T.	0.03	0.81	0.08	6.23
Carson City [5]	2.86	0.69	2.07	0.19	0.14	0.02	0.00	T.	T.	0.05	1.42	0.11	7.55
Cranes Ranch	1.91	0.34	.....	0.82	0.99	0.75	0.00	0.14	0.12	0.68	1.49	0.25	.....
Elko (near)	.....	0.12	2.80	0.50	1.20	1.60	0.00	T.	0.15	0.05	2.05	0.35	.....
Ely	0.75	0.40	0.10	1.16	2.18	0.18	T.	0.18	1.10	0.55	0.36	.....	.....
Eureka	1.00	1.20	3.50	1.10	1.10	0.10	0.00	T.	T.	T.	T.	0.20	8.20
Fallow	.....	.....	.....	.....	.....	0.30	0.00	0.00	0.00	0.56	0.80	.....	.....
Fenelon	.....	1.35	1.00	.....	0.70	1.50	0.30	0.05	T.	.....	.....	.....	.....
Golconda	1.70	0.60	0.30	0.22	0.00	0.30	0.00	T.	T.	0.50	1.10	T.	4.72
Halleck	1.95	0.50	.....	.....	.....	.....	T.	T.	0.50	T.	.....	0.00	.....
Hamilton	.....	1.00	2.73	.....	2.92	0.78	.....	.....	.....	.....	.....	.....	.....
Hawthorne	1.10	0.35	T.	0.10	0.00	0.00	0.00	0.00	0.00	0.20	T.	T.	1.75
Humboldt	1.72	0.01	0.10	0.13	0.20	1.85	0.00	T.	0.00	0.50	0.30	0.15	4.46
Lee	4.07	0.82	2.14	.....	2.79	0.54	0.01	0.30	0.07	0.03	1.80	0.68	.....
Lewers Ranch	7.40	1.63	4.67	1.08	0.25	T.	0.00	0.09	0.10	0.48	7.26	0.31	23.27
Lovelocks	0.50	0.05	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33
McAfees Ranch	.....	0.11	0.50	0.01	0.30	0.30	0.00	0.00	T.	0.00	0.00	0.00	.....
Martins	2.23	0.92	1.47	0.53	T.	0.00	0.00	0.00	T.	T.	0.98	.....	.....
Mill City	.....	.....	.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	.....
Monitor Mill	.....	0.15	0.80	1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Morey	1.69	0.69	3.00	.....	1.47	0.65	T.	0.05	1.60	1.60	T.	T.	.....
Palisade	1.69	0.10	0.91	0.00	0.87	0.92	0.00	0.18	0.08	0.00	0.77	0.00	5.52

[1] River observer.
[2] Agent B. and M. Railroad.
[3] Erastus Smith.
[4] Corn and wheat region observer.
[5] Prof. C. W. Friend.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nevada—Continued.													
Palmetto	1.00	1.00	2.88	1.38	1.20	1.54	0.00	0.18	T.	0.58	0.00	0.00	9.76
Potts	0.84	0.38	0.92	0.90	1.30	0.55	0.00	0.20	0.25	0.10	T.	0.08	5.52
Reno State University	3.00	1.00	0.53	1.04	0.14	0.22	0.00	0.01	T.	0.15	0.31	0.15	6.55
Rioville	0.11	0.24	0.38	0.05	T.	0.07	0.16	0.58	0.79	1.30	.....	.....	.....
Silverpeak	.....	0.30	.....	.....	T.	0.16	0.00	0.00	0.00	0.34	.....	.....	.....
Sodaville	0.76	T.	0.10	T.	0.49	0.47	0.00	0.05	0.21	0.08	0.00	0.00	2.16
Tecoma	0.77	0.33	0.54	T.	1.75	T.	0.00	0.00	0.00	0.00	0.98	0.05	4.42
Toano	2.68	0.90	0.50	0.20	0.89	.....	0.00	0.31	0.12	0.34	0.00	0.10	.....
Wabuska	.....	0.02	1.01	0.05	0.20	0.09	0.00	T.	0.00	0.25	[a]0.15	0.00	.....
Wadsworth	1.43	0.22	1.22	0.00	0.07	0.00	0.00	0.00	0.10	0.00	T.	T.	3.04
Wells	2.00	1.60	.....	0.00	T.	.....	0.00	0.00	0.05	0.30	.....	0.80	.....
*Winnemucca	1.78	0.39	0.98	0.59	0.15	0.74	T.	0.05	0.06	0.47	1.24	0.08	6.53
Wood	3.77	0.81	1.70	1.02	1.07	0.33	0.04	0.11	0.47	0.28	4.82	0.46	14.88
New Hampshire.													
Alstead	3.13	4.02	6.13	2.27	1.33	7.37	2.76	6.29	1.38	2.45	1.84	3.85	42.82
Bartlett	.....	.....	.....	.....	.....	.....	.....	.....	1.43	3.26	1.20	5.09	.....
Berlin Mills	2.41	3.06	3.59	1.34	0.19	6.91	3.44	4.26	0.80	2.07	0.77	2.20	31.04
Bethlehem	2.73	3.23	5.41	1.36	0.29	3.64	4.26	2.11	0.80	2.83	1.30	1.78	29.74
Bretton Woods	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.77	1.16	3.84	.....
Brookline	1.90	4.00	5.88	3.58	1.28	10.25	3.71	2.99	2.15	3.82	1.87	3.08	44.51
Chatham	2.85	4.45	2.95	1.30	0.55	12.47	4.25	3.95	1.70	4.95	1.10	4.75	45.27
*Concord	3.61	3.75	5.00	1.62	0.57	7.75	6.00	3.38	1.24	3.27	1.40	3.21	40.80
Concord[1]	3.44	4.00	5.15	1.65	0.55	8.57	5.36	3.70	1.29	3.81	1.38	2.71	41.61
Durham	6.05	4.32	6.63	2.34	1.07	7.70	4.92	2.67	1.73	3.74	2.04	2.25	45.46
Franklin Falls	3.88	3.98	5.60	1.72	0.50	8.98	3.33	4.01	3.28	3.38	1.52	2.42	42.60
Grafton	3.36	3.34	4.55	1.89	0.56	8.07	3.92	3.19	1.00	3.27	1.20	2.83	37.18
Hanover	3.03	3.11	4.90	0.97	0.84	6.14	4.64	3.80	1.17	2.20	0.99	2.94	34.73
Jefferson	.....	.....	.....	.....	.....	.....	.....	.....	1.23	2.43	1.41	2.02	.....
Keene	2.73	3.58	4.67	2.13	0.79	6.17	2.09	4.27	1.88	2.16	1.80	2.72	34.99
Littleton	2.61	3.61	4.95	1.47	0.07	5.72	4.30	3.16	0.88	2.99	1.29	2.21	33.26
*Manchester	3.39	4.01	5.82	1.94	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nashua	3.05	4.18	5.29	2.92	0.63	7.69	2.90	2.84	2.82	4.56	1.92	3.00	41.80
Newton	3.63	3.03	5.99	3.50	0.74	9.60	2.87	3.12	1.52	4.06	1.59	2.70	42.35
*North Stratford	2.69	2.74	2.89	T.	.....	.....	.....	.....	.....	.....	1.40	1.44	.....
North Woodstock	.....	.....	.....	.....	.....	.....	.....	.....	1.52	2.53	1.46	3.43	.....
Peterboro	3.08	4.41	6.48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Plymouth	3.92	3.14	5.29	1.33	0.15	6.34	4.44	3.28	0.73	3.94	1.50	2.53	36.59
Sanbornton	3.15	3.72	5.49	1.48	0.50	7.02	3.03	3.82	1.10	.....	.....	.....	.....
Stratford	2.38	2.84	3.98	1.12	0.18	3.18	3.27	2.70	0.52	2.30	1.11	1.79	25.37
*West Stewartstown	3.04	3.84	3.71	1.58	.....	.....	.....	.....	.....	.....	1.13	2.21	.....
New Jersey.													
*Atlantic City	3.98	5.22	5.71	2.49	0.52	4.38	10.14	7.02	2.22	12.13	1.86	5.49	61.11
Asbury Park	4.67	4.70	4.38	3.22	0.17	6.98	6.22	8.50	1.72	8.35	1.09	4.27	54.27
Barnegat	4.86	5.62	8.05	4.02	0.89	5.68	6.17	7.56	3.25	10.04	[f]1.32	4.96	62.42
Bayonne	3.79	4.61	4.44	2.86	0.46	9.33	3.47	6.30	5.56	11.88	1.05	3.44	57.19
Belvidere	4.54	5.15	5.07	4.27	.....	.....	4.63	5.90	1.95	8.21	1.59	4.35	.....
Bergen Point	4.40	4.52	4.77	3.80	0.26	10.95	4.10	7.12	7.10	13.79	1.84	3.77	65.92
Beverly	3.77	5.25	4.54	4.73	0.76	6.05	7.49	4.39	3.09	6.90	1.32	3.84	52.13
Blairstown	3.45	4.29	5.03	3.90	0.08	12.69	3.93	6.79	1.45	8.27	1.30	4.30	55.48
Bridgeton	3.58	6.02	6.79	5.05	0.93	3.46	6.54	6.64	3.90	6.49	0.94	4.12	54.46
Camden	4.07	5.07	4.97	3.92	0.96	7.30	4.68	6.03	.....	.....	.....	.....	.....
Canton	3.12	4.27	4.80	3.33	0.47	3.42	6.28	5.03	2.31	7.23	0.75	3.56	44.52
*Cape May	4.45	5.65	6.25	2.40	1.13	4.48	6.49	6.70	4.66	5.67	1.93	3.52	53.33
Cape May Court House	3.81	5.36	6.34	2.68	1.32	2.39	8.60	9.05	3.63	5.36	2.03	3.40	53.97
Charlotteburg	4.89	5.48	5.93	4.42	0.24	9.45	3.79	7.78	3.29	14.06	1.47	5.15	65.95
Chester	4.79	4.53	6.06	4.80	0.33	12.80	7.59	9.35	.....	10.36	1.65	4.35	.....
Clayton	3.09	.....	4.50	3.53	0.37	3.09	6.71	4.30	2.12	.....	0.98	3.72	.....
College Farm	3.84	4.61	4.74	4.57	0.29	7.35	5.07	5.97	3.69	7.16	1.21	3.53	52.03
Dover	4.79	4.05	5.49	4.34	0.37	15.02	5.47	9.04	3.39	10.77	1.27	5.25	69.25
Egg Harbor City	4.62	5.86	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elizabeth	3.93	4.29	5.57	3.66	0.30	8.76	4.31	7.15	3.88	10.25	0.91	.....	.....
Englewood	3.97	4.08	4.05	3.12	0.58	8.15	4.05	6.61	2.88	11.75	1.03	3.26	53.53
Essex Falls	.....	.....	.....	.....	0.30	.....	.....	.....	3.80	12.28	1.36	.....	.....
Flemington	4.33	4.81	4.42	4.45	0.42	9.81	5.78	5.36	3.89	6.85	1.45	3.99	55.56
Freehold	4.86	2.78	4.93	3.81	0.71	.....	.....	.....	.....	.....	.....	.....	.....
Friesburg	3.12	5.35	5.77	4.00	0.83	3.27	5.64	6.72	3.38	6.27	0.93	3.80	49.08
Hanover	3.90	5.08	[f]4.24	4.87	0.56	8.94	5.40	13.07	3.97	10.44	1.28	4.17	65.92
Hightstown	3.66	5.15	4.59	7.03	0.93	8.04	5.23	4.42	4.74	7.12	1.55	3.53	55.99
Imlaystown	3.62	4.17	4.30	4.58	0.36	6.94	6.72	5.41	3.22	6.23	1.09	3.67	50.31
Indian Mills	3.60	4.76	4.69	3.33	0.27	4.57	4.15	5.14	3.28	7.89	1.18	4.07	46.93
Lakewood	4.44	4.46	4.69	3.46	1.02	6.62	7.36	8.77	3.35	8.17	1.02	3.74	57.10
Lambertville	4.25	5.63	4.42	4.56	0.99	7.05	6.05	5.00	4.27	7.32	1.21	3.90	54.65
Layton	2.31	3.74	4.27	2.94	0.54	11.78	4.67	6.19	1.39	9.21	1.70	5.22	53.86
Moorestown	3.69	4.71	5.28	5.33	0.44	5.65	5.44	5.49	4.42	8.79	1.18	4.48	54.90
Mount Pleasant	2.47	3.30	5.42	3.55	0.68	.....	.....	.....	.....	.....	.....	.....	.....
Newark	4.26	4.59	4.08	3.13	0.42	11.51	4.27	14.54	4.56	13.26	0.92	3.56	69.10
New Brunswick	4.15	4.88	4.82	4.58	0.46	8.13	5.63	6.52	3.23	7.76	1.29	4.24	55.64
Newton	4.39	5.19	4.93	3.05	0.28	12.33	3.43	7.51	1.67	9.99	1.44	4.39	59.19
Oceanic	4.24	4.13	5.19	2.59	0.35	10.00	5.13	7.87	1.70	7.06	0.76	4.26	53.28
Paterson	5.04	4.96	5.40	4.51	0.74	11.17	5.40	10.98	2.88	16.19	1.32	4.21	72.80
Pemberton	3.78	4.46	3.60	4.80	0.27	8.19	4.26	5.49	3.49	8.61	0.85	3.32	51.12
Perth Amboy	.....	.....	[k]2.75	3.91	T.	9.51	3.60	7.24	.....	11.28	.....	.....	.....
Phillipsburg	.....	4.73	4.39	4.16	0.83	9.09	6.89	5.87	1.47	8.23	1.26	3.35	.....
Plainfield	4.05	4.96	4.08	4.05	0.84	10.14	4.70	6.87	4.38	8.37	1.22	4.14	57.80
Pleasantville	2.47	3.30	5.42	3.55	0.68	5.06	8.27	7.73	2.95	12.01	1.70	4.55	57.69
Rancocas	4.55	4.66	4.84	4.10	0.38	4.58	5.56	5.86	3.76	8.61	1.13	4.17	52.20
Ringwood	3.67	4.33	5.47	3.78	0.39	10.13	3.08	6.17	3.06	11.36	1.38	4.72	57.54

[1] W. W. Flint.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New Jersey—Continued.													
Rivervale	4.50	4.22	5.14	5.13	0.00	10.62	3.41	9.40	2.90	12.81	0.94	4.73	63.80
Salem	3.40	5.22	5.33	3.61	1.06	2.48	6.74	5.58	2.62	5.93	1.38	3.94	47.29
Sandy Hook	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.38	0.92	3.92	.....
Somerville	4.09	4.77	4.42	4.01	1.28	11.66	5.80	5.15	4.93	6.96	1.17	4.06	58.30
South Orange	4.58	5.35	4.51	3.67	0.52	9.28	4.22	13.57	3.80	11.46	1.06	4.35	66.37
Sussex	3.43	4.36	3.79	3.71	0.70	14.87	3.37	8.06	1.66	9.19	1.25	4.40	58.79
Toms River	4.49	5.02	5.84	3.66	0.89	7.18	6.98	6.76	3.50	4.17	1.13	4.23	52.85
Trenton	2.30	5.27	5.55	6.49	0.30	8.09	4.52	5.50	4.50	6.84	1.63	3.20	54.19
Tuckerton	4.55	6.28	8.07	4.19	0.76	8.02	7.17	6.55	2.87	9.41	1.44	4.52	63.83
Vineland	3.65	5.38	6.39	4.66	0.62	2.61	5.46	7.86	4.26	7.40	1.05	4.28	53.62
Woodbine	4.66	6.60	8.58	3.35	1.00	3.53	8.15	6.97	4.58	6.27	1.69	3.78	59.11
Woodstown	3.67	4.84	4.63	3.17	1.05	3.10	6.32	4.60	3.04	6.09	1.19	4.10	45.80
New Mexico.													
Alamogordo	0.30	1.00	0.40	T.	0.48	1.30	0.83	1.48	1.16	0.00	0.00	.....	.....
Albert	T.	1.58	T.	0.81	0.27	5.90	1.90	2.24	T.	0.33	0.00	T.	13.03
Albuquerque	0.08	0.41	0.38	0.05	0.18	2.48	0.32	0.00	1.93	0.00	0.00	0.00	5.83
Alma	0.01	0.30	0.29	T.	.....	1.21	1.46	2.72	2.91	0.00	0.00	.....	.....
Arabela	0.22	1.27	T.	0.00	0.40	6.81	0.72	1.74	1.82	0.00	0.00	0.00	12.98
Bellranch	T.	1.45	0.86	0.74	1.33	5.09	0.73	2.15	0.89	1.13	T.	0.00	13.87
Bluewater	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cambray	0.74	1.55	0.80	T.	0.40	0.43	0.09	2.58	1.43	0.00	0.00	0.00	8.02
Carlsbad	0.33	0.35	T.	0.51	T.	4.56	0.00	0.48	1.83	0.00	0.00	0.00	8.05
Cloudcroft	.....	4.60	0.90	0.15	1.20	4.01	0.66	2.98	1.85	.....	0.00	0.28	.....
Deming	0.49	0.85	1.00	0.00	0.13	3.32	0.01	0.40	2.84	0.00	0.00	0.05	9.09
Dorsey	T.	1.63	0.22	0.98	0.29	8.60	0.95	1.52	0.38	0.22	0.01	0.10	14.90
Eagle Rock Ranch	0.24	1.04	0.18	1.86	1.55	5.34	1.10	2.58	0.04	1.87	0.03	0.25	16.08
Engle	.....	.....	0.88	0.27	0.77	2.39	T.	0.22	1.28	0.00	0.00	0.00	.....
Fort Bayard	0.78	0.52	1.27	0.16	0.17	1.75	0.45	3.87	3.36	T.	0.00	T.	12.33
Fort Stanton	0.36	0.75	0.17	0.20	0.38	3.41	0.62	1.55	1.55	0.48	0.00	0.05	9.52
Fort Union	T.	1.60	0.11	0.54	1.05	6.69	0.78	2.02	1.93	0.05	0.00	0.05	14.82
Fort Wingate	0.46	0.92	0.45	1.27	1.05	1.36	1.18	1.82	1.77	0.00	0.00	0.06	10.34
Fruitland	0.09	0.75	0.10	.....	0.03	.....	0.09	.....	.....	0.00	0.00	T.	.....
Gage	0.27	0.20	0.90	0.00	0.25	.....	.....	0.72	2.84	0.00	0.00	T.	.....
Galisteo	0.10	0.70	0.45	0.12	.....	3.10	1.93	1.80	0.10	0.00	.....	.....	.....
Gallinas Springs	0.10	2.08	0.27	1.15	.....	.....	0.01	1.42	0.29	0.00	0.00	0.05	.....
Golden	.....	.....	1.04	0.15	.....	3.17	0.81	1.56	0.12	T.	0.00	0.01	.....
Hotsprings	T.	1.60	0.08	0.31	0.17	.....	2.81	.....	.....	.....	.....	.....	.....
Las Vegas	0.07	1.42	0.13	0.52	0.22	6.24	1.41	3.57	1.11	0.00	T.	0.12	14.81
Lordsburg	0.00	T.	0.90	0.00	0.27	0.58	0.45	0.70	0.93	0.00	0.00	0.21	4.04
Los Lunas	.....	0.60	0.55	T.	0.40	2.05	0.50	0.35	1.85	0.00	0.00	0.00	.....
Luna	.....	1.28	0.58	T.	1.03	3.02	1.31	5.60	3.18	0.00	0.00	0.10	.....
Mesilla Park	0.20	0.98	0.37	0.08	0.10	3.65	0.97	1.50	2.43	0.00	0.00	0.01	10.29
Mountainair	0.60	5.39	0.46	0.43	0.06	2.96	0.52	1.71	0.36	T.	0.00	0.52	13.01
Raton	.....	2.10	0.05	0.00	0.02	9.44	0.02	2.12	0.20	T.	0.01	0.25	.....
Roswell	0.22	0.96	0.10	T.	0.74	4.37	.....	0.36	0.92	T.	0.00	0.00	.....
San Marcial	0.05	T.	T.	T.	T.	.....	.....	.....	.....	0.00	0.00	0.00	.....
*Santa Fe	0.11	1.31	1.32	0.67	0.17	3.87	0.56	1.18	0.55	0.02	0.00	0.03	9.79
Strauss	0.50	0.60	0.40	0.45	0.48	2.82	0.15	4.51	4.15	0.00	0.00	T.	14.06
Taos	0.25	1.93	1.40	1.58	T.	3.56	0.87	2.26	0.30	T.	0.00	0.10	11.75
Winsors	T.	1.70	1.02	1.88	0.98	5.29	3.75	4.39	0.32	0.00	0.00	0.21	19.54
New York.													
Adams	4.54	3.13	2.52	2.59	0.35	4.46	7.19	3.05	1.24	5.58	4.66	8.42	47.33
Addison	1.87	1.81	4.56	2.67	1.90	5.90	5.51	7.25	1.81	4.42	1.84	0.79	40.33
Adirondack Lodge	4.35	3.52	5.72	2.72	0.35	.....	.....	.....	.....	.....	.....	.....	.....
Akron	2.78	2.44	3.44	4.30	1.43	3.36	5.38	7.27	0.65	1.46	1.69	1.68	35.88
*Albany	1.83	2.05	3.55	0.79	0.15	6.44	3.51	5.14	1.30	6.09	1.65	1.59	34.09
Alden	2.40	2.71	4.80	4.02	1.51	4.80	3.00	5.76	0.96	1.97	3.04	2.58	37.56
Amsterdam	.....	2.59	5.41	1.49	0.06	10.37	.....	8.58	1.17	6.89	1.85	2.10	.....
Angelica	1.78	1.45	4.60	2.65	1.16	4.54	4.11	7.51	1.80	.....	2.57	0.77	.....
Appleton	2.68	2.14	2.55	3.52	1.45	2.92	3.68	5.07	0.59	3.20	1.39	1.33	30.52
Arcade	3.51	2.42	4.22	4.13	1.63	4.14	.....	.....	.....	3.58	2.47	2.70	.....
Athens	2.83	3.56	4.21	1.96	0.50	7.93	4.16	7.63	3.24	7.40	1.63	3.46	48.71
Atlanta	2.41	2.46	5.02	2.92	1.16	4.66	4.27	5.58	2.06	3.86	1.84	1.67	37.91
Auburn	0.89	1.44	4.75	3.09	0.74	7.04	4.19	5.14	1.85	6.23	2.95	1.85	40.16
Avon	1.83	1.57	3.18	3.33	0.45	4.03	2.19	7.07	1.19	2.20	1.56	1.36	29.96
Axton	3.92	3.00	4.56	1.95	0.16	5.56	7.78	4.72	.....	.....	.....	.....	.....
Baldwinsville	3.09	3.07	5.65	2.18	0.50	7.20	4.17	5.85	1.14	6.33	3.93	2.51	45.62
Beaver	.....	.....	.....	1.56	0.05	5.18	3.91	3.70	.....	3.48	.....	5.90	.....
Bedford	2.33	5.60	3.53	1.91	0.24	10.46	1.85	8.42	4.80	6.93	2.79	3.86	52.72
Berlin	.....	.....	.....	1.49	0.58	8.32	3.72	6.13	1.57	4.99	1.85	2.65	.....
*Binghamton	2.41	2.24	3.84	1.57	0.42	5.79	2.67	6.85	1.21	5.74	2.26	2.12	37.12
Blue Mountain Lake	3.40	2.95	5.75	1.85	T.	6.75	4.92	5.00	1.80	8.20	2.05	6.70	49.37
Bolivar	2.85	3.14	4.75	2.47	2.43	5.60	◦4.62	.....	2.48	4.11	2.89	1.52	.....
Bouckville	3.60	3.03	4.70	1.80	0.00	10.25	2.49	5.91	1.66	8.09	2.32	4.72	48.57
Boyds Corner	4.52	5.70	6.30	2.68	1.25	11.81	3.54	9.10	2.61	8.59	2.48	4.07	63.26
Brockport	2.41	2.48	3.48	3.70	0.82	2.62	4.68	4.35	0.66	3.70	1.56	2.39	32.85
Brown Station	.....	.....	.....	1.62	0.77	12.36	3.47	.....	.....	.....	.....	.....	.....
*Buffalo	4.23	2.90	3.32	4.48	1.69	3.95	4.07	5.29	0.81	2.15	1.36	3.70	37.95
Caldwell	3.95	4.90	6.37	1.69	0.29	8.31	3.86	6.20	1.96	5.19	1.40	3.21	47.33
Canajoharie	2.32	2.76	5.66	1.27	0.07	9.41	6.06	5.59	1.46	6.49	1.43	2.62	45.14
Canaan Four Corners	1.67	2.61	3.51	2.05	1.25	10.86	8.15	7.39	1.72	6.87	2.45	2.60	51.04
Carmel	4.81	5.55	5.90	2.63	1.80	12.70	2.44	8.29	2.69	8.45	3.35	4.91	63.52
Carvers Falls	2.71	3.69	5.74	0.78	0.05	4.29	5.22	3.57	1.04	4.11	1.51	2.41	35.12
Cedarhill	2.29	2.50	3.76	0.96	0.47	7.26	.....	.....	.....	.....	.....	.....	.....
Clockville	.....	.....	.....	.....	0.03	7.83	3.19	4.51	.....	9.74	.....	.....	.....
Chazy	3.22	2.53	3.73	2.48	0.07	6.54	5.13	4.17	0.58	3.84	1.51	1.50	35.30
Cooperstown	3.30	3.61	5.84	1.57	0.17	7.35	5.52	7.26	1.64	8.32	2.21	2.66	49.45
Cortland	1.70	1.71	5.13	1.12	0.30	6.12	3.99	8.21	2.07	11.47	2.24	1.62	45.68

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New York—Continued.													
Cutchogue	4.80	5.83	7.51	4.26	0.94	6.08	1.89	7.77	1.25	4.53	1.75	4.25	50.86
Dekalb Junction	3.93	3.22	2.85	2.85	0.28	4.73	5.45	4.15	1.79	5.25	1.35	2.14	37.99
De Ruyter	.....	.....	4.90	1.60	0.11	6.87	4.13	5.54	1.87	8.14	1.92	2.31	.....
Easton	2.91	2.84	4.75	1.45	0.45	7.18	3.35	5.97	1.75	5.52	1.70	2.08	39.95
Elba	3.97	3.66	3.57	3.15	1.19	3.17	4.06	5.14	0.98	2.59	1.47	4.05	37.00
Elmira	2.08	2.50	4.25	2.24	1.52	7.18	4.78	6.28	1.47	5.10	1.87	0.81	40.08
Fayetteville	2.33	2.15	4.69	2.36	0.22	7.27	3.35	4.48	1.03	7.47	2.15	2.00	39.50
Franklinville	3.12	2.80	4.04	3.49	1.58	3.42	4.65	5.20	3.04	3.69	2.68	2.36	40.07
Gabriels	.....	.....	2.99	2.57	0.20	4.55	4.92	5.02	0.85	4.51	0.22	.....	.....
Gansevoort	3.09	4.75	7.09	2.13	0.66	8.14	3.91	6.18	1.50	5.02	2.17	2.76	47.40
Glens Falls	3.53	4.14	6.49	1.27	0.27	8.97	3.09	5.06	1.53	4.66	1.75	2.55	43.31
Gloversville	3.92	3.90	7.32	1.37	0.16	9.44	4.06	6.78	0.64	5.75	2.54	3.28	49.16
Greenwich	2.15	3.59	5.86	0.95	0.57	5.97	2.57	6.33	1.25	4.14	1.81	1.88	37.07
Griffin Corners	2.60	2.95	4.23	2.17	0.30	6.68	3.11	6.09	1.61	8.38	2.29	3.82	44.18
Harkness	1.88	1.75	3.33	2.37	T.	6.19	5.49	2.51	0.34	4.51	0.80	1.91	31.08
Haskinville	1.68	0.72	5.46	2.16	1.63	6.26	2.96	4.97	2.22	3.19	2.25	1.21	34.71
Hemlock Lake	1.92	2.43	3.89	2.60	0.53	6.32	4.19	6.02	1.57	2.89	1.56	0.78	34.70
Homer	.....	.....	.....	1.25	0.28	6.09	.....	7.63	1.74	6.84	.....	1.76	.....
Honeymead Brook	2.84	4.27	3.83	2.02	1.20	12.23	3.82	8.26	1.39	8.25	2.31	4.06	54.48
Indian Lake	3.38	4.04	4.83	2.16	0.21	6.47	4.68	4.83	1.36	5.92	1.33	4.15	43.36
*Ithaca	2.19	1.97	4.62	1.04	0.30	5.67	2.64	7.15	1.21	5.69	1.83	1.15	35.46
Jamestown	2.90	3.00	3.73	3.73	2.37	3.58	5.94	5.32	1.71	3.24	3.95	2.46	41.93
Jeffersonville	.....	.....	.....	.....	.....	.....	4.19	5.32	1.85	10.13	3.00	2.81	.....
Keene Valley	2.79	4.02	3.79	2.37	0.02	9.25	5.33	3.45	1.30	5.00	0.84	3.07	41.23
King Ferry	2.91	2.01	5.21	1.39	0.48	6.43	3.97	6.70	1.18	6.15	2.49	1.21	40.13
Liberty	2.71	3.46	5.11	2.26	0.44	9.34	4.36	6.55	1.86	8.88	2.89	1.90	49.76
Littlefalls (City Reservoir)	2.32	3.19	5.21	1.44	0.06	6.98	5.16	7.23	1.02	7.58	2.10	2.23	44.52
Lockport	2.65	2.39	2.82	4.00	1.52	3.21	3.77	5.55	0.60	2.50	1.43	1.66	32.10
Lowville	5.29	3.94	3.33	2.87	0.67	5.83	7.25	3.34	1.50	6.48	2.97	5.14	48.61
Lyndonville	.....	2.41	3.43	3.05	1.35	2.53	3.90	7.40	0.45	2.16	1.69	1.03	.....
Lyons	.....	.....	4.49	2.83	0.15	6.14	4.55	5.27	2.04	4.66	2.18	2.68	.....
Middletown	2.57	4.31	3.35	3.59	0.34	12.06	4.04	9.04	2.30	9.05	1.78	4.39	56.82
Mohonk Lake	3.13	5.56	4.60	3.03	0.88	12.44	4.02	10.80	1.71	8.90	2.33	2.35	59.75
Moira	.....	3.53	3.30	2.61	0.05	6.71	5.57	3.91	0.52	4.52	1.33	3.69	.....
Mount Etrick	.....	.....	.....	1.82	0.31	6.95	3.79	10.33	1.30	.....	.....	.....	.....
Newark Valley	2.82	2.76	4.66	1.62	0.33	6.84	4.44	8.66	1.26	5.85	2.36	1.52	43.12
New Lisbon	2.88	3.19	5.77	1.26	0.25	7.04	5.24	6.54	1.57	7.36	2.04	3.35	46.49
*New York	3.44	3.83	3.65	2.88	0.33	7.42	3.28	5.96	2.60	11.55	0.90	2.81	48.60
North Hammond	2.35	2.62	2.48	3.41	0.16	5.53	.....	5.34	1.27	.....	*0.44	0.84	.....
North Lake	2.02	7.40	4.79	1.12	T.	6.74	2.44	4.99	1.08	.....	.....	.....	.....
Number Four	6.16	.....	.....	2.46	0.45	7.21	10.03	4.18	1.77	7.65	3.06	9.56	.....
Nunda	1.04	2.10	4.17	3.63	0.56	4.01	3.14	.....	2.04	2.34	.....	.....	.....
Ogdensburg	2.78	2.77	2.29	1.80	0.17	8.53	6.61	4.86	1.21	4.74	0.71	1.13	37.60
Old Chatham	.....	3.90	4.80	.....	0.15	7.09	2.67	7.82	.....	4.87	.....	.....	.....
Oneonta	2.46	3.29	5.90	1.05	0.36	6.83	4.81	7.70	1.44	7.97	2.31	2.36	46.48
Oswegatchie	.....	.....	4.56	2.39	.....	8.71	.....	3.51	.....	7.94	3.32	2.09	.....
*Oswego	3.49	3.08	4.82	3.25	0.32	5.57	2.61	3.08	2.21	4.88	2.46	3.88	39.65
Otto	2.06	1.67	3.33	3.23	2.78	5.16	4.22	4.79	1.20	4.29	2.08	1.43	36.24
Oxford	3.92	2.99	5.64	1.69	0.42	7.56	3.98	7.89	1.52	7.06	1.88	5.53	50.08
Oyster Bay	.....	.....	.....	.....	0.40	10.20	3.23	6.45	2.55	.....	1.51	5.98	.....
Palermo	3.19	2.45	3.91	3.03	0.34	6.48	3.51	4.01	2.21	5.30	2.42	2.84	39.69
Penn Yan	1.46	1.25	4.43	2.11	0.30	6.14	5.76	4.51	1.98	3.96	1.31	0.75	33.96
Perry City	2.28	2.03	5.34	1.86	0.72	7.04	4.94	8.60	0.99	5.79	2.56	1.52	43.67
Platisburg Barracks	2.50	1.30	4.15	1.70	0.00	4.45	4.40	4.40	0.10	2.16	0.84	2.90	28.90
Port Jervis	3.00	4.37	3.68	3.52	1.00	13.76	4.50	8.25	1.52	10.60	1.99	3.86	60.05
Potsdam	.....	.....	.....	.....	0.18	6.00	5.91	3.17	0.87	6.27	1.75	2.65	.....
Primrose	4.25	4.17	5.43	5.66	0.78	9.44	3.48	10.51	3.35	11.30	0.43	3.77	62.57
Red Hook	3.34	4.54	5.03	2.63	0.69	9.95	4.08	8.51	1.49	7.78	2.31	3.43	53.78
Richmondville	1.78	2.54	5.16	1.03	0.22	8.84	3.12	5.66	1.23	6.78	1.68	2.42	40.46
Ridgeway	2.78	2.65	3.31	3.66	1.14	3.66	4.41	6.71	0.61	2.78	1.81	2.16	35.68
*Rochester	2.54	2.62	3.88	2.81	0.53	3.66	2.55	3.48	1.11	2.93	1.50	1.83	29.44
Rome	3.29	3.05	5.95	3.30	0.03	7.25	6.20	3.46	1.20	7.95	3.11	2.98	47.77
Romulus	1.56	1.26	5.44	2.77	0.25	10.74	.....	4.88	1.61	6.76	1.78	1.53	.....
Salisbury Mills	3.50	4.87	4.09	3.70	1.22	12.52	2.28	11.20	2.82	14.63	1.97	4.20	67.00
Saranac Lake	3.26	2.88	4.85	2.23	0.01	4.49	5.31	3.07	0.83	4.94	1.43	2.83	36.13
Saratoga Springs	4.26	5.12	.....	.....	0.44	7.92	4.20	7.42	1.50	4.16	1.99	2.17	.....
Scottsville	.....	.....	.....	3.15	0.43	3.53	3.63	5.01	1.14	1.60	.....	.....	.....
Setauket	3.83	4.79	7.35	3.61	0.50	7.84	2.26	6.28	2.61	3.66	1.32	4.26	48.31
Shokan	.....	.....	.....	.....	0.45	7.62	3.70	9.91	3.18	.....	.....	.....	.....
Shortsville	2.12	1.89	3.83	2.29	0.29	5.19	2.59	5.29	1.77	3.37	1.18	1.20	31.01
Skaneateles	3.75	2.65	5.70	2.77	0.63	6.10	4.50	5.74	1.80	6.77	2.95	2.01	45.37
Southampton	3.75	3.55	6.82	4.19	1.26	4.67	1.66	7.37	1.24	3.42	1.48	3.70	43.11
South Butler	3.66	2.82	5.16	3.37	0.36	7.38	3.03	5.43	2.16	5.70	2.33	1.64	43.04
South Canisteo	3.25	2.15	4.64	3.24	1.94	5.49	4.59	7.13	1.98	4.47	2.48	1.38	42.74
Southeast Reservoir	4.83	4.96	5.19	2.69	1.16	11.35	2.45	6.88	3.67	6.90	2.89	3.68	56.65
South Kortright	2.55	3.31	4.74	1.71	0.25	6.21	3.39	5.44	1.64	8.30	2.23	3.25	43.02
South Schroon	3.49	4.03	5.80	1.94	0.10	8.91	5.74	5.01	1.51	5.17	1.34	2.92	45.96
Spier Falls	3.36	3.85	6.18	1.13	0.44	7.53	3.61	5.34	1.22	4.91	1.66	2.53	41.76
Straits Corners	2.55	1.40	4.66	2.27	0.17	6.18	5.24	5.96	0.46	5.97	1.91	1.90	38.57
*Syracuse	3.41	2.58	4.65	2.34	0.28	5.80	3.63	5.41	0.99	6.36	2.01	1.92	39.38
Ticonderoga	3.27	3.17	3.87	1.64	0.52	5.80	5.75	3.41	0.97	3.28	1.21	3.00	35.89
Volusia	2.18	2.66	2.51	3.10	1.47	6.05	4.50	5.18	3.33	3.46	5.54	3.93	43.91
Walton	2.72	2.94	5.19	2.05	0.40	7.20	3.45	7.42	2.56	9.12	2.53	2.68	48.26
Wappingers Falls	3.56	6.08	4.72	3.19	5.92	20.63	6.25	11.87	1.54	11.66	2.66	3.98	82.06
Warwick	2.88	3.09	3.34	3.50	1.28	10.20	3.23	6.84	1.80	11.71	1.66	3.68	53.21
Watertown	5.01	3.15	3.82	2.70	0.49	4.78	5.52	3.15	1.44	5.94	2.37	2.54	40.91
Waverly	2.52	2.23	4.27	2.25	0.76	6.67	3.87	6.52	1.85	5.60	2.30	1.49	40.33
Wedgewood	3.29	2.25	5.42	2.06	0.87	5.53	3.26	10.34	1.51	5.05	1.81	1.93	43.32
Wells	1.50	.....	.....	1.71	0.09	8.52	4.25	6.29	1.60	7.42	1.68	4.12	.....
West Berne	2.07	1.90	5.15	1.46	0.22	6.55	2.91	6.41	1.43	7.86	2.11	2.65	40.72
Westfield[1]	1.27	3.33	3.11	3.09	.....	4.91	5.86	4.95	2.70	2.73	3.95	2.82	.....

[1] Jno. R. Rogers.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New York—Continued.													
Westfield[1]	1.75	2.58	3.44	3.14	1.61	3.14	.....	.....	.....	.....	.....	.....	.....
Windham	1.85	3.16	4.47	2.65	0.92	8.09	2.37	6.97	1.53	9.70	1.76	3.02	46.49
Youngstown	1.89	2.20	2.27	3.83	1.83	2.91	2.70	6.61	0.90	2.39	1.16	1.62	30.31
North Carolina.													
*Asheville	1.61	7.02	7.06	4.38	1.14	5.55	5.59	3.12	0.82	1.77	2.32	0.80	41.18
Biltmore	1.63	6.83	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brevard	4.30	9.10	17.10	.....	3.82	12.00	.....	3.37	2.74	2.50	2.29	0.90	.....
Brewers	5.63	7.67	9.91	5.95	1.70	8.28	2.59	5.11	2.62	3.65	1.83	1.55	56.49
*Bryson City	2.45	10.92	8.69	8.61	1.92	7.60	3.54	2.90	0.12	2.31	4.08	1.14	54.28
Chapelhill	4.06	5.52	10.89	7.99	1.18	4.87	.....	.....	1.31	4.98	1.71	2.68	.....
*Charlotte	3.10	6.02	5.77	3.28	0.53	5.35	1.89	4.55	3.29	2.53	1.43	1.75	39.49
Cranberry	3.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Currituck	3.78	2.56	2.12	3.98	1.12	4.40	4.95	2.43	4.88	7.98	1.24	2.78	42.22
Edenton	2.95	3.91	5.15	4.59	4.13	4.00	5.97	4.70	0.81	5.56	1.96	3.13	46.85
*Fayetteville	5.08	5.21	8.79	3.39	2.55	4.42	3.21	5.51	1.98	3.93	0.67	2.28	47.02
Flatrock	.....	.....	.....	4.63	2.79	11.15	2.90	6.13	4.26	2.28	.....	.....	.....
*Goldsboro	2.57	5.76	5.89	3.64	0.96	6.07	3.59	4.49	2.01	4.28	0.52	1.61	41.30
*Graham	4.30	6.26	8.45	6.09	0.73	2.84	5.11	2.93	4.83	3.30	2.18	1.67	48.69
*Greensboro	4.30	6.62	8.12	5.32	1.32	4.99	1.89	5.06	3.20	2.68	1.97	1.96	47.43
*Hatteras	2.60	4.82	5.30	1.74	4.43	3.35	1.94	7.13	6.30	4.47	3.52	3.27	48.87
Henderson	3.01	5.60	10.74	4.87	1.60	3.77	2.82	11.26	2.34	3.51	1.49	1.85	52.76
Hendersonville	4.24	10.00	10.56	4.38	2.88	7.01	6.50	5.56	3.52	1.98	2.42	1.55	60.60
Henrietta	5.45	10.04	9.18	4.10	1.14	10.90	0.21	3.53	2.02	1.10	2.44	1.41	51.52
Highlands	5.33	15.93	17.52	7.80	6.44	13.85	3.45	3.87	8.87	4.29	4.48	3.08	94.91
Horse Cove	4.98	14.04	14.16	5.34	5.80	11.44	2.80	6.42	5.56	3.37	3.57	2.80	80.28
Jefferson	[1]2.08	8.44	8.32	3.49	1.82	4.69	3.74	3.17	2.20	1.86	3.33	1.32	44.46
Kinston	2.96	5.91	8.05	2.99	3.91	.....	8.07	6.93	0.89	3.28	0.60	1.99	.....
*Kittyhawk	6.07	3.74	5.53	4.89	0.72	6.09	5.72	8.10	4.49	6.82	2.49	2.84	57.50
Lenoir	5.06	8.80	11.15	5.36	0.74	9.03	4.16	4.87	2.49	3.10	3.06	1.87	59.69
Lexington	3.41	.....	7.58	6.88	1.22	.....	.....	.....	.....	.....	.....	.....	.....
Linville	3.16	8.45	9.55	.....	1.82	5.51	4.55	4.15	4.97	.....	3.83	2.50	.....
Littleton	2.81	5.46	9.58	6.07	1.59	4.72	3.99	7.49	2.66	4.98	2.00	2.68	54.03
Louisburg	2.69	6.78	7.42	7.06	1.19	4.44	1.75	5.89	1.88	4.90	1.52	3.10	48.62
*Lumberton	3.15	7.43	5.87	3.64	2.13	6.44	6.25	3.55	1.26	4.25	0.35	2.52	46.84
Marion	5.07	11.57	9.26	5.17	1.59	10.13	1.74	6.49	3.15	2.79	2.85	1.22	61.03
Marshall	.....	6.11	7.10	6.14	2.07	[2]3.28	.....	.....	.....	.....	3.42	0.60	.....
Mocksville	3.62	7.83	7.30	5.19	0.85	6.11	2.96	6.75	5.30	1.05	2.19	2.21	51.36
*Moneure	3.02	5.26	6.89	4.90	1.04	3.68	2.19	4.41	1.20	4.62	0.64	2.85	40.80
Monroe	3.03	8.63	6.58	3.32	0.59	11.07	1.71	4.62	3.03	3.40	1.21	1.56	48.70
Morganton	4.91	8.44	9.29	4.85	0.61	7.89	2.27	5.20	3.16	1.87	2.56	0.99	52.04
Mountairy	5.17	6.94	7.53	4.04	1.31	2.13	[3]3.40	4.51	.....	0.64	1.27	1.77	.....
*Murphy	2.53	10.25	6.97	4.92	2.60	6.61	4.23	3.36	0.53	2.96	2.88	2.22	50.01
Nantahala Park	.....	.....	.....	.....	.....	.....	[3]2.39	2.30	5.71	4.19	.....	.....	.....
*Newbern	4.48	4.82	5.20	3.97	2.68	4.60	5.18	9.01	1.04	4.54	1.57	2.38	49.47
Patterson	4.96	8.76	8.07	5.28	1.87	8.37	4.35	3.71	1.73	4.28	2.94	1.68	56.00
Penelo	3.25	.....	.....	.....	2.39	5.97	3.01	5.01	[4]2.45	.....	.....	.....	.....
Pinehurst	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.28	0.62	2.80	.....
Pittsboro	3.19	5.87	7.89	6.08	1.69	1.92	2.45	3.84	2.00	3.64	1.00	2.11	41.68
*Raleigh	3.04	6.67	7.32	5.92	2.67	4.61	4.41	3.60	1.43	5.28	0.88	2.21	48.04
*Reidsville	4.38	6.59	6.56	5.01	1.86	8.39	3.41	2.60	3.45	2.24	2.10	2.03	48.62
Rockingham	2.91	8.42	3.44	5.12	0.44	5.60	6.75	6.13	1.51	5.21	0.50	3.01	49.04
Roxboro	4.00	6.06	8.18	6.51	3.59	4.53	2.97	4.50	3.43	3.14	1.79	.....	.....
Salem	4.15	8.76	6.63	3.98	1.00	7.75	2.79	2.90	2.88	2.80	2.15	.....	.....
*Salisbury	3.75	6.27	8.66	5.10	2.17	3.84	1.70	3.23	3.93	1.68	2.06	1.78	43.67
Saxon	4.64	7.83	6.75	4.70	1.85	8.24	3.12	4.53	1.53	1.55	2.70	2.17	49.61
Selma	5.31	5.65	4.38	7.19	2.67	5.19	2.64	3.35	3.06	7.23	1.60	2.70	50.97
Settle	5.66	7.32	9.47	5.19	1.03	5.89	3.64	4.50	5.31	1.65	1.94	1.50	53.10
Sloan	4.58	4.31	6.21	3.27	2.62	4.68	8.74	11.16	1.57	3.02	1.54	1.89	53.59
Soapstone Mount	3.84	6.20	7.92	5.93	0.73	3.38	6.12	4.80	3.92	3.51	1.96	2.15	50.46
Southern Pines[2]	3.21	6.34	5.05	4.87	0.86	8.13	2.62	3.58	1.60	4.11	0.45	3.08	43.90
Southern Pines[3]	2.88	7.30	4.95	4.09	1.77	6.68	3.18	2.28	2.80	3.98	0.55	2.96	42.92
Southport	4.35	3.24	6.33	2.40	2.66	7.04	1.48	5.72	1.25	3.46	2.01	2.97	42.86
Springhope	2.49	4.68	5.13	7.78	0.95	6.03	5.68	4.18	2.20	4.47	0.78	1.78	46.15
Statesville	6.43	9.90	8.66	7.37	0.63	4.52	3.55	3.04	5.05	1.08	1.72	1.69	53.64
Tarboro	3.38	6.27	5.48	4.39	2.43	5.26	4.44	7.43	1.42	4.81	0.74	2.42	.....
Washington	2.97	4.87	5.24	3.70	4.71	5.26	5.84	9.07	0.45	3.98	1.27	2.83	50.19
Waynesville	1.73	8.65	7.85	4.69	1.90	4.27	3.05	4.75	0.80	1.65	2.75	2.25	44.34
*Weldon[4]	2.46	4.51	6.26	5.89	2.58	9.84	3.33	6.14	1.69	3.67	1.47	1.71	49.55
*Weldon[5]	2.42	4.56	6.09	6.07	2.83	10.01	3.46	6.43	1.68	4.18	1.54	1.76	51.03
Whiteville	.....	.....	.....	.....	.....	.....	8.99	6.36	2.92	3.81	1.28	1.89	.....
*Wilmington	3.43	3.54	3.32	2.05	2.90	8.63	3.00	14.35	1.16	2.46	1.08	2.35	48.22
North Dakota.													
Amenia	1.00	0.82	0.50	1.63	3.36	0.54	3.07	5.47	3.68	1.44	0.11	0.53	21.65
Ashley	0.50	.....	0.60	1.21	1.74	1.48	2.84	4.95	2.80	0.80	0.10	0.47	.....
Berlin	1.64	1.15	1.56	3.65	1.90	1.80	2.39	6.22	3.22	1.15	0.07	0.70	25.45
*Bismarck	0.82	0.09	0.12	0.61	3.20	1.44	2.18	5.59	2.36	0.27	0.23	1.05	17.96
Bottineau	0.50	.....	0.20	T.	4.02	1.38	.....	.....	.....	1.58	.....	.....	.....
Buxton	0.76	0.06	1.17	0.84	2.93	0.29	.....	4.93	3.81	2.14	0.03	0.56	.....
Cando	0.34	T.	[6]T.	0.55	3.82	1.78	.....	.....	.....	.....	.....	.....	.....
Churches Ferry	0.66	0.10	0.74	1.72	2.17	[6]0.99	1.35	2.74	2.16	0.09	0.10	0.60	13.42
Coalharbor	0.73	0.32	0.35	T.	.....	.....	2.75	4.89	2.47	0.20	0.27	1.00	.....
Cooperstown	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.90	T.	.....	.....
*Devils Lake	1.08	0.50	0.53	2.18	4.06	0.77	1.56	4.64	1.56	0.51	0.20	0.63	18.24
Dickinson	.....	.....	[6]T.	0.31	3.59	1.18	0.52	5.52	3.70	0.08	0.13	0.82	.....
Donnybrook	0.13	0.70	0.50	1.30	6.52	2.51	2.83	5.21	2.77	0.32	0.10	1.16	23.99
Dunseith	0.50	0.30	0.50	0.40	5.81	1.16	1.44	3.54	.....	.....	0.40	0.70	.....
Edgeley	0.76	1.34	0.88	2.85	2.24	1.57	1.93	5.31	3.07	0.68	0.34	0.28	21.25

[1] D. H. Beadle. [2] P. H. Beck. [3] State Horticultural Farm. [4] Cotton-region observer. [5] River observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
North Dakota—Continued.													
Elbowoods	.....	0.50	.....	0.30	2.50	.....	2.29	4.44	3.65	0.14	0.48	0.79	.....
Ellendale	0.70	0.70	0.70	1.55	2.08	1.14	3.91	6.32	3.34	0.74	T.	0.30	21.43
Fargo	0.83	0.45	0.42	1.34	2.78	0.56	2.62	4.61	5.61	2.49	0.10	0.10	21.91
Forman	0.75	0.71	0.32	2.22	2.95	2.99	5.72	4.51	2.30	0.90	0.05	0.10	23.52
Fort Yates	0.29	T.	0.41	1.00	1.33	2.08	1.75	5.15	2.00	0.56	0.17	0.26	15.00
Fullerton	0.88	1.38	1.17	3.04	2.06	1.62	4.64	4.27	3.08	1.06	0.10	0.73	24.03
Gallatin	0.93	0.06	0.90	1.21	1.85	0.40	1.22	.....	.....	.....	.....	.....	.....
Glenullin	0.91	0.34	0.30	0.47	3.79	2.69	.....	3.52	2.81	0.23	0.22	1.04	.....
Grafton	1.05	0.20	0.80	0.56	1.53	0.99	0.35	6.75	3.95	2.10	0.65	1.45	20.38
Hamilton	0.86	0.26	1.58	2.38	.....	.....	.....	6.31	3.88	1.45	0.86	1.67	.....
Hannaford	0.93	0.08	0.46	.....	.....	.....	.....	.....	.....	.....	.....	[1]0.12	.....
Jamestown	1.16	0.45	0.83	1.33	2.24	0.51	2.05	3.96	2.28	0.90	0.32	0.86	16.89
*Lamoure	.....	.....	.....	.....	1.40	1.48	3.12	4.58	2.56	0.89	.....	.....	.....
*Langdon	.....	.....	.....	0.68	3.02	.....	1.30	3.11	2.88	.....	.....	.....	.....
*Larimore	0.65	0.10	0.70	0.89	1.75	0.70	3.52	4.97	2.76	2.50	0.40	0.75	19.69
*Lisbon	.....	.....	.....	1.96	4.38	2.41	3.67	4.88	4.34	1.04	0.10	0.10	.....
McKinney	T.	0.60	.....	0.50	4.68	1.85	2.18	3.65	1.62	T.	0.45	0.32	.....
Manfred	.....	.....	.....	.....	.....	1.62	1.06	5.14	2.34	0.56	0.28	1.27	.....
Mayville	0.24	0.16	0.93	0.05	1.17	0.04	0.24	4.60	4.38	2.13	0.39	[4]0.51	14.84
Medora	0.85	0.20	0.35	0.15	1.07	2.32	1.62	4.93	.....	0.40	0.20	1.05	.....
Melville	0.34	T.	0.22	1.46	2.40	0.48	1.44	3.87	2.45	0.30	T.	0.65	13.61
Milton	0.44	0.20	0.40	1.01	2.04	1.65	1.01	4.76	2.55	1.63	.....	.....	.....
Minnewaukon	T.	T.	0.00	1.70	2.08	1.20	1.24	3.16	1.90	0.40	T.	1.50	13.18
Minot	0.20	T.	0.60	2.46	5.56	1.95	T.	5.05	3.95	0.90	T.	0.50	21.17
Minto	0.31	.....	1.19	0.88	1.53	0.65	2.16	4.78	3.31	2.01	0.30	0.89	.....
Napoleon	0.60	0.15	0.55	1.27	2.41	1.94	1.28	5.71	1.84	0.35	0.22	0.54	16.86
New England	0.25	0.50	0.20	0.55	3.92	1.25	1.70	3.90	[3]2.60	T.	0.25	0.70	15.82
Oakdale	1.45	0.60	0.45	0.58	7.83	2.26	4.59	4.00	1.91	0.40	0.40	1.55	26.02
Palermo	.....	.....	.....	.....	.....	.....	.....	.....	2.05	0.15	.....	.....	.....
*Pembina	0.53	0.16	0.66	1.41	3.42	2.54	1.87	4.09	4.48	0.95	0.65	0.88	21.64
Portal	0.30	0.50	0.70	1.25	4.77	3.13	3.08	5.40	1.72	0.10	0.90	1.60	23.45
Power	0.70	0.92	0.40	1.34	3.28	0.74	2.82	4.29	2.76	0.97	0.10	0.10	18.37
Steele	0.60	0.30	0.40	0.70	2.06	1.35	1.16	6.14	2.04	0.41	0.05	0.30	15.51
University	0.70	0.10	0.51	0.75	1.85	0.49	2.12	4.02	3.65	1.95	0.60	1.05	17.79
Valley City	0.88	0.22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wahpeton	0.09	0.60	0.48	2.55	2.27	.....	4.86	3.59	3.22	2.25	0.15	0.40	.....
*Williston	0.40	0.27	0.09	0.79	3.94	2.06	2.43	5.02	1.39	0.05	0.18	1.07	17.69
Willow City	.....	.....	0.20	0.53	4.04	1.98	1.06	3.92	3.38	0.52	0.40	1.30	.....
Wishek	.....	.....	.....	.....	1.87	2.05	2.65	4.99	2.30	0.10	0.30	0.66	.....
Woodbridge	.....	.....	0.55	0.51	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ohio.													
Akron	2.59	3.81	2.69	3.86	1.38	2.46	4.87	7.05	0.89	2.49	2.39	3.17	37.65
Annapolis	2.58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Atwater	2.25	4.01	4.20	4.37	1.67	.....	6.76	6.50	0.87	2.88	2.44	1.99	.....
Bangorville	2.75	4.35	4.50	4.57	3.18	3.85	2.92	2.94	3.17	2.92	2.75	2.76	40.66
*Bellefontaine	2.16	4.25	2.38	3.30	2.69	5.41	2.70	1.91	0.94	2.00	2.82	.....	.....
Bement	1.56	3.21	2.00	3.78	2.07	2.89	4.70	3.88	2.47	3.08	.....	.....	.....
Benton Ridge	1.89	5.18	1.94	5.95	3.04	2.45	4.37	.....	.....	.....	1.74	2.12	.....
Bethany	2.99	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bladensburg	3.68	4.89	3.70	4.56	2.70	.....	2.08	0.95	1.16	1.61	2.10	2.30	.....
Blaine	2.78	5.54	6.43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bloomingburg	2.26	4.16	5.06	3.60	4.73	4.23	1.18	1.07	1.94	.....	.....	.....	.....
Bowling Green	1.75	4.19	1.97	5.26	2.44	2.77	4.27	4.42	2.80	2.54	1.42	2.30	35.63
*Bucyrus	2.00	2.45	2.50	4.98	3.21	4.24	4.72	2.30	1.60	2.97	2.75	1.45	35.17
Cadiz	.....	.....	.....	.....	.....	.....	.....	.....	1.21	2.29	4.11	2.85	.....
Cambridge	2.69	5.45	5.33	5.34	2.70	4.26	3.05	2.02	0.33	2.95	2.49	2.15	38.76
Camp Dennison	2.50	6.38	5.63	3.13	5.77	3.40	2.79	2.28	1.56	1.70	1.80	1.81	39.75
*Canal Dover	2.56	4.99	4.44	3.20	2.99	4.21	2.49	3.02	0.34	2.91	2.20	2.74	36.09
*Canton	2.46	3.89	4.30	3.99	2.38	3.47	3.64	6.55	0.77	3.18	2.56	1.77	38.86
Cardington	2.34	3.54	2.97	3.69	2.07	3.69	2.81	1.82	1.69	2.12	2.08	1.85	30.67
Cedarville	2.68	4.78	4.10	3.46	3.57	3.23	1.62	0.69	0.97	2.33	.....	.....	.....
Centerburg	2.95	4.97	5.11	3.85	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Chillicothe	.....	.....	.....	4.28	3.53	2.69	2.35	1.05	1.00	.....	.....	.....	.....
*Cincinnati	2.05	5.76	4.97	3.49	3.83	3.27	2.31	2.75	1.78	1.31	1.45	1.72	34.69
*Circleville	2.57	6.21	3.35	3.63	3.25	3.92	2.02	0.91	0.98	1.80	1.83	1.46	31.93
Clarington	.....	5.60	5.00	4.70	2.65	4.50	4.80	1.40	0.86	2.79	1.66	3.00	.....
Clarksville	2.25	4.54	4.79	3.21	4.30	4.69	1.27	0.84	1.71	2.20	1.26	2.00	33.06
*Cleveland	1.88	3.84	2.10	3.85	1.46	3.17	5.23	4.13	2.46	3.48	1.91	1.90	35.41
Cleveland[1]	2.05	4.33	2.48	4.25	1.66	3.74	5.70	3.89	2.81	3.79	1.97	1.88	36.50
Cleveland[2]	1.45	3.04	1.69	3.86	1.22	2.53	5.08	3.41	2.41	3.61	1.45	1.36	31.11
Clifton	1.97	4.51	3.14	3.35	4.56	4.70	1.20	0.31	.....	2.27	1.97	1.63	.....
Coulton	2.69	6.56	6.10	3.21	5.01	3.50	1.95	1.27	0.67	2.73	1.66	1.69	37.04
Colebrook	.....	.....	2.96	4.19	1.72	.....	5.79	9.33	2.07	5.16	.....	.....	.....
*Columbus	2.11	4.44	4.13	2.47	2.18	3.07	2.05	0.67	1.46	1.84	2.01	1.71	28.14
Coolville	2.47	5.51	4.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coshocton	2.82	4.39	3.61	5.26	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Dayton[3]	2.90	4.55	3.15	3.03	4.99	6.66	1.76	1.00	0.45	1.75	1.88	1.43	33.53
*Dayton[4]	2.39	4.79	3.69	3.66	4.66	9.09	1.43	1.17	0.65	2.72	2.44	2.00	38.69
*Defiance	1.15	4.04	2.11	4.55	4.37	4.50	3.92	4.25	2.45	3.32	2.08	2.40	39.14
Delaware	2.47	4.08	3.54	3.41	1.73	4.97	2.04	2.40	3.17	2.56	2.19	2.21	34.77
Demos	2.20	4.80	5.84	4.03	3.06	.....	.....	.....	.....	.....	2.17	2.06	.....
Dunham	2.75	6.26	5.09	3.82	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunkirk	1.76	3.60	1.65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elyria	1.60	4.57	2.46	3.95	1.84	3.83	5.64	5.20	1.82	2.42	2.05	1.72	37.10
*Findlay	1.23	4.41	1.62	5.50	2.43	4.29	4.69	4.31	2.29	2.92	1.46	1.73	36.88
Frankfort	2.59	6.45	4.42	3.11	4.00	2.42	2.40	0.97	0.95	1.86	1.24	1.49	31.40
Fremont	1.22	6.05	2.05	4.80	4.13	4.88	6.53	4.91	1.80	2.58	2.53	2.56	44.04
Galigher	3.16	1.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[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 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio—Continued.													
Garrettsville	2.97	4.22	3.67	4.69	1.27	5.02	6.16	5.57	2.43	3.40	2.95	1.74	44.03
*Granville	2.66	5.27	4.15	3.94	3.56	2.71	2.07	1.50	0.99	2.44	2.47	3.04	34.80
Gratiot	2.71	6.21	3.67	3.66	2.93	3.22	2.07	0.88	1.40	2.22	2.69	2.60	34.26
Green	3.28	7.78	3.45	4.77	4.17	4.00	2.10	1.25	1.80	3.39	2.57	1.89	40.40
Greenfield	2.75	6.08	4.41	3.90	4.92	3.57	1.70	1.55	1.14	1.67	1.02	1.69	35.00
Greenhill	2.38	4.00	4.48	2.34	1.50	4.77	3.70	4.97	0.30	2.85	1.56	1.63	34.43
*Greenville	2.39	4.52	3.01	3.43	3.60	2.99	2.58	2.33	1.23	2.55	1.87	1.44	31.95
Hanging Rock	2.71	6.45	4.14	4.83	1.94	3.58	3.00	0.60	0.43	3.12	2.45	1.54	34.77
Hedges	1.15	4.14	2.30	5.87	3.19	4.51	4.51	4.32	1.57	3.37	1.40	2.33	38.66
Hillhouse	1.86	3.99	1.75	4.39	2.93	6.04	5.62	4.69	2.70	3.76	2.78	2.11	42.62
Hiram	2.22	4.21	3.58	4.79	1.32	4.21	5.27	4.62	1.44	3.82	2.46	1.46	39.40
Hudson	.....	4.00	2.65	4.10	1.32	.....	7.70	8.66	2.90	2.45	2.55	1.63	.....
Jacksonburg	3.22	6.58	3.82	2.87	4.55	3.88	2.39	3.43	0.54	2.13	2.02	2.28	37.66
Kenton	2.51	3.95	3.16	4.05	2.74	5.17	4.57	3.05	1.18	3.25	3.24	1.55	38.42
Killbuck	1.38	4.76	3.89	3.61	3.06	3.73	2.67	2.38	1.01	2.11	1.79	2.52	32.91
Lancaster	4.25	7.06	4.39	3.16	4.14	4.03	2.27	0.79	0.75	1.80	1.78	2.05	36.47
Lima	2.78	4.88	1.90	6.48	2.49	3.65	2.21	1.96	2.55	3.78	1.78	3.42	37.88
McConnelsville	2.59	4.60	4.85	4.13	2.86	3.27	3.74	1.04	0.28	2.65	1.94	2.08	33.98
McCormick	2.99	7.12	4.89	4.85	.....	.....	.....	.....	.....	.....	.....	.....	.....
Manara	2.76	6.31	5.00	3.47	3.98	.....	1.76	0.54	1.10	2.86	1.61	1.41	.....
*Mansfield	2.41	3.90	2.69	4.50	2.29	4.40	3.75	3.13	2.25	2.93	2.63	2.48	37.88
Marietta	3.17	7.17	5.15	4.20	4.48	4.68	3.33	2.25	1.34	2.47	1.83	1.89	41.96
Marion	3.11	3.78	2.60	3.51	1.99	5.35	2.35	2.29	3.00	2.81	1.86	2.31	34.46
Medina	2.31	4.11	2.26	4.51	1.53	4.37	6.20	4.66	1.34	2.95	2.61	1.55	38.40
Milfordton	3.54	6.07	4.46	4.16	4.38	2.37	2.19	1.29	2.58	1.97	2.51	3.46	38.98
Milligan	3.88	5.42	3.47	2.76	3.96	3.21	2.25	1.68	0.33	1.98	1.92	2.41	33.27
Millport	2.85	4.22	4.44	2.64	1.87	3.86	5.64	4.27	0.40	2.55	1.90	1.67	36.31
Montpelier	1.91	3.11	1.66	5.86	4.00	3.29	5.23	5.39	1.41	2.06	2.30	2.98	39.20
Napoleon	.....	.....	1.74	4.47	2.31	4.92	4.80	5.64	2.39	1.11	1.64	1.74	.....
New Alexandria	.....	7.50	4.70	3.40	1.90	4.10	4.70	2.55	0.66	2.40	3.84	3.07	.....
New Berlin	2.32	3.02	3.51	4.33	1.54	3.64	3.13	6.31	0.92	3.46	2.52	2.04	36.74
New Bremen	1.76	4.08	2.42	5.43	2.90	2.92	2.95	2.51	1.47	2.86	1.98	2.03	33.31
New Lexington	2.76	5.38	4.19	3.30	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Richmond	2.06	5.20	3.88	3.88	3.93	2.25	2.16	2.55	1.78	1.39	1.67	1.58	32.33
New Waterford	2.61	5.42	5.34	2.87	2.20	6.51	4.07	5.72	0.32	3.43	2.25	2.41	43.15
North Lewisburg	2.60	4.15	3.00	3.25	1.95	3.85	2.10	1.05	1.15	1.90	1.90	1.80	28.70
North Royalton	2.48	4.33	2.00	5.30	1.43	4.42	7.28	7.49	2.40	3.10	3.54	2.49	46.26
*Norwalk	3.02	5.32	2.62	4.18	1.98	3.34	5.94	3.52	1.82	2.81	1.64	2.63	38.82
Oberlin	1.89	4.38	2.33	5.63	1.99	3.43	5.97	5.07	1.27	3.06	2.48	1.67	39.17
Ohio State University	2.46	4.87	4.28	2.63	2.64	3.14	2.93	0.56	1.39	1.33	1.92	1.92	30.07
Orangeville	1.93	3.22	4.67	4.28	1.31	5.72	6.87	6.34	1.89	2.82	2.88	2.92	44.85
Ottawa	2.23	4.35	2.00	5.65	4.69	3.63	3.87	3.88	2.76	2.91	2.16	1.82	39.95
Pataskala	3.05	5.89	5.05	3.79	3.98	5.31	3.01	0.87	0.99	2.27	2.27	2.67	39.15
Philo	3.32	7.13	4.17	4.08	1.23	2.54	2.91	1.52	0.43	2.01	1.72	1.61	32.67
Plattsburg	2.77	4.40	3.69	2.98	3.90	5.47	1.38	0.33	1.47	1.86	2.89	2.73	33.87
*Pomeroy	1.64	6.27	4.09	4.15	2.76	4.49	2.75	1.86	0.75	5.47	2.82	2.67	39.72
*Portsmouth [1]	2.98	7.45	4.63	3.69	1.74	4.52	3.46	2.26	0.43	3.07	2.53	1.66	38.42
Portsmouth [2]	1.97	7.31	4.62	4.19	1.66	4.16	3.67	1.98	0.55	3.07	2.53	1.57	37.28
Pulse	3.01	6.39	3.57	3.10	4.04	2.54	1.31	1.42	1.98	1.36	1.38	1.93	32.03
Red Lion	1.91	5.68	2.61	2.66	.....	.....	.....	.....	.....	.....	.....	.....	.....
Richfield	3.20	4.57	2.61	4.74	.....	.....	.....	.....	.....	.....	.....	.....	.....
Richwood	1.92	4.20	2.62	.....	2.73	4.55	3.03	1.87	2.55	1.85	1.82	1.85	.....
Ripley	2.34	7.25	4.29	3.65	3.52	2.02	2.37	2.52	.....	.....	.....	.....	.....
Rittman	2.49	6.90	3.35	5.10	1.80	4.84	4.39	4.34	1.83	2.60	2.14	1.30	41.08
Rockyridge	1.39	4.43	2.07	4.37	1.81	4.11	4.19	8.42	3.14	3.02	1.60	2.11	40.66
*Sandusky	1.62	3.67	1.77	3.96	1.43	3.79	4.45	6.32	1.27	2.04	1.47	1.78	33.57
Shenandoah	1.81	3.36	2.56	5.45	2.67	3.80	4.59	2.48	1.48	2.77	1.77	1.63	34.37
*Sidney	2.51	4.45	2.63	2.97	3.27	3.00	2.49	2.43	1.58	3.07	1.85	2.01	32.26
*Somerset	.....	3.42	1.50	.....	3.51	3.82	3.53	1.37	0.80	2.57	2.17	1.17	.....
Springfield	2.10	4.47	3.01	2.78	3.60	5.22	2.29	0.49	1.39	2.91	1.74	2.19	32.19
Strongsville	1.47	.....	3.18	6.63	1.45	3.78	6.49	8.70	1.88	3.09	.....	.....	.....
Swanton	0.94	5.13	4.89	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Thurman	2.74	6.59	4.81	4.02	1.42	4.88	4.74	2.54	2.06	4.06	2.09	1.95	41.90
Tiffin	2.44	4.93	2.58	6.19	2.15	4.29	5.45	4.66	1.94	2.83	1.82	2.27	41.55
*Toledo	1.10	3.37	1.67	3.67	1.43	3.87	5.54	6.65	2.71	2.32	1.01	1.74	35.08
Upper Sandusky	2.40	4.20	3.02	4.60	3.78	.....	2.71	.....	.....	3.10	1.56	2.52	.....
Urbana	2.31	3.54	2.58	2.54	3.84	6.33	5.69	1.78	1.03	2.15	2.35	2.11	36.25
Vanwert	.....	.....	.....	.....	.....	.....	.....	.....	2.35	.....	.....	.....	.....
Vickery	1.52	4.19	1.79	4.79	1.68	3.32	5.48	7.14	1.58	2.71	2.02	1.90	38.12
Wadsworth	2.35	3.36	2.58	4.35	.....	.....	.....	.....	.....	.....	.....	.....	.....
Walnut	2.63	5.60	3.51	3.77	2.68	5.14	2.93	1.03	0.98	2.05	.....	.....	.....
Warren	2.84	4.51	4.03	2.59	1.23	4.09	5.24	3.94	0.86	1.51	2.71	2.43	35.98
Warsaw	2.75	5.13	4.41	4.45	2.27	4.35	1.44	0.97	1.34	2.11	2.15	2.38	33.75
*Wauseon	1.24	4.76	2.51	5.41	2.40	2.77	5.91	4.84	2.48	2.50	1.84	2.27	38.93
Waverly	2.75	7.75	4.59	3.64	6.35	2.94	1.98	1.35	1.22	2.81	1.70	1.95	39.03
Waynesville	1.85	4.93	5.19	2.98	4.36	7.89	2.01	.....	0.73	1.62	1.93	2.24	.....
Wellington	2.22	3.87	2.62	5.46	2.06	3.27	3.88	3.92	1.98	2.27	1.97	1.63	35.16
Williamstown	1.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willoughby	3.08	3.29	2.07	4.42	1.93	3.62	3.42	4.50	2.01	3.43	1.70	1.40	34.87
Wilson	.....	.....	.....	.....	.....	.....	.....	1.27	1.97	2.41	1.65	2.00	.....
Wooster	3.54	3.69	3.29	4.55	1.59	3.69	4.61	6.58	2.07	2.63	2.25	1.95	40.44
*Zanesville	3.44	5.82	4.49	2.98	2.46	3.07	3.50	1.10	0.28	2.22	2.35	1.91	33.62
Oklahoma.													
Arapaho	0.06	.....	.....	1.19	5.49	1.45	0.26	0.87	.....	.....	.....	T.	.....
Beaver	.....	.....	0.27	1.67	4.02	1.35	0.47	4.79	0.34	1.44	0.25	0.00	.....
Binger	.....	.....	.....	.....	.....	2.24	1.32	2.73	1.94	5.21	0.02	0.10	.....
Blackburn	0.59	4.77	4.38	2.78	17.29	2.75	2.77	5.80	.....	.....	.....	[3]0.94	.....
Busch	0.52	3.39	2.71	1.20	6.31	1.08	0.60	.....	.....	.....	.....	.....	.....
*Chandler	0.38	3.16	2.66	0.80	9.54	3.43	3.28	4.33	3.06	2.51	0.45	0.43	34.03

[1] River observer.

[2] Dr. H. A. Schirrmann.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oklahoma—Continued.													
Cleo	T.	3.61	1.15	1.45	6.13	2.64	2.37		1.57				
Cloudchief	0.40	3.84	1.05	3.40	8.67	1.05	0.25	1.37	1.49	0.48	0.03	0.00	22.03
Eldorado						2.13	2.81	0.40	1.13	0.30	0.00	0.00	
*Enid	T.	2.96	2.15	2.51	9.97	0.94	2.40	0.62	2.00	4.83	0.55	T.	28.93
Fort Reno	0.73	5.95	4.10	2.30	11.85	0.67	1.65	3.15	3.00	1.80	0.00	0.00	35.20
Fort Sill	0.35	4.65	2.22	0.20	2.53	2.17	0.00	3.96	2.20	0.40	0.00	0.00	18.68
Grand					5.16	2.73	0.66	0.33	1.50	1.00	0.00	0.00	
Guthrie	0.54	3.35	3.23	2.23	10.94	2.03	2.03	2.89	3.05	2.40	0.21	0.52	33.42
Hennessey	T.	4.48	2.22	1.45	8.26	2.33	1.23	0.99	0.96	3.13	0.33	0.08	25.46
Hobart				2.86	9.46	[1]1.07	0.55	1.24	1.68	1.03	T.	T.	
Jefferson	0.06	2.03		2.70	7.91	1.83	2.22	1.53	2.52		T.	0.25	
Jenkins	0.10	2.81	1.02	3.52	8.12	2.23	3.68	2.81	1.44	2.74	1.13	T.	29.60
Kenton	0.15	3.40	0.10	0.85	0.73	3.06	1.10	0.85	0.04	0.82	0.10	0.10	11.30
Kingfisher	0.25	4.05	2.83	0.58	7.29	1.84	1.50	1.60	1.79	1.25	0.77	T.	23.75
Leger						1.03	0.80	1.04					
McComb[1]	0.55	2.52	1.96	0.11	6.11	1.18	2.73	3.31	2.24	3.57	0.04	0.88	25.20
*Mangum	0.30	3.25	1.36	2.60	3.45	2.40	1.60	2.05	1.75	0.25	0.30	T.	19.31
Meeker[2]	0.39	2.86	3.28	0.38	11.47	4.19	1.85	2.07	2.58	3.77	0.75	0.80	34.39
Newkirk	0.12	0.56	2.38	2.21	8.87	1.26	1.43	5.59	2.34	5.51	0.55	T.	30.82
Norman Creek	0.56	2.55	2.22	0.25	4.62	1.90	1.88	2.24			T.	0.49	
Okeene				1.51	9.99	0.86	0.70	1.20		0.93	0.00	T.	
*Oklahoma	0.27	2.65	2.68	0.64	10.79	1.15	1.97	2.07	1.89	2.41	0.40	0.69	27.61
Pawhuska	0.32	4.35	5.05	2.00	10.57	1.50	2.18	5.77	0.90	6.15	1.20	0.70	40.69
Perry	0.29	3.50	2.58	0.73	8.37	1.12	1.99	2.64	3.13	4.28	0.81	0.04	29.48
Sac and Fox Agency	0.42	3.32	4.26	1.70	6.50	2.30	1.92	3.90	2.75	3.10	0.45	0.21	30.83
*Shawnee	0.62	3.13	2.12	0.23	7.71	5.66	3.29	5.21	2.40	3.42	0.57	0.72	35.08
*Stillwater	0.25	2.19	3.66	2.97	9.27	0.73	3.47	2.48	3.01	3.52	0.55	0.48	32.58
Taloga	T.	2.93	2.15	2.50	8.18	2.50	0.68	1.08	1.01	1.46	T.	0.00	22.49
Temple	0.47	4.86	1.38	0.13	3.54	2.16	0.05	2.25	1.08	0.64	T.	0.30	16.86
Watonga	0.01						2.36		2.05				
Waukomis	0.30	2.77	2.03	0.92	7.51	2.90	2.05	1.22	1.25	5.95	0.50	0.00	27.40
*Weatherford	0.17	2.97	0.84	2.10	7.99	2.01	0.17	0.80	0.79	1.50	0.14	T.	19.48
Woodward								[1]1.18	0.65	1.15	0.32		
Oregon.													
*Albany	6.94	1.92	2.92	2.31	1.67	1.15	0.62	0.63	1.12	1.44	11.02	1.91	33.65
Alpha	20.17	3.91	6.82	5.38	2.94	1.24	0.86	1.44	2.09	4.37	19.96	6.08	75.26
Arlington	1.00	0.00	0.61	0.37	0.45	1.61	T.	0.25	[2]0.30	0.32	3.13	0.42	8.46
Ashland	5.96	0.65	2.28	0.43	0.37	0.62	0.57	0.26	0.46	0.31	8.10	1.24	21.25
Astoria	14.52	3.18	9.48	6.16	5.44	3.73	0.98	0.96	1.81	7.25	12.45	8.85	74.81
Aurora (near)	6.32	1.54	3.06	3.14	2.73	1.83	0.80	0.93	1.07	2.14	10.47	2.72	36.75
*Baker City	1.15	0.31	0.86	0.09	0.49	1.29	0.21	0.87	1.06	1.14	2.42	0.68	10.57
Bay City	27.03	4.89	12.28	10.34	6.79	6.83	1.82	1.74	4.27	8.52	17.28	9.92	111.71
Bend	3.46	0.35	1.02	0.02	0.05	1.95	0.42	0.20	0.02	0.33	4.94	0.61	13.37
Beulah	2.36	0.20	1.36	0.00	0.11	0.72	0.18	0.36	T.	0.72	3.49	1.07	10.57
Blackbutte	11.10	1.60	6.30	3.30		0.73	0.30	0.70	1.80	3.20	13.60	2.60	
Blalock	1.23	0.08	0.34	0.24	T.	1.03	T.	0.11	0.20	0.31	3.06	0.62	7.22
Bullrun	11.92	2.88	4.87	5.80	5.15	4.33	1.93	2.04	4.95	5.55	12.07	6.97	68.46
Burns										0.84	3.53	0.74	
Burns (near)										0.29	3.74	0.83	
*Cascade Locks	17.28	2.47	3.89	3.84	2.52	4.63	0.68	0.47	4.50	7.39	16.21	8.36	72.24
Coquille	13.85	2.91	9.03	2.93	1.25	1.34	0.51	0.27	0.69	1.79	15.27	4.94	54.78
Corvallis	7.24	1.64	2.68	2.67	1.03	1.09	0.34	0.44	0.37	1.73	11.82	3.08	34.13
Coyote				0.18	0.22	1.41	0.04	2.12	0.40	0.30			
Dayville	0.76	0.64	1.16	0.84	1.00	0.94	0.13	0.36	0.42	0.56	3.44	0.87	10.62
Detroit							0.13	0.09	2.20	2.33	14.67	3.32	
Doraville	9.52	2.27	5.90	4.15	2.94	2.85	1.22	2.31	2.50	3.29	9.56	3.61	50.12
Drain	14.31	2.11	4.02	1.68	1.04	0.34	0.65	0.87	1.13	1.49	12.00	2.97	42.61
Ella	0.88	0.10	0.68	0.28	0.19	0.77	0.06	0.63	0.50	0.61	2.69	0.49	7.88
*Eugene	8.93	1.47	3.64	1.41	1.49	0.89	0.41	1.22	1.43	1.49	9.08	2.75	34.21
Fairview	15.82	3.20	6.41	5.86	2.82	1.13	0.85	0.90	1.11	2.41	15.54	4.91	60.06
Falls City	16.30	4.58	9.74	4.57	1.12	0.96	0.17	0.56	0.51	4.90	19.89	6.50	69.80
Forestgrove	9.59	2.37	5.89	2.70	1.57	1.24	0.22	0.99	0.34	2.95	11.75	3.72	43.13
Gardiner	19.73	3.28	9.58	5.55	2.78	2.31	0.82	1.57	1.73	1.57	16.76	6.99	72.67
Glenora	28.39	8.50	14.98	9.38	7.55	4.72	1.10	1.81	4.14	12.18	24.58	12.37	129.15
Gold Beach								0.65	0.94	3.19	22.32	6.49	
Government Camp	11.61	3.30	*3.71	5.12	5.46	3.56	3.08	2.54	6.35	7.79	15.04	6.30	73.86
Grants Pass	11.69	1.84	4.72	0.35	0.24	0.48	0.24	0.90	0.19	1.19	12.17	2.18	36.19
Grass Valley	1.95	T.	0.57	0.50	0.04	1.94	0.20	0.40	0.65	0.60	2.15		
Heppner	1.18	0.05	0.99	0.14	0.45								
Hood River (near)	8.94	1.33	2.50	0.62	0.29	1.29	0.07	0.31	0.89	3.01	7.74	2.73	30.22
Huntington	2.22	0.27	1.93	0.06	0.14	0.48	0.00	1.05	0.29	0.69	3.83	0.90	11.86
Jacksonville	10.83	1.69	4.64	0.25	0.31	0.75	0.38	0.47	0.55	0.73	10.64	1.53	32.77
Joseph	1.92	0.30	1.96	1.55	0.77	1.19	0.81	1.30	1.64	1.22	2.72	1.70	17.08
Kerby	23.06	3.99	9.79	1.06	0.39	0.43	0.00	0.46	0.39	2.69	20.80	6.43	69.49
Klamath Falls	8.90	T.	1.18	0.20		1.98	0.00					1.36	
Lagrande	2.72	0.16	0.79	0.17	1.30	2.77	0.60	0.98	1.82	1.82	3.01	1.32	17.46
Lakeview	3.59	1.14	1.93	0.48	0.53	1.23	0.46	0.32	0.06	0.44	4.94	0.99	16.11
Langlois					1.38	1.81	0.30	1.37	0.84	6.58	19.48	5.48	
Lonerock	1.59	0.40	1.61	0.64	0.68	2.45	0.49	0.70	1.33	0.80	4.07	1.00	15.76
McKenzie Bridge	15.00	3.95	5.88	3.18	2.97	2.31	0.77	1.64	3.02	4.13	15.34	6.34	64.53
McMinnville	9.39	1.87	3.69	2.84	0.91	1.70	0.48	*0.20	0.59	2.16	13.02	3.47	40.32
Monroe	11.84	2.67	4.96	1.82	0.70	1.18	0.12	1.24	0.68	1.85	13.23	3.30	43.59
Mount Angel	5.97	1.46	3.41	2.05	1.78	2.23	0.83	0.88	1.11	2.43	11.17	2.05	35.37
Nehalem	28.03	4.70	10.81	10.60	7.29	6.29	1.71	1.29	8.67	9.15	20.66	10.28	114.38
Newberg	7.02												
Newport	10.79	2.85	7.59	6.60	4.00	2.43	0.82	1.08	1.85	3.38	12.61	6.09	60.09
Pendleton	1.08	0.02	1.35	0.20	0.78	1.35	0.06						
Pine	*2.20	0.47		0.74	0.33	0.64	0.25	0.96	0.90	1.40	6.14	2.07	
Placer	8.07	2.24	4.50	1.25									

[1] Observations made at Burnett, 2 miles east of McComb, from January to July, inclusive.
[2] Name of post-office changed from Clifton.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oregon—Continued.													
*Portland	5.43	1.44	4.29	2.25	1.71	2.00	0.51	0.81	1.13	2.20	10.71	3.14	35.62
Princville		0.39					0.20	0.43	0.09	0.32	2.08	0.09	
Riverside	2.44	0.50	1.02	T.	0.40			0.52				0.15	
*Roseburg	9.58	1.73	3.40	0.80	0.65	0.74	0.40	0.30	0.54	0.79	9.11	1.46	29.50
*Salem	4.56	0.88	2.73	1.20	1.09	1.30	0.40	0.29	0.23	1.65	8.28	1.95	24.56
Silverlake	1.73	0.55	1.15		0.52	0.72							
Sparta	3.20	0.50	3.10	0.62	0.01	1.24	0.39	1.80	0.93	2.18	5.70	2.69	22.36
Stafford	9.74	1.79	3.84	3.66	2.11	1.82	1.09	0.67	1.04	2.48	14.06	3.61	45.91
*The Dalles	2.87	0.47	0.56	0.23	0.05	2.11	0.12	0.11	0.15	1.10	4.44	0.56	12.77
Toledo	13.08	3.70	7.59	6.54	2.46	1.75	0.43	1.24	2.21	3.52	14.45	8.07	65.04
*Umatilla	0.33	0.02	0.28	0.01	0.26	0.86	0.08	0.42	0.45	0.43	2.02	0.72	5.88
Vale	1.43	0.23	1.43	0.10	0.86	0.98	0.26	0.59	0.21	0.46	2.32	0.87	9.24
Wallowa			1.99	0.51	0.42	2.19	0.58	1.75	1.14	1.96	4.00	1.63	
Wamic	4.66	0.90	1.03	0.05	0.15	1.79	0.00	0.19	0.35	0.99	5.44	0.45	16.00
Warmspring	2.37	0.27	0.80	0.26	0.23	0.65	0.10	0.21	0.04	0.38	3.09	0.23	8.63
Weston	1.14	0.68	1.83	0.61	2.05	1.55	1.00	2.16	1.78	1.19	5.28	3.51	22.73
Williams	14.49	1.17	5.28	0.53	0.15	0.65	0.45	0.38	0.12	0.72	12.36	2.20	38.50
Pennsylvania.													
Aleppo	2.89	5.23	4.81	3.96	4.65	5.78	5.99	2.54	0.91	3.25	2.08	2.18	44.22
Altoona	3.84	4.59	4.38	2.99	2.63	4.34	4.51	5.08	1.93	3.36	1.82	1.50	40.97
Athens	2.60	2.54	4.33	2.38	2.00	5.42	3.57	5.79	1.71	5.91	2.40	1.42	40.07
Beaver Dam	2.95	3.45	4.34	2.52	0.63	5.74	4.29	7.61	1.35	2.07	4.46	1.77	41.18
Bellefonte	2.78	4.23	4.16	3.47	1.13	7.44	5.72	5.50	2.63	3.66	1.63	2.22	44.57
*Brookville	3.46	4.24	5.62	4.20	1.44	5.10	6.32	5.70	2.44	3.50	4.06	2.20	48.28
Browers	3.70	5.77	3.66	3.51	0.75	7.19	3.76	4.99	2.96	5.97	1.17	2.75	46.18
Butler	2.55	3.54	4.38	2.93	2.85	9.29	6.16	6.49	1.28	3.48	3.43	2.10	48.48
California	2.40	4.95	3.98	3.23	1.78	6.70	3.56	2.36	2.72	2.73	2.08	1.43	37.92
Cassandra	2.89	4.42	3.47	2.45	3.28	5.59	4.56	4.15	1.85	3.00	3.99	2.71	42.36
Centerhall		3.21	3.90	3.35	1.10	7.59	3.91	6.61	3.19	3.75	1.89	1.84	
*Clarion	4.31	3.96	5.66	3.34	2.10	6.00	5.18	6.76	1.48	3.22	4.12	2.07	48.20
Coatesville	4.60	5.29	3.60	4.38	2.18	5.80	5.55	4.94	1.90	6.22	1.26	4.16	49.88
*Confluence	4.82	1.98	3.06	3.66	3.16	3.74	5.90	3.22	1.64	2.64	2.91	1.54	38.27
Coudersport			4.25		1.06	4.50	5.58	4.71	1.92	4.30	3.94		
Davis Island Dam	2.70	3.75	4.99	2.55	1.32	6.25	4.14	5.37	1.10	2.90	2.46	0.92	38.44
Derry Station	2.81	4.86	4.02	3.91	1.64	5.04	5.92	5.19	1.63	3.02	2.72	1.62	42.38
Doylestown	4.45	6.12	4.98	4.27	0.56	5.42	6.30	4.82	3.33	8.15	1.34	4.31	54.05
Dushore	2.61	4.02	3.36	2.66	1.25	5.34	5.05	5.29	1.52	4.98	2.38	3.48	41.94
Dyberry	3.62	4.75	5.11										
East Bloomsburg	2.68	3.63	2.81	3.11	0.65	8.58		4.50	1.90	4.80	1.60	1.80	
East Mauch Chunk	4.21	5.93	5.50	4.40	0.55	7.99	7.01	5.29	1.90	6.26	1.26	4.03	54.33
Easton	4.13	4.23	4.44	4.38	0.77	9.15	6.65	5.42	1.43	7.96	1.34	3.62	53.52
*Ellwood Junction	1.50	3.54	4.50	2.16	4.12	6.28	6.24	4.10	1.06	2.58	2.02	2.18	40.28
Emporium	4.07	5.21	4.84	2.76	1.37	5.44	8.42	5.92	1.56	4.03	3.67	2.88	50.17
Ephrata	4.43	4.93	3.87	3.10	0.97	5.14	3.77	7.13	2.09	3.95	1.51	2.70	43.59
*Erie	1.49	3.59	2.82	3.81	3.20	4.50	3.57	3.28	1.50	3.70	1.87	2.25	35.58
Everett	3.41	5.00	4.07	3.71	2.24	8.67	7.02	4.72	2.50	2.90	1.33	1.15	46.72
Forks of Neshaminy	3.84	4.65	3.88	4.52	0.83	5.93	6.07	4.71	3.55	7.73	1.08	3.67	50.46
Franklin	2.00	4.33		3.77	1.98	7.65	6.98	6.02		2.77	2.51	2.07	
*Freeport	3.37	4.75	4.95	2.70	2.22	4.80	3.65	6.07	1.08	3.05	2.91	2.56	42.10
Gettysburg						6.47	4.48	7.08	2.26	2.86	1.06	2.16	
Girardville	4.28	5.86	4.72	4.23	2.28	7.95	6.19	5.15	3.05	6.75	1.87	4.83	57.16
Gordon							6.48	5.47	2.52	5.36	1.50	4.78	
Grampian		4.64	4.89	3.72	2.51	4.98	5.15	4.94	1.98	4.55			
*Greensboro	1.52	5.31	4.32	4.93	3.02	5.94	5.56	4.04	1.36	3.18	1.89	1.12	42.19
Greenville	2.75	5.42	5.10	4.11	2.09	7.21	7.32	4.73	1.48	4.10	2.78	2.87	49.96
Hamburg	3.73	5.77	4.54	4.02	0.32	4.96	8.21	5.34	1.45	8.42	1.60	3.37	51.73
Hamlinton	1.75	2.99	5.34	3.49	1.03	9.07	6.20	7.85	1.61	8.14	1.55		
*Harrisburg	3.67	4.19	3.76	3.24	0.46	5.63	1.76	5.82	1.95	2.62	0.88	1.92	35.90
Hawthorn				3.48	1.99	5.95	5.05	6.17	2.68		3.00		
Herrs Island Dam	2.62	3.71	5.12	3.15	1.82	4.88	3.71	4.65	1.10	2.67	2.98	1.57	37.98
Huntingdon[1]	4.10	4.98	3.94	2.94	1.60	5.75	4.52	5.34	2.99	3.57	1.80	1.36	42.69
Huntingdon[2]	3.80	5.38	4.13	3.04	1.76	6.32	4.84	6.43	3.02	3.64	1.83	1.40	45.59
Indiana		3.55	4.40			2.82	5.36	5.15	1.17	3.96	2.71		
Irwin	2.35		5.05	3.42	1.16	6.66	3.73	6.36	1.60	3.36	2.64	1.72	
*Johnstown	4.53	6.80	3.72	4.08	2.86	7.69	4.97	7.21	1.83	3.89	3.02	2.42	51.52
Keating		3.79	4.67	3.03	1.70	6.50	6.00	5.57	2.46	2.56		1.29	
Kennett Square	[4]4.07	5.21	3.89	3.99	3.21	8.13	4.84	5.08	2.83	6.14	1.17	4.38	52.94
Lansdale	2.37	4.80	3.08	3.01	0.62	5.57	4.02	3.86	1.63	7.53	1.42	4.04	41.95
Lawrenceville	2.62	2.33	4.67	2.67	1.65	8.60	5.60	5.31	1.99	5.10	2.85	1.92	45.31
Lebanon	4.68	5.95	4.65	3.67	0.94	6.08	3.94	7.28	2.55	4.48	1.28	3.15	48.65
Leroy	2.95	3.00	4.37	2.97	2.00	5.13	4.17	4.40	1.57	5.08	2.76	2.60	41.00
Lewisburg	3.95	4.85	3.32	4.34	2.40	8.02	5.73	5.21	2.21	3.47	1.69	2.00	47.19
Lockhaven[3]	3.73	2.99	3.97	2.81	1.69	7.44	5.34	6.37	3.20	3.76	1.67	2.37	45.84
*Lockhaven[1]	3.78	3.40	4.06	2.72	1.56	6.43	4.63	6.38	2.46	2.88	2.58	1.52	42.40
*Lock No. 4	2.77	4.49	4.72	3.01	2.80	6.83	4.59	2.00	2.88	2.91	2.06	1.67	40.68
Lycippus	3.48	4.80	3.42	2.43	1.56	4.55	5.00	3.75	1.58	2.34	2.73	2.48	37.57
Marion						5.02	5.54	6.02	1.52	3.17	1.57	1.81	
Mifflin	3.54	4.45	3.71	3.59	1.31	7.26	4.32	7.11	2.44	2.54	0.45	3.40	44.12
Mifflintown						5.74	3.39	6.24	2.36	3.65	1.24	1.45	
Milford	1.82	5.41	4.42	3.17	0.66	11.33	4.80	7.08	1.25	10.53	1.58	3.51	55.61
Montrose									2.27	6.20	3.04	2.64	
New Germantown								5.53	3.42	4.12	1.17	1.92	
*Oil City	3.82	5.07	5.06	3.44	2.62	7.06	7.04	4.32	2.04	2.92	2.67	2.82	48.90
Ottsville	3.05	5.11	3.98	4.11	1.01	7.86	8.11	5.08	2.47	6.80	1.65	4.64	53.87
*Parker	3.38	5.16	5.52	3.40	3.02	6.23	5.22	4.80	2.62	2.48	3.92	1.80	47.60
*Philadelphia	3.62	4.29	4.38	3.00	0.93	5.48	3.84	5.57	2.31	3.86	1.08	3.29	41.50
Philadelphia[4]	4.28	4.58	4.93	4.50	2.08	5.91	5.52	5.40	3.49	7.22	1.20	3.67	52.78
*Pittsburg	2.33	3.99	4.29	2.82	1.67	5.27	5.66	4.71	1.04	2.88	2.60	1.55	38.81
Pocono Lake	1.83	3.97	5.58		0.82	7.03	5.90	6.53	2.97	8.03	1.85	3.83	
Point Pleasant	4.11	5.03	4.55	4.59	0.34	8.00	7.02	5.07	2.68	9.70	1.37	4.46	56.92

[1] River observer. [2] Prof. W. J. Swigart. [3] Prof. J. A. Robb. [4] Jno. Comly.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Pennsylvania—Continued.													
Pottsville	4.04	5.52	5.81	4.77	0.46	7.23	8.81	5.16	2.76	4.85	1.21	3.54	54.16
Quakertown	4.55	5.08	4.02	4.57	0.09	9.23	5.67	4.61	1.34	7.82	1.38	3.12	52.08
Reading	4.60	5.59	4.42	4.62	0.70	6.20	5.12	7.01	2.84	4.44	1.59	3.94	51.07
Renovo[1]	3.02	3.89	4.59	3.05	.....	.....	4.48	5.41	2.01	.....	3.74	1.97	.....
Renovo[2]	2.78	3.60	4.45	2.77	1.76	6.07	4.70	5.47	2.10	3.60	3.64	1.56	42.50
Saegerstown	2.88	4.58	4.44	3.44	2.71	4.85	5.54	8.05	1.48	5.07	2.98	2.61	48.63
St. Marys	2.87	3.50	2.50	3.90	1.90	4.90	7.20	4.56	2.34	3.70	5.33	3.35	46.05
*Saltsburg	3.00	4.04	3.97	3.42	1.15	4.78	.....	3.77	3.88	2.90	2.67	1.92	.....
*Scranton	2.73	3.54	4.40	2.55	0.96	7.73	4.89	6.03	1.27	6.42	1.86	2.59	44.97
Seisholtzville	5.09	5.56	4.74	4.84	0.22	7.40	3.87	4.94	2.05	8.13	1.59	4.52	52.95
*Selinsgrove	4.20	4.84	3.29	4.39	1.28	7.57	4.39	4.91	3.01	3.72	1.53	3.98	47.11
Shawmont	3.99	4.45	4.16	3.81	0.63	4.89	5.83	3.84	2.99	6.25	1.01	4.11	45.96
Smethport	4.20	4.90	4.00	2.49	2.70	.....	.....	6.14	3.40	3.11	3.23	1.61	.....
Smiths Corners	4.02	4.37	4.59	4.71	0.22	7.26	6.76	5.16	2.93	9.18	1.45	3.50	54.15
Somerset	4.13	5.16	4.84	4.52	2.12	7.25	4.80	3.93	1.30	2.99	1.62	2.54	45.20
South Bethlehem	5.03	5.49	4.87	4.59	0.45	11.76	7.85	4.88	.....	.....	.....	.....	.....
South Eaton	2.78	4.53	4.83	3.29	1.31	6.74	3.86	6.19	1.93	5.23	2.09	3.85	46.63
Spring Mount	4.29	5.16	3.53	3.67	1.26	6.99	4.77	4.59	1.66	5.99	1.21	2.70	45.82
State College	3.50	3.61	4.18	3.81	1.24	7.28	4.04	6.85	2.61	3.51	1.89	1.67	44.19
Sunbury	.....	.....	4.10	4.26	0.44	5.85	3.35	2.72	.....	1.44	0.50	2.15	.....
Swarthmore	.....	4.57	4.62	3.71	0.70	5.27	5.14	7.54	2.72	5.78	1.12	3.70	.....
*Towanda	2.62	2.73	3.83	2.37	0.89	5.05	4.85	4.63	1.24	4.98	2.66	2.42	38.27
Troutrun	1.59	3.53	5.56	4.28	1.64	9.73	5.73	5.29	.....	4.65	3.48	2.59	.....
Uniontown	1.68	4.73	3.84	3.56	2.56	6.03	4.32	3.25	1.21	2.92	2.15	1.81	38.05
*Warren	2.55	1.80	4.09	3.24	3.68	4.28	6.06	4.46	2.32	3.66	2.71	2.00	40.85
Wellsboro	1.86	3.55	5.19	2.76	2.12	4.87	5.27	3.37	1.10	5.68	2.42	1.35	39.54
Westchester	4.91	4.66	4.09	4.53	2.76	7.75	5.92	6.16	2.78	6.06	1.40	4.19	55.21
*West Newton	3.52	5.67	4.80	3.03	1.90	6.48	6.06	3.95	1.74	3.15	2.30	2.36	44.96
*Wilkesbarre	2.09	4.13	4.33	3.07	1.12	8.38	4.42	7.13	2.16	4.88	1.98	3.06	46.75
Williamsport	3.95	3.24	3.96	3.67	1.88	5.49	6.08	5.05	1.43	4.22	2.33	2.85	44.15
Windber	.....	.....	.....	.....	.....	.....	6.46	6.60	2.20	4.04	2.95	.....	.....
York	4.67	6.18	4.72	3.21	1.18	6.21	4.26	6.96	2.72	3.51	1.89	2.90	48.36
Rhode Island.													
*Block Island	4.42	4.61	8.03	5.61	0.86	4.82	1.90	4.33	1.15	2.66	2.77	2.45	43.61
Bristol	4.75	5.38	6.90	4.43	1.69	6.08	2.08	3.52	0.84	2.91	1.98	3.06	43.64
Kingston	5.50	7.04	9.19	6.91	0.70	6.55	3.59	6.55	0.75	3.05	2.50	3.77	56.10
*Narragansett	4.27	5.19	8.95	6.05	0.80	6.22	2.29	4.55	0.84	2.41	2.31	3.56	47.44
Pawtucket	4.86	6.03	6.28	3.79	0.43	6.34	4.68	4.15	0.91	3.68	1.60	3.85	46.60
Providence[3]	4.98	5.64	8.17	4.01	0.58	6.64	4.75	3.92	1.00	2.89	1.77	3.56	47.91
Providence[4]	4.82	6.42	8.38	3.66	0.57	6.68	4.61	4.24	1.14	3.09	1.84	3.33	48.78
South Carolina.													
Aiken	3.10	8.55	.....	.....	.....	.....	.....	.....	.....	.....	2.90	2.06	.....
*Allendale	5.99	7.56	7.90	2.60	5.21	8.14	7.46	4.83	6.19	2.24	1.11	1.47	60.70
Anderson	4.20	8.40	5.65	3.10	2.56	7.16	2.72	5.34	0.90	1.38	1.57	1.89	44.87
Barksdale	3.55	11.10	6.80	4.74	.....	9.58	2.14	.....	.....	.....	.....	0.57	.....
*Batesburg	4.78	11.10	11.14	3.31	3.27	8.63	3.06	7.80	4.26	2.66	3.17	2.73	65.91
Beaufort	4.82	5.48	6.31	0.85	11.97	6.89	3.45	6.57	6.26	1.98	1.64	2.05	58.27
Bennettsville	2.66	8.35	4.63	8.92	1.34	6.99	5.15	4.52	1.70	3.31	0.30	1.90	44.77
*Blackville	3.07	3.78	3.47	4.29	5.18	7.84	1.77	5.89	3.97	2.16	1.65	2.31	45.38
Bowman	5.03	3.74	1.58	2.04	2.63	9.64	8.09	7.43	5.04	3.35	0.74	2.19	51.45
*Calhoun Falls	2.53	9.27	6.93	1.82	1.74	7.77	3.61	1.10	2.19	0.86	0.46	1.41	39.69
*Camden	2.84	7.87	6.44	.....	3.50	9.55	3.46	7.77	4.21	3.49	1.42	1.91	.....
*Charleston	5.17	2.07	3.44	0.96	4.85	4.64	3.23	10.83	2.36	2.30	1.20	1.81	42.86
*Cheraw[5]	2.53	8.06	5.01	2.97	2.85	7.91	3.72	9.00	5.07	3.41	0.63	2.16	53.32
*Cheraw[2]	2.55	7.61	5.40	3.78	2.99	7.78	3.97	7.97	5.12	3.14	0.61	2.22	53.14
Clarks Hill	3.15	9.20	7.31	2.08	2.69	5.67	2.64	3.05	3.28	2.52	2.22	1.98	45.79
Clemson College	5.21	12.48	8.21	4.17	0.60	4.01	2.26	4.41	1.88	1.60	2.43	2.10	49.36
*Columbia	3.06	7.30	3.90	3.11	2.39	9.97	2.94	9.47	2.68	1.94	1.36	1.70	49.82
*Conway	4.24	3.75	5.89	2.50	1.60	4.74	2.25	8.42	5.76	3.34	0.91	3.36	46.45
Darlington	3.95	8.54	3.80	2.63	2.74	8.04	4.18	10.01	1.93	4.68	0.88	2.09	53.47
Duewest	3.22	7.84	7.01	1.70	1.43	3.95	8.14	3.15	0.60	0.97	.....	1.72	.....
*Edisto	3.86	5.39	4.59	3.03	1.91	12.77	6.05	8.16	3.47	2.30	0.90	.....	.....
*Effingham	5.50	5.38	6.28	3.97	2.90	7.60	3.41	7.20	3.13	3.80	1.42	2.63	53.22
*Florence	4.24	6.85	8.74	3.28	1.45	5.78	5.27	5.92	4.30	4.51	0.89	2.32	53.50
*Gaffney	4.96	9.02	9.42	3.61	1.73	6.92	1.47	3.30	0.85	1.50	1.08	1.45	45.31
Georgetown	7.10	4.50	6.00	.....	2.75	.....	.....	.....	2.50	3.00	T.	5.10	.....
Gillisonville	3.58	3.74	4.08	0.95	4.72	6.12	8.54	6.24	9.39	1.84	1.83	1.69	52.72
*Greenville	4.94	11.59	7.35	4.47	1.13	9.06	4.04	4.05	2.16	1.39	1.95	2.32	54.45
*Greenwood	3.94	9.26	6.46	2.01	2.81	4.84	1.70	7.46	1.44	2.11	1.23	1.14	44.40
Heath Springs	4.00	8.08	5.38	4.54	1.14	10.19	1.82	12.15	2.81	2.61	0.83	1.70	55.25
*Kingstree[6]	3.28	4.99	5.74	2.64	1.35	9.55	2.94	8.64	3.42	3.89	0.45	2.49	49.38
*Kingstree[2]	3.02	5.02	5.80	2.32	1.33	9.53	2.92	8.60	3.46	3.90	0.45	2.37	48.72
Liberty	5.10	10.73	7.56	5.55	0.25	4.93	2.33	4.74	2.51	1.66	2.28	2.27	49.91
Little Mountain	3.29	10.27	8.73	3.04	2.05	8.61	2.50	6.55	1.79	2.46	0.89	1.91	52.09
Longshore	3.11	10.87	8.03	2.85	2.51	9.12	3.44	8.56	1.10	2.39	2.21	1.41	55.10
Lugoff	.....	.....	.....	.....	1.64	9.72	1.88	7.01	4.35	4.29	1.21	1.91	.....
Pinopolis	4.39	5.64	3.71	.....	5.45	6.83	4.43	.....	.....	3.73	2.90	8.41	.....
*St. Georges	4.32	3.07	4.70	1.97	2.17	8.62	3.74	5.93	2.96	2.16	1.75	2.71	44.10
*St. Matthews	4.61	4.79	3.67	6.02	3.79	18.25	8.07	8.63	3.00	2.95	1.39	2.71	67.88
*St. Stephens	3.91	4.64	5.53	1.68	2.50	8.41	4.25	12.83	4.76	4.03	0.96	2.95	56.45
Saluda	2.58	9.23	*6.80	2.23	3.19	8.28	1.64	5.93	2.19	1.71	1.81	1.80	47.39
Santuck	3.46	7.75	8.19	4.75	2.30	6.97	2.75	3.95	4.86	3.02	1.22	1.60	50.82
Seivern	4.01	7.25	8.19	4.29	3.68	11.11	1.51	5.91	2.07	1.75	1.30	2.28	48.35
*Smiths Mills	3.55	8.53	6.17	3.00	2.20	6.09	6.69	8.30	3.04	3.55	0.86	3.48	50.46
Societyhill	2.59	8.24	3.37	3.69	1.81	8.56	5.88	7.59	1.77	3.56	0.42	2.08	49.58
*Spartanburg	5.04	9.03	8.68	4.43	1.59	9.96	2.17	4.64	2.25	1.05	1.82	1.82	52.48
Statesburg	2.86	7.28	4.25	2.99	1.67	18.42	3.63	7.52	4.79	3.01	1.55	2.02	59.99

[1] F. C. Eyster.
[2] River observer.
[3] City engineer.
[4] Ladd Observatory.
[5] Cotton-region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Carolina—Continued.													
Summerville	4.90	4.31	3.09	2.65	5.78	7.37	3.13	7.59	4.75	3.36	1.91	2.60	51.44
Sumter	.....	4.65	4.10	1.98	1.20	14.33	4.90	6.64	4.82	.....	.....	.....	.....
Temperance	3.98	5.66	7.05	2.39	0.44	6.52	5.18	9.96	.....	.....	.....	.....	.....
Trenton	3.09	9.66	7.57	2.59	2.47	6.12	1.81	5.44	3.30	2.30	1.60	2.37	48.32
Trial	5.92	5.57	4.40	2.23	2.04	5.47	4.37	10.99	3.17	2.97	1.02	3.08	51.23
Walhalla	2.40	7.20	.....	.....	.....	.....	2.41	7.10	5.69	2.35	1.60	2.92	.....
Walterboro	.....	.....	.....	.....	3.74	7.14	5.82	7.17	7.42	2.78	2.15	2.40	.....
Winnsboro	3.49	8.50	6.56	2.54	1.09	10.17	2.12	3.36	2.03	2.24	1.36	1.34	44.80
Winthrop College	3.35	7.61	7.38	3.02	0.65	6.92	0.95	4.37	3.51	2.61	1.26	1.93	43.56
*Yemassee	3.78	3.14	4.97	1.90	4.50	10.86	5.68	10.58	9.43	2.19	2.91	2.26	62.20
Yorkville	3.00	6.86	9.18	3.68	1.70	5.96	1.23	5.82	2.97	2.68	0.91	2.17	46.16
South Dakota.													
*Aberdeen	0.40	1.80	1.42	2.40	1.28	1.50	5.10	6.59	3.46	1.46	0.20	1.86	27.47
Academy	0.08	0.75	1.23	1.59	2.71	2.72	5.08	2.88	1.61	0.33	0.59	0.85	20.42
Alexandria	T.	0.95	1.25	0.72	4.48	2.25	4.10	1.93	4.25	1.88	0.45	0.85	23.11
Armour	0.10	1.25	2.06	1.65	5.03	2.89	3.56	3.29	2.68	1.38	0.70	0.40	24.99
Ashcroft	0.53	0.40	0.50	0.72	2.01	2.15	1.88	1.95	1.54	0.33	0.60	0.60	13.21
Bowdle	0.20	0.25	0.20	1.10	1.15	2.65	4.32	4.45	2.42	.....	0.30	0.60	.....
Brookings	0.10	0.28	1.87	1.00	4.53	4.16	3.30	4.25	2.73	1.85	0.10	0.45	24.62
Canton	T.	0.34	2.31	1.26	10.02	2.38	6.66	6.07	1.47	1.79	0.31	0.28	32.89
Cavite	.....	.....	1.00	.....	1.13	2.51	2.56	1.55	.....	.....	.....	.....	.....
Centerville	0.27	1.52	2.28	1.14	7.86	5.23	7.19	3.92	1.76	1.43	0.42	0.71	33.68
Chamberlain	0.04	0.77	0.58	1.41	1.18	1.45	2.61	2.06	2.26	0.18	0.71	0.53	13.78
Clark	0.80	0.30	1.25	.....	.....	4.52	2.74	5.74	2.92	1.10	0.36	1.14	.....
Clear Lake	.....	.....	.....	.....	.....	.....	5.42	5.48	3.25	2.37	0.05	1.05	.....
Desmet	.....	.....	.....	1.20	4.92	5.79	3.19	3.94	.....	.....	.....	.....	.....
Doland	0.37	0.43	1.46	2.61	4.20	8.51	3.46	2.76	4.29	1.32	0.19	0.99	30.59
Elkpoint	0.27	2.07	1.75	1.82	8.09	4.04	4.48	4.99	2.33	3.90	1.57	0.22	35.53
Fairfax	.....	.....	0.00	2.18	5.86	2.77	5.81	3.58	0.48	0.98	0.40	.....	.....
Farmingdale	0.12	0.24	0.49	1.89	3.31	2.02	3.02	2.82	2.29	0.46	T.	0.46	17.12
Faulkton	0.11	0.63	0.97	1.75	0.91	4.04	2.50	2.88	2.31	0.41	0.48	0.37	17.36
Flandreau	0.13	0.32	1.51	0.92	5.39	3.00	4.68	4.30	4.90	3.30	0.38	0.52	29.35
Forestburg	0.35	0.53	1.55	1.43	3.43	1.96	3.05	1.08	2.81	1.25	0.87	0.92	19.23
Fort Meade	0.50	0.90	1.70	2.55	3.86	2.16	4.25	3.56	2.90	0.40	0.80	0.81	23.89
Gannvalley	0.50	1.35	0.80	1.02	1.26	1.59	3.45	2.32	1.72	0.38	0.84	0.55	15.78
Gary	.....	.....	2.26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gettysburg	0.17	0.25	.....	1.12	1.47	3.04	6.00	4.02	5.07	0.90	0.15	1.71	.....
Grand River School	0.28	0.01	0.27	1.35	1.32	4.55	2.53	6.53	1.87	0.68	0.03	0.15	19.67
Greenwood	0.17	1.07	0.86	0.82	6.02	2.36	6.54	3.09	2.04	1.72	0.66	0.31	25.66
Highmore	0.05	0.30	0.87	0.70	0.85	2.93	3.58	2.40	1.46	0.66	0.65	0.63	15.08
Hitchcock	.....	.....	.....	.....	1.15	4.02	2.55	.....	.....	.....	.....	.....	.....
Hotch City	T.	0.39	0.36	2.88	0.87	2.10	2.41	1.04	1.66	0.19	0.39	0.34	12.63
Howard	.....	§0.20	1.21	1.01	4.92	4.60	5.08	3.90	3.95	3.59	0.70	1.08	.....
Howell	0.06	0.58	1.10	1.86	0.79	2.84	2.85	2.26	1.94	0.51	0.26	0.27	15.32
*Huron	0.08	0.31	1.02	1.26	1.99	2.54	1.61	1.09	2.62	0.34	0.37	0.60	13.83
Interior	.....	.....	0.40	2.00	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ipswich	0.08	0.88	0.40	1.63	1.45	.....	2.95	6.03	5.02	0.72	0.02	0.59	.....
Kidder	.....	.....	.....	.....	.....	.....	.....	.....	3.86	0.82	0.02	0.30	.....
Kimball	0.36	0.40	1.23	1.20	2.34	1.73	4.29	1.76	1.36	0.37	0.77	0.85	16.66
Leola	0.20	0.60	0.50	1.45	2.25	1.25	1.29	7.58	4.75	0.87	0.05	0.30	21.09
Leslie	0.05	0.05	0.65	1.02	2.44	4.09	3.86	3.12	1.57	0.24	0.43	0.80	17.82
Marion	T.	1.01	1.78	1.33	8.74	5.12	4.35	4.42	2.88	3.04	0.24	0.44	33.35
Mellette	0.22	0.40	0.32	2.29	1.90	3.31	2.76	4.32	2.31	0.47	0.14	0.56	19.00
Menno	0.18	0.71	1.65	0.73	7.46	3.65	4.26	2.10	3.33	1.59	0.39	0.50	26.55
*Millbank	0.55	0.30	1.23	1.84	4.09	2.80	7.50	3.66	5.04	.....	.....	.....	.....
*Mitchell	0.40	0.70	0.99	1.10	4.39	2.38	5.77	1.39	3.81	1.97	0.27	0.95	24.12
Oelrichs	0.60	0.65	1.25	2.35	5.25	1.00	3.15	1.05	1.75	1.07	0.20	0.25	18.57
Pedro	T.	0.10	0.43	0.87	2.21	2.30	5.65	2.65	1.81	0.68	0.18	0.29	17.17
*Pierre	0.26	0.36	1.03	1.65	1.72	2.14	4.99	3.98	1.97	0.25	0.52	0.66	19.53
Pine Ridge	0.42	0.19	0.20	1.64	4.72	1.41	4.48	.....	1.59	0.73	0.07	0.09	.....
Plankinton	0.15	0.39	0.87	1.64	3.12	2.88	5.38	3.06	2.17	0.80	0.29	0.85	21.60
Ramsey	T.	0.25	1.25	1.05	7.00	5.03	4.44	1.92	3.12	2.01	0.30	0.70	27.07
*Rapid City	0.23	0.47	1.10	3.51	2.94	3.79	3.37	2.47	2.79	0.30	T.	0.31	21.28
*Redfield	0.04	0.83	1.44	2.97	0.98	4.17	5.09	2.04	2.02	0.83	0.16	0.27	20.84
Rosebud	0.20	0.50	0.53	2.10	2.41	1.17	.....	.....	.....	0.15	0.45	1.35	.....
St. Lawrence	.....	.....	.....	.....	.....	1.90	3.09	2.38	.....	.....	.....	.....	.....
Silver City	0.25	0.60	1.82	4.49	4.07	6.39	3.52	1.83	2.13	0.45	0.36	1.30	27.21
Sioux Falls	0.20	0.47	2.13	1.12	7.43	3.01	6.00	5.13	1.96	2.76	‡0.13	0.56	30.90
Sisseton Agency	0.69	0.24	0.74	2.40	2.21	3.68	8.35	2.92	6.19	1.51	T.	0.23	29.16
Spearfish	0.52	0.85	3.98	5.56	3.08	2.28	2.99	3.73	3.88	0.39	0.65	1.50	29.41
Stephan	.....	.....	.....	.....	.....	.....	.....	.....	‡1.33	0.17	0.50	0.68	.....
Tyndall	0.18	1.10	0.70	1.82	11.47	2.33	4.91	4.29	2.36	2.01	0.52	1.22	32.91
Vermilion	T.	1.06	2.36	2.33	9.85	3.89	4.70	5.44	2.40	.....	.....	.....	.....
Watertown	0.15	0.12	0.53	1.20	3.73	2.26	3.25	5.71	4.52	1.91	0.14	0.43	23.95
Waubay	0.28	0.15	0.95	1.33	3.75	4.63	6.52	.....	.....	.....	.....	.....	.....
Wentworth	0.67	0.43	1.29	0.72	5.12	2.80	5.46	3.48	3.19	1.86	0.33	0.88	26.22
Wolsey	0.15	0.25	1.18	1.53	1.90	1.66	2.55	1.23	2.04	0.70	0.47	0.95	14.61
*Yankton	0.17	2.58	2.13	1.65	7.60	3.35	4.88	4.98	1.74	1.23	0.70	0.37	31.38
Tennessee.													
Andersonville	2.40	9.88	7.91	6.65	2.33	5.71	6.08	4.77	0.10	3.50	4.95	2.40	56.68
*Arlington	.....	.....	.....	3.13	7.47	1.26	1.76	4.31	0.55	0.75	.....	.....	.....
Ashwood	3.22	5.27	5.74	2.23	4.33	5.02	3.90	.....	0.50	0.68	4.63	3.47	.....
Benton	2.93	10.39	8.74	5.89	2.44	9.43	6.19	3.79	0.77	2.80	4.15	.....	.....
*Bluff City	1.55	6.07	4.56	5.18	0.86	1.84	3.85	5.30	0.31	1.37	3.25	1.64	35.78
*Bolivar	3.20	5.64	3.66	2.85	7.94	0.99	1.51	3.74	0.45	1.35	3.27	4.72	39.32
Bristol	2.86	6.32	4.12	5.14	1.00	1.70	7.92	1.55	0.55	1.45	3.65	1.75	38.01
*Brownsville	.....	.....	.....	.....	5.63	1.43	.....	4.53	2.00	1.45	.....	.....	.....
Byrdstown	2.95	8.17	6.91	5.97	4.05	5.03	3.16	3.21	0.68	3.05	4.51	4.12	51.81
*Carthage	2.71	6.71	6.73	5.41	4.57	6.96	1.76	4.05	0.41	1.97	4.54	4.00	49.82

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Tennessee—Continued.													
*Catlettsburg	.....	3.96	8.06	7.89	3.74	.....	.....	.....	.....	.....	.....	2.03	.....
*Celina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.01	.....
*Charleston	3.02	9.65	8.66	6.95	.....	.....	4.00	4.06	0.12	3.14	3.46	2.04	.....
*Chattanooga	2.16	8.86	6.22	3.51	5.83	3.90	2.03	3.15	0.60	3.44	3.56	1.91	45.17
*Clarksville	2.56	7.40	5.25	2.18	5.28	4.68	2.75	1.42	0.24	1.25	3.34	4.14	40.49
*Clinton	3.60	9.80	7.60	8.42	3.69	6.08	4.26	3.56	0.18	3.65	5.14	3.20	59.18
*Covington	4.27	7.72	4.73	1.90	8.06	2.36	4.09	3.55	0.66	1.42	3.10	4.68	46.54
Decatur	3.83	15.11	12.12	6.58	4.43	6.58	5.50	5.43	0.18	4.10	4.12	2.68	70.66
Dickson	.....	6.10	[f]2.18	5.43	9.31	5.72	4.21	4.50	T.	2.29	4.18	4.15	.....
Dover	2.17	.....	.....	.....	.....	2.24	2.27	.....	.....	1.96	5.52	3.20	.....
*Dyersburg	.....	.....	.....	.....	2.50	0.58	1.41	0.48	0.53	0.72	.....	.....	.....
*Elizabethton	1.71	6.19	4.77	4.63	3.30	2.45	4.02	4.48	0.30	1.68	3.37	1.56	38.46
Erasmus	3.32	12.43	6.38	7.29	5.14	4.18	3.62	5.87	0.22	3.13	4.61	3.81	60.01
Florence	3.69	7.01	5.17	4.40	6.57	4.65	2.93	4.35	0.30	0.91	4.68	4.12	48.78
Franklin	2.53	7.51	5.22	4.66	5.46	4.72	4.28	2.90	0.15	1.73	4.81	3.75	47.67
Grace	3.10	10.10	7.24	7.40	3.10	6.70	4.80	7.10	0.10	2.50	8.20	3.70	64.04
*Greeneville	1.87	6.85	5.94	8.42	2.14	3.04	3.73	7.53	0.67	2.28	3.48	2.41	48.36
*Halls Hill	2.85	7.08	6.00	5.71	4.93	4.53	2.95	3.79	0.75	0.67	7.42	4.03	50.71
Harriman	.....	12.53	6.93	7.39	3.69	6.54	4.20	4.08	T.	2.36	3.80	2.95	.....
Hohenwald	3.91	7.22	5.14	3.58	5.22	5.87	2.88	1.97	0.58	1.92	3.27	5.27	46.83
Iron City	5.52	9.69	5.66	3.39	6.99	4.74	2.45	5.26	1.74	0.76	3.97	4.94	55.11
Isabella	3.47	11.41	7.94	3.09	1.81	7.17	5.80	3.06	0.38	3.60	3.23	1.76	52.22
Jackson	3.45	5.38	3.47	1.56	7.00	1.65	3.03	1.65	0.74	1.64	4.63	4.53	38.75
*Johnsonville	2.49	5.97	6.51	4.78	7.08	4.69	2.89	1.40	0.25	1.32	3.12	4.82	45.32
Jonesboro	1.59	6.68	6.77	8.64	2.61	3.56	5.29	3.30	0.10	2.49	4.64	1.92	47.59
Kenton	2.69	8.34	5.45	3.32	4.67	1.87	3.00	1.44	0.75	0.77	3.29	4.71	40.30
*Kingston	2.92	10.69	6.84	7.26	3.29	6.35	5.75	6.40	T.	2.77	3.56	2.91	58.74
*Knoxville	2.10	8.35	6.96	7.21	3.09	3.39	2.26	3.86	0.62	1.88	4.19	1.98	45.89
Lafayette	.....	.....	.....	.....	.....	.....	3.95	.....	.....	3.12	4.31	4.44	.....
*Leadvale	1.20	6.40	5.64	6.70	3.60	3.78	3.90	4.85	T.	1.40	3.07	2.20	42.74
Lebanon	.....	.....	6.27	5.90	6.02	.....	.....	3.21	.....	2.45	6.48	.....	.....
Lewisburg	3.98	7.73	4.02	4.42	5.68	3.58	7.08	2.90	1.17	1.53	4.88	4.12	51.07
Liberty	2.99	7.85	6.20	6.10	5.05	.....	2.58	3.31	0.24	1.28	4.81	4.23	.....
Lynnville	4.20	8.41	4.26	3.77	6.12	4.41	4.09	2.36	1.10	1.39	4.57	4.27	48.95
McKenzie	2.64	9.80	4.67	3.26	4.20	.....	.....	1.00	0.25	0.35	.....	.....	.....
McMinnville	2.73	8.48	6.79	4.69	4.60	5.05	4.04	6.09	0.46	2.14	3.66	4.04	52.77
Maryville	2.40	9.93	8.14	7.15	2.94	5.02	5.45	3.42	0.15	2.78	3.57	2.41	53.36
*Memphis	3.31	8.06	5.59	2.69	4.76	1.87	1.09	1.55	0.35	0.25	2.38	4.27	36.17
*Milan	.....	.....	.....	3.70	4.48	3.11	4.11	1.58	0.63	1.45	.....	.....	.....
*Nashville	1.80	4.81	5.17	4.00	5.64	7.58	3.04	1.42	0.13	2.06	3.47	3.91	43.03
*Newport	1.71	7.32	5.87	7.03	2.30	2.99	4.32	5.39	T.	1.68	3.13	2.20	43.94
Nunnelly	2.36	5.98	4.82	2.93	6.00	4.93	2.80	4.32	.....	.....	.....	.....	.....
Oakhill	1.77	7.20	7.64	5.37	3.44	.....	4.00	6.90	0.10	.....	.....	.....	.....
Palmetto	3.75	7.25	5.58	5.49	6.86	6.08	5.24	2.57	1.59	1.11	4.50	4.12	.....
Pope	3.18	6.47	4.56	2.07	5.17	2.58	0.97	2.75	0.50	1.60	2.55	4.77	37.17
*Rogersville	2.21	7.34	5.44	5.96	1.79	2.48	5.78	3.66	0.18	1.96	2.94	2.39	42.15
Rugby	4.53	9.48	8.29	6.75	4.47	2.92	2.96	5.15	0.23	2.15	3.82	3.69	54.44
Savannah	3.33	7.08	4.41	2.20	6.90	3.86	4.27	4.04	0.48	0.79	3.96	4.85	46.17
Sewanee	2.20	12.97	5.75	4.95	5.48	7.66	5.09	2.39	0.25	1.15	3.94	1.61	53.44
Silverlake	3.09	7.21	5.79	4.95	1.21	5.29	5.12	3.96	0.98	1.76	3.86	2.75	45.97
Springdale	2.57	9.34	6.65	6.64	2.98	3.73	5.75	3.58	0.05	3.17	5.00	3.45	52.91
Springville	2.09	8.97	5.12	3.60	5.81	3.41	3.29	1.03	0.58	1.10	5.94	4.75	45.69
*Tazewell	2.23	8.43	5.87	6.02	2.79	3.07	4.35	3.77	T.	2.36	4.36	3.44	46.69
Tellico Plains	2.50	9.90	7.75	6.83	4.07	5.46	5.58	4.23	0.20	3.69	5.37	1.83	57.41
Tracy City	2.84	11.30	5.88	5.75	3.43	6.57	3.14	.....	.....	.....	.....	.....	.....
Trenton	3.16	8.76	5.05	3.95	5.54	3.34	4.44	1.33	0.55	1.57	3.10	5.45	46.24
Tullahoma	3.63	9.92	5.49	5.66	3.74	5.08	4.29	6.05	0.95	2.16	3.80	3.59	54.36
Union City	3.48	7.74	5.84	.....	4.80	1.32	3.74	2.60	.....	.....	.....	.....	.....
Waynesboro	3.37	6.09	3.44	3.27	5.41	5.63	3.86	2.47	0.60	0.92	3.03	4.28	42.37
Wildersville	2.59	7.39	4.67	2.56	6.05	2.39	6.37	.....	0.30	1.18	3.58	4.95	.....
Yukon	3.28	10.42	5.32	3.17	6.25	3.61	3.64	2.23	0.89	4.32	4.21	3.57	50.91
Texas.													
*Abilene	1.51	4.07	2.31	0.49	1.99	3.87	1.29	1.67	8.64	0.42	0.05	0.22	26.53
Albany	2.12	5.46	1.97	0.51	2.58	2.87	0.27	1.77	4.36	1.26	0.53	0.00	23.70
Alvin	3.94	7.53	7.65	1.79	3.67	5.60	9.14	8.93	1.09	5.61	0.14	3.63	58.72
*Amarillo	0.12	2.93	0.26	0.90	1.79	2.83	3.38	4.67	0.82	2.58	0.00	T.	20.28
Anson	1.30	3.00	1.15	0.20	1.40	2.80	0.30	2.35	.....	.....	.....	.....	.....
*Arthur	1.42	6.54	5.47	0.40	3.36	4.15	10.04	2.80	3.59	4.11	0.78	2.20	44.86
Austin	1.50	9.41	1.87	1.27	1.91	2.73	12.65	0.79	T.	2.75	T.	1.35	36.23
*Ballinger	2.14	3.67	0.80	0.14	4.44	2.91	1.47	2.79	8.02	0.67	0.00	0.24	27.29
Bastrop	.....	.....	3.10	1.90	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Beaumont	4.61	8.78	8.66	2.22	2.74	6.17	8.29	4.76	.....	0.67	0.36	4.03	.....
*Beeville	1.41	7.14	6.10	1.31	1.49	6.39	16.42	1.96	0.68	4.64	0.14	1.45	49.13
Bigspring	0.81	0.86	0.24	0.08	1.55	2.93	0.86	0.79	3.16	0.22	0.00	T.	11.00
*Blanco	8.26	7.39	1.99	2.08	1.00	4.38	12.01	1.03	2.18	2.57	0.00	0.66	38.55
Boerne	3.35	8.70	2.21	2.03	2.05	6.15	9.50	0.58	1.62	1.59	T.	0.75	38.53
Bonham	[i]0.58	6.05	6.38	0.29	1.53	2.75	16.03	4.05	3.79	4.02	0.00	1.01	46.48
*Booth	3.87	6.62	6.14	2.95	1.86	2.56	6.56	6.78	0.78	2.60	0.85	3.17	44.74
Bowie	1.56	5.07	2.42	0.15	2.46	3.30	0.60	0.64	3.95	1.70	0.00	0.50	22.35
Brazoria	4.55	7.09	6.81	2.31	1.15	6.27	7.98	5.38	.....	.....	.....	.....	.....
*Brenham	4.84	6.69	3.25	1.91	2.38	5.05	8.61	1.32	1.88	3.31	0.90	4.80	44.94
Brighton	1.12	5.52	6.11	0.90	2.34	5.43	6.08	1.89	0.88	1.38	0.80	0.95	33.35
*Brownwood	2.00	3.10	1.50	T.	1.70	0.90	4.00	0.80	7.20	0.10	0.00	0.30	21.60
Burnet	3.05	7.08	1.86	0.27	1.26	4.07	2.94	1.13	0.70	1.98	0.13	0.85	25.32
Camp Eagle Pass	2.80	2.00	0.25	0.30	3.25	5.12	4.00	0.40	4.26	T.	0.00	0.40	22.78
Childress	0.60	3.37	0.93	1.30	1.69	2.40	1.75	0.94	0.87	1.14	0.00	T.	14.99
Clarksville	.....	.....	.....	1.60	2.70	5.75	2.94	3.44	3.18	.....	.....	.....	.....
Coleman	1.78	3.66	0.95	1.20	2.75	2.24	1.27	1.05	8.18	1.26	0.00	0.43	24.62
College Station	2.71	5.54	2.06	1.25	1.75	1.81	6.58	1.28	0.37	4.74	0.44	3.17	31.70
Colorado	1.14	[d]1.00	[f]0.98	1.10	2.55	2.40	0.16	3.29	2.60	0.08	0.00	0.00	15.30

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
Columbia	3.26	7.32	9.29	2.05	1.31	4.07	11.33	7.17	1.06	1.75	0.16	6.04	54.81
*Columbus										3.85	0.00	0.75	
Comanche	2.30	3.93	1.48	0.76	3.70	3.06	T.	1.53	7.05	0.75			
*Corpus Christi	1.16	5.81	7.69	0.84	2.25	6.48	6.87	1.84	0.89	1.74	0.56	0.79	36.92
*Corsicana	2.70	6.91	3.37	0.12	3.20	4.24	12.06	1.44	3.46	4.40	0.23	0.81	42.94
Cotulla	2.27	5.50	4.26	0.04	1.37	2.50	4.71	3.29	2.02	0.25	0.00	0.00	26.21
*Cuero	4.07	9.05	3.14	2.30	3.76	2.78	13.17	2.81	1.65	5.80	1.38	1.50	51.41
*Dallas	2.15	7.16	5.14	0.89	1.87	4.94	4.47	1.05	3.37	4.34	0.00	0.60	35.98
Danevang	2.55	6.59	7.25	1.55	1.33	2.75	7.65	8.30	T.	1.75		4.68	
Dialville†	3.55	6.10	3.76	0.32	2.00	4.61	7.33	2.94	0.50	6.13	T.	2.13	39.37
*Dublin	1.10	3.60	1.93	0.95	2.92	1.70	0.40	2.50	4.70	1.25	0.00	0.25	21.30
*Duval	1.58	7.12	1.90	1.11	2.22	3.34	12.04	0.75	0.49	2.27	0.06	1.04	33.92
*El Paso	0.61	1.09	0.15	0.54	0.29	2.50	1.19	1.73	3.52	0.00	0.00	0.01	11.63
Estelle	2.04	5.59	2.91	0.75	1.46	5.36	3.24	1.02	2.26	3.47	0.00	0.46	28.56
Fort Brown	2.35	1.72	6.46	0.93	2.17	6.54	0.58	3.45	2.03	0.10	0.00	0.50	26.78
Fort Clark	2.60	1.70	0.90	0.60	3.87	7.20	4.93	0.65	7.93	0.55	0.00	0.01	30.94
Fort Davis	1.38	0.50	T.	0.43	1.99	4.32	0.15	2.00	1.22	0.33	0.00	0.07	12.39
Fort McIntosh	3.42	1.43	2.44	0.00	2.17	8.56	8.59	0.75	8.02	1.00	0.00	T.	36.38
Fort Ringgold	2.80	0.25	2.00	0.00	3.85	5.10	3.00	2.40	2.60	0.35	0.10	0.40	22.85
Fort Stockton	2.18	0.20	0.04	0.22	3.90	3.63	0.15	0.30	1.38	0.00	0.00	0.00	12.00
*Fort Worth	1.83	4.63	2.03	0.59	1.84	4.84	1.84	1.57	2.70	4.53	0.00	0.30	26.70
Fredericksburg	3.06	6.55	2.21	1.13	3.63	4.19	2.58	3.53	1.59	2.30	0.00	1.17	31.34
Gainesville	1.62	5.39	2.41	1.18	2.65	2.60	11.66	1.37	10.54	3.31	0.00	0.43	43.16
*Galveston	4.55	6.84	8.11	1.14	0.79	3.14	13.79	5.45	2.76	3.60	0.03	2.27	52.47
Gatesville	2.33	7.06	1.96	0.29	2.67	5.71	2.99	2.30	1.90	2.32	0.00	0.30	29.85
Georgetown	1.58	7.80	2.46	1.25	1.51	2.85	7.85			1.13	0.00		
Grapevine	2.39	5.74	1.48	0.68	2.85	4.19	2.75	0.24	3.97	3.61	0.00	0.91	28.81
*Greenville	1.62	6.74	3.60	0.23	1.37	3.00	7.80	0.71	3.78	6.22	0.00	0.85	35.92
Hale Center	0.12	2.00	T.	2.35	0.35	3.58	0.84	3.88	0.80	0.05	0.00	0.00	13.97
Hallettsville	3.34	7.03	2.73	2.57	2.81	3.41	8.04	2.39	0.47	5.12	0.55	1.15	39.61
Haskell	1.15	5.16	1.29	0.72	1.43	4.98	0.04	0.46	1.35	2.84	0.04	0.00	19.46
*Hearne	3.56	6.17	2.56	0.61	2.21	3.21	8.61	1.03	0.94	3.63	0.00	3.10	35.62
Hempstead										2.77	0.04	2.20	
*Henrietta	1.83	5.67	2.70	0.35	2.35	4.69	0.14	3.20	2.28	1.29	0.00	0.18	24.66
Hewitt	2.35	5.93	3.05	0.63	1.54	5.72	7.15	0.47	0.97	3.53	0.20	0.27	31.81
Hillsboro						5.43	4.51	1.54	4.73	3.01	0.00	0.31	
Hondo	3.23	7.11	2.36	1.50	3.08	3.48	7.41	0.17	7.17	0.75	T.	0.65	36.91
*Houston	4.89	6.38	6.80	3.85	2.75	3.70	4.35	6.46	2.00	1.93	1.12	2.36	46.09
*Huntsville	5.00	7.47	5.67	1.31	2.44	4.11	5.42	1.12	1.40	4.39	1.44	3.83	43.60
Ira	0.99	1.06	0.47	0.35	0.92	2.06	0.28	1.07	2.72	2.54	0.00	T.	12.46
Jasper	3.68	6.75	7.60	1.85	1.17	6.88		2.37	T.	2.06	0.80	3.20	
Junction	2.20	3.37	0.71	0.71	3.27	4.32	1.70	1.09	3.50	1.71	0.00	0.01	22.59
Kaufman	1.86	6.92	4.51	0.25	2.03	3.92	5.73	0.60	5.60	4.27	T.	0.29	36.18
Kent	1.15	0.29	0.05	0.24	0.66	4.31	0.38	0.86	0.82	0.10	0.00	0.27	9.13
Kerrville	2.53	5.87	0.30	2.38	2.96	3.93	3.49	0.38	3.64	1.24	0.00	1.18	27.90
*Kopperl	2.69	5.86	3.43	0.20	4.90	5.06	4.77	1.38	6.40	2.07	0.00	0.00	36.76
*Lampasas	2.52	6.20	3.64	0.45	3.06	3.91	2.08	1.82	0.96	1.48	0.00	0.48	26.57
Lapara	1.55	3.29	6.57	1.77	1.20	5.65	11.10	1.70	0.60	2.28	0.00	0.29	36.00
Laureles Ranch	1.59	7.12	6.84	0.94	2.46	6.89	7.11			1.81		0.00	
*Liberty										1.96	0.00	1.60	
Llano	2.25	6.40	0.60	0.35	0.55	2.50	3.70	0.35	2.45	1.20	0.00	0.25	20.60
*Longview	1.12	9.34	3.62	0.52	3.57	3.80	5.90	2.18	1.14	3.19	0.65	2.73	37.76
*Luling	2.06	8.86	1.56	2.40	1.73	3.17	11.63	1.25	0.15	4.39	0.10	1.32	38.61
Mann	3.07	8.72	4.41	0.24	4.90	4.53	12.72	2.35	3.52				
Marlin	1.72	7.64	2.33	1.65	3.93	4.17	17.72	0.70	0.48	2.51	0.95	1.38	45.18
McKinney				0.41	2.02	4.91	5.44	0.34					
Menardville	2.88	3.83	0.76	0.38	2.46	3.88	0.90	1.73	3.63	1.13	0.00		
Mount Blanco	0.60	2.33	T.	1.05	0.01	2.33	0.07	1.33	1.02	T.	0.00	0.00	8.74
*Nacogdoches	4.86	6.70	5.05	1.23	2.98	2.99	7.52	3.01	0.15	5.98	0.37	5.17	46.01
New Braunfels	°2.73	9.87	1.38	1.82	1.89	5.63	6.15	¹3.19	0.55	2.20	0.00	1.32	
*Orange										0.11	0.00	0.60	
*Palestine	2.96	5.97	4.66	0.80	1.89	4.19	8.76	1.56	2.45	4.90	0.01	1.33	39.48
Panter	2.75	4.42	1.96	0.42	2.45	3.49	2.51	2.17	4.15	4.18	T.	0.43	28.93
*Paris	0.50	5.80	6.45	0.47	1.54	3.15	7.49	3.79	3.06	2.72	1.00	0.93	36.90
Pearsall	2.80	5.75	2.75	0.08	2.96	2.81	7.10	0.55	1.77	0.05	T.	0.21	26.83
Port Lavaca			5.43	1.06	1.06	7.71	15.59	17.69	1.07	2.76	0.73	3.08	
*Riverside										4.10	0.08	4.22	
Rhineland	1.15	3.73	1.46	1.60	1.95	2.65	0.15	1.45	2.47	0.65	0.00	0.00	17.26
Rockisland	3.44	7.74	3.62	2.35	1.62	1.86	13.85	2.66	T.	2.55	0.15	1.35	41.19
*Rockland									0.49	2.73	0.72	3.71	
Rockport	1.15	5.36	11.21	0.68	1.20	12.67	10.07	0.60	1.22	4.65	0.00	1.82	50.63
Runge	1.99	9.48	3.13	2.68	1.92	2.04	13.91	1.65	0.13	7.32	0.09	0.75	45.03
Sabinal									5.07	0.75	0.00	°0.17	
*San Antonio	2.39	7.38	1.29	1.74	1.95	4.75	7.52	0.20	2.96	1.61	T.	0.82	33.11
Sanderson	1.70	1.50	0.10	0.00	3.40	3.90	1.55						
*San Marcos	3.63	10.31	2.60		1.53	3.90	8.98						
San Saba	2.33	3.88	1.28	1.13	1.40	4.33	1.66	0.71	2.83	0.83	0.00	0.09	20.47
Santa Gertrudes Ranch	0.87	5.55					5.41	7.50	0.70	1.66	0.00	0.00	
Shaeffer Ranch	1.43	8.16											
*Sherman	1.14	5.39	3.25	0.56	2.55	3.09	6.38	1.24	3.22	4.17	T.	1.18	32.67
Sonora	2.61	2.75	0.56	1.04	5.76	4.77	0.24	0.30	3.24	1.41	T.	0.14	22.82
Sugarland	1.65	6.83	8.16	2.51	3.30	3.42	5.61	5.19	0.71	3.60	0.00	2.85	43.83
Sulphur Springs	1.93	7.55	5.22	0.15	2.56	3.62	6.78	4.78	3.29	5.08	T.	1.00	41.96
*Taylor	1.84	7.08	3.11	0.75	1.26	3.08	14.37	1.70	0.77	2.56	0.34	1.38	38.24
Temple[1]	2.02	8.07	3.21	0.96	2.02	4.12	6.48	0.90	0.45	2.23	0.00	1.53	31.99
*Temple[2]	1.77	4.98	2.96	0.90	2.27	3.90	6.76	0.91	0.37	1.96	0.05	2.24	29.07
Tilden											0.00	T.	
Trinity	5.49	7.24	6.64	0.88	4.70	5.78	4.93	3.71	2.48	3.89	0.05	3.55	49.34
Tulia	0.40	1.60							¹4.25	1.92	0.00	0.00	

† Observations made at Jacksonville, 9 miles distant, from January to July, inclusive. [1] W. G. Jones. [2] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
*Tyler	2.39	6.78	4.18	1.03	3.21	4.70	6.93	2.35	1.33	2.19	0.47	1.34	36.90
Victoria	1.45	6.15	4.17	1.03	2.25	4.05	10.55	6.71	[e]0.54	5.45	0.50	3.68	46.53
*Waco	2.55	6.19	2.90	0.20	2.18	5.46	8.63	0.40	1.68	2.68	0.00	0.18	33.05
*Waxahachie	.....	5.47	4.61	T.	1.40	.....	3.28	0.33	3.87	4.47	0.30	0.25	.....
*Weatherford	2.29	3.66	2.17	1.59	1.79	5.66	3.68	0.83	2.35	4.21	T.	0.02	28.85
Weimar	5.00	.....	.....	.....	.....	1.75	8.16	3.89	0.99	.....	.....	.....	.....
*Wharton	4.60	8.50	5.40	1.60	1.75	1.45	7.57	5.34	.....	.....	.....	.....	.....
Wichita Falls	1.35	6.80	2.30	0.35	6.20	3.59	0.03	2.53	1.02	0.55	0.00	0.50	25.22
Utah.													
Alpine	.....	0.66	.....	.....	3.72	.....	0.08	.....	.....	1.60	1.34	0.45	.....
Aneth	0.11	0.50	1.54	0.59	0.12	0.51	0.38	0.04	0.93	0.06	0.00	0.02	4.80
Blackrock	1.11	1.30	2.00	2.59	1.72	0.33	0.41	1.75	0.92	0.95	0.10	0.18	13.36
Bluecreek	1.90	0.02	0.30	0.45	2.50	T.	0.30	0.00	0.10	1.55	0.40	0.20	7.72
Callao	0.50	.....	.....	[f]T.	2.56	.....	0.05	T.	0.31	0.18	0.16	0.07	.....
Castledale	0.08	0.28	0.57	0.10	0.13	1.01	0.74	0.15	0.49	0.78	T.	0.00	4.33
Cisco	0.00	1.35	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corinne	3.62	0.10	1.06	1.11	3.01	0.15	0.08	0.11	0.47	1.63	2.03	0.90	14.27
Coyote	0.01	0.03	.....	[k]0.01	0.53	.....	0.47	0.30	0.11	0.06	[d]0.00	T.	.....
Deseret	0.94	1.30	0.40	0.90	1.53	0.40	T.	0.08	0.67	0.72	T.	0.05	6.99
Emery	T.	0.40	0.26	T.	0.65	0.85	0.72	T.	1.52	1.03	0.00	0.00	5.43
Escalante	1.50	0.50	.....	0.56	0.60	1.43	1.87	0.43	1.10	0.41	0.00	0.00	.....
Farmington	3.76	0.86	1.59	1.81	3.45	0.10	T.	0.20	0.88	1.44	1.86	1.37	17.32
Fillmore	1.44	1.26	1.19	2.66	2.27	0.04	0.27	0.38	1.00	1.06	0.00	0.40	11.97
Fort Duchesne	.....	0.80	0.08	0.00	1.02	0.28	1.49	0.20	1.20	0.48	0.00	0.00	.....
Frisco	0.75	1.66	0.68	1.49	1.88	0.66	0.72	1.12	0.82	0.85	0.02	0.07	10.72
Garrison	0.66	0.60	0.20	0.38	1.16	0.54	0.05	0.55	0.38	0.23	T.	T.	4.75
Giles	0.10	0.42	0.26	0.72	1.12	0.65	0.85	0.12	1.17	0.27	0.00	T.	5.68
Government Creek	1.43	1.10	2.12	1.07	2.10	0.14	0.09	0.26	0.07	0.40	0.54	0.09	9.41
Greenriver	0.00	0.55	0.02	0.50	0.67	0.05	0.37	1.01	0.12	0.00	0.00	0.01	3.30
Grover	T.	0.40	0.36	0.30	0.32	0.80	0.88	0.33	0.55	0.52	0.00	T.	4.46
Heber	2.17	0.70	1.95	0.78	1.42	0.25	0.69	0.20	1.17	0.76	1.90	1.33	13.32
Henefer	2.91	1.23	1.93	1.11	1.78	0.13	0.40	0.13	0.93	0.97	3.27	1.23	16.02
Hite	0.30	0.24	0.64	0.26	0.23	0.50	0.63	T.	0.32	T.	0.00	0.00	3.12
Huntsville	7.72	0.61	2.01	1.33	2.03	0.21	0.22	0.46	1.88	2.13	2.30	1.23	22.13
Ibapah	0.25	0.88	1.12	.....	1.91	0.44	0.30	0.20	0.21	0.31	0.37	0.15	.....
Kanab	0.89	1.24	5.55	2.79	0.71	0.96	0.89	1.34	0.75	0.80	0.00	0.00	15.92
Kelton	0.60	0.30	0.40	0.78	1.45	0.30	0.00	0.00	0.00	.....	.....	.....	.....
Lasal	0.60	0.90	1.01	0.61	1.05	1.68	0.72	0.31	1.00	.....	.....	.....	.....
Levan	1.64	0.98	1.33	2.03	2.26	0.48	0.47	0.15	0.92	1.56	0.24	0.52	12.58
Loa	0.60	0.00	0.41	0.00	0.65	0.35	0.95	0.40	0.35	0.85	0.00	0.00	4.56
Logan	2.62	0.33	0.52	2.01	2.89	0.25	0.35	0.12	0.90	1.01	2.29	0.68	13.97
Lund	[d]0.25	1.20	1.20	0.94	0.89	0.08	T.	2.70	[e]0.50	1.60	0.00	T.	9.36
Manti	0.73	1.18	1.16	1.22	2.20	0.28	0.53	0.11	0.98	1.21	0.20	0.40	10.20
Marysvale	0.40	0.36	0.66	0.70	0.81	0.56	0.64	1.19	1.04	1.35	T.	0.52	8.23
Meadowville	4.10	0.60	1.25	0.80	0.90	1.00	0.75	T.	1.20	0.90	3.20	0.20	14.90
Millville	2.97	0.22	1.69	1.78	2.99	0.46	0.45	0.10	0.87	1.28	3.34	0.76	16.91
Minersville	0.14	0.94	1.10	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....
Moab	0.12	0.90	0.91	0.69	0.84	0.70	0.84	0.03	1.27	0.28	0.00	0.05	6.63
*Modena	0.12	0.85	0.74	0.61	0.55	0.13	0.14	0.92	1.48	1.39	0.00	0.00	6.93
Monticello	T.	0.65	2.61	0.77	0.46	1.72	1.44	0.30	1.17	0.00	0.00	0.00	9.12
Morgan	4.80	0.86	1.14	0.81	2.24	0.99	0.18	0.10	0.98	2.72	3.01	1.03	17.76
Mount Nebo	1.37	1.50	1.61	0.44	1.78	T.	0.14	0.11	0.26	0.38	T.	0.23	7.82
Mount Pleasant	1.24	1.10	1.40	1.41	1.49	0.59	0.56	T.	1.57	0.58	0.20	0.20	10.34
Ogden	4.77	0.53	1.38	1.48	4.34	0.00	0.07	0.35	0.94	1.57	1.74	0.95	18.12
Park City	3.88	1.34	2.60	0.95	2.89	T.	.....	.....	1.17	1.10	2.47	1.45	.....
Parowan	1.10	0.77	1.94	1.06	1.10	0.49	0.41	1.46	1.00	2.03	T.	0.53	11.89
Pinto	0.93	1.06	1.57	1.30	0.80	0.17	T.	1.74	1.37	1.75	0.00	0.21	10.90
Plateau	1.09	1.22	1.02	1.31	2.60	0.47	0.95	0.58	1.65	1.28	0.02	1.22	13.41
Promontory	.....	0.56	0.73	.....	.....	.....	0.00	0.00	0.00	1.25	.....	0.25	.....
Provo	2.65	0.65	1.80	0.51	2.69	0.30	0.39	0.42	0.72	0.55	1.14	0.49	12.31
Ranch	1.03	1.11	4.31	2.28	1.40	1.56	0.88	0.45	3.02	1.09	T.	T.	17.13
Richfield	0.60	.....	0.57	.....	1.39	T.	0.31	0.30	1.00	0.83	.....	0.04	.....
St. George	0.27	0.26	0.99	0.60	0.82	0.00	1.50	0.50	1.92	1.86	0.00	0.07	8.29
Salt Air	.....	.....	.....	.....	.....	.....	T.	T.	0.30	0.84	1.71	0.43	.....
*Salt Lake City	2.11	0.82	1.35	1.11	3.55	0.74	0.14	0.43	0.84	0.81	2.21	0.51	14.62
Scipio	1.51	0.86	1.59	1.63	1.96	0.36	0.27	0.17	0.98	0.67	0.48	0.33	11.01
Snowville	1.93	0.05	0.57	1.66	1.69	0.46	0.00	0.02	0.06	0.84	1.87	1.00	9.65
Soldier Summit	.....	.....	0.20	.....	.....	0.00	2.00	.....	.....	.....	.....	.....	.....
Terrace	0.85	0.50	0.75	0.45	3.05	0.35	T.	T.	0.00	T.	1.30	T.	7.25
Thistle	.....	.....	.....	1.75	1.60	0.35	0.53	0.10	0.66	1.43	0.80	1.40	.....
Tooele	1.46	1.05	1.80	1.73	1.60	0.19	0.05	T.	0.79	0.77	1.64	0.95	12.03
Tropic	T.	[c]0.95	[m]0.32	0.74	0.53	0.87	0.59	0.20	1.98	0.00	0.00	T.	6.18
Vernal	0.39	0.96	1.02	0.67	1.30	0.39	1.83	0.13	1.50	0.88	0.18	.....	.....
Wellington	0.52	0.00	0.76	.....	0.82	0.83	1.05	0.33	1.28	.....	0.00	0.05	.....
Woodruff	1.50	0.06	0.90	0.72	1.08	0.22	0.78	0.00	1.15	.....	.....	T.	.....
Vermont.													
*Bellows Falls	2.63	3.67	5.00	1.22	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burlington	2.18	1.92	3.53	1.63	T.	4.92	6.68	4.02	0.80	4.55	1.21	1.42	32.86
Cavendish	.....	.....	4.28	1.04	0.33	6.24	4.26	3.64	1.20	2.94	1.02	2.88	.....
Chelsea	2.30	2.73	5.03	0.80	0.29	4.85	3.86	3.28	1.44	1.97	1.02	2.08	29.65
Cornwall	2.28	2.73	3.79	1.08	0.24	4.20	5.16	3.45	0.90	3.05	2.10	0.85	29.83
Derby	.....	.....	.....	.....	0.20	4.00	5.08	4.04	0.93	1.96	1.58	.....	.....
Enosburg Falls	2.88	4.64	5.08	2.95	0.45	4.14	5.02	3.79	0.45	3.43	1.63	2.27	36.73
Hartland	3.63	3.77	4.78	3.99	0.29	6.26	4.15	3.22	.....	.....	.....	.....	.....
Jacksonville	2.14	4.23	5.78	3.01	0.70	11.65	3.84	4.75	1.44	2.40	1.91	3.68	45.53
Manchester	2.59	3.10	3.54	1.50	0.86	5.59	2.70	6.19	1.57	4.55	2.14	1.92	36.25
Morrisville	5.26	5.24	7.58	1.44	0.12	5.23	7.16	3.09	0.85	3.86	2.00	2.91	44.74
*Northfield	2.21	3.53	3.87	0.97	0.19	4.75	2.71	2.94	1.21	2.75	1.04	2.92	29.09
Norwich	4.13	3.78	4.43	1.13	0.76	7.02	2.85	3.61	1.55	2.57	1.02	3.69	36.54
St. Johnsbury	3.24	2.25	5.13	1.23	0.04	3.54	5.91	2.90	1.08	2.65	1.00	2.27	31.24

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Vermont—Continued.													
Wells	2.70	3.13	6.45	0.91	0.43	4.68	2.69	5.93	2.08	3.82	1.85	2.65	37.32
*Wells River	3.07	3.49	4.93	2.43	.....	.....	.....	.....	.....	.....	.....	.....	.....
*White River Junction	3.68	2.91	4.90	1.09	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woodstock	3.11	3.59	4.33	1.03	0.80	6.05	5.14	4.03	0.73	3.69	1.38	3.22	37.10
Virginia.													
Alexandria	4.18	4.95	5.45	3.32	3.75	3.69	3.96	.....	.....	.....	.....	.....	.....
Ashland	4.50	4.76	5.20	5.57	2.79	3.65	4.30	7.54	2.34	4.01	1.87	2.87	49.40
Barboursville	5.04	5.65	5.26	3.90	5.80	13.20	1.11	5.70	1.10	2.50	0.76	1.50	51.52
Bedford	5.14	5.48	5.68	2.92	0.77	8.04	1.79	4.06	2.97	.....	.....	.....	.....
Bigstone Gap	2.42	8.72	5.06	7.43	2.60	2.22	3.85	3.07	2.00	1.94	3.64	3.85	46.80
Blacksburg	3.96	5.61	5.68	4.02	0.88	4.62	6.29	3.68	4.96	1.87	1.94	1.25	44.76
Bluemont	.....	.....	[1]3.75	3.05	3.37	10.99	.....	.....	.....	.....	.....	.....	.....
Bonair	4.01	4.53	6.27	6.12	3.08	4.73	5.17	4.28	.....	.....	.....	.....	.....
Boykins	2.60	4.00	5.50	6.30	1.75	5.53	2.78	3.03	1.98	.....	1.25	0.90	.....
Buckingham	4.66	3.98	6.88	.....	2.74	3.29	4.21	6.47	1.76	2.18	[1]0.68	1.96	.....
Burkes Garden	3.20	6.75	6.56	5.97	1.66	5.60	4.65	2.73	1.42	1.84	3.67	2.17	46.22
Callaville	2.90	5.12	9.85	4.24	0.85	4.97	7.95	6.02	1.17	4.52	1.95	2.08	51.62
*Cape Henry	1.93	2.46	4.65	2.74	1.70	4.44	3.76	4.34	0.76	5.04	2.61	2.07	36.50
Charlottesville	5.12	4.40	4.51	3.81	1.76	15.82	2.40	3.82	1.93	3.44	0.80	1.54	49.35
*Clarksville	2.84	5.74	7.14	6.43	1.49	3.31	2.34	4.36	2.20	1.63	1.55	2.05	41.08
Columbia	3.60	4.00	5.00	4.60	3.50	4.50	2.00	6.90	0.90	3.50	0.75	1.60	40.85
Dale Enterprise	4.26	3.42	4.06	3.13	3.74	6.45	5.30	5.18	2.86	2.00	0.71	1.15	42.26
*Danville	3.71	5.62	5.80	4.55	2.88	5.45	1.61	2.36	1.19	2.04	2.11	1.85	39.17
Elk Knob	.....	.....	.....	.....	.....	2.21	3.67	3.34	0.27	2.63	3.16	4.21	.....
Farmville	4.50	5.70	.....	4.12	2.05	3.70	5.40	5.78	2.10	3.55	[1]1.90	2.00	.....
Fredericksburg	[2]2.97	.....	7.31	4.37	2.74	3.92	1.76	4.36	2.84	4.24	1.30	1.84	.....
Grahams Forge	3.93	.....	.....	[2]2.31	0.92	4.32	[2]4.14	.....	.....	.....	.....	.....	.....
Hampton	3.48	3.64	5.61	4.14	1.80	5.49	4.86	5.89	1.50	7.49	2.53	2.20	48.63
Hot Springs	4.70	5.80	5.03	3.67	1.25	7.78	5.98	3.80	4.75	2.10	1.40	1.40	47.66
La Crosse	3.50	5.50	7.80	7.11	2.60	5.90	4.70	6.30	1.32	4.20	.....	.....	.....
Lexington	4.70	5.18	5.45	3.34	1.50	7.65	3.39	2.75	3.40	2.42	1.61	1.37	42.76
Lincoln	3.73	3.95	3.95	3.38	2.01	12.27	4.98	7.06	1.64	3.96	0.87	1.62	49.42
*Lynchburg	5.31	5.99	5.05	2.53	1.13	4.10	2.80	6.21	3.02	2.09	1.34	1.67	41.24
McDowell	.....	.....	.....	.....	.....	.....	.....	1.35	1.11	0.65	0.13	0.42	.....
Manassas	4.27	4.24	6.28	4.12	4.02	3.13	3.30	4.92	1.50	4.27	.....	.....	.....
Marion	.....	.....	4.75	5.15	0.80	2.50	[2]4.75	4.10	1.00	1.40	3.95	2.55	.....
*Mendota	2.51	7.32	5.37	6.18	1.10	4.27	4.02	2.49	1.79	2.29	3.13	2.46	42.93
Newport News	3.65	3.68	5.95	3.25	2.70	9.67	6.44	5.51	0.30	6.85	2.60	2.65	53.23
*Norfolk	1.94	3.24	6.01	4.34	2.27	3.40	4.00	7.68	2.79	6.08	2.14	2.21	46.10
Petersburg	2.72	5.52	8.11	4.63	3.00	10.25	4.31	4.85	3.12	4.45	1.33	2.52	54.81
*Radford	2.86	3.90	3.20	2.36	T.	3.12	3.74	2.62	1.80	0.20	0.98	0.80	25.08
*Richmond	3.61	5.02	8.14	4.46	3.36	5.73	5.17	3.21	1.60	3.44	1.40	2.28	47.42
*Riverton	4.00	1.98	3.29	3.63	2.67	8.54	2.34	0.51	1.14	2.00	0.14	0.15	30.39
Roanoke	4.20	5.21	7.25	3.86	0.98	6.68	1.14	3.52	4.15	2.41	1.88	1.25	42.53
*Rockymount	4.96	5.84	7.64	3.53	2.63	7.10	4.40	4.12	3.52	2.21	1.68	1.98	49.61
Saxe	4.01	5.67	6.39	4.72	3.89	3.10	4.53	3.68	2.93	2.34	1.59	2.38	45.23
Shenandoah	4.50	2.79	4.05	3.58	2.96	5.25	2.82	3.93	2.24	1.83	0.81	0.78	35.54
*Speers Ferry	2.72	8.18	6.18	5.72	1.82	3.90	2.82	2.40	1.14	2.04	3.78	2.42	43.12
Spottsville	3.09	4.19	6.71	5.32	1.59	5.73	3.33	7.30	1.67	5.48	2.94	2.49	49.84
Stanardsville	2.55	5.53	5.13	2.87	2.12	7.68	2.26	2.91	1.75	2.38	[1]0.70	.....	.....
Staunton	4.06	5.39	4.93	3.87	1.23	10.71	2.70	5.53	2.30	2.62	0.98	1.31	45.63
Stephens City	.....	[2]2.83	3.63	3.97	2.86	7.57	3.29	3.43	2.56	3.09	0.81	1.21	.....
Warsaw	2.65	3.82	6.56	3.25	1.44	6.24	3.26	4.52	1.58	5.34	1.71	2.35	42.62
Westpoint	2.80	4.00	6.35	4.85	2.30	6.35	.....	.....	.....	.....	.....	.....	.....
Wilkerson	3.03	4.90	5.92	4.26	4.00	4.14	2.93	9.39	3.21	5.54	1.23	2.41	50.96
Williamsburg	2.47	5.65	6.37	3.84	1.48	7.25	5.87	4.87	2.65	4.74	2.15	1.90	49.24
*Woodstock	2.95	2.84	3.65	3.80	3.86	7.21	1.57	3.41	2.45	2.78	0.70	0.76	35.98
Wytheville[1]	3.43	5.55	5.08	3.78	3.27	3.94	2.80	3.99	1.04	1.64	2.26	1.32	38.10
*Wytheville	3.21	5.33	5.03	3.67	2.85	3.67	2.61	3.69	1.05	1.60	2.06	1.34	36.11
Washington.													
Aberdeen	.....	5.10	6.98	5.92	6.90	5.48	1.40	0.84	5.86	5.89	19.75	9.53	.....
Anacortes	3.20	1.11	3.46	2.36	1.31	0.62	0.62	1.03	3.36	2.02	4.96	2.88	26.93
Ashford	12.12	2.85	7.85	3.41	5.83	5.32	2.59	1.62	4.14	6.07	15.03	5.75	72.58
Blaine	5.64	0.60	3.58	1.49	1.90	1.84	1.97	2.19	7.14	3.51	8.31	4.06	42.23
Bremerton	5.70	3.85	7.97	1.98	1.83	2.36	0.89	0.65	1.99	3.03	9.98	.....	.....
Brinnon	8.32	5.09	10.72	2.77	2.95	1.92	1.23	0.76	2.91	6.04	16.68	5.73	65.12
Cedonia	1.99	0.34	1.99	0.94	0.74	0.98	1.58	1.57	1.23	0.90	2.82	2.02	17.10
Centralia	10.38	1.91	6.98	2.68	2.51	3.30	0.81	0.91	3.66	3.25	9.52	3.82	49.73
Cheney	2.36	0.50	0.70	0.72	2.26	0.76	1.23	3.30	0.81	0.87	3.15	2.46	19.17
Clearbrook	.....	.....	4.88	1.91	3.22	3.12	1.87	2.78	8.00	3.53	9.26	6.09	.....
Clearwater	18.50	4.82	8.78	9.30	8.04	8.74	1.77	2.04	10.46	10.95	24.84	11.21	119.45
Clealum	7.30	2.48	1.38	1.10	1.03	1.06	0.32	0.24	2.17	3.11	6.35	1.42	28.02
Colfax	4.36	0.19	1.22	0.36	1.45	1.51	0.97	1.09	1.36	0.91	3.94	1.38	18.68
Colville	2.60	0.40	1.61	0.43	1.91	2.08	0.45	1.39	1.11	0.95	1.82	1.95	16.65
Conconully	1.44	0.54	1.14	0.47	0.42	1.10	1.49	2.09	1.17	0.95	3.50	1.12	15.43
Connell	1.00	0.15	0.25	.....	0.09	.....	0.50	0.70	0.40	0.17	2.25	.....	.....
Coupville	1.64	1.01	3.38	2.25	1.78	0.73	1.20	0.86	2.18	1.24	4.36	1.58	22.21
Crescent	2.43	0.23	1.26	0.09	0.97	1.09	1.35	1.03	0.70	1.06	4.16	2.11	16.48
Danville	.....	.....	.....	.....	1.13	1.98	3.02	1.53	2.18	0.88	1.99	1.45	.....
Dayton	.....	.....	2.82	0.81	0.81	1.74	0.67	1.17	1.48	0.99	4.01	1.78	.....
East Sound	[2]4.60	1.91	4.58	1.49	1.37	0.87	0.98	1.37	6.27	2.29	5.64	2.90	34.27
Ellensburg	0.67	0.28	0.27	0.51	0.10	1.28	0.05	0.30	0.69	0.60	3.59	0.41	8.75
Ephrata	.....	.....	.....	0.82	0.15	0.05	0.10	0.60	.....	.....	1.41	0.85	.....
Grandmound	10.20	2.71	7.08	3.77	2.36	3.38	0.40	1.71	3.91	4.00	10.30	4.25	54.07
Granite Falls	3.59	0.80	4.10	8.05	7.85	3.00	1.14	0.63	8.85	8.13	12.73	4.37	62.74
Hooper	1.44	0.17	0.85	0.06	0.40	0.40	0.54	1.20	0.45	0.36	2.19	.....	.....
Horse Heaven	.....	.....	.....	.....	.....	0.52	0.16	1.05	0.88	0.40	1.88	0.86	.....
Ilwaco	17.22	4.25	8.19	8.47	5.41	5.51	3.58	1.55	4.95	.....	.....	.....	.....
Lacenter	7.44	2.77	5.25	3.77	2.92	4.06	0.69	1.31	2.79	3.87	11.32	4.58	50.77
Lakeside	1.81	0.78	0.88	0.61	0.18	0.38	0.27	1.48	0.43	0.55	3.21	0.35	10.93

[1] Dr. P. B. Brown.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Washington—Continued.													
Lind	1.79	0.45	1.23	0.37	0.35	0.26	1.25	1.07	0.22	0.57	2.95	2.00	12.51
Loomis	0.70	0.70	1.70	0.29	0.20	1.23	2.38	1.48	1.25	0.51	3.10	0.60	14.05
Mayfield	[i]10.09	.....	[m]5.10	.....	[m]2.40	4.31	1.90	.....	.....	.....	14.59	5.24	.....
Mottinger's Ranch	0.57	0.20	0.45	0.02	0.40	0.52	0.10	0.35	0.62	0.32	2.08	0.81	6.44
Mount Pleasant	7.60	1.68	3.58	3.82	2.77	[e]4.56	2.24	1.12	3.76	3.61	11.37	5.14	51.25
Moxee	0.51	0.42	0.42	0.42	0.10	0.79	0.15	0.62	0.50	0.42	2.65	0.39	7.39
*North Head	8.74	2.00	4.93	4.15	2.70	3.21	0.91	1.01	3.07	4.55	9.63	5.57	50.47
Northport	.....	.....	.....	1.41	1.71	2.06	1.74	0.84	3.35	1.24	1.54	1.02	.....
Odessa	.....	0.30	.....	0.20	0.05	0.05	0.12	1.00	0.13	0.43	2.59	1.15	.....
Olga	4.60	2.90	3.50	1.36	1.59	0.98	1.86	1.20	4.27	2.12	5.75	2.52	32.15
Olympia	11.27	2.80	7.77	3.92	2.16	3.10	0.46	1.18	3.64	4.06	11.72	4.80	56.88
Pasco	.....	.....	.....	0.00	0.03	0.02	0.00	.....	.....	.....	.....	.....	.....
Pinehill	4.52	1.27	1.36	0.35	0.11	2.00	0.02	0.21	0.60	2.22	6.05	1.59	20.30
Pomeroy	2.60	0.20	1.81	0.80	0.68	1.09	1.24	1.32	2.29	0.95	4.19	0.90	18.07
*Port Crescent	7.08	3.04	4.45	1.88	1.52	1.67	0.79	1.49	3.06	2.94	10.48	3.56	41.96
Port Townsend	1.66	1.14	2.52	1.51	1.71	0.71	0.90	0.84	1.72	0.89	3.73	1.17	18.50
Pullman	3.71	T.	2.08	1.09	2.27	1.46	0.72	1.16	1.93	0.94	3.08	1.83	20.27
Rattlesnake	6.83	0.64	1.21	.....	.....	0.43	0.73	.....	1.59	0.44	2.13	0.80	.....
Republic	1.55	0.45	1.68	.....	0.76	1.25	2.13	1.15	1.10	0.50	2.51	1.22	.....
Ritzville	0.75	0.69	0.37	T.	0.12	0.18	0.39	0.32	.....	.....	1.91	.....	.....
Ritzville (near)	0.75	.....	0.89	0.23	0.41	0.26	0.40	0.80	0.43	0.44	2.82	1.35	.....
Rosalia	2.97	0.12	1.68	0.44	2.22	1.46	0.83	1.04	0.89	1.05	3.34	1.80	17.84
*Seattle	3.12	1.46	6.10	1.56	2.39	1.55	1.28	0.50	3.18	1.94	7.34	4.14	34.55
Sedro Woolley	6.47	0.96	5.28	6.35	2.77	2.48	0.88	1.83	8.33	3.65	7.25	4.83	51.08
Silvana	3.34	1.75	2.49	[e]2.14	3.18	1.26	0.36	0.02	3.60	1.55	5.84	2.01	27.54
Snohomish	3.30	1.89	4.88	2.62	3.25	1.40	1.19	0.30	3.67	3.83	7.41	4.92	38.66
Snoqualmie	17.85	4.50	4.30	3.05	4.40	2.98	.....	1.91	7.48	.....	.....	8.16	.....
Southbend	18.83	6.78	9.68	7.67	5.87	5.98	1.52	[e]1.30	5.51	6.01	14.03	8.66	91.84
South Ellensburg	0.37	0.45	1.01	0.26	.....	1.05	T.	0.50	0.65	0.12	3.20	0.20	.....
*Spokane	2.23	0.23	1.22	0.40	1.34	1.35	1.13	1.90	0.83	0.79	3.12	2.01	16.55
Sprague	1.40	0.40	0.30	0.75	1.20	1.20	1.30	0.96	0.14	0.40	3.95	2.50	14.50
Sunnyside	0.17	0.41	0.31	0.35	0.14	0.52	0.13	0.68	0.60	0.40	1.44	0.24	5.39
*Tacoma	8.23	1.35	5.83	3.05	1.69	2.59	0.80	0.75	3.59	2.72	10.00	4.51	45.11
*Tatoosh Island	10.05	2.83	4.35	4.40	4.48	4.86	1.30	1.33	6.68	5.33	15.32	7.96	68.89
Trinidad	0.54	0.34	0.25	0.40	T.	0.00	0.02	0.30	0.45	0.00	2.70	1.05	6.05
Twisp	.....	.....	.....	0.38	0.21	1.17	1.50	1.62	1.08	0.80	2.50	1.55	.....
Union	15.22	5.01	8.69	4.59	2.73	3.86	0.85	0.65	2.77	6.01	15.56	7.72	73.66
Usk	4.34	0.64	3.22	1.01	1.39	1.95	1.18	0.85	1.51	1.59	4.70	2.42	24.80
*Vancouver	5.29	1.84	4.07	2.40	1.71	2.06	0.37	0.56	1.58	2.26	9.34	2.77	34.25
Vashon	6.46	1.76	5.96	2.43	1.72	1.92	0.86	0.79	3.52	3.10	9.65	4.92	43.09
*Walla Walla	1.34	0.11	1.92	0.89	1.26	0.79	0.60	1.19	1.47	1.29	3.15	1.69	15.70
Waterville	2.10	0.27	0.63	0.73	0.28	0.09	0.45	1.04	0.65	0.67	3.00	1.67	11.58
Wenatchee (near)	1.87	0.72	1.23	0.41	0.19	0.24	0.38	0.74	1.44	0.70	4.05	1.01	12.98
Whatcom	4.11	1.44	3.18	1.85	2.15	1.68	1.29	1.29	5.38	1.66	5.47	3.13	32.63
Wilbur	1.91	0.50	0.87	0.46	0.40	0.50	1.37	1.17	0.71	0.77	2.26	1.63	12.55
Zindel	1.08	[g]0.13	.....	1.38	1.44	2.07	1.05	1.40	0.67	1.26	1.89	0.55	.....
West Virginia.													
Bayard	4.38	6.10	4.20	3.47	3.83	6.13	4.56	2.84	1.71	2.89	1.88	2.26	44.25
Beckley	.....	.....	3.29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Beverly	4.69	6.18	3.99	3.45	5.22	6.78	2.35	3.78	1.15	1.60	2.72	2.39	44.20
Bluefield	5.30	4.45	4.53	3.75	1.20	3.97	2.61	2.00	0.10	.....	2.20	1.94	.....
Buckhannon	3.41	6.43	3.93	4.15	6.24	.....	.....	.....	.....	2.12	.....	4.43	.....
Burlington	3.35	3.42	2.85	3.50	2.62	3.86	3.94	[j]3.92	1.88	2.32	0.83	0.86	33.35
Byrne	4.50	6.25	5.08	5.50	3.58	4.54	2.80	.....	.....	.....	.....	.....	.....
Cairo	3.21	4.77	3.30	6.19	2.40	5.37	2.00	.....	2.45	3.29	3.25	2.30	.....
Camden	2.45	6.37	4.37	4.38	.....	.....	.....	.....	.....	.....	.....	.....	.....
Central	[b]2.09	6.48	4.00	4.84	5.23	4.22	3.70	.....	[e]2.05	3.00	3.51	2.17	.....
Chapel	.....	9.59	5.94	5.81	.....	2.93	3.54	.....	1.21	1.04	2.77	.....	.....
*Charleston	2.44	6.36	4.56	5.95	1.83	4.21	2.76	1.93	0.57	2.26	2.16	2.12	37.15
Clay	2.95	8.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Creston	2.55	4.74	3.79	5.28	1.96	.....	3.12	1.08	1.08	2.93	2.90	2.00	.....
Cuba	2.48	6.94	4.83	5.04	4.29	4.90	4.37	1.97	0.75	3.12	2.89	1.57	43.15
Echo	2.92	7.00	3.62	5.47	2.33	3.59	4.47	.....	.....	.....	.....	.....	.....
Elkhorn	2.40	4.88	4.96	5.50	2.34	2.71	6.13	1.90	0.46	1.68	3.47	1.54	37.97
*Elkins	3.79	5.72	3.64	3.38	5.37	5.51	3.60	2.48	1.69	1.79	2.71	2.16	41.84
*Fairmont	2.76	4.94	5.40	3.46	2.62	5.88	6.58	1.74	1.34	2.87	2.70	1.80	42.09
*Glenville	3.64	6.39	4.78	4.66	4.13	4.52	2.69	2.25	1.10	2.79	3.01	3.25	43.21
Grafton	2.57	5.65	5.77	3.70	3.74	4.96	3.75	2.28	1.49	3.42	3.62	2.28	43.23
Green Sulphur Springs	2.81	4.74	3.65	3.43	1.83	3.23	3.34	2.26	0.59	1.96	1.60	0.61	30.05
*Harpers Ferry	3.41	3.45	5.24	4.95	2.52	5.08	4.87	4.82	2.23	3.27	0.79	0.69	41.32
*Hinton	3.49	5.56	4.96	3.54	1.91	3.53	3.22	3.42	0.42	1.62	2.24	1.33	35.24
*Huntington	2.46	6.65	4.38	3.58	1.33	4.66	1.82	2.62	0.28	3.56	2.38	1.74	35.46
Josiah	3.86	.....	.....	6.34	5.19	4.94	4.28	3.48	1.31	3.47	2.53	2.50	.....
Leonard	4.44	8.17	5.29	6.36	2.33	6.87	2.29	4.42	0.37	2.73	2.85	3.50	49.62
Lewisburg	3.74	5.86	4.58	3.97	3.19	4.44	5.05	4.39	2.43	2.21	1.86	1.01	42.73
Lillydale	2.96	4.94	4.49	4.12	0.80	2.01	4.99	2.34	0.99	1.82	.....	1.13	.....
Logan	3.74	8.70	6.10	7.30	0.90	4.01	5.33	2.38	0.93	1.81	3.15	3.32	47.67
Lostcreek[1]	2.51	6.51	6.59	4.00	3.17	4.21	2.40	2.14	1.65	2.33	2.91	2.46	40.88
Magnolia	3.19	3.89	3.90	3.62	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mannington	.....	.....	[b]3.40	3.61	3.26	6.62	4.81	1.73	.....	2.20	2.63	1.68	.....
Marlinton	.....	.....	.....	4.04	1.79	4.55	2.98	3.30	1.83	1.52	0.93	2.44	.....
Martinsburg	2.95	3.15	3.35	4.55	3.90	5.40	5.90	4.05	2.17	2.63	0.85	1.25	40.15
Morgantown	2.87	6.47	4.28	3.55	4.12	5.21	5.46	1.34	1.21	3.21	2.28	1.70	41.68
Moscow	2.00	6.55	3.40	2.70	1.88	4.55	2.55	5.02	1.10	3.10	2.38	2.15	37.38
Moundsville	2.34	5.35	3.67	3.76	1.98	3.97	4.32	1.58	0.40	2.17	1.96	2.73	34.22
Myra	.....	7.23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Martinsville	3.00	6.38	4.35	3.95	2.95	4.02	3.44	1.26	1.05	2.05	2.30	2.37	37.62
Nuttallburg	2.90	5.10	5.25	5.95	2.35	4.15	3.45	1.70	1.30	2.05	3.10	1.45	38.75
Oceana	.....	6.54	5.18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Name of station changed from Dayton.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
West Virginia—Continued.													
Oldfields	2.58	2.58	2.70	3.02	2.30	5.32	3.31	2.84	2.56	3.31	.....	.....	.....
*Parkersburg	2.77	6.23	5.35	4.59	2.87	4.13	4.25	3.82	1.03	2.86	1.94	2.23	42.07
Parsons	2.80	6.30	.....	.....	2.56	10.70	3.75	3.25	2.46	3.04	2.17	2.05	.....
Philippi	4.72	5.86	5.36	4.24	3.92	5.03	3.74	2.40	2.29	3.00	3.41	2.49	46.46
Pickens	6.45	9.58	6.11	6.19	5.70	*7.39	*3.60	5.85	2.78	2.71	4.98	3.30	64.62
*Point Pleasant	2.65	6.41	4.35	4.78	2.28	3.47	3.27	0.99	2.44	3.76	2.64	1.68	38.74
Powellton	1.79	5.20	4.91	5.24	2.89	5.24	4.65	1.91	1.34	1.10	1.67	0.89	36.83
Princeton	4.25	7.15	8.20	7.45	2.00	4.95	7.85	3.75	1.25	2.10	4.30	2.95	56.20
Romney	3.08	3.49	3.27	3.74	3.86	4.65	5.68	4.01	[b]0.65	3.23	0.92	0.40	36.98
*Rowelsburg	4.34	6.55	5.06	4.24	3.48	7.63	4.10	3.65	1.64	3.33	2.83	3.09	49.84
Ryan	2.78	7.14	3.81	5.85	2.40	2.30	2.79	1.72	0.24	2.59	2.35	1.89	35.36
Smithfield	.....	.....	[a]5.51	.....	2.19	4.48	3.62	.....	.....	.....	.....	.....	.....
Southside	2.96	6.26	4.14	5.21	1.77	3.75	2.91	1.02	1.05	3.29	2.65	1.67	36.68
Spencer	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.72	2.06	.....
Summersville	.....	3.92	.....	4.62	.....	.....	.....	.....	.....	.....	.....	.....	.....
Terra Alta	5.60	6.90	4.60	2.50	5.28	12.30	8.30	3.00	0.64	4.75	3.90	3.70	61.47
Travellers Repose	4.58	6.39	5.47	3.36	5.34	5.22	4.16	3.54	2.09	[b]1.82	2.00	1.76	45.68
Uneeda	.....	.....	.....	.....	2.21	2.77	4.94	1.28	.....	.....	.....	.....	.....
Upper Tract	2.62	2.48	2.96	2.29	3.34	6.02	2.37	4.82	2.52	1.80	0.67	0.51	32.40
Valley Fork	.....	.....	.....	6.09	3.60	4.21	2.17	4.05	0.47	2.71	3.44	3.22	.....
Webster Springs	3.00	.....	2.02	3.75	3.50	6.70	.....	.....	.....	0.80	.....	1.20	.....
Wellsburg	2.94	5.33	5.20	3.60	2.17	5.73	5.24	2.03	1.13	2.77	3.36	2.35	41.85
*Weston	3.01	6.55	4.78	4.20	5.16	4.96	2.39	2.84	1.70	3.16	3.03	2.74	44.52
*Wheeling[1]	1.86	2.73	3.09	2.04	2.16	7.48	2.57	1.95	0.57	3.77	2.08	1.36	31.66
Wheeling[2]	2.14	5.29	4.89	3.71	2.05	6.52	2.06	1.54	0.57	3.83	2.05	2.82	37.47
Williamson	2.74	8.28	5.11	7.13	0.90	3.54	4.33	2.03	0.67	2.09	2.40	1.38	40.60
Wisconsin.													
Amherst	0.35	0.96	2.19	3.40	5.03	.....	.....	6.88	3.85	2.11	1.15	1.25	.....
Antigo	0.30	0.90	2.31	[c]0.75	3.98	1.50	4.15	7.48	.....	0.15	0.80	0.40	.....
Appleton	1.29	2.27	3.64	2.81	3.56	1.24	6.75	.....	3.47	2.85	1.24	0.46	.....
Appleton Marsh	.....	.....	.....	.....	.....	.....	[k]1.83	7.09	5.09	2.73	0.48	1.04	.....
Ashland	0.41	1.19	1.98	2.03	6.77	0.98	6.55	5.39	5.22	.....	0.80	1.12	.....
Barron	0.59	0.40	2.52	2.44	5.86	3.04	6.66	4.75	5.96	3.20	*0.50	0.64	36.34
Beloit	0.67	0.66	2.74	3.05	3.53	0.50	5.73	4.85	4.91	3.11	1.14	2.17	32.96
Brodhead	0.20	1.93	3.58	2.70	4.37	1.28	5.59	5.75	3.97	1.96	1.18	1.91	34.42
Burnett Junction	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.79	1.20	0.46	.....
Butternut	0.75	1.64	3.27	3.61	8.88	1.58	9.88	4.56	6.98	3.00	1.26	1.27	46.68
Chilton	1.18	1.43	3.31	3.37	3.66	2.55	2.79	7.30	4.10	3.43	1.46	0.89	35.47
*Chippewa Falls	.....	.....	.....	2.34	4.42	0.10	5.28	1.24	5.14	.....	.....	.....	.....
Citypoint	0.05	.....	.....	.....	6.07	2.57	3.61	6.09	2.49	1.39	0.69	0.73	.....
Darlington	0.62	1.05	2.14	4.24	3.99	2.11	9.16	8.09	3.81	2.21	1.51	1.25	40.18
Delavan	.....	.....	3.41	2.77	3.61	1.44	4.76	6.49	5.33	3.13	.....	.....	.....
Dodgeville	0.60	0.50	.....	.....	4.90	.....	7.20	8.00	4.00	2.00	1.60	*0.65	.....
Downing	0.30	0.05	2.06	3.55	7.14	1.62	8.78	5.01	7.37	2.45	0.52	0.80	39.65
Durand	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.55	.....	.....	.....
Easton	0.47	0.99	2.85	2.98	5.46	2.08	4.01	9.01	3.08	1.81	0.60	0.61	33.95
Eau Claire	0.32	0.87	2.10	3.72	7.03	2.44	8.78	5.09	9.12	1.99	0.65	0.84	42.95
Florence	T.	1.80	4.05	3.28	7.00	2.12	7.42	5.14	7.10	2.98	1.53	0.85	43.27
Fond du Lac	0.50	0.52	1.95	3.02	3.66	1.07	2.69	8.43	3.94	2.00	1.34	0.37	29.49
Grand Rapids	.....	.....	.....	2.27	6.85	1.08	6.35	5.37	4.47	1.76	1.08	0.77	.....
Grand River Locks	0.51	0.81	3.24	4.16	7.32	1.92	5.18	10.79	5.32	3.00	1.63	0.84	44.72
Grantsburg	0.82	1.90	2.17	4.55	6.55	1.12	9.37	5.79	10.02	3.14	0.60	1.50	47.53
*Greenbay	1.03	1.35	3.75	2.79	3.32	1.03	3.54	5.38	3.39	1.72	1.25	0.34	28.89
Hancock	0.23	1.41	2.85	3.04	4.66	1.58	4.54	7.87	2.46	1.46	0.68	1.09	31.87
Harvey	0.36	1.20	2.57	2.16	4.58	3.87	9.42	7.69	4.93	1.70	1.02	1.02	40.47
Hayward	0.38	1.22	0.92	1.49	6.18	1.78	5.88	5.06	6.35	4.95	1.48	1.05	36.74
Hillsboro	0.40	1.55	2.35	4.30	5.23	2.64	3.81	10.16	3.56	0.82	0.56	1.35	36.72
Koepenick	0.62	0.84	2.50	4.20	7.00	1.80	7.10	6.30	7.80	2.50	1.40	0.80	42.86
*La Crosse	0.20	0.95	1.56	4.81	6.74	1.88	4.25	8.36	3.28	1.61	0.04	0.82	34.40
Ladysmith	0.38	0.32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lancaster	0.18	0.45	1.56	4.43	5.52	1.56	8.18	6.28	3.43	1.67	0.60	0.65	34.51
*Madison	0.10	1.11	3.50	2.88	4.38	1.39	7.17	6.95	3.51	2.18	1.07	0.60	34.84
Manitowoc	0.70	1.10	2.18	4.01	2.73	0.92	7.92	4.24	3.39	3.41	1.12	0.44	32.16
Meadow Valley	0.38	0.62	1.53	3.27	5.99	1.33	5.34	7.40	4.48	3.08	0.83	0.55	34.80
Medford	0.20	0.20	2.35	3.95	8.25	0.90	7.40	7.30	9.50	4.70	0.90	0.50	46.15
Menasha	0.38	0.60	3.08	2.55	4.23	3.32	4.50	5.00	3.07	1.56	0.91	0.23	29.43
*Milwaukee	0.60	2.01	3.20	2.68	3.03	1.51	4.53	5.56	5.02	2.13	1.49	1.65	33.41
Minoqua	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Neillsville	0.10	1.37	2.06	3.41	6.04	1.93	7.32	6.92	*7.37	2.55	1.06	0.58	.....
New Holstein	1.60	.....	.....	.....	.....	.....	.....	.....	8.32	1.95	1.13	0.85	41.40
New London	0.61	1.09	3.39	2.82	4.15	1.56	3.44	4.66	3.05	2.18	1.17	0.72	28.84
North Crandon	.....	0.15	.....	.....	.....	.....	5.19	5.56	8.11	4.30	[j]0.20	.....	.....
Oconto	1.23	1.83	3.61	2.91	4.80	3.80	2.14	4.86	5.40	1.11	0.76	0.93	33.38
Osceola	0.67	0.44	2.09	2.92	7.31	2.26	9.68	4.42	8.76	4.14	0.20	0.83	43.62
Oshkosh	0.39	0.79	3.10	2.82	3.70	1.18	4.14	.....	.....	1.19	1.37	0.63	.....
Pine River	0.86	1.07	2.34	*2.22	4.31	0.92	4.50	6.03	2.53	1.67	1.00	0.67	27.62
Portage	0.15	0.92	2.64	4.08	4.96	1.67	4.19	9.75	2.74	1.75	1.08	0.50	34.43
Port Washington	0.95	2.10	2.70	3.68	3.47	1.73	4.26	6.87	2.82	2.83	1.68	0.89	33.48
*Prairie du Chien[3]	0.22	1.33	2.13	3.36	5.23	1.59	8.94	8.22	3.43	1.75	0.27	0.53	37.05
*Prairie du Chien[1]	0.36	1.32	2.32	3.50	5.38	1.46	8.64	8.22	3.30	1.34	0.22	0.49	36.55
Prentice	0.45	0.60	.....	.....	.....	.....	0.80	4.47	7.12	1.61	0.86	0.67	.....
Racine	0.57	1.77	2.71	2.76	2.39	3.61	3.23	4.76	4.20	1.39	0.73	0.76	28.58
Sheboygan	1.43	1.36	2.36	3.90	3.62	1.43	2.75	5.82	2.66	2.80	1.79	1.05	30.97
Spooner	0.62	1.92	2.19	3.17	7.65	.....	.....	.....	.....	2.82	0.49	0.88	.....
Stanley	.....	.....	.....	.....	.....	.....	.....	.....	11.04	2.96	0.58	0.78	.....
Stevens Point	0.40	1.79	2.43	2.94	5.59	1.88	5.33	6.46	3.78	1.38	1.44	0.94	34.36
Tomahawk	1.20	0.26	2.55	1.87	5.50	.....	5.45	6.20	6.96	.....	.....	.....	.....
Valley Junction	0.04	0.85	2.24	2.47	4.88	1.84	3.40	6.28	4.08	1.18	0.50	0.48	28.24
Viroqua	0.38	1.09	1.52	4.68	6.41	2.67	5.58	9.62	3.82	1.63	0.47	1.05	38.92

[1] River observer.

[2] Chas. H. Schnepf.

[3] Corn and wheat region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1903—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Wisconsin—Continued.													
Washburn										3.29	1.00	1.25	
*Watertown	0.79	1.79	2.22	2.93	4.91	2.32	8.88	6.09	3.77	2.48	1.44	1.64	39.26
Waukesha	0.48	0.72	2.86	2.51	4.57	3.30	6.93	7.39	5.04	2.50	1.01	0.99	38.30
Waupaca	0.41	1.02	2.48	2.83	5.88	2.77	3.05	6.32	3.66	c1.86	1.05	0.59	31.95
Wausau	0.47	1.05	2.19	3.89	6.87	0.78	7.92	6.02	5.78	2.18	0.88	0.60	38.63
Whitehall	0.22	1.35	2.17	4.13	5.70	2.43	5.52	6.53	11.48	1.78	0.17	0.84	42.32
Wyoming.													
Afton			0.70	2.28	2.71	1.00	1.15	0.57	0.99	1.64	1.51	0.80	
Alcova	0.92	0.30	0.62	1.22	1.42	0.53	0.94	0.62	1.59	0.37	T.	0.20	8.73
Basin	T.	0.21	T.	0.86	0.81	0.62	0.96	T.	0.26	T.	T.	0.06	3.78
Battle											6.20	7.60	
Bedford	2.63	0.20	0.54	2.55	2.45	1.15	0.65	0.81	0.91	2.27	1.26	1.00	16.42
Border	2.34	0.50	1.13	1.81	1.12	1.11	0.45	0.25	1.28	1.29	1.95	0.15	13.38
Buffalo	0.35	0.41	0.49	1.37	2.31	1.59	2.03	2.50	2.55	0.02	0.35	0.12	14.09
Burlington					1.04								
Centennial	1.38	0.86	1.24	0.72	1.07	1.16							
*Cheyenne	0.20	1.76	1.00	2.10	0.46	1.42	0.79	1.90	1.40	0.84	0.79	0.09	12.25
Chugwater	0.50	1.25	0.97	1.86	0.57	1.09	2.29	2.47	1.90	0.37	0.50	0.40	14.17
Daniel	1.85	0.45	0.80	1.53	1.44	0.77	0.59	0.61	1.21	1.46	1.30	0.10	12.11
Embar				0.53		1.63							
Evanston	2.14	0.80	0.44	1.22	1.51	0.19	1.18	0.05	0.76	0.87	1.62	0.30	11.08
Fontanelle				0.33		*1.40					0.95	T.	
Fort Laramie	0.02	0.76	1.31	1.53	1.48	1.03	0.92	2.73	1.57	0.26	0.57	0.16	12.36
Fort Washakie	0.20	0.13	1.80	1.90	1.25	2.00	0.80	0.44	2.11	1.87	0.00	0.50	13.00
Fort Yellowstone	0.60	0.25	0.85	0.80	0.65	0.90	0.55	0.45	0.60	0.50	1.40	1.30	8.85
Fourbear	0.32	0.19	0.66	0.62	2.26	1.03	0.65	0.25	2.03	0.25	0.20	0.25	8.71
Griggs	1.30	0.70	0.46	1.97	2.47	1.32	1.38	0.58	2.29	0.46	0.58	0.46	13.97
Hyattsville	0.00	0.84	0.75	1.04									
Irma	0.60	0.10	0.10	0.90	1.28	0.81	0.73	0.38	1.09	0.38	0.92	0.40	7.69
Iron Mountain	0.03	0.61	0.77	0.51	0.88	1.96	1.86	1.66	2.14				
Kimball Ranch	0.33	0.30	0.09	1.48	1.90								
*Lander	0.25	0.82	2.25	2.41	1.86	1.99	0.21	0.19	2.58	0.57	0.01	0.94	14.08
Laramie	0.11	0.36	1.09	0.73	1.63	1.00	1.31	0.88	2.39	0.50	0.30	0.07	10.37
Leo	0.83	0.72	0.62	1.46	1.96	0.97	0.92	0.52	1.28	0.08	0.21	0.19	9.76
Lolabama Ranch	0.69	0.13	0.29	1.24	1.89	0.90	0.92	0.23	1.41	0.61	0.91	0.11	9.33
Lusk	0.38	1.38	1.10	1.66	2.27	2.12	5.65	0.57	1.15	0.00	0.26	0.38	16.92
Moore	0.07	0.72	1.12	0.79	2.05	c3.54	1.94	1.51	*3.06	0.54	0.72	0.07	16.13
Moorcroft		0.50	1.25	2.84	3.09	2.09	1.62	4.11	2.20	0.45	0.30	1.00	
Parkman	0.32	0.68	0.28	1.06	0.65	1.80	2.59	1.74					
Phillips							1.26	0.99	0.94	0.40	0.50	0.01	
Pinebluff	T.	1.00	0.40	0.47	1.45	1.34	2.76	1.91	1.13	0.56	T.		
Rawlins	1.33	0.95	1.42	1.96	1.78	1.05	1.26	1.01	1.56	0.55	0.49	0.29	13.65
Redbank		0.57	2.05	4.02	3.67	1.00	1.50	0.30	1.53	0.97	1.40		
Rock Springs	0.78	0.89	0.40	0.70	0.76	0.22	0.39						
Saratoga	1.20	1.25	2.45	0.65									
South Pass	2.30	1.60	2.60	2.20	2.20	0.40	1.00	T.	1.20	0.70	3.10	0.70	18.00
Tensleep				1.20	1.16	0.15	0.70	T.	0.50	0.23		0.20	
Thayne	2.65	0.29	0.63	1.49	2.18	1.53	0.54	0.42	0.80	1.93	1.70	0.98	15.14
Thermopolis	0.10	0.50	1.72	1.80	3.16	1.66	5.81	1.54	0.35	0.27	0.15	0.70	17.76
Wheatland	0.60	1.30											
Porto Rico.													
Adjuntas	2.06	1.02	1.29	3.84	6.76	4.08	8.05	10.25	8.24	11.08	14.55	6.40	77.62
Aguadilla	0.20	T.	4.67	5.21									
Aguirre	0.67	0.58	0.59	0.83	2.36	5.85	7.14	7.14	2.42	8.25	2.78	5.99	44.55
Arecibo	1.53	1.25	4.74	3.07	3.43	3.10	5.15	4.87	5.73	5.29	5.05	7.90	56.11
Barros	0.10	1.62	1.56	9.58	5.58	0.03	2.60	8.15	5.98	8.64	11.81	6.18	61.72
Bayamon	0.97	1.26	2.73	3.64	5.20	2.55	4.05	5.00	3.30	3.40	2.04	4.30	38.44
Caguas	1.92	1.92	1.80	5.03	3.69	4.66	6.88	12.90	3.67	10.30	8.51	5.83	67.11
Canovanas	2.19	1.79	1.34	3.70	0.93	5.04	8.88	11.33	5.57	5.63	6.85	15.08	68.33
Cayey	1.37	2.64	0.85	2.90	0.62	4.35	4.84	13.02	6.79	7.40	6.42	4.50	55.70
Cidra	3.10	0.63	4.80	6.65	2.20	4.15	14.72	19.16	9.05	7.15	3.60	15.75	90.96
Coamo	T.	0.01	T.		0.21	1.73	2.96	4.20	1.15	3.30	3.85	1.01	
Corozal	0.85	c1.60	2.21	7.46	2.58	1.82	6.43			9.70	11.34	*7.98	
Fajardo	1.33	0.90	2.24	2.98	5.90	3.45	8.83	9.44	3.42	9.87	5.87	6.43	60.66
Guanica	0.70	0.26	1.77	4.43	2.49		3.90	6.44	2.68	5.85	5.09	2.56	
Hacienda Armistad	1.80												
Hacienda Coloso		0.65	2.34	5.35	8.42	16.70	13.66	6.30	5.25	13.90	5.73	4.01	
Hacienda Josefa	1.29	1.32	1.79	0.55	2.36	8.45	9.53	6.59	4.83	12.50	2.63	2.79	54.63
Hacienda Perla	3.66	2.34	3.73	7.51	10.34	7.47	14.47	11.21	6.41	13.64	10.14	14.19	105.11
Humacao	3.97	3.67	1.21	2.33	5.80	7.72	8.88	9.23	8.22	7.91	4.78	7.67	71.39
Isabela	1.01	0.68	3.23	8.01	12.08	5.74	2.69	3.79	5.78	6.84	4.66	8.74	63.25
Juan Diaz		0.16	0.30	1.40	3.02	1.87	6.24	9.38					
La Carmelita		1.16	1.32	7.26	11.75	7.04	13.23	11.63	12.35	14.20	17.02	5.17	
La Isolina	0.62	1.20	5.57	13.73	16.71	11.65	3.98	10.94	12.60	7.97	12.34	13.25	110.56
Lares						14.58	14.72	10.86	9.92	12.40	9.75	9.42	
Las Marias	0.69	0.20	1.82	7.89	10.67	12.39		9.02	11.58	12.39	12.45	6.95	
Manati	0.88	0.92	3.25	9.84	4.98	3.40	6.02	5.87	6.60	7.17	5.02	11.62	65.52
Maunabo	4.73	3.20	2.69	1.05	7.36	10.67	10.31	10.34	6.83	13.32	8.77	7.97	87.24
Mayaguez	2.13	0.33	2.19	1.74	11.58	12.42	10.86	7.89	7.77	8.36	6.48	4.56	76.31
Morovis	3.80	1.69	6.13	12.55	9.58	8.80	5.80	19.40	13.10	5.85	13.23	15.45	114.88
Ponce	0.42	T.	0.18	1.42	1.23	2.14	3.81	6.92	2.88	6.42	3.33	1.54	30.29
Rio Pedras	1.47	1.54	3.11	6.77	9.35	8.68	8.29	7.50	5.28	5.72	7.81	10.89	71.41
San German	1.00	1.46	1.89	4.09	4.58	6.09	4.37	7.17	4.72	12.03	15.52	3.50	66.36
*San Juan	2.09	1.44	4.26	3.07	4.54	2.18	7.13	8.41	5.13	5.87	6.41	9.48	60.01
San Lorenzo	2.18	2.46	1.99	3.32	4.93	8.68	9.25	9.03	6.76	5.68	5.87	7.95	68.10
San Salvador	0.41	0.75	1.70	5.77	8.49	4.42	5.06	10.74	11.46	6.85	10.60	6.38	72.63
Santa Isabel	0.16	0.41	0.76	2.15	3.24	2.17	8.35	6.46	1.93	6.88	7.24	1.04	40.79
Utuado	T.	0.20	1.82	6.35	11.70	7.85	5.60	9.15	15.05	6.12	12.42	8.51	84.77
Vieques	2.49	1.77	0.87	2.20	3.31	3.13	5.78	8.05	5.05	8.80	3.18	4.87	49.50
Yauco	1.26	0.33	3.80	3.67	5.04	1.09	3.11	4.22	3.77	5.86	6.50	2.25	40.90

MONTHLY AND SEASONAL SNOWFALL 1903–1904.

NOTE.—Leaders under heading of months indicate no snow; under annual, report incomplete; T, a trace; (*) no report.

[Inches and tenths.]

States and stations.	1903.				1904.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Alabama.										
Ashville					7.0					7.0
Bermuda				T.						
Birmingham				T.	8.1					8.1
Decatur					2.5					2.5
Florence				T.	3.8					3.8
Greensboro				1.0	6.0					7.0
Hamilton				T.	4.6					4.6
Mobile										0.0
Montgomery				T.	T.					T.
Newbern				1.0	3.0					4.0
Oneonto				T.	6.0					6.0
Union Springs				T.						T.
Valleyhead				T.	3.0					3.0
Arizona.										
Congress					T.					T.
Flagstaff				1.0	6.9	5.3	13.1	0.1	15.0	41.4
Fort Apache					8.0	6.0		0.1		14.1
Fort Defiance				0.2		4.2	7.5	0.5		12.4
Fort Grant					0.5					0.5
Jerome					0.2					0.2
Phoenix					T.					T.
Prescott		T.			3.5	3.0	4.0			10.5
Tucson				0.2						0.2
Arkansas.										
Amity				T.	T.	T.				T.
Conway			1.5							1.5
Corning			1.6	0.4	0.8	0.6		T.		3.4
Dallas				T.	2.5	1.8				4.3
Fort Smith				1.0	5.0	1.5				7.5
Hardy			0.3	1.5	1.5	1.0				4.3
Helena				5.5						5.5
Jonesboro				1.0	0.5	0.2				1.7
Little Rock				0.5	T.					0.5
Malvern				0.2	T.	1.0				1.2
New Gascony				1.5	0.5					2.0
Newport				0.1		0.5				0.6
Oregon				0.5	5.4	5.6		T.		11.5
California.										
Boca			T.	5.0	12.0	52.0	28.5	0.5		98.0
Bodie	2.0		3.0		2.0	51.5	39.0	9.0	8.0	114.5
Bowman			2.0	22.5	33.5	110.0	113.0	60.5	7.0	348.5
Cedarville			4.0	4.5	9.5	18.5	24.5	9.0	T.	70.0
Cisco			16.0	22.0	45.0	131.0	165.0	48.0	8.0	435.0
Delta					2.0	7.0	6.0			15.0
Fordyce Dam			11.0	28.0	(*)	(*)	(*)	69.0	16.0	
Georgetown					12.0		18.0	1.0	T.	31.0
Greenville				4.0	20.0	30.0	41.5	5.0	5.0	105.5
Independence							T.			T.
Laporte		T.	2.4	32.8	37.2	95.6	115.7	49.0	9.6	342.3
Lick Observatory					7.0	3.5	9.8	8.0		28.3
Los Angeles										0.0
North Bloomfield					10.0	8.0	10.0			28.0
Pilot Creek				2.0	32.5	45.0	71.5	24.5	6.0	179.5
Quincy				1.0	17.5	19.0	35.0	1.0	1.0	74.5
Redbluff										0.0
Sacramento										0.0
San Francisco										0.0
Summerdale				4.0	22.0	44.0	54.0	17.0	3.0	144.0
Susanville				2.0	10.0	20.0	22.0	1.0	1.0	56.0
Truckee				4.0	29.5	96.0	50.0	9.0	4.5	193.0

MONTHLY AND SEASONAL SNOWFALL 1903–1904—Continued.

States and stations.	1903.				1904.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Colorado.										
Boulder	1.0	10.5	2.2	2.5	2.0	3.0	16.0	1.0	.....	38.2
Boxelder	.....	1.0	4.0	(*)	(*)	(*)	(*)	(*)	(*)	.....
Breckenridge	9.7	17.5	32.0	33.0	33.0	39.5	51.0	17.5	41.0	274.2
Buenavista	.....	.....	T.	T.	.....	2.0	11.0	16.0	(*)	.....
Castlerock	.....	5.2	2.0	6.0	2.5	4.6	2.5	.....	.....	22.8
Cheyenne Wells	.....	0.0	1.0	2.0	T.	T.	1.5	.....	.....	4.5
Clearview	.....	12.0	1.0	11.0	6.5	8.5	27.0	21.5	.....	87.5
Colorado Springs	.....	9.0	3.0	0.5	4.1	0.8	3.2	0.3	.....	20.9
Denver	T.	4.4	1.5	5.0	1.1	2.5	10.3	2.4	.....	27.2
Fort Collins	.....	1.8	1.2	1.0	0.6	2.5	2.0	.....	.....	9.1
Gilman	1.5	8.5	11.5	13.2	39.5	22.8	37.0	9.0	12.5	155.5
Grand Junction	.....	.....	T.	0.3	4.7	4.8	1.2	T.	.....	11.0
Hoehne	.....	5.5	3.0	3.0	5.0	3.0	(*)	(*)	.....	.....
Husted	T.	8.0	6.8	2.4	3.4	1.4	6.5	4.0	T.	32.5
Lake Moraine	T.	33.5	3.2	6.7	5.6	5.8	43.8	33.2	52.0	183.8
Lamar	.....	.....	2.0	9.0	.....	.....	T.	.....	.....	11.0
Las Animas	.....	.....	4.0	.....	.....	.....	(*)	.....	.....	.....
Leadville (near)	1.0	2.8	9.0	5.4	7.0	11.5	21.5	6.5	18.0	82.7
Longs Peak	13.0	17.5	3.4	3.5	4.5	13.0	16.0	5.0	29.0	104.9
Marshall Pass	9.5	18.0	16.0	14.0	33.0	25.0	54.0	1.0	5.0	175.5
Meeker	4.0	T.	.....	4.7	18.4	8.7	10.8	T.	.....	46.6
Pagoda	.....	.....	2.0	9.0	25.0	15.0	22.0	8.0	.....	81.0
Pueblo	.....	2.0	2.0	0.4	1.4	3.1	1.0	0.2	.....	10.1
Rockyford	.....	1.0	4.0	6.0	T.	T.	T.	.....	.....	11.0
Ruby	6.0	9.0	20.0	14.0	49.0	74.0	81.0	36.8	(*)	.....
Saguache	.....	1.0	.....	T.	0.5	0.5	2.0	T.	.....	4.0
Salida	.....	6.8	.....	1.1	0.8	3.0	7.8	13.5	2.0	35.0
San Luis	.....	.....	.....	T.	T.	2.0	3.0	6.0	.....	11.0
Trinidad	.....	7.0	2.0	11.0	12.0	3.0	3.5	.....	.....	38.5
Wray	.....	.....	0.5	T.	0.2	2.0	0.5	T.	.....	3.2
Connecticut.										
Canton	.....	0.2	T.	19.0	23.5	7.0	7.0	3.0	.....	59.7
Hawleyville	.....	T.	.....	19.0	24.0	9.0	8.0	1.0	.....	61.0
New Haven	.....	T.	T.	10.4	19.3	5.7	7.3	T.	.....	42.7
New London	.....	T.	T.	4.0	32.5	9.5	2.8	T.	.....	48.8
Southington	.....	0.5	T.	12.5	24.0	6.5	6.5	0.5	.....	50.5
West Simsbury	.....	0.5	T.	17.0	21.0	7.0	8.0	4.0	.....	57.5
Delaware.										
Millsboro	.....	.....	T.	(*)	7.0	6.0	T.	.....	.....	.....
Seaford	.....	.....	0.2	4.0	7.0	5.5	(*)	.....	.....	.....
District of Columbia.										
Washington	.....	.....	0.6	1.3	16.5	1.8	T.	T.	.....	20.2
Florida.										
Jacksonville	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Pensacola	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Tampa	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Georgia.										
Adairsville	.....	.....	T.	.....	5.5	.....	.....	.....	.....	5.5
Atlanta	.....	.....	.....	1.2	7.6	T.	.....	.....	.....	8.8
Augusta	.....	.....	.....	T.	.....	.....	.....	.....	.....	T.
Clayton	.....	.....	.....	1.0	8.8	.....	.....	.....	.....	9.8
Covington	.....	.....	T.	2.0	T.	.....	.....	.....	.....	2.0
Dahlonega	.....	.....	T.	T.	8.2	T.	.....	.....	.....	8.2
Harrison	.....	.....	.....	.....	0.1	.....	.....	.....	.....	0.1
Macon	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Savannah	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Talbotton	.....	.....	.....	T.	T.	.....	.....	.....	.....	T.
Idaho.										
Blackfoot	.....	.....	4.0	7.5	6.0	1.0	4.0	T.	.....	22.5
Boise	.....	.....	4.7	5.1	5.6	3.7	10.2	T.	.....	29.3
Burnside	3.5	.....	7.0	5.0	3.0	21.0	14.0	(*)	T.	.....

MONTHLY AND SEASONAL SNOWFALL 1903–1904—Continued.

States and stations.	1903.				1904.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Idaho—Continued.										
Chesterfield	T.	2.0	5.0	4.0	9.0	6.0	16.0	T.	.....	42.0
Lakeview	.....	.....	20.5	4.0	10.0	23.0	36.0	(*)	(*)	.....
Lewiston	.....	.....	2.3	1.9	3.2	1.2	5.4	.....	.....	14.0
Lost River	T.	.....	8.0	2.5	2.0	20.0	21.0	1.0	T.	54.5
Moscow	.....	.....	13.6	8.0	11.0	13.6	(*)	.....	.....	.....
Murray	.....	.....	40.0	12.0	31.0	56.0	46.0	T.	T.	185.0
Oakley	.....	.....	11.5	3.0	3.0	3.5	4.0	5.0	.....	30.0
Ola	.....	.....	8.2	6.3	19.2	19.5	3.9	.....	.....	57.1
Payette	.....	.....	3.0	2.0	21.0	14.0	(*)	.....	.....	.....
Pocatello	T.	T.	11.7	8.7	12.4	6.1	11.8	4.1	.....	54.8
St. Maries	.....	.....	10.7	4.2	23.0	19.2	26.5	.....	.....	83.6
Soldier	1.0	.....	28.0	16.5	18.0	72.0	48.5	3.5	.....	187.5
Illinois.										
Albion	.....	.....	2.7	2.2	18.7	(*)	T.	2.0	.....	.....
Alexander	.....	.....	1.0	3.5	10.5	3.0	1.5	T.	.....	19.5
Ashton	.....	T.	1.0	16.2	7.2	16.0	13.3	2.5	.....	56.2
Bloomington	.....	.....	0.7	7.5	16.3	4.5	4.5	T.	.....	33.5
Cairo	.....	.....	2.7	0.6	2.9	1.7	T.	.....	.....	7.9
Cambridge	.....	.....	T.	11.3	4.1	9.0	9.2	3.5	.....	37.1
Carlinville	.....	.....	2.0	3.0	11.0	6.0	1.0	1.0	.....	24.0
Charleston	.....	.....	0.2	4.1	19.9	1.7	1.1	.....	.....	27.0
Chicago	.....	.....	2.2	18.6	11.0	13.4	14.3	T.	.....	59.5
Cisne	.....	.....	1.0	0.5	11.5	(*)	(*)	3.0	.....	.....
Cobden	.....	.....	1.0	T.	4.2	1.5	(*)	2.0	.....	.....
Greenville	.....	.....	3.0	3.4	20.4	1.0	0.4	4.5	.....	32.7
Joliet	.....	T.	1.9	14.6	10.3	14.4	11.1	0.8	.....	53.1
Mascoutah	.....	.....	1.8	3.1	16.0	1.3	(*)	6.0	.....	.....
Ottawa	.....	.....	2.0	13.1	10.9	18.2	9.0	T.	.....	53.2
Palestine	.....	.....	T.	1.2	14.5	(*)	T.	T.	.....	.....
Rantoul	.....	.....	1.2	4.5	21.3	9.0	4.0	T.	.....	40.0
Riley	.....	.....	2.1	14.9	7.7	12.0	12.9	0.6	.....	50.2
Springfield	.....	.....	0.6	4.4	11.9	4.6	2.1	0.1	.....	23.7
Indiana.										
Angola	.....	T.	4.6	15.5	16.9	7.6	15.1	0.8	T.	60.5
Bluffton	.....	.....	3.0	8.0	17.5	6.0	4.1	1.0	.....	39.6
Butlerville	.....	.....	3.6	5.5	14.6	1.9	0.7	T.	.....	26.3
Cambridge City	.....	.....	2.5	4.8	15.6	2.8	0.8	0.1	.....	26.6
Evansville	.....	.....	1.7	3.1	6.5	2.3	T.	3.0	.....	16.6
Greensburg	.....	.....	5.0	(*)	19.0	(*)	1.5	T.	.....	.....
Indianapolis	.....	.....	1.3	2.7	13.4	4.9	1.0	T.	.....	23.3
Kokomo	.....	.....	3.0	7.5	25.9	5.5	4.5	0.2	.....	46.6
Lafayette	.....	.....	3.3	7.2	24.5	9.0	3.2	0.8	.....	48.0
Laporte	.....	T.	10.1	23.7	21.0	7.0	9.0	T.	.....	70.8
Marengo	.....	.....	0.4	4.5	1.8	2.0	0.3	.....	.....	9.0
Markle	.....	T.	3.5	9.5	20.0	4.0	3.0	T.	.....	40.0
Richmond	.....	.....	1.5	0.5	12.4	2.3	0.3	(*)	.....	.....
Scottsburg	.....	.....	0.8	1.8	2.5	3.5	0.1	1.0	.....	9.7
South Bend	.....	T.	8.5	24.5	21.0	12.0	15.5	0.5	.....	82.0
Syracuse	.....	T.	6.0	17.5	33.5	6.0	8.5	T.	.....	71.5
Terre Haute	.....	.....	T.	6.2	23.5	3.5	2.0	.....	.....	35.2
Vevay	.....	.....	3.0	3.5	8.0	2.0	0.5	0.5	.....	17.5
Worthington	.....	.....	.....	.....	.....	(*)	T.	T.	.....	.....
Indian Territory.										
Ardmore	.....	.....	.....	.....	4.0	2.4	.....	.....	.....	6.4
Chickasha	.....	.....	.....	.....	1.0	T.	.....	.....	.....	1.0
Fairland	.....	.....	T.	T.	1.0	T.	.....	T.	.....	1.0
Hartshorne	.....	.....	.....	.....	4.0	1.0	.....	.....	.....	5.0
Healdton	.....	.....	.....	.....	4.0	3.0	.....	.....	.....	7.0
Muskogee	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Iowa.										
Algona	.....	.....	(*)	1.5	4.0	6.5	1.0	T.	.....	.....
Alta	.....	.....	1.0	2.0	4.0	7.5	0.6	T.	.....	15.1
Ames	.....	.....	.....	0.5	7.0	3.5	1.5	T.	.....	12.5

MONTHLY AND SEASONAL SNOWFALL, 1903–1904—Continued.

States and stations.	1903.				1904.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Iowa—Continued.										
Atlantic	.....	.....	6.0	2.5	3.5	1.5	4.5	1.8	.....	19.8
Britt	.....	.....	T.	3.4	4.6	4.4	0.9	2.0	.....	15.3
Cedar Rapids	.....	.....	(*)	3.5	(*)	(*)	0.2	.....	.....	.....
Chariton	.....	.....	0.1	T.	(*)	0.2	(*)	1.0	.....	.....
Clarinda	.....	.....	0.8	1.6	8.0	T.	8.0	1.0	.....	19.4
Corning	.....	.....	3.5	1.8	9.8	0.5	5.5	2.0	.....	23.1
Davenport	.....	.....	T.	6.9	3.6	6.8	7.9	T.	.....	25.2
Delaware	.....	.....	0.5	4.2	5.0	4.3	10.0	1.0	.....	25.0
Des Moines	.....	.....	0.1	1.6	5.0	3.5	4.5	0.2	.....	14.9
Dubuque	.....	.....	0.4	9.2	4.8	6.2	8.0	1.5	.....	30.1
Fayette	.....	.....	T.	(*)	(*)	5.6	6.8	1.5	.....	.....
Humboldt	.....	.....	(*)	2.2	2.9	5.0	(*)	.....	.....	.....
Independence	.....	.....	T.	6.3	6.4	4.5	8.1	2.0	.....	27.3
Iowa City	.....	.....	(*)	(*)	(*)	8.0	8.0	T.	.....	.....
Iowa Falls	.....	.....	T.	4.5	6.2	9.8	7.0	1.3	.....	28.8
Keokuk	.....	.....	0.2	2.2	8.8	3.1	4.7	T.	.....	19.0
Keosauqua	.....	.....	0.3	1.0	9.3	3.5	5.5	(*)	.....	.....
Logan	.....	.....	5.8	3.0	12.0	5.0	3.0	.....	.....	28.8
Sioux City	.....	.....	6.9	3.7	4.3	3.9	1.4	2.5	.....	22.7
Storm Lake	.....	.....	0.1	0.1	0.4	0.9	0.1	.....	.....	1.6
Thurman	.....	.....	0.2	5.2	7.0	T.	3.0	(*)	.....	.....
Waverly	.....	.....	T.	5.5	7.8	5.5	5.8	0.9	.....	25.5
Kansas.										
Achilles	.....	.....	T.	0.8	1.1	0.2	0.5	T.	.....	2.6
Burlington	.....	.....	0.5	0.3	3.0	0.5	T.	T.	.....	4.3
Colby	.....	.....	0.5	T.	T.	.....	T.	5.0	.....	5.5
Columbus	.....	.....	0.5	0.9	0.8	1.0	.....	3.0	.....	6.2
Concordia	.....	.....	0.3	0.3	1.5	0.2	0.2	T.	.....	2.5
Dodge	.....	.....	0.1	T.	0.1	T.	T.	.....	.....	0.2
Emporia	.....	.....	4.0	T.	0.3	T.	T.	T.	.....	4.3
Englewood	.....	.....	T.	T.	0.2	.....	.....	.....	.....	0.2
Eureka Ranch	.....	.....	T.	T.	1.6	T.	T.	0.3	.....	1.9
Fallriver	.....	.....	T.	T.	0.2	T.	.....	T.	.....	0.2
Frankfort	.....	.....	1.5	1.0	4.5	0.5	5.0	2.5	.....	15.0
Garden City	.....	.....	1.0	1.0	1.0	T.	T.	.....	.....	3.0
Grenola	.....	.....	0.0	.....	T.	0.5	.....	T.	.....	0.5
Hays	.....	.....	.....	T.	1.0	T.	.....	.....	.....	1.0
Horton	.....	.....	1.0	0.5	0.8	0.5	5.0	2.0	.....	9.8
Hutchinson	.....	.....	T.	.....	0.5	T.	.....	.....	.....	0.5
Independence	.....	.....	.....	T.	0.5	0.1	.....	T.	.....	0.6
Lakin	.....	.....	0.5	0.8	T.	T.	T.	.....	.....	1.3
McPherson	.....	.....	.....	.....	T.	T.	.....	T.	.....	T.
Manhattan	.....	T.	3.0	1.0	2.3	T.	2.0	4.0	.....	12.3
Marion	.....	.....	T.	T.	3.0	.....	T.	4.0	.....	7.0
Medicine Lodge	.....	.....	.....	.....	0.1	.....	.....	.....	.....	0.1
Minneapolis	.....	.....	0.5	.....	1.4	T.	T.	T.	.....	1.9
Moran	.....	.....	1.0	3.5	0.5	T.	T.	1.5	.....	6.5
Ness City	.....	.....	(*)	1.0	T.	.....	.....	.....	.....	.....
Pratt	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Rome	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Sedan	.....	.....	.....	T.	T.	T.	.....	.....	.....	T.
Topeka	.....	.....	2.0	1.0	1.8	0.4	3.9	2.1	.....	11.2
Viroqua	.....	.....	1.0	1.0	T.	T.	T.	.....	.....	2.0
Wichita	.....	.....	.....	.....	0.8	T.	.....	T.	.....	0.8
Kentucky.										
Alpha	.....	.....	1.0	1.5	0.5	3.0	0.5	8.0	.....	14.5
Bowling Green	.....	.....	1.2	.....	T.	2.0	.....	5.0	.....	8.2
Catlettsburg	.....	.....	3.5	T.	T.	3.0	T.	T.	.....	6.5
Earlington	.....	.....	1.8	0.5	1.2	4.0	.....	6.0	.....	13.5
Edmonton	.....	.....	3.0	.....	1.0	1.5	0.1	8.0	.....	13.6
Eubank	.....	.....	2.0	4.5	(*)	(*)	(*)	.....	.....	.....
Falmouth	.....	.....	2.2	0.2	3.0	3.5	1.0	.....	.....	9.9
Irvington	.....	.....	T.	2.5	1.5	2.0	T.	T.	.....	6.0
Lexington	.....	.....	5.6	6.5	4.8	3.5	0.1	1.5	.....	22.0
Louisville	.....	.....	1.2	1.9	1.1	3.5	0.2	.....	.....	7.9
Marrowbone	.....	.....	(*)	(*)	1.0	1.5	.....	.....	.....	.....

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	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Kentucky—Continued.										
Paducah	.....	.....	2.0	T.	3.0	2.0	.....	T.	.....	7.0
Scott	.....	.....	2.4	2.1	6.2	1.4	0.6	0.1	.....	12.8
Williamsburg	.....	.....	2.2	3.3	5.8	1.4	0.6	2.0	.....	15.3
Louisiana.										
Collinston	.....	.....	.....	T.	2.0	.....	.....	.....	.....	2.0
Lake Providence	.....	.....	.....	.....	4.0	.....	.....	.....	.....	4.0
Monroe	.....	.....	.....	.....	3.0	.....	.....	.....	.....	3.0
Shreveport	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Maine.										
Bar Harbor	.....	1.0	17.5	7.5	29.5	21.5	22.5	12.0	.....	111.5
Belfast	.....	T.	15.5	12.0	37.0	11.0	9.0	12.0	.....	96.5
Eastport	.....	1.2	13.2	15.3	22.3	21.0	18.3	9.7	.....	101.0
Farmington	.....	T.	5.0	21.5	31.5	12.0	5.0	12.5	.....	87.5
Gardiner	.....	.....	2.8	8.0	30.8	14.8	8.5	11.0	.....	75.9
Lewiston	.....	.....	4.0	15.6	32.0	14.1	10.3	16.0	.....	92.0
Mayfield	.....	0.5	7.0	12.0	29.0	14.5	8.0	12.0	.....	83.0
Orono	.....	1.0	15.5	9.2	34.0	18.0	12.0	3.5	.....	93.2
Portland	.....	.....	2.8	6.8	31.3	15.6	7.5	9.9	.....	73.9
Rumford Falls	T.	T.	2.0	16.0	30.8	12.5	8.5	19.5	.....	89.3
Winslow	.....	.....	4.5	12.0	29.0	15.0	8.0	7.0	.....	75.5
Maryland.										
Baltimore	.....	.....	1.0	3.8	16.6	2.5	2.0	.....	.....	25.9
Cumberland	.....	.....	1.0	1.0	26.0	(*)	2.0	.....	.....	.....
Deerpark	.....	T.	7.0	17.7	31.6	7.0	(*)	4.5	.....	.....
Easton	.....	.....	T.	3.9	4.2	2.8	(*)	.....	.....	.....
Frederick	.....	T.	1.0	5.0	15.0	1.0	0.8	.....	.....	22.8
Hancock	.....	.....	0.2	1.0	16.5	2.1	1.5	.....	.....	21.3
Newmarket	.....	T.	0.5	10.2	24.0	1.0	1.2	T.	.....	36.9
Massachusetts.										
Amherst	.....	T.	T.	12.0	23.5	10.0	11.0	2.0	.....	58.5
Bedford	.....	T.	T.	9.0	38.0	12.0	3.0	6.5	.....	68.5
Boston	.....	.....	0.5	10.6	35.7	16.5	8.9	1.4	.....	73.6
Concord	.....	T.	0.7	9.6	32.1	12.1	8.4	7.7	.....	70.6
East Templeton	.....	T.	1.0	11.8	23.0	11.0	11.0	5.0	.....	62.8
Fitchburg	.....	T.	0.2	13.5	26.0	10.5	10.2	4.5	.....	64.9
Groton	.....	.....	T.	15.0	43.5	14.0	16.0	9.0	.....	97.5
Hyannis	.....	0.2	14.2	4.2	31.0	14.7	8.0	0.5	.....	72.8
Jefferson	.....	T.	1.8	15.2	28.0	11.5	12.5	7.0	.....	76.0
Nantucket	.....	T.	7.2	7.8	39.5	19.1	8.4	T.	.....	82.0
Pittsfield	.....	.....	(*)	16.0	21.0	8.5	11.5	8.0	.....	.....
Plymouth	.....	T.	0.4	4.5	26.0	(*)	4.0	6.0	.....	.....
Weston	.....	.....	1.7	9.9	30.9	14.6	10.8	2.2	.....	70.1
Worcester	.....	T.	0.5	14.8	35.8	8.9	11.2	2.4	.....	73.6
Michigan.										
Adrian	.....	.....	T.	(*)	10.0	(*)	(*)	(*)	.....	.....
Alma	.....	T.	2.5	15.5	17.0	20.0	14.0	9.0	.....	78.0
Alpena	.....	T.	4.3	9.9	10.2	19.2	15.4	7.8	T.	66.8
Ann Arbor	.....	T.	2.5	10.4	11.0	5.4	11.4	1.5	.....	42.2
Arbela	.....	T.	4.0	8.9	29.0	7.0	11.0	17.0	.....	76.9
Ball Mountain	.....	.....	1.7	12.5	20.2	7.4	16.2	8.7	.....	66.7
Battlecreek	.....	T.	8.0	20.0	10.5	6.0	16.0	T.	.....	60.5
Berrien Springs	.....	T.	(*)	(*)	18.0	14.0	18.5	T.	.....	.....
Calumet	T.	T.	38.0	54.2	33.5	10.9	21.0	10.5	3.0	171.1
Charlevoix	.....	T.	3.0	23.0	14.0	7.0	6.0	5.0	T.	58.0
Cheboygan	.....	T.	7.0	14.0	5.0	(*)	6.0	T.	T.	.....
Detroit	.....	T.	2.3	12.3	20.1	5.8	14.7	1.8	.....	57.0
Escanaba	.....	T.	6.9	10.4	5.2	18.7	15.7	0.9	0.2	58.0
Eloise	.....	.....	2.2	8.6	24.6	(*)	(*)	0.5	.....	.....
Gladwin	.....	.....	(*)	(*)	6.0	18.0	12.0	13.7	.....	.....
Grand Haven	.....	T.	T.	10.0	5.7	(*)	(*)	(*)	.....	.....
Grand Rapids	.....	T.	5.0	22.1	15.6	11.9	20.0	3.2	.....	77.8

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States and stations.	1903.				1904.					Annual.
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Michigan—Continued.										
Harrisville	.....	.....	4.9	22.2	21.8	38.2	13.0	12.6	.....	112.7
Hart	.....	.....	5.0	43.0	32.0	20.7	(*)	(*)	(*)	.....
Houghton	.....	T.	35.5	41.7	40.8	25.0	35.4	7.6	2.5	188.5
Ishpeming	T.	T.	30.2	15.0	14.0	14.5	30.5	4.5	1.0	109.7
Ivan	.....	0.5	19.0	(*)	8.5	23.5	8.5	15.0	T.	.....
Lansing	.....	T.	2.0	13.0	18.3	9.8	15.2	7.3	.....	65.6
Mancelona	.....	0.2	12.0	52.0	22.0	10.0	4.0	4.0	.....	104.2
Marquette	.....	0.5	40.4	27.9	28.9	18.4	36.0	4.1	.....	156.2
Olivet	.....	T.	3.0	19.3	16.4	9.0	14.1	4.0	.....	65.8
Port Austin	.....	.....	3.5	11.5	22.5	28.0	16.0	T.	.....	81.5
Port Huron	.....	T.	29.2	15.6	18.4	3.7	9.7	12.0	2.4	91.0
Sault Ste. Marie	T.	0.3	10.4	14.2	6.7	12.2	10.9	0.6	0.6	55.9
Thornville	.....	T.	5.0	19.0	33.0	12.5	8.0	14.0	.....	91.5
Minnesota.										
Albert Lea	.....	.....	T.	14.0	6.0	4.0	1.0	4.0	.....	29.0
Alexandria	.....	.....	0.3	4.0	4.0	6.0	13.0	(*)	.....	.....
Beardsley	.....	.....	0.5	(*)	4.5	(*)	3.0	(*)	.....	.....
Bird Island	.....	.....	2.0	5.3	4.0	4.6	3.5	T.	.....	19.4
Brainerd	.....	.....	3.0	11.5	4.0	12.0	16.5	5.0	.....	52.0
Caledonia	.....	.....	T.	10.5	7.0	7.0	4.5	2.3	.....	31.3
Collegeville	.....	.....	0.6	4.8	4.8	8.2	9.2	2.4	.....	30.0
Crookston	.....	.....	8.2	13.0	3.0	18.0	26.1	14.0	.....	82.3
Duluth	.....	T.	9.5	13.9	2.2	14.7	13.4	3.1	T.	56.8
Detroit City	.....	T.	3.0	5.0	(*)	10.0	7.5	14.6	.....	.....
Farmington	.....	.....	3.0	7.0	5.5	8.5	5.5	9.0	.....	38.5
Fergus Falls	.....	1.3	2.1	7.3	4.2	6.9	8.5	1.5	.....	31.8
Grand Meadow	.....	.....	0.2	(*)	6.5	9.0	3.5	3.0	.....	.....
Hallock	.....	.....	5.5	13.5	2.0	8.6	13.2	(*)	.....	.....
Lake Winnibigoshish	.....	.....	9.7	10.7	3.3	13.6	21.4	2.6	.....	61.3
Long Prairie	.....	T.	1.5	3.0	1.6	6.8	11.5	2.5	.....	26.9
Luverne	.....	.....	(*)	12.5	4.0	5.5	1.5	T.	.....	.....
Minneapolis	.....	.....	2.5	8.3	8.5	13.2	5.8	7.8	.....	46.1
Montevideo	.....	.....	2.5	5.1	(*)	4.0	2.5	T.	.....	.....
Moorhead	.....	0.6	2.4	9.0	4.2	11.8	12.2	17.4	.....	57.6
Morris	.....	.....	1.5	5.3	4.0	3.5	9.0	0.5	.....	23.8
Mount Iron	.....	0.5	19.3	27.2	5.0	14.0	27.0	1.0	1.0	95.0
New Ulm	.....	.....	0.8	11.2	10.0	8.0	3.2	1.0	.....	34.2
Park Rapids	.....	.....	4.4	8.7	3.0	14.6	16.9	17.0	.....	64.6
Pokegama Falls	.....	.....	9.8	13.3	1.5	14.5	15.1	4.2	.....	58.4
Reeds	.....	.....	2.3	10.5	3.7	13.2	5.3	1.3	.....	36.3
St. Paul	.....	.....	2.9	6.3	7.2	7.7	7.4	10.2	.....	41.7
Sandy Lake Dam	.....	.....	8.3	15.2	4.6	19.1	15.1	4.7	.....	67.0
Mississippi.										
Austin	.....	.....	.....	1.0	T.	.....	.....	.....	.....	1.0
Canton	.....	.....	.....	.....	5.0	.....	.....	.....	.....	5.0
Jackson	.....	.....	.....	.....	11.7	.....	.....	.....	.....	11.7
Meridian	.....	.....	.....	T.	7.6	.....	.....	.....	.....	7.6
Vicksburg	.....	.....	.....	T.	5.5	.....	.....	.....	.....	5.5
Missouri.										
Birchtree	.....	.....	0.5	2.0	5.7	T.	.....	T.	.....	8.2
Brunswick	.....	.....	1.0	1.8	14.8	1.0	3.0	6.0	.....	27.6
Columbia	.....	.....	1.4	4.3	9.6	1.4	0.2	1.8	.....	18.7
Conception	.....	.....	1.0	3.5	11.0	1.5	3.5	2.0	.....	22.5
Edgehill	.....	.....	0.5	1.5	5.7	0.2	.....	.....	.....	7.9
Fayette	.....	.....	1.0	3.2	6.8	1.0	0.5	6.0	.....	18.5
Gallatin	.....	.....	0.2	2.5	(*)	(*)	(*)	4.0	.....	.....
Halfway	.....	.....	T.	2.0	7.0	2.0	T.	T.	.....	11.0
Hannibal	.....	.....	3.9	2.4	13.6	4.4	3.4	8.5	.....	36.2
Harrisonville	.....	.....	T.	2.0	2.0	0.7	0.3	3.0	.....	8.0
Houston	.....	.....	T.	1.2	4.6	1.5	T.	T.	.....	7.3
Ironton	.....	.....	0.5	1.8	8.5	0.2	T.	T.	.....	11.0
Kansas City	.....	.....	0.6	1.8	3.3	0.5	1.8	3.0	.....	11.0
Lamar	.....	.....	.....	2.5	2.0	T.	T.	T.	.....	4.5
Lebanon	.....	.....	.....	3.5	5.5	4.0	.....	.....	.....	13.0

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Missouri—Continued.										
Marblehill	.....	.....	1.5	0.4	9.3	0.3	.....	.....	.....	11.5
Mineralspring	.....	.....	.....	0.5	2.5	0.8	(*)	1.0	.....	.....
Neosho	.....	.....	T.	1.0	3.0	0.5	.....	2.0	.....	6.5
New Haven	.....	.....	2.0	5.0	19.5	3.0	T.	2.0	.....	31.5
Oakfield	.....	.....	2.5	3.0	12.9	2.8	T.	5.5	.....	26.7
Princeton	.....	.....	3.5	0.4	11.9	3.3	4.5	9.0	.....	32.6
St. Louis	.....	.....	1.5	2.8	14.3	2.5	T.	5.5	.....	26.6
Springfield	.....	.....	T.	2.0	2.3	1.4	T.	1.5	.....	7.2
Sublett	.....	.....	7.0	4.0	10.5	1.5	5.0	7.4	.....	35.4
Montana.										
Adel	3.0	2.0	13.0	10.0	10.0	9.5	22.0	T.	.....	69.5
Boulder	4.9	.....	.....	(*)	6.7	12.8	4.3	1.5	T.	.....
Butte	5.0	T.	16.5	8.5	14.0	29.2	20.5	(*)	.....	.....
Crow Agency	T.	.....	5.0	13.0	6.0	24.0	25.5	.....	T.	73.5
Dillon	T.	T.	13.7	10.1	6.6	15.4	12.1	6.4	T.	64.3
Fort Benton	.....	.....	4.0	3.0	(*)	7.0	10.0	1.2	.....	.....
Glendive	T.	.....	T.	7.5	14.5	4.0	22.0	0.5	T.	48.5
Greatfalls	T.	T.	8.3	9.1	1.7	4.9	6.5	T.	.....	30.5
Havre	.....	T.	4.8	0.9	1.5	5.7	8.6	0.4	6.2	28.1
Helena	1.0	T.	16.7	6.8	6.7	9.4	17.3	0.5	1.1	59.5
Kalispell	T.	T.	24.5	7.3	11.1	17.2	13.3	.....	.....	73.4
Marysville	7.5	T.	32.0	(*)	29.0	25.0	38.8	1.8	14.0	.....
Miles City	1.6	0	1.4	1.4	4.4	2.8	21.2	.....	.....	32.8
Ovando	.....	.....	11.0	10.5	24.2	17.0	16.0	0.5	T.	79.2
Parrot	T.	.....	(*)	(*)	(*)	18.8	7.9	0.9	.....	.....
Poplar	T.	.....	3.5	3.5	10.5	1.5	35.0	1.0	.....	55.0
St. Pauls	T.	T.	10.4	5.5	7.5	15.0	40.0	1.0	(*)	.....
Troy	.....	T.	19.0	6.0	19.0	25.0	17.5	T.	.....	86.5
Utica	2.0	0.5	5.0	12.0	2.5	4.0	12.0	1.0	(*)	.....
Yale	6.0	.....	19.0	13.0	11.0	16.0	17.0	1.0	4.0	87.0
Nebraska.										
Agee	.....	.....	4.5	4.0	4.9	(*)	(*)	(*)	.....	.....
Albion	.....	.....	4.0	.....	3.5	1.0	5.0	.....	.....	13.5
Alliance	3.5	.....	0.5	2.5	1.8	0.7	T.	T.	.....	9.0
Ansley	.....	.....	1.0	0.3	1.5	1.2	4.0	T.	.....	8.0
Ashland	.....	.....	2.0	T.	3.6	1.0	3.0	.....	.....	9.6
Ashton	.....	.....	2.0	T.	1.8	T.	T.	T.	.....	3.8
Auburn	.....	.....	1.0	0.7	5.4	1.0	4.0	1.0	.....	13.1
Beatrice	.....	.....	2.0	0.5	0.5	.....	4.5	.....	.....	7.5
Beaver	.....	.....	.....	0.1	T.	0.5	T.	.....	.....	0.6
Callaway	.....	.....	T.	T.	T.	T.	T.	.....	.....	T.
Chester	.....	.....	.....	1.0	1.5	T.	4.5	1.0	.....	8.0
Culbertson	.....	.....	T.	2.0	1.0	2.0	2.0	.....	.....	7.0
Dawson	.....	.....	0.2	(*)	4.5	0.5	3.0	T.	.....	.....
Ericson	.....	.....	5.5	1.0	8.5	4.0	2.0	(*)	.....	.....
Fairmont	.....	.....	2.0	T.	2.0	1.0	1.0	1.0	.....	7.0
Geneva	.....	.....	2.0	1.0	0.6	1.5	1.0	.....	.....	6.1
Genoa	.....	.....	2.0	T.	2.0	0.1	0.2	0.5	.....	4.8
Hartington	.....	.....	(*)	(*)	5.0	6.3	(*)	(*)	.....	.....
Hay Springs	.....	.....	T.	T.	5.0	1.3	T.	0.6	T.	6.9
Kearney	.....	.....	.....	T.	2.1	0.1	0.5	(*)	.....	.....
Kennedy	2.0	.....	T.	4.0	12.0	1.0	2.0	0.2	.....	21.2
Kimball	2.0	.....	1.5	T.	0.5	4.0	T.	2.0	.....	10.0
Kirkwood	.....	.....	2.5	1.2	6.1	2.7	T.	2.0	.....	14.5
Lincoln	.....	.....	1.3	0.7	5.6	0.7	3.8	1.0	.....	13.1
Lodgepole	.....	.....	T.	0.8	T.	2.0	T.	(*)	.....	.....
Madrid	.....	.....	.....	3.0	T.	2.0	.....	.....	.....	5.0
Norfolk	.....	.....	4.0	2.4	7.4	2.5	3.0	2.0	.....	21.3
North Loup	.....	.....	1.2	T.	1.7	1.3	1.8	.....	.....	6.0
North Platte	.....	.....	.....	0.2	1.2	1.0	0.6	.....	.....	3.0
Omaha	.....	.....	1.8	1.5	4.9	1.0	4.8	0.5	.....	14.5
St. Libory	.....	.....	4.0	T.	1.5	T.	4.0	.....	.....	9.5
Valentine	1.0	0.0	0.3	1.1	5.3	1.9	3.6	4.0	.....	17.2
West Point	.....	.....	3.0	1.1	1.8	0.8	3.0	3.0	.....	12.7

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Nevada.										
Battle Mountain	.....	.....	.....	11.0	11.0	7.0	4.0	.....	(*)	.....
Candelaria	.....	.....	.....	T.	T.	2.5	T.	1.5	.....	4.0
Carson City	.....	.....	.....	1.0	6.6	7.5	6.6	0.1	T.	21.8
Elko	.....	.....	.....	3.5	17.0	12.0	14.5	4.0	5.0	56.0
Ely	.....	.....	.....	.....	6.2	14.5	3.0	4.0	(*)	.....
Golconda	.....	.....	.....	T.	1.0	3.0	6.0	.....	.....	.....
Halleck	.....	.....	.....	.....	(*)	(*)	8.2	6.0	(*)	.....
Humboldt	.....	.....	.....	1.0	4.5	T.	2.5	2.5	2.0	12.5
Lovelocks	.....	.....	.....	.....	(*)	(*)	(*)	T.	.....	.....
Martine	.....	.....	.....	.....	2.0	7.0	2.0	.....	.....	11.0
Mill City	.....	.....	.....	.....	2.0	6.0	2.0	.....	.....	10.0
Palisade	.....	.....	.....	.....	(*)	(*)	(*)	3.0	.....	.....
Palmetto	.....	.....	.....	.....	5.0	9.0	8.0	5.0	3.0	30.0
Potts	.....	.....	.....	1.0	2.0	4.5	3.0	8.5	5.5	24.5
Reno, State University	.....	.....	.....	(*)	1.7	2.0	(*)	T.	.....	.....
Sodaville	.....	.....	.....	.....	.....	(*)	.....	2.0	T.	.....
Tecoma	.....	.....	6.0	0.5	.....	.....	.....	7.0	.....	.....
Toano	T.	.....	.....	1.0	4.0	(*)	4.0	10.0	.....	.....
Wadsworth	.....	.....	.....	.....	0.5	(*)	T.	.....	.....	.....
Winnemucca	T.	0.0	0.0	0.2	4.6	4.4	6.5	T.	T.	15.7
New Hampshire.										
Berlin Mills	.....	2.0	0.8	12.8	28.0	13.5	4.3	(*)	.....	.....
Bethlehem	.....	3.0	2.5	11.5	18.0	10.0	4.0	22.0	.....	71.0
Brookline	.....	T.	0.3	13.8	33.5	12.8	11.0	10.0	.....	81.4
Concord	.....	T.	0.3	16.1	27.1	14.5	7.9	10.0	.....	75.9
Grafton	T.	1.0	3.5	13.5	27.5	12.5	11.0	15.0	.....	84.0
Littleton	T.	5.0	4.0	19.0	15.0	5.5	7.5	21.0	.....	77.0
New Jersey.										
Asbury Park	.....	.....	2.0	4.8	15.7	6.2	2.6	T.	.....	31.3
Atlantic City	.....	.....	0.2	3.0	9.8	4.9	2.0	0.3	.....	20.2
Belvidere	.....	.....	T.	22.2	23.0	5.0	6.5	1.0	.....	57.7
Bridgeton	.....	.....	.....	7.5	5.0	4.0	0.5	.....	.....	17.0
Cape May	.....	T.	T.	3.0	7.6	5.6	1.1	T.	.....	17.3
Chester	.....	T.	.....	21.0	19.0	7.0	6.0	0.5	.....	53.5
Dover	.....	T.	T.	17.5	24.0	5.5	6.2	.....	.....	53.2
New Brunswick	.....	T.	T.	7.8	15.5	5.9	7.0	0.2	.....	36.4
Sussex	.....	T.	T.	13.5	34.4	4.0	4.5	T.	.....	56.4
New Mexico.										
Albert	.....	.....	.....	T.	T.	T.	T.	T.	.....	T.
Albuquerque	.....	.....	.....	.....	2.0	1.0	.....	.....	.....	3.0
Arabela	.....	.....	.....	.....	1.5	T.	.....	.....	.....	1.5
Fort Union	T.	0.5	.....	0.5	T.	2.0	1.3	.....	.....	4.3
Gallinas Springs	.....	.....	.....	0.5	3.5	(*)	(*)	.....	.....	.....
Las Vegas	.....	.....	T.	2.0	2.0	3.0	T.	1.0	.....	8.0
Raton	.....	.....	0.1	2.5	3.0	.....	4.0	2.0	.....	11.6
San Marcial	.....	.....	.....	.....	2.0	T.	.....	.....	.....	2.0
Santa Fe	.....	.....	.....	0.3	2.1	2.7	0.6	T.	T.	5.7
New York.										
Adams	.....	2.0	29.5	88.0	73.0	62.5	26.5	26.0	.....	307.5
Albany	.....	0.3	T.	12.5	20.8	8.2	11.1	5.0	.....	57.9
Baldwinsville	.....	T.	21.0	22.0	35.5	22.0	.....	(*)	.....	.....
Bedford	.....	.....	T.	1.4	5.3	(*)	(*)	(*)	.....	.....
Binghamton	.....	0.2	0.7	22.6	22.6	4.2	7.7	1.5	.....	59.5
Bolivar	T.	1.3	5.9	11.8	26.5	14.5	5.5	6.9	.....	72.4
Bouckville	.....	6.0	9.5	41.0	44.0	17.0	11.0	14.0	.....	142.5
Buffalo	.....	0.2	1.1	25.4	39.2	18.2	10.5	13.9	.....	108.5
Caldwell	.....	T.	2.5	14.0	16.9	14.0	12.4	8.5	.....	68.3
Carmel	.....	T.	T.	19.5	23.0	10.0	7.0	0.2	.....	59.7
Cooperstown	.....	5.5	5.0	15.2	32.3	15.2	7.0	7.0	.....	87.2
Elmira	.....	T.	T.	7.0	17.3	6.2	2.8	T.	.....	33.3
Franklinville	.....	2.4	7.2	23.6	44.3	20.8	7.1	9.6	.....	115.0
Glens Falls	.....	T.	2.0	17.7	28.3	11.5	6.2	8.5	.....	74.2

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New York—Continued.										
Gloversville	.....	0.5	1.2	28.0	37.5	17.8	16.7	7.0	.....	108.7
Ithaca	.....	0.4	3.5	13.3	32.9	8.8	10.2	5.4	.....	74.5
Jamestown	.....	0.8	19.8	16.0	23.5	16.7	7.8	10.8	.....	95.4
Littlefalls (C. R.)	.....	2.0	8.0	26.5	35.5	12.5	13.5	4.0	.....	102.0
Lowville	.....	1.0	18.0	38.5	22.3	17.7	8.8	13.3	.....	119.6
Middletown	.....	T.	T.	24.0	16.5	6.5	7.5	T.	.....	54.5
New Lisbon	.....	1.0	4.0	25.0	35.2	6.0	10.5	7.0	.....	88.7
New York	.....	T.	T.	7.7	15.2	5.6	4.4	0.1	.....	33.0
North Hammond	.....	.....	T.	0.5	49.0	9.5	6.0	4.1	.....	69.1
Oswego	.....	5.0	8.6	33.8	26.6	19.3	11.4	11.2	.....	115.9
Oxford	.....	2.5	1.0	47.9	36.8	13.6	15.2	7.2	.....	124.2
Rochester	.....	0.6	4.4	16.1	27.2	17.2	10.7	19.5	.....	95.7
Saranac Lake	T.	2.0	6.4	30.5	19.5	11.2	8.3	16.4	.....	94.3
Saratoga Springs	.....	T.	T.	14.1	32.5	13.3	16.0	6.0	.....	81.9
Setauket	.....	T.	T.	6.2	16.0	4.1	6.0	0.5	.....	32.8
Syracuse	.....	1.7	7.3	24.0	39.0	15.6	13.2	11.2	.....	112.0
North Carolina.										
Asheville	.....	.....	0.1	1.0	6.8	0.8	T.	3.0	.....	11.7
Charlotte	.....	.....	T.	T.	1.5	1.6	.....	0.8	.....	3.9
Edenton	.....	.....	4.0	.....	T.	6.0	.....	.....	.....	10.0
Hatteras	.....	.....	1.0	0.0	1.2	0.5	.....	.....	.....	2.7
Henderson	.....	T.	1.5	.....	3.5	7.5	T.	.....	.....	12.5
Linville	.....	.....	6.0	9.0	13.0	3.0	1.0	2.0	.....	34.0
Littleton	.....	.....	0.5	0.5	7.0	7.5	.....	.....	.....	15.5
Lumberton	.....	.....	.....	T.	3.5	1.0	.....	.....	.....	4.5
Monroe	.....	.....	.....	T.	0.2	0.5	.....	T.	.....	0.7
Patterson	.....	.....	0.2	0.5	6.1	1.0	.....	.....	.....	7.8
Raleigh	.....	T.	T.	0.8	1.6	3.7	.....	.....	.....	6.1
Rockingham	.....	.....	T.	1.0	1.0	1.0	.....	T.	.....	3.0
Sloan	.....	.....	T.	T.	4.0	0.1	.....	.....	.....	4.1
Southern Pines	.....	T.	T.	1.0	3.0	1.4	.....	.....	.....	5.4
Tarboro	.....	.....	0.2	0.5	0.8	4.5	.....	.....	.....	6.0
Weldon	.....	.....	0.5	T.	3.5	9.4	.....	.....	.....	13.4
Wilmington	.....	.....	0.0	0.0	4.5	T.	.....	.....	.....	4.5
North Dakota.										
Ashley	.....	0.4	1.0	3.5	2.5	8.0	4.5	8.0	T.	27.9
Berlin	T.	1.0	0.7	6.0	3.5	6.4	6.0	29.5	.....	53.1
Bismarck	2.1	0.0	2.3	10.1	5.8	7.2	10.9	7.5	.....	45.9
Buxton	.....	0.4	0.3	5.6	5.6	17.2	14.4	25.1	.....	68.6
Devils Lake	.....	.....	2.0	6.3	16.9	5.5	12.9	8.7	1.0	53.3
Dickinson	5.0	.....	0.7	10.4	3.1	6.0	14.7	3.0	T.	42.9
Ellendale	.....	.....	T.	3.0	3.5	7.0	3.0	12.0	.....	28.5
Fargo	.....	.....	0.9	1.0	1.3	4.5	7.2	11.1	.....	26.0
Forman	.....	.....	0.5	0.8	2.1	5.0	8.6	8.0	.....	25.0
Fort Yates	0.2	.....	1.8	2.0	4.1	6.1	6.5	T.	T.	20.7
Fullerton	1.5	2.0	1.0	7.3	4.3	8.8	8.9	21.2	.....	55.0
Hamilton	T.	.....	8.6	14.6	6.1	10.4	21.9	11.3	.....	72.9
Hannaford	.....	.....	.....	1.2	2.1	11.0	11.1	1.8	.....	37.2
Larimore	.....	.....	4.0	7.5	4.5	6.0	10.0	14.0	.....	46.0
McKinney	12.0	T.	4.5	3.2	(*)	6.0	15.0	.....	.....	.....
Mayville	.....	T.	3.4	5.1	3.5	9.2	(*)	(*)	.....	.....
Medora	.....	.....	2.0	10.5	8.0	5.0	(*)	3.0	T.	.....
Melville	.....	.....	T.	6.5	0.5	T.	8.0	1.5	.....	16.5
Napoleon	1.0	0.5	2.0	6.0	2.0	4.0	6.0	10.0	T.	31.5
Oakdale	1.0	.....	4.0	15.5	1.9	10.0	21.2	5.0	T.	58.6
University	.....	.....	5.0	10.5	3.0	11.0	7.8	7.3	.....	44.6
Wahpeton	.....	.....	1.5	4.0	3.7	3.0	9.2	12.1	.....	33.5
Williston	1.0	0.0	1.8	9.1	7.1	8.3	16.0	2.6	.....	45.9
Ohio.										
Akron	.....	T.	7.7	14.4	22.0	6.8	0.5	1.1	.....	52.5
Cincinnati	.....	.....	1.4	3.6	5.6	1.8	2.6	T.	.....	15.0
Clarksville	.....	.....	1.9	2.2	10.5	1.6	0.8	0.4	.....	17.4
Cleveland	.....	T.	7.8	14.3	21.6	7.8	7.5	1.0	.....	60.0
Coalton	.....	.....	3.4	4.0	(*)	5.0	1.0	T.	T.	.....

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Ohio—Continued.										
Columbus			3.2	4.8	14.1	5.0	0.7	1.3	T.	29.1
Dayton			2.5	3.6	15.3	7.8	2.5	2.8		34.5
Defiance		T.	3.6	8.1	15.9	3.4	7.7	T.	T.	38.7
Garrettsville		T.	5.0	9.2	17.0	7.0	2.8	0.8		41.8
Gratiot			3.0	6.8	13.3	5.6	1.1	1.7		31.5
Jacksonboro			3.0	6.0	(*)	10.0	(*)	T.		
McConnellsville		T.	2.2	7.2	8.0	7.2	1.5	2.2	T.	28.3
Marietta			(*)	6.8	6.4	6.5	0.1	1.0		
Marion			3.5	3.5	16.9	4.6	0.8	T.	T.	29.3
Medina		T.	7.0	8.0	13.0	4.0	T.	T.		32.0
Millport		T.	1.0	9.1	20.0	7.5	0.2	3.0		40.8
Napoleon		T.	1.6	6.5	13.0	1.9	8.0	T.	T.	31.0
New Waterford		T.	3.1	9.0	18.0	(*)	T.	T.		
Oberlin		T.	6.8	3.8	(*)	3.8	T.	T.		
Pomeroy			8.5	6.8	3.0	5.5	1.0	0.8		25.6
Portsmouth		T.	3.0	2.3	1.0	3.0	0.5	1.0		10.8
Rockyridge		T.	1.0	3.2	16.0	2.7	4.5	T.		27.4
Sandusky		T.	0.9	7.2	15.7	1.8	3.4	0.1		29.1
Shenandoah		T.	4.5	7.4	14.4	3.9	1.7	0.4	T.	32.3
Sidney			2.4	7.0	19.2	5.7	1.5	0.4		36.2
Toledo		T.	1.6	7.1	10.6	2.1	8.4	T.		29.8
Wauseon		T.	3.2	12.1	21.0	4.6	13.3	0.2		54.4
Oklahoma.										
Arapaho					T.	T.				T.
Beaver			1.0		T.					1.0
Fort Sill					2.0	T.				2.0
Guthrie					T.					T.
Hennessey					T.	T.				T.
Kingfisher				T.	T.	1.0				1.0
Mangum					T.					T.
Oklahoma				0.0	1.6	0.5				2.1
Perry					T.	T.				T.
Oregon.										
Albany					0.8	1.0	T.			1.8
Ashland			2.5		3.2	4.1	6.2	1.0		17.0
Astoria						8.0	3.0			11.0
Aurora					1.0	0.2	0.2			1.5
Baker City			9.8	5.1	6.5	13.5	7.9	T.		42.8
Bay City					4.0	2.0	2.2			8.2
Bend			9.0		1.1	11.8	14.5			36.4
Corvallis					1.0	3.3	T.			4.3
Dayville			0.2	0.5	4.9	5.5	6.0			17.1
Eugene					1.6	0.5	1.3			3.4
Falls City					4.0	7.3	7.6			18.9
Government Camp			61.0	24.0	71.0	127.0	82.0	15.0	5.0	385.0
Grants Pass					T.		1.8	T.		1.8
Hood River			(*)	T.	6.5	43.2	10.9			60.6
Joseph			17.0	15.5	14.5	27.0	16.5	0.8		91.3
Lagrande			5.0	1.2	17.0	10.0	5.0			38.2
Lonerock			7.0	3.0	3.2	5.5	6.5			25.2
Newport					2.0					2.0
Portland				0.0	0.9	1.5	T.	T.		2.4
Riverside				T.	0.5	6.0	1.5	3.0		11.0
Roseburg			0.2	0.0	T.	4.1	1.2			5.5
Silverlake			(*)	(*)	(*)	(*)	(*)	1.0		
Sparta			41.0	26.0	31.0	42.0	26.0			166.0
The Dalles			6.5		T.	26.5	3.5			36.5
Toledo					2.0	0.5	1.0			3.5
Vale			5.0	(*)	9.0	9.2	1.5			
Weston			5.5	5.0	10.0	13.8	13.0	T.		47.3
Pennsylvania.										
Cassandra		T.	3.0	22.0	23.0	12.0	7.0	2.0		69.0
Confluence			2.8	0.9	(*)	(*)	1.0	(*)		
Dushore		0.2	1.6	20.6	20.5	3.2	6.5	(*)		
East Mauch Chunk		T.	0.6	17.6	27.6	3.5	9.5	1.0		59.8

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Pennsylvania—Continued.										
Emporium	.....	T.	2.0	17.1	17.7	10.0	6.5	T.	.....	53.3
Erie	.....	0.2	5.4	16.9	21.5	7.1	3.0	1.7	.....	55.8
Franklin	.....	T.	T.	11.0	32.0	2.0	1.0	T.	.....	56.0
Grampian	.....	T.	T.	23.0	37.0	15.5	3.0	1.0	.....	79.5
Harrisburg	.....	T.	0.2	10.9	19.5	2.5	5.5	T.	.....	38.6
Huntingdon	.....	T.	1.7	6.0	24.0	3.7	2.0	1.3	.....	38.7
Irwin	.....	T.	1.5	4.0	10.6	5.2	T.	1.5	T.	22.8
Johnstown	.....	1.0	4.3	10.8	24.3	13.1	2.6	0.8	.....	56.9
Lawrenceville	.....	T.	T.	16.0	27.5	6.5	4.0	T.	.....	54.0
Leroy	.....	0.5	1.4	10.5	17.0	6.0	6.5	0.6	.....	42.5
Lewisburg	.....	T.	1.0	18.6	33.0	3.3	8.0	0.2	.....	64.1
Lockhaven	.....	T.	2.0	12.8	28.0	6.0	9.0	T.	.....	57.8
Parker	.....	T.	2.8	10.3	18.4	6.2	3.0	0.9	.....	41.6
Philadelphia	.....	T.	T.	5.2	14.2	5.8	4.2	T.	.....	29.4
Pittsburg	.....	T.	1.0	8.5	6.6	4.5	0.4	1.3	.....	22.3
Renovo	.....	T.	3.0	14.5	22.3	5.3	7.0	0.8	.....	52.9
Saegerstown	.....	T.	5.8	17.7	17.5	15.0	2.0	2.0	.....	60.0
Scranton	.....	T.	0.3	16.6	17.8	1.8	4.4	0.3	.....	41.2
South Eaton	.....	T.	T.	10.5	12.5	3.0	3.0	T.	.....	29.0
Warren	.....	0.6	9.1	16.4	19.2	5.2	5.0	1.0	.....	56.5
Wellsboro	.....	T.	T.	13.5	20.0	8.5	6.5	T.	.....	48.5
Wilkesbarre	.....	T.	T.	16.0	19.0	2.0	10.5	0.5	.....	48.0
Rhode Island.										
Block Island	.....	.....	3.6	1.9	13.7	3.4	4.1	1.6	.....	28.3
Bristol	.....	T.	2.0	8.0	25.5	8.5	4.5	1.0	.....	49.5
Kingston	.....	T.	4.0	9.0	24.5	9.5	6.0	1.5	.....	54.5
Narragansett	.....	T.	3.0	5.0	21.5	10.0	6.5	0.5	.....	46.5
Pawtucket	.....	T.	0.2	4.0	31.0	12.0	5.0	T.	.....	52.2
Providence	.....	T.	2.0	8.0	31.0	13.0	8.0	2.5	.....	64.5
South Carolina.										
Charleston	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Cheraw	.....	.....	T.	T.	0.9	0.1	.....	.....	.....	1.0
Clemson College	.....	.....	.....	T.	3.0	.....	.....	.....	.....	3.0
Columbia	.....	.....	T.	T.	T.	.....	.....	.....	.....	T.
Florence	.....	.....	.....	(*)	2.0	.....	.....	.....	.....	.....
Gaffney	.....	.....	.....	0.6	3.0	T.	.....	T.	.....	3.6
Georgetown	.....	.....	.....	T.	2.5	.....	.....	.....	.....	2.5
Greenville	.....	.....	T.	1.0	3.5	.....	.....	.....	.....	4.5
Smiths Mills	.....	.....	T.	1.1	3.0	T.	.....	.....	.....	4.1
Stateburg	.....	.....	.....	.....	1.0	.....	.....	.....	.....	1.0
Trenton	.....	.....	T.	0.7	T.	0.7	.....	.....	.....	1.4
Walhalla	.....	.....	.....	.....	5.5	.....	.....	T.	.....	5.5
South Dakota.										
Aberdeen	0.6	.....	0.2	9.2	3.2	9.8	11.2	17.5	.....	51.7
Alexandria	.....	.....	4.5	8.5	3.0	9.0	T.	3.0	.....	28.0
Armour	.....	.....	7.0	4.0	5.5	6.8	.....	10.0	.....	33.3
Ashcroft	5.0	.....	1.5	6.0	8.0	7.0	6.5	3.0	.....	37.0
Brookings	.....	.....	3.0	4.5	0.4	1.5	.....	.....	.....	9.4
Canton	.....	.....	2.0	6.0	1.0	6.0	2.0	4.0	.....	21.0
Chamberlain	.....	.....	9.5	8.0	2.5	4.0	0.8	0.5	.....	25.3
Clark	T.	.....	2.6	10.2	1.5	5.0	2.0	5.0	.....	26.3
Desmet	.....	.....	(*)	(*)	2.0	5.0	.....	5.5	.....	.....
Doland	T.	.....	1.6	8.5	1.2	4.8	2.7	11.0	.....	29.8
Elkpoint	.....	.....	8.0	4.2	6.0	9.0	7.5	(*)	.....	.....
Forestburg	.....	.....	5.1	9.2	0.8	6.5	T.	10.0	.....	31.6
Fort Meade	(*)	.....	8.0	8.1	(*)	19.0	T.	(*)	T.	.....
Gannvalley	.....	.....	12.0	9.0	5.0	7.0	1.0	1.0	.....	35.0
Howard	.....	.....	7.0	10.8	3.0	2.5	T.	0.8	.....	24.1
Huron	.....	.....	3.8	7.4	2.0	4.8	0.8	9.6	.....	28.4
Marion	.....	.....	3.0	7.0	(*)	5.0	.....	(*)	.....	.....
Menno	.....	.....	5.3	4.2	2.3	4.0	0.5	7.5	.....	23.8

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South Dakota—Continued.										
Millbank					(*)	6.0	(*)	T.	T.	
Mitchell			T.	2.0	0.5	10.0	(*)	7.5		
Oelrichs	4.5		2.0	2.5	7.0	4.5	4.0	2.0		26.5
Pierre	0.1	0.0	5.2	6.4	5.8	9.4	2.6	1.5		31.0
Plankinton			7.5	8.5	1.5	7.1	T.	12.0		36.6
Rapid City	2.8	0.0	T.	3.1	4.6	9.4	T.	0.3	T.	20.2
Silver City	12.0		2.0	13.0	16.0	29.5	T.	(*)	T.	
Sioux Falls			1.5	5.5	2.5	5.0		2.0		16.5
Spearfish	11.0		9.0	16.0	10.0	15.0	1.0	(*)		
Yankton			5.5	3.7	1.6	4.3	3.8	2.3		21.2
Tennessee.										
Andersonville			0.5	1.5	4.5		T.	3.0		9.5
Ashwood				0.5	2.5					3.0
Bristol			3.0	T.	5.5	T.	T.	T.		8.5
Carthage			T.	0.2	1.0	T.				1.2
Chattanooga				0.1	5.2	0.6				5.9
Decatur			T.	0.5	7.0	1.0				8.5
Florence			T.	1.0	4.5	T.		T.		5.5
Greeneville			2.9	2.0	6.2	1.4	T.	4.5		17.0
Jonesboro			3.6	6.0	9.1	0.9	T.	2.9		22.5
Knoxville			T.	1.2	2.9	0.1	T.	3.5		7.7
Memphis				1.3	1.6					2.9
Nashville			T.	0.3	3.6	T.		T.		3.9
Palmetto			T.	T.	0.8	T.				0.8
Pope			T.		T.					T.
Rugby			2.5	2.0	4.0	4.0	T.	3.5		16.0
Savannah				T.	2.0					2.0
Tellico Plains			T.	T.	1.3	T.	T.			1.3
Texas.										
Abilene				0.0	0.5	1.0				1.5
Amarillo				T.	1.5	0.8		T.		2.3
Ballinger						5.0				5.0
Bigpring				T.	T.	T.				T.
Dallas					0.4					0.4
El Paso				0.0		T.				T.
Estelle					0.5					0.5
Fort Worth				0.0	T.	T.				T.
Galveston										0.0
Haskell					1.5	2.0				3.5
Kent						T.				T.
Palestine				0.0						0.0
Rhineland					2.0	1.5				3.5
Taylor				0.0						0.0
Utah.										
Blue Creek			4.0	2.0	10.0	3.5	2.0			21.5
Corinne			6.0	9.0	10.0	9.0	11.0	2.0		47.0
Deseret			T.	0.5	1.5	12.0		3.0		27.0
Frisco					7.0	(*)	(*)	T.		
Giles					T.	T.				
Grover	T.		(*)	T.	T.	4.0	3.5	12.0		
Heber	T.		1.0	13.3	21.0	15.5	(*)	7.0		
Huntsville			12.0	14.0	15.0	21.0	26.0	2.0		90.0
Levan			2.3	5.4	17.1	15.0	11.1	6.9		57.8
Loa						5.0	8.0	10.0		23.0
Marysvale		0.5	T.	1.4	3.0	9.8	13.0	3.8	0.5	32.0
Moab				T.	1.5	1.3	0.5			3.3
Modena				0.0	2.8	5.2	1.5	0.3	2.4	12.2
Mount Pleasant			2.0	2.0	11.0	7.0				22.0
Ogden			(*)	14.5	16.0	12.6	17.2	(*)		
Parowan	2.0		T.	5.8	6.5	12.2	18.1	12.7	3.0	60.3
Pinto	0.3			0.9	8.0	1.1	(*)	1.9	0.3	
Promontory			(*)	2.5	(*)	1.5	4.5			
Richfield			(*)	0.4	5.5	1.5	0.5			
St. George					T.	(*)				
Salt Lake City			7.0	5.5	15.8	20.4	17.2	6.0		71.9

MONTHLY AND SEASONAL SNOWFALL 1903–1904—Continued.

States and stations.	1903.				1904.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Vermont.										
Burlington	.....	T.	1.5	9.0	12.5	7.0	3.0	10.0	.....	43.0
Chelsea	.....	4.0	5.0	23.0	40.0	7.0	12.0	17.0	.....	112.0
Enosburg Falls	.....	T.	9.6	16.5	28.8	15.0	6.5	7.0	.....	83.4
Northfield	.....	1.4	4.1	16.1	27.0	3.2	5.6	12.1	.....	69.5
Virginia.										
Bigstone Gap	.....	.....	5.4	3.0	9.5	3.0	T.	T.	.....	20.9
Blacksburg	.....	.....	3.0	4.0	8.5	4.5	T.	T.	.....	20.0
Burkes Garden	.....	.....	12.0	3.0	8.0	4.0	1.0	T.	.....	28.0
Callaville	.....	.....	.....	.....	9.0	6.0	.....	.....	.....	15.0
Cape Henry	.....	.....	0.1	T.	2.1	8.5	.....	.....	.....	10.7
Charlottesville	.....	.....	1.0	1.0	10.0	5.0	T.	.....	.....	17.0
Dale Enterprise	.....	.....	1.0	4.0	16.0	7.0	3.0	1.0	.....	32.0
Farmville	.....	.....	.....	T.	(*)	4.0	.....	.....	.....	.....
Fredericksburg	.....	.....	0.8	2.0	9.2	2.5	1.0	.....	.....	15.5
Hampton	.....	.....	0.2	T.	7.5	12.1	.....	.....	.....	20.8
Hot Springs	.....	.....	1.5	4.5	11.0	8.0	.....	.....	.....	25.0
Lynchburg	.....	.....	1.4	0.2	7.9	5.1	T.	.....	.....	14.6
Norfolk	.....	.....	0.1	T.	3.9	10.2	T.	.....	.....	15.2
Richmond	.....	.....	0.4	0.9	10.7	8.4	T.	.....	.....	20.4
Stephens City	.....	.....	0.8	4.0	19.0	3.5	T.	T.	.....	27.3
Wytheville	.....	.....	6.0	5.4	10.2	4.4	0.2	0.5	.....	26.7
Washington.										
Aberdeen	.....	.....	T.	.....	2.2	9.0	6.2	.....	.....	17.4
Brinnon	.....	.....	13.0	.....	7.2	31.8	5.0	.....	.....	57.0
Cedonia	.....	T.	16.5	6.0	12.4	24.8	12.1	.....	.....	71.8
Clearwater	.....	.....	T.	.....	3.5	10.0	10.5	.....	.....	24.0
Cle Elum	.....	.....	36.0	6.0	24.0	41.0	22.0	.....	T.	129.0
Ellensburg (near)	.....	.....	25.5	2.5	4.5	18.5	8.5	.....	.....	59.5
Lacenter	.....	.....	T.	.....	4.0	10.0	(*)	.....	.....	.....
Lakeside	.....	.....	19.5	3.5	15.5	32.0	18.9	.....	.....	89.4
Lind	.....	.....	7.5	7.5	4.0	10.0	8.5	.....	.....	37.5
Moxee Valley	.....	.....	17.1	1.3	(*)	31.9	3.8	.....	.....	.....
North Head	.....	.....	.....	0.0	3.1	2.2	1.8	.....	.....	7.1
Olga	.....	.....	T.	.....	3.0	4.0	T.	.....	.....	7.0
Olympia	.....	.....	T.	.....	1.0	1.0	.....	.....	.....	2.0
Pinehill	.....	.....	11.0	1.0	5.0	44.0	10.0	.....	.....	71.0
Port Crescent	.....	.....	1.2	0.0	3.1	14.5	1.3	.....	.....	20.1
Pullman	.....	.....	8.0	4.5	22.4	19.1	23.0	.....	.....	27.0
Rosalia	.....	.....	3.7	3.0	11.0	9.0	5.7	.....	.....	32.4
Seattle	.....	.....	0.9	0.0	2.1	3.6	8.4	.....	.....	15.0
Silvana	.....	.....	1.0	.....	4.0	6.5	1.5	.....	.....	13.0
Spokane	.....	.....	11.8	5.0	8.1	10.9	10.0	.....	.....	45.8
Tacoma	.....	.....	1.2	0.0	5.5	15.6	4.4	.....	.....	26.7
Tatoosh Island	.....	.....	T.	0.0	T.	5.2	5.0	.....	.....	10.2
Union	.....	.....	6.0	.....	5.5	23.0	2.2	.....	.....	36.7
Walla Walla	.....	.....	T.	4.0	9.4	4.0	4.8	.....	.....	22.2
Waterville	.....	.....	24.0	11.5	15.2	31.5	19.0	.....	.....	101.2
Wenatchee (near)	.....	.....	33.5	5.5	16.9	41.0	34.5	T.	.....	131.4
Whatcom	.....	.....	1.5	.....	5.0	8.5	(*)	.....	.....	.....
West Virginia.										
Beverly	.....	T.	5.0	8.0	16.0	18.0	3.0	6.0	.....	56.0
Bluefield	.....	.....	(*)	21.3	24.0	5.5	3.0	.....	.....	.....
Charleston	.....	T.	1.5	2.4	4.9	4.4	1.0	0.2	.....	14.4
Elkins	.....	T.	7.4	7.7	13.9	18.0	6.6	5.1	.....	58.7
Fairmont	.....	.....	1.0	4.4	(*)	3.1	0.5	0.5	.....	.....
Glenville	.....	T.	4.0	7.9	9.6	12.0	1.0	.....	.....	34.5
Grafton	.....	T.	10.5	12.5	14.9	8.0	1.6	3.0	.....	50.5
Huntington	.....	.....	4.0	2.0	4.2	5.8	2.0	0.5	.....	18.5
Lewisburg	.....	T.	4.0	3.0	9.0	8.2	T.	T.	.....	24.2
Martinsburg	.....	.....	0.5	1.0	13.0	1.0	T.	.....	.....	15.5
Parkersburg	.....	.....	2.1	7.3	4.6	7.7	0.2	T.	.....	21.9
Point Pleasant	.....	.....	4.0	1.0	2.0	3.0	T.	T.	.....	10.0
Wisconsin.										
Amherst	.....	.....	8.5	12.5	4.0	12.0	2.0	8.0	.....	47.0
Antigo	.....	.....	8.0	4.0	2.0	11.5	5.5	17.0	.....	48.0
Brodhead	.....	.....	1.5	16.5	7.0	11.0	8.0	(*)	.....	.....
Butternut	.....	T.	11.9	12.7	6.7	15.0	18.8	11.2	.....	76.3
Eau Claire	.....	.....	6.0	8.4	3.1	7.5	4.5	8.8	.....	38.3

MONTHLY AND SEASONAL SNOWFALL 1903–1904—Continued.

States and stations.	1903.				1904.					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Wisconsin—Continued.										
Florence	.....	T.	6.0	8.5	4.0	21.0	10.5	2.0	T.	52.0
Grantsburg	.....	.....	6.0	15.0	7.0	15.5	6.5	12.0	.....	62.0
Greenbay	.....	.....	3.7	4.9	5.7	16.5	8.0	11.8	.....	50.6
Harvey	.....	.....	1.8	10.1	5.9	10.3	13.3	2.6	.....	44.0
Koepenick	.....	.....	12.0	8.5	6.0	18.0	15.0	19.0	.....	78.5
La Crosse	.....	T.	0.5	9.4	4.1	7.5	5.3	1.0	.....	27.8
Madison	.....	.....	1.0	17.8	5.0	10.2	6.5	0.5	.....	41.0
Medford	.....	.....	9.0	5.0	2.0	9.0	9.0	16.0	.....	50.0
Milwaukee	.....	.....	2.9	17.4	14.6	14.7	29.3	3.7	.....	82.6
Neillsville	.....	.....	4.0	2.0	(*)	12.0	5.0	8.0	.....	.....
Osceola	.....	.....	2.0	10.0	7.0	22.5	11.0	9.0	.....	61.5
Pine River	.....	.....	6.5	13.7	4.2	14.9	8.7	8.8	T.	56.8
Portage	.....	.....	3.0	11.0	5.0	12.0	9.0	4.0	.....	44.0
Port Washington	.....	.....	6.5	8.0	7.0	14.5	19.0	8.0	.....	62.5
Prairie du Chien	.....	.....	T.	[illegible]4	10.5	8.4	9.0	0.5	.....	37.8
Sheboygan	.....	.....	5.0	0.5	9.0	27.0	18.5	11.0	.....	81.0
Valley Junction	.....	.....	6.0	[illegible]5	2.5	6.0	6.0	0.5	.....	29.5
Viroqua	.....	T.	0.8	11.2	3.9	10.2	6.5	1.5	.....	34.1
Watertown	.....	.....	2.0	15.2	3.6	10.8	17.8	2.5	.....	51.9
Waupaca	.....	.....	3.5	10.0	4.0	17.5	9.0	10.0	.....	54.0
Wyoming.										
Alcova	4.5	.....	T.	2.0	7.5	4.5	8.8	3.4	T.	30.7
Basin	.....	.....	T.	(*)	4.7	T.	4.7	(*)	T.	.....
Bedford	1.9	2.0	10.3	10.0	17.5	14.8	23.6	2.9	(*)	.....
Cheyenne	1.8	1.5	7.2	0.9	3.8	3.0	4.5	7.9	1.7	32.3
Evanston	2.0	.....	8.5	2.5	5.6	11.0	8.5	3.0	1.5	42.6
Fort Laramie	7.0	.....	2.0	3.0	2.0	1.9	0.5	1.5	.....	17.9
Fort Washakie	3.0	1.5	.....	5.0	9.0	2.0	16.5	T.	.....	37.0
Fort Yellowstone	5.0	T.	11.0	13.0	19.4	15.4	25.6	7.0	2.7	99.1
Fourbear	17.5	2.0	4.0	4.0	5.0	11.5	13.5	12.5	(*)	.....
Lander	17.4	0.6	0.1	9.4	5.6	6.3	15.3	1.8	0.6	57.1
Laramie	14.5	2.5	6.0	1.1	3.7	1.5	4.0	10.7	T.	44.0
Rawlins	.....	1.3	3.3	2.9	(*)	3.5	12.9	5.2	(*)	.....
Thayne	0.5	0.7	11.6	10.9	10.0	8.3	18.2	4.0	(*)	.....
Canadian Stations.										
St. Johns	.....	.....	.....	26.0	16.5	27.0	13.0	0.5	0.3	83.3
Sydney	.....	.....	3.5	19.0	44.0	26.0	19.5	8.0	.....	120.0
Halifax	.....	T.	3.7	18.8	23.7	31.3	9.6	15.2	.....	97.3
Grand Manan	.....	2.0	2.5	3.5	30.3	32.5	22.7	12.0	.....	105.5
Yarmouth	.....	0.3	6.6	28.3	29.5	30.5	7.6	12.8	.....	115.6
Charlottetown	.....	T.	6.8	24.4	24.2	19.1	21.2	7.3	.....	103.0
Chatham	.....	0.4	25.4	20.4	27.7	20.4	19.9	8.9	.....	123.1
Father Point	.....	0.5	16.5	28.6	20.7	28.9	34.1	7.9	.....	137.2
Quebec	.....	1.5	9.7	22.6	32.7	28.8	23.3	7.1	.....	125.7
Montreal	.....	1.5	5.4	38.5	38.2	21.5	15.9	6.5	.....	127.5
Bissett	.....	0.4	6.9	29.1	18.0	10.6	(*)	8.4	0.2	.....
Ottawa	.....	T.	3.0	19.8	38.2	22.0	17.8	4.0	.....	104.8
Kingston	.....	1.4	3.1	19.4	20.7	17.9	6.0	3.2	.....	71.7
Toronto	.....	1.2	2.4	9.5	18.9	18.7	6.5	4.7	.....	61.9
White River	0.7	2.0	11.8	16.8	13.1	4.7	11.0	10.0	8.0	78.1
Port Stanley	.....	3.6	0.8	20.6	31.8	13.9	13.4	17.5	.....	101.6
Saugeen	.....	0.3	14.5	69.8	38.9	22.7	12.3	4.4	T.	162.9
Parry Sound	.....	1.0	11.8	29.9	33.0	22.0	16.0	9.5	T.	123.2
Port Arthur	.....	1.0	0.8	1.8	2.3	1.8	7.8	0.4	.....	15.9
Winnipeg	.....	T.	15.0	10.2	1.7	8.5	30.0	2.0	.....	67.4
Minnedosa	5.8	.....	15.0	7.7	13.5	7.7	17.7	13.3	.....	80.7
Qu'Appelle	3.2	1.0	11.0	9.6	11.4	22.5	41.1	4.3	0.6	104.7
Medicine Hat	.....	0.5	4.5	1.0	3.5	6.7	12.0	T.	.....	28.2
Swift Current	.....	T.	4.2	6.1	6.0	7.6	19.4	2.2	.....	45.5
Calgary	4.0	T.	6.0	1.5	1.5	1.5	8.6	0.4	0.2	23.7
Banff	3.0	1.0	15.3	2.4	13.1	17.3	13.5	7.0	2.1	74.7
Edmonton	0.4	7.1	7.1	5.7	19.1	19.6	18.1	0.8	T.	77.9
Prince Albert	8.0	9.0	11.6	4.0	3.5	12.4	24.5	T.	.....	73.0
Battleford	.....	0.1	7.5	3.7	11.2	17.8	18.1	.....	.....	58.4
Kamloops	.....	.....	4.0	2.4	21.1	24.4	4.0	.....	.....	55.9
Victoria	.....	.....	7.7	(*)	2.7	5.3	1.9	.....	.....	.....
Barkerville	T.	0.8	8.0	22.0	54.0	43.0	27.0	5.2	8.0	168.0

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PART VI.

MISCELLANEOUS METEOROLOGICAL TABLES AND REPORTS.

Sunshine, 1903. Details of excessive precipitation, 1903. Meteorological observations at stations of the Weather Bureau in the West Indies during 1903.

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SUNSHINE, 1903.

The following tables give for 190 stations the monthly amounts of sunshine and percentage of the possible, 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, 1903.

	January.		February.		March.		April.		May.		June.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.
Albany, N. Y. (T.)	100.2	34	150.6	51	187.5	51	266.2	66	368.8	81	192.2	42
Asheville, N. C. (T.)	171.3	55	174.9	57	165.7	45	212.7	53	271.7	62	256.1	59
Atlanta, Ga. (T.)	134.8	43	153.1	50	125.0	34	251.4	64	226.6	52	262.7	61
Atlantic City, N. J. (T.)	174.6	57	191.6	64	212.1	57	236.1	59	334.0	75	227.0	51
Augusta, Ga. (T.)	155.6	49	169.9	55	178.7	48	281.4	72	259.3	60	291.3	68
Baltimore, Md. (T.)	141.9	47	175.8	58	182.6	49	222.4	56	299.9	68	183.0	41
Binghamton, N. Y. (T.)	83.7	28	125.3	42	120.3	32	228.7	57	338.0	75	129.5	28
Bismarck, N. Dak. (P.)	121.5	43	230.0	80	190.1	51	271.9	67	284.3	61	313.2	66
Block Island, R. I. (T.)	152.2	51	180.7	61	185.3	50	267.7	67	338.1	75	165.9	37
Boise, Idaho (P.)	56.7	20	206.9	70	164.5	44	253.8	63	324.8	71	324.3	70
Boston, Mass. (T.)	148.8	50	173.9	59	203.3	55	261.4	65	346.7	77	183.2	40
Buffalo, N. Y. (T.)	59.7	20	121.0	41	148.2	40	209.4	52	369.0	81	265.1	58
Charleston, S. C. (T.)	127.6	40	128.0	42	177.6	48	268.9	69	256.6	60	288.2	67
Chattanooga, Tenn. (T.)	122.1	39	123.4	40	105.3	28	225.8	57	241.2	56	271.3	62
Cheyenne, Wyo. (P.)	209.3	70	191.2	64	210.5	57	246.2	62	268.4	60	251.0	56
Chicago, Ill. (T.)	132.1	45	163.8	55	191.7	52	239.4	60	305.5	68	341.5	75
Cincinnati, Ohio (T.)	135.3	45	165.8	55	132.5	36	168.7	42	321.2	72	278.0	62
Cleveland, Ohio (T.)	64.1	22	108.5	37	160.7	43	219.4	55	333.3	74	211.2	46
Columbia, Mo. (T.)	173.9	57	148.6	49	220.0	59	243.4	61	251.1	57	313.7	70
Columbus, Ohio (T.)	92.0	31	141.5	47	134.1	36	184.5	46	312.1	70	193.7	43
Denver, Colo. (P.)	207.9	69	170.6	57	202.5	55	255.7	64	262.3	59	200.4	45
Des Moines, Iowa (T.)	165.5	56	185.1	62	182.0	49	204.8	51	256.3	57	279.5	61
Detroit, Mich. (T.)	74.9	25	126.6	43	147.6	40	217.8	54	348.4	77	231.3	51
Dodge, Kans. (T.)	218.2	71	203.0	67	262.8	71	303.2	77	271.6	61	300.9	68
Dubuque, Iowa (T.)	106.9	36	128.6	43	112.3	30	159.5	40	161.8	36	270.1	59
Eastport, Me. (T.)	153.0	53	183.2	63	190.6	52	220.5	54	322.3	70	234.5	50
Elkins, W. Va. (T.)	58.5	19	77.9	26	114.9	31	151.6	38	228.0	51	167.9	38
Erie, Pa. (T.)	58.2	20	121.9	41	163.0	44	230.6	57	374.3	83	282.2	62
Escanaba, Mich. (T.)	100.3	35	131.5	45	142.2	38	180.9	44	247.9	53	241.9	51
Eureka, Cal. (P.)	88.6	30	181.6	61	135.1	36	223.6	56	255.1	57	194.7	43
Fresno, Cal. (T.)	92.5	30	213.4	70	200.6	54	307.4	78	388.1	88	385.6	88
Galveston, Tex. (T.)	181.1	55	124.7	40	166.9	45	267.0	69	295.5	70	269.0	64
Grand Junction, Colo. (P.)	222.2	73	221.4	74	224.0	60	298.5	75	332.5	75	335.2	75
Greenbay, Wis. (T.)	126.3	44	158.5	54	178.0	48	233.2	58	287.4	62	365.5	78
Harrisburg, Pa. (T.)	103.0	34	157.2	52	152.9	41	223.1	56	301.6	68	197.1	44
Helena, Mont. (T.)	140.1	50	186.5	65	191.2	52	239.3	59	276.4	59	321.4	68
Huron, S. Dak. (T.)	155.5	54	224.5	76	240.9	65	281.0	70	313.1	68	348.3	75
Independence, Cal. (T.)	230.1	74	250.9	83	245.6	66	357.5	91	390.9	89	374.6	85
Indianapolis, Ind. (T.)	108.0	36	136.3	45	151.6	41	187.5	47	231.7	52	211.9	47
Jacksonville, Fla. (T.)	103.1	32	134.8	43	191.5	51	293.8	76	235.1	55	254.2	60
Jupiter, Fla. (T.)	197.9	60	172.1	55	204.4	55	286.0	74	314.0	75	232.3	55
Kalispell, Mont. (T.)	70.3	25	184.3	64	203.3	55	211.0	51	250.2	53	322.3	67
Kansas City, Mo. (T.)	162.2	53	174.8	58	196.9	53	235.7	59	205.2	46	278.2	62
Knoxville, Tenn. (T.)	98.2	31	152.2	50	151.2	41	222.8	57	280.4	64	260.4	60
La Crosse, Wis. (T.)	131.1	45	200.9	68	193.1	52	237.9	59	272.2	59	315.6	68
Lander, Wyo. (T.)	204.9	70	241.7	82	308.2	83	327.1	81	279.7	61	310.0	67
Lexington, Ky. (T.)	147.0	48	138.3	46	127.3	34	179.1	45	296.4	67	176.9	40
Little Rock, Ark. (T.)	173.0	55	148.2	48	220.4	59	287.9	73	260.3	60	308.8	71
Los Angeles, Cal. (P.)	223.1	71	252.5	82	189.3	51	241.1	62	198.8	46	266.8	62
Louisville, Ky. (T.)	118.5	39	136.1	45	138.2	37	178.7	45	294.7	67	263.9	60
Lynchburg, Va. (T.)	163.7	53	189.2	62	193.6	52	231.4	59	318.1	72	275.0	62
Macon, Ga. (T.)	89.0	28	81.8	27	80.2	22	199.1	51	205.5	48	241.9	56
Memphis, Tenn. (T.)	170.3	54	136.6	45	132.4	36	222.4	57	198.0	46	283.8	65
Meridian, Miss. (T.)	136.8	43	126.2	41	125.6	34	267.2	69	222.5	52	256.1	60
Milwaukee, Wis. (T.)	126.3	43	187.1	63	191.3	52	198.8	49	265.9	58	293.3	64
Modena, Utah (P.)	192.0	63	230.5	76	205.3	55	278.2	70	310.3	70	320.7	72
Mount Tamalpais, Cal. (P.)	179.2	58	238.8	79	146.2	39	324.1	82	424.7	96	397.0	90
Nashville, Tenn. (T.)	130.3	42	147.3	48	111.8	30	190.4	48	243.3	56	244.7	56
New Haven, Conn. (T.)	180.8	61	214.9	72	222.3	60	281.9	71	363.7	81	184.7	41
New Orleans, La. (T.)	181.8	56	132.6	42	186.8	50	273.2	71	230.0	54	215.6	51

SUNSHINE, 1903—Continued.

	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Total hours.	Percentage of possible.
Albany, N. Y.	236.4	51	172.8	40	297.7	79	154.7	45	163.8	56	94.7	34	2,385.6	52
Asheville, N. C.	328.7	74	330.9	79	294.0	79	276.2	79	207.2	67	210.9	70	2,900.3	65
Atlanta, Ga.	327.9	75	280.6	67	279.1	75	278.4	79	165.3	53	205.2	67	2,690.1	60
Atlantic City, N. J.	341.3	75	227.2	54	257.6	69	185.7	54	185.2	61	158.4	54	2,730.8	61
Augusta, Ga.	344.3	79	291.9	71	281.1	76	248.9	71	151.9	48	176.1	57	2,830.4	63
Baltimore, Md.	335.4	74	214.0	51	273.9	73	190.3	55	166.3	55	175.2	60	2,560.7	57
Binghamton, N. Y.	247.2	54	153.7	36	229.0	61	90.0	26	140.2	48	98.7	35	1,984.3	44
Bismarck, N. Dak.	358.1	75	250.8	57	218.9	58	259.5	77	162.0	58	120.8	45	2,781.1	62
Block Island, R. I.	337.7	74	236.2	55	282.7	76	206.8	60	200.4	67	149.2	52	2,702.9	60
Boise, Idaho	389.5	83	384.0	89	288.6	77	242.6	71	110.5	38	157.7	57	2,903.9	63
Boston, Mass.	300.3	65	248.7	58	288.7	77	212.4	62	179.6	61	168.1	59	2,715.1	61
Buffalo, N. Y.	311.5	67	239.6	56	258.9	69	169.5	50	118.3	40	57.6	20	2,327.8	50
Charleston, S. C.	285.8	65	275.1	66	226.0	61	222.6	63	190.9	61	222.4	72	2,669.7	60
Chattanooga, Tenn.	292.9	66	294.9	71	286.3	77	246.9	71	159.0	51	186.6	61	2,555.7	57
Cheyenne, Wyo.	291.8	64	288.0	67	250.4	67	259.3	75	197.1	66	198.4	69	2,861.6	65
Chicago, Ill.	363.2	79	292.0	68	253.3	68	241.3	70	166.0	56	134.4	47	2,824.2	62
Cincinnati, Ohio	379.4	84	292.2	69	300.6	81	253.5	73	164.7	55	169.8	58	2,761.7	61
Cleveland, Ohio.	300.1	65	210.4	49	243.5	65	180.6	53	81.2	28	42.2	15	2,155.2	46
Columbia, Mo.	345.5	76	316.6	75	263.0	70	272.4	79	175.5	58	184.9	63	2,908.6	64
Columbus, Ohio.	346.3	76	327.9	77	312.4	84	230.3	67	134.6	45	117.2	40	2,526.6	55
Denver, Colo.	299.8	66	315.4	74	253.3	68	276.6	80	190.7	64	224.8	77	2,860.0	65
Des Moines, Iowa	324.9	70	249.9	58	192.8	51	220.6	64	153.7	52	112.4	39	2,527.5	56
Detroit, Mich.	336.1	73	232.7	54	259.6	69	223.1	65	133.1	45	85.1	30	2,416.3	52
Dodge, Kans.	387.0	86	347.8	82	312.1	84	262.9	76	196.1	65	247.1	83	3,362.7	74
Dubuque, Iowa.	277.7	60	241.5	56	244.1	65	245.1	72	178.5	61	150.3	53	2,276.4	51
Eastport, Me.	282.1	60	317.5	73	284.8	76	180.8	53	130.1	45	125.8	46	2,625.2	58
Elkins, W. Va.	258.9	57	203.8	48	216.6	58	135.9	39	131.4	43	103.2	35	1,848.6	40
Erie, Pa.	376.0	81	300.4	70	297.8	80	156.8	46	83.3	28	33.5	12	2,478.0	52
Escanaba, Mich.	254.0	53	186.7	43	191.4	51	234.1	69	121.8	43	77.4	29	2,110.1	46
Eureka, Cal.	192.8	42	162.9	38	203.8	54	113.7	33	80.9	27	155.8	54	1,988.6	44
Fresno, Cal.	441.7	99	418.9	100	315.6	85	315.5	91	148.1	48	189.8	63	3,417.2	74
Galveston, Tex.	318.3	74	285.0	70	329.1	89	284.3	80	224.4	70	201.9	63	2,947.2	66
Grand Junction, Colo.	348.5	77	355.3	84	290.0	78	300.1	87	235.8	78	252.5	86	3,416.0	77
Greenbay, Wis.	348.9	74	233.5	54	254.2	68	220.0	65	151.2	53	141.9	52	2,698.6	59
Harrisburg, Pa.	326.2	72	194.8	46	274.8	74	168.3	49	151.1	50	145.6	50	2,395.7	53
Helena, Mont.	316.9	66	374.9	85	230.1	61	223.0	66	114.3	41	144.5	54	2,758.6	60
Huron, S. Dak.	352.5	75	293.3	68	205.1	55	244.9	72	202.5	70	154.4	56	3,016.0	67
Independence, Cal.	436.7	98	393.2	94	310.4	83	322.4	93	245.6	80	(*)	(*)	.....	.....
Indianapolis, Ind.	278.4	61	224.5	53	255.1	68	224.4	65	163.1	54	158.1	54	2,330.6	52
Jacksonville, Fla.	283.8	66	274.5	67	235.8	64	220.0	62	152.3	48	205.6	65	2.584.5	57
Jupiter, Fla.	290.9	69	313.4	77	217.0	59	275.5	77	257.0	79	251.8	78	3,012.3	68
Kalispell, Mont.	321.4	67	314.0	71	176.1	47	182.9	54	69.0	25	32.0	12	2,336.8	49
Kansas City, Mo.	331.1	73	249.2	59	232.1	62	224.4	65	155.2	51	194.1	66	2,639.1	59
Knoxville, Tenn.	307.3	69	302.8	72	300.0	81	242.7	70	146.5	48	172.6	57	2,637.1	58
La Crosse, Wis.	336.8	72	177.3	41	233.0	62	219.3	64	135.0	47	103.8	37	2,556.0	56
Lander, Wyo.	362.7	78	356.9	83	238.0	63	260.7	76	167.0	57	190.3	68	3,247.2	72
Lexington, Ky.	292.3	65	264.7	63	291.0	78	222.7	64	144.9	48	163.5	55	2,444.1	54
Little Rock, Ark.	317.8	72	312.1	75	263.7	71	239.8	68	145.1	47	184.7	61	2,861.8	63
Los Angeles, Cal.	367.5	84	329.3	79	264.8	71	293.9	84	242.3	78	267.8	87	3,137.2	71
Louisville, Ky.	307.1	68	261.3	62	310.3	83	267.2	77	164.4	54	185.0	62	2,625.4	58
Lynchburg, Va.	350.4	78	260.7	62	280.6	75	190.9	55	175.1	57	180.4	60	2,809.1	62
Macon, Ga.	325.7	74	318.7	77	283.8	76	229.1	65	140.0	45	174.4	56	2,369.2	52
Memphis, Tenn.	332.8	75	343.2	82	304.8	82	263.7	75	208.9	67	211.2	69	2,808.1	63
Meridian, Miss.	323.0	74	266.2	65	310.3	84	253.8	72	177.3	56	224.7	72	2,689.7	60
Milwaukee, Wis.	336.2	72	213.4	49	257.9	69	240.3	70	208.6	71	153.2	55	2,672.3	60
Modena, Utah.	376.5	84	366.7	87	290.8	78	322.9	93	251.0	83	254.6	86	3,399.5	76
Mount Tamalpais, Cal.	412.3	92	415.1	98	339.0	91	296.3	85	149.1	49	211.2	71	3,533.0	78
Nashville, Tenn.	310.9	70	299.5	72	288.5	77	264.5	76	189.0	61	207.1	68	2,627.3	59
New Haven, Conn.	325.4	71	234.6	55	271.5	73	192.3	56	205.9	69	180.9	63	2,858.9	64
New Orleans, La.	191.4	45	172.4	42	304.9	82	229.5	65	217.3	68	215.6	68	2,551.1	58

*Record incomplete.

SUNSHINE, 1903—Continued.

	January.		February.		March.		April.		May.		June.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.
New York, N. Y. (T.)	119.0	40	179.0	60	188.8	51	239.2	60	301.3	67	108.9	24
Norfolk, Va. (T.)	158.1	51	181.8	60	169.6	46	205.0	52	228.3	52	201.1	46
Northfield, Vt. (T.)	159.6	55	165.7	56	177.6	48	253.1	63	392.9	86	264.3	57
Oklahoma, Okla. (T.)	155.2	49	162.5	53	198.8	53	301.5	77	197.2	45	272.9	63
Omaha, Nebr. (T.)	190.4	64	182.9	61	184.2	50	243.2	61	248.7	55	307.2	68
Parkersburg, W. Va. (T.)	67.8	22	104.1	35	115.3	31	120.1	30	258.2	58	186.7	42
Philadelphia, Pa. (T.)	147.3	49	185.5	62	185.8	50	213.7	54	306.8	69	189.1	42
Phoenix, Ariz. (P.)	257.0	81	227.0	74	273.2	73	327.1	84	362.9	84	396.8	93
Pittsburg, Pa. (T.)	93.6	31	136.8	46	160.6	43	212.2	53	334.4	74	246.5	55
Pocatello, Idaho (T.)	115.2	39	179.8	61	163.0	44	238.8	59	296.9	65	364.7	79
Port Huron, Mich. (T.)	85.0	29	128.7	44	136.9	37	228.2	57	312.8	69	207.9	45
Portland, Me. (T.)	176.4	61	195.7	67	200.8	54	287.4	71	366.7	80	229.3	49
Portland, Oreg. (T.)	81.7	29	150.3	52	176.8	48	198.2	49	247.6	53	252.4	54
Pueblo, Colo. (T.)	232.6	76	201.9	67	245.2	66	292.3	74	325.4	74	229.9	52
Raleigh, N. C. (T.)	152.2	49	162.0	53	164.3	44	207.7	53	255.1	58	219.0	50
Richmond, Va. (T.)	*98.2	*57	182.8	60	175.1	47	220.1	56	297.5	67	216.4	49
Rochester, N. Y. (T.)	91.6	31	140.1	47	161.0	43	244.2	61	366.4	81	253.7	55
St. Louis, Mo. (T.)	157.0	52	127.6	42	182.1	49	217.9	55	232.5	52	288.7	65
St. Paul, Minn. (P.)	114.6	40	203.3	70	162.7	44	213.7	53	246.3	53	315.6	68
Salt Lake City, Utah (T.)	139.6	47	218.3	73	198.9	54	230.4	58	272.6	61	332.0	73
San Antonio, Tex. (T.)	203.4	62	123.6	39	157.7	42	232.0	60	268.1	64	313.7	75
San Diego, Cal. (P.)	228.9	72	214.3	70	237.5	64	256.8	66	178.5	41	238.2	56
San Francisco, Cal. (T.)	150.7	49	203.2	67	170.9	46	282.2	71	344.7	78	354.2	80
San Juan, P. R. (T.)	197.8	57	249.2	77	264.8	71	237.6	63	270.0	67	256.5	65
Santa Fe, N. Mex. (P.)	255.2	82	203.5	67	282.2	76	291.5	74	355.3	81	280.8	64
Sault Ste. Marie, Mich. (T.)	58.2	21	114.7	39	165.7	45	222.3	55	240.7	52	285.1	60
Savannah, Ga. (T.)	127.5	40	150.8	48	194.5	52	294.9	76	231.9	54	264.7	62
Seattle, Wash. (T.)	55.7	20	161.5	56	179.7	49	216.7	53	253.8	54	239.3	50
Spokane, Wash. (T.)	37.6	14	129.7	45	186.6	50	219.6	54	263.6	57	287.9	60
Springfield, Ill. (T.)	127.8	42	130.2	43	193.3	52	232.1	58	269.5	60	306.0	68
Tacoma, Wash. (T.)	13.4	5	91.6	32	133.0	36	156.6	38	179.3	38	162.4	34
Tampa, Fla. (T.)	149.5	45	179.9	57	226.2	61	300.8	78	267.0	64	235.2	56
Toledo, Ohio (T.)	76.9	26	133.9	45	155.1	42	200.7	50	306.8	68	214.8	47
Topeka, Kans. (T.)	(†)	(†)	(†)	(†)	204.6	55	274.7	69	243.3	55	316.6	71
Vicksburg, Miss. (T.)	164.2	51	120.5	39	159.0	43	271.7	70	299.4	70	303.9	71
Washington, D. C. (P.)	139.3	46	161.4	54	162.1	44	210.8	53	285.1	64	175.0	39
Williston, N. Dak. (T.)	161.6	58	222.3	78	269.7	73	309.4	75	254.9	54	267.5	56
Wilmington, N. C. (T.)	142.3	45	145.9	48	193.4	52	239.7	61	299.6	69	249.2	58
Wytheville, Va. (T.)	130.3	42	171.4	57	138.5	37	194.0	49	325.8	74	243.7	55
Yankton, S. Dak. (T.)	95.2	33	182.2	62	197.8	53	236.4	59	233.3	51	264.9	58

*Record from 15″ to 31″, inclusive.

†Record incomplete.

SUNSHINE, 1903—Continued.

	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Total hours.	Percentage of possible.
New York, N. Y	261.5	57	181.7	43	188.8	50	138.5	40	174.7	59	143.8	50	2,225.2	50
Norfolk, Va	278.6	62	186.5	44	210.1	56	185.0	53	173.6	57	174.7	58	2,352.4	53
Northfield, Vt	318.5	68	275.1	63	315.3	84	158.6	47	149.5	52	87.8	32	2,718.0	59
Oklahoma, Okla	372.5	84	318.4	76	265.5,	71	199.0	57	200.3	65	233.4	76	2,877.2	64
Omaha, Nebr	325.1	71	235.3	55	225.2	60	239.5	70	143.3	48	153.9	53	2,678.9	60
Parkersburg, W. Va	339.4	75	271.3	64	232.8	62	161.6	47	90.5	30	59.3	20	2,007.1	43
Philadelphia, Pa	353.5	78	228.9	54	268.9	72	212.8	62	203.8	68	177.5	61	2,673.6	60
Phoenix, Ariz	369.1	84	369.8	89	305.6	82	341.8	97	272.9	87	272.2	88	3,775.4	85
Pittsburg, Pa	325.0	71	315.9	74	278.1	74	237.4	69	151.7	51	109.1	38	2,601.3	57
Pocatello, Idaho	405.0	87	399.2	93	283.6	76	260.1	76	147.5	50	188.3	67	3,042.1	66
Port Huron, Mich	264.9	57	224.0	52	195.0	52	191.6	56	98.6	34	76.9	27	2,150.5	47
Portland, Me	319.7	68	295.4	68	285.8	76	201.3	59	164.8	57	148.8	54	2,872.1	64
Portland, Oreg	310.5	65	276.8	63	232.4	62	157.8	47	57.2	20	90.7	34	2,232.4	48
Pueblo, Colo	354.9	79	319.5	76	306.1	82	281.9	81	235.7	78	264.0	89	3,289.4	74
Raleigh, N. C	316.3	71	209.4	50	218.9	59	202.5	58	214.2	69	238.2	79	2,559.8	58
Richmond, Va	349.5	78	216.8	51	263.2	71	192.5	55	175.5	58	169.1	57	2,556.7	59
Rochester, N. Y	298.4	64	222.6	52	285.1	76	157.6	46	126.4	43	58.6	21	2,405.7	52
St. Louis, Mo	292.8	65	263.3	63	266.6	71	261.1	75	192.0	64	182.8	62	2,664.4	60
St. Paul, Minn	297.0	63	217.9	50	208.4	55	209.7	62	138.2	48	123.2	45	2,450.6	54
Salt Lake City, Utah	369.6	81	356.0	83	263.7	71	245.2	71	167.1	56	173.6	60	2,967.0	66
San Antonio, Tex	297.2	70	305.4	75	275.5	74	268.5	75	183.3	57	155.8	49	2,784.2	62
San Diego, Cal	232.9	74	308.8	75	252.3	68	266.0	76	257.1	82	260.6	84	3,022.9	69
San Francisco, Cal	324.0	72	288.6	68	256.5	69	266.2	77	118.5	39	183.7	62	2,943.4	65
San Juan, P. R	248.1	61	250.7	64	237.1	65	237.5	65	205.1	61	207.8	60	2,862.2	65
Santa Fe, N. Mex	375.0	84	310.3	74	271.3	73	334.3	96	295.1	96	296.1	98	3,550.6	80
Sault Ste. Marie, Mich	253.0	53	166.9	38	123.3	33	140.5	41	63.9	22	32.7	12	1,867.0	39
Savannah, Ga	296.6	68	256.0	62	228.2	61	228.4	65	190.1	60	243.6	78	2,707.2	60
Seattle, Wash	276.8	57	230.3	52	159.5	42	163.0	49	60.0	22	65.5	25	2,061.8	44
Spokane, Wash	298.3	62	298.8	68	180.3	48	168.8	50	42.6	15	35.3	13	2,154.1	45
Springfield, Ill	300.8	66	269.2	63	233.6	63	217.3	63	140.7	47	124.7	43	2,545.2	56
Tacoma, Wash	181.6	38	164.5	37	138.0	37	110.2	33	7.8	3	5.2	2	1,343.6	28
Tampa, Fla	248.3	58	265.3	65	256.3	69	273.1	77	242.4	75	263.5	82	2,907.5	66
Toledo, Ohio	321.5	70	252.7	59	250.1	67	217.9	64	136.8	46	55.0	19	2,322.2	50
Topeka, Kans	334.7	74	298.5	71	243.3	65	238.6	69	153.8	51	208.7	71	(*)	(*)
Vicksburg, Miss	317.0	73	295.2	72	312.0	84	277.3	79	208.7	66	216.0	69	2,944.9	66
Washington, D. C	324.8	72	178.4	42	265.1	71	189.4	55	187.6	62	185.3	63	2,464.3	55
Williston, N. Dak	324.4	67	246.6	56	160.8	43	230.6	69	93.6	34	132.8	51	2,674.2	60
Wilmington, N. C	364.3	83	268.0	64	269.7	73	234.3	67	203.8	65	223.3	73	2,833.5	63
Wytheville, Va	342.4	77	270.1	64	270.1	72	229.7	66	176.2	58	167.4	56	2,659.6	59
Yankton, S. Dak	224.2	48	275.3	64	219.7	59	225.9	66	124.5	43	92.5	33	2,371.9	52

*Record incomplete.

EXCESSIVE RAINFALL, 1903.

The table following contains the record of excessive rainfall for the calendar year 1903. Similar records for the years 1896, 1897, 1898, 1899, 1900, 1901, and 1902 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, 1901–2, pages 268–275, and 1902–3, pages 269–278, 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 1903 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.																				
Eastport, Me.:																				
July 10	1.20 p. m.	3.35 p. m.	1.25	2.15 p. m.	3.10 p. m.	0.15	0.08	0.11	0.18	0.29	0.38	0.46	0.57	0.60	0.67	0.95	1.10	.....	.....	.....
Concord, N. H.:																				
July 21	5.10 a. m.	11.30 a. m.	1.87	8.00 a. m.	9.00 a. m.	.35	.09	.17	.19	.26	.30	.33	.49	.62	.82	1.07	1.25	.....	.....	.....
July 30	1.20 p. m.	2.37 p. m.	1.68	1.39 p. m.	2.20 p. m.	.01	.55	.80	.88	.88	.93	1.16	1.25	1.40	1.61	1.66	.....	.....	.....	.....
Boston, Mass.:																				
June 20–21	5.30 p. m.	11.50 p. m.	2.51	3.25 p. m.	3.50 p. m.	1.29	.08	.22	.36	.46	.51	.54	.56	.....	.....	.....	.....	.....	.....	.....
Oct. 17–18	1.05 p. m.	6.50 a. m.	2.58	2.58 p. m.	3.18 p. m.	.09	.23	.41	.43	.48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Block Island, R. I.:																				
June 11–12	10.24 p. m.	10.40 a. m.	1.52	9.10 a. m.	9.45 a. m.	.21	.05	.10	.22	.35	.46	.58	.66	.68	.....	.....	.....	.....	.....	.....
New Haven, Conn.:																				
Sept. 5	12.59 p. m.	1.24 p. m.	.42	1.11 p. m.	1.17 p. m.	.10	.25	.31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 27	5.55 p. m.	11.15 p. m.	.89	6.09 p. m.	6.21 p. m.	T.	.29	.43	.48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MIDDLE ATLANTIC STATES.																				
Albany, N. Y.:																				
June 30	4.03 p. m.	4.36 p. m.	.73	4.13 p. m.	4.30 p. m.	T.	.26	.62	.71	.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Binghamton, N. Y.:																				
Aug. 11	3.17 p. m.	3.53 p. m.	.53	3.21 p. m.	3.35 p. m.	.01	.23	.46	.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 10	8.15 p. m.	D. N.	.87	8.21 p. m.	8.40 p. m.	T.	.21	.39	.50	.54	.54	.56	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 8	7.54 a. m.	4.20 p. m.	1.16	8.25 a. m.	8.50 a. m.	.04	.14	.30	.38	.44	.50	.53	.56	.....	.....	.....	.....	.....	.....	.....
New York, N. Y.:																				
June 29	4.30 a. m.	11.38 a. m.	2.38	9.08 a. m.	9.58 a. m.	.42	.03	.12	.18	.20	.25	.28	.33	.37	.52	.70	.....	.....	.....	.....
				9.58 a. m.	10.48 a. m.	.....	.86	.95	1.07	1.08	1.13	1.17	1.23	1.28	1.57	1.68	.....	.....	.....	.....
				10.48 a. m.	11.10 a. m.	.....	1.73	1.78	1.85	1.90	1.94	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 22	2.50 p. m.	3.50 p. m.	.55	3.20 p. m.	3.45 p. m.	T.	.06	.06	.17	.40	.49	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 30	5.23 p. m.	6.40 p. m.	.46	5.23 p. m.	5.43 p. m.	.00	.10	.28	.38	.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 16	8.28 a. m.	2.10 p. m.	1.27	11.35 a. m.	12.23 p. m.	.46	.08	.17	.23	.29	.35	.43	.49	.58	.67	.72	.76	.....	.....	.....
				7.00 p. m.	8.40 p. m.	1.10	.08	.12	.25	.39	.43	.49	.59	.67	.74	.79	.93	1.11	1.24	.....
				2.15 a. m.	2.45 a. m.	3.75	.10	.17	.33	.43	.50	.56	.60	.64	.68	.72	.78	.....	.....	.....
Oct. 8–9	9.17 a. m.	3.55 p. m.	10.04	7.25 a. m.	8.15 a. m.	6.69	.09	.15	.20	.25	.31	.36	.41	.48	.58	.67	.....	.....	.....	.....
				8.15 a. m.	9.05 a. m.	.....	.78	.89	.99	1.07	1.16	1.25	1.40	1.62	1.78	1.98	.....	.....	.....	.....
				9.05 a. m.	9.45 a. m.	.....	2.12	2.25	2.32	2.38	2.44	2.59	2.66	2.77	2.80	2.82	.....	.....	.....	.....
Philadelphia, Pa.:																				
June 10	10.57 a. m.	12.55 p. m.	2.05	11.00 a. m.	12.15 p. m.	.02	.10	.23	.38	.47	.54	.70	.97	1.28	1.47	1.60	1.78	2.00	.....	.....
July 18	3.50 p. m.	6.20 p. m.	.87	5.15 p. m.	5.50 p. m.	.07	.06	.09	.10	.14	.28	.67	.74	.78	.....	.....	.....	.....	.....	.....
Scranton, Pa.:																				
July 11	12.18 p. m.	1.36 p. m.	.50	12.26 p. m.	12.35 p. m.	T.	.32	.38	.41	.44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1903, 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.	60 min.	80 min.	100 min.	120 min.
MIDDLE ATLANTIC STATES—cont'd.																			
Atlantic City, N. J.:																			
July 12	2.55 p. m.	4.45 p. m.	0.91	3.15 p. m.	3.45 p. m.	0.12	0.10	0.23	0.33	0.45	0.60	0.72							
July 18	7.32 p. m.	8.50 p. m.	1.31	7.50 p. m.	8.45 p. m.	T.	.11	.19	.29	.57	.63	.64	0.64	0.74	0.94	1.14	1.30		
July 22	5.45 p. m.	11.55 p. m.	5.40	5.47 p. m.	6.37 p. m.	T.	.14	.35	.49	.60	.73	.83	.92	1.14	1.36	1.50			
				6.37 p. m.	7.30 p. m.		1.61	1.75	1.94	2.22	2.55	2.89	3.11	3.44	3.68	3.83	3.99	4.15	4.58	4.72
Aug. 4–5	9.00 p. m.	2.00 a. m.	1.44	12.17 a. m.	1.20 a. m.	.04	.06	.24	.31	.35	.37	.38	.40	.44	.62	1.00	1.29		
Sept. 16	4.10 a. m.	8.15 a. m.	1.17	6.50 a. m.	7.30 a. m.	.53	.05	.09	.15	.23	.32	.44	.54	.61	.63				
Oct. 2	4.53 p. m.	6.10 p. m.	.58	4.56 p. m.	5.15 p. m.	T.	.09	.28	.51	.55	.57								
Oct. 8–9	4.29 p. m.	7.15 a. m.	4.11	7.10 p. m.	8.35 p. m.	.55	.17	.31	.40	.51	.63	.71	.74	.79	.93	1.04	1.18	1.45	1.67	1.75
				12.40 p. m.	1.30 p. m.	1.24	.05	.09	.13	.19	.29	.38	.45	.58	.63	.69			
				1.30 p. m.	2.20 p. m.		.74	.81	.87	.94	1.00	1.09	1.25	1.38	1.46	1.51			
Oct. 9	8.01 a. m.	7.40 p. m.	5.63	2.20 p. m.	3.10 p. m.		1.54	1.57	1.61	1.66	1.69	1.75	1.81	1.87	1.94	2.00			
				3.10 p. m.	4.00 p. m.		2.15	2.23	2.31	2.35	2.44	2.50	2.55	2.60	2.67	2.72			
				4.00 p. m.	5.15 p. m.		2.77	2.81	2.85	2.90	2.96	3.01	3.07	3.14	3.22	3.35	3.64	3.96	4.06
Baltimore, Md.:																			
May 24	2.30 a. m.	4.20 a. m.	1.63	2.53 a. m.	3.30 a. m.	.03	.21	.58	.80	.87	.93	1.22	1.44	1.51	1.54				
June 8	3.03 p. m.	3.45 p. m.	.73	3.18 p. m.	3.35 p. m.	T.	.32	.54	.70	.73									
July 12	12.01 p. m.	1.10 p. m.	2.87	12.04 p. m.	12.37 p. m.		.33	.98	1.72	2.23	2.52	2.69	2.87						
July 30	4.10 p. m.	6.10 p. m.	1.04	4.33 p. m.	4.55 p. m.	T.	.08	.18	.64	.93	1.00								
Washington, D. C.:																			
Feb. 28	8.50 a. m.	10.40 a. m.	.53	9.45 a. m.	9.58 a. m.	.05	.34	.45	.48										
Mar. 21–22	5.20 p. m.	11.00 a. m.	1.44	7.30 p. m.	7.45 p. m.	.10	.16	.32	.36	.36	.37	.40	.42	.43					
May 3	6.45 p. m.	8.30 p. m.	.64	7.40 p. m.	8.04 p. m.	T.	.07	.24	.30	.45	.51	.64							
June 21	8.30 p. m.	10.00 p. m.	.89	9.00 p. m.	9.40 p. m.	.07	.08	.23	.30	.46	.60	.67	.73	.81					
July 12	12.03 p. m.	7.18 p. m.	2.81	12.15 p. m.	1.10 p. m.	.02	.23	.58	.90	1.00	1.15	1.31	1.34	1.36	1.38	1.58	1.72		
Aug. 28–29	7.46 p. m.	5.30 a. m.	.84	8.43 p. m.	9.09 p. m.	T.	.12	.17	.37	.58	.71	.73							
Sept. 17	2.10 p. m.	3.20 p. m.	.89	2.20 p. m.	2.30 p. m.	T.	.25	.84											
Lynchburg, Va.:																			
Feb. 27–28	10.10 a. m.	9.50 a. m.	1.89	7.40 a. m.	8.00 a. m.	1.18	.09	.13	.25	.60	.63								
Aug. 29–30	8.30 p. m.	1.20 p. m.	2.78	9.10 p. m.	10.20 p. m.	.04	.55	1.06	1.51	1.89	2.03	2.13							
Sept. 27	5.05 p. m.	6.10 p. m.	.68	5.11 p. m.	5.46 p. m.	T.	.22	.28	.40	.52	.53	.54	.65						
Norfolk, Va.:																			
Mar. 21	2.55 p. m.	6.00 p. m.	.84	3.07 p. m.	3.40 p. m.	.03	.08	.17	.21	.26	.44	.61	.64	.69	.77	.78			
May 24	9.55 p. m.	11.55 p. m.	1.18	9.58 p. m.	10.20 p. m.	T.	.26	.64	.86	.93	.97	.99							
Aug. 11	4.12 p. m.	6.55 p. m.	2.14	4.12 p. m.	4.40 p. m.	.00	.36	.92	1.12	1.27	1.45	1.50	1.52						
Aug. 30	5.25 p. m.	5.55 p. m.	.60	5.33 p. m.	5.41 p. m.	T.	.46	.60											
Sept. 2	4.10 a. m.	5.15 a. m.	1.17	4.11 a. m.	4.41 a. m.	T.	.28	.52	.70	.87	1.05	1.16							
Nov. 17–18	7.15 p. m.	8.35 a. m.	1.73	7.37 p. m.	8.40 p. m.	T.	.05	.14	.20	.24	.29	.35	.44	.49	.54	.66	.81	.94	
Richmond, Va.:																			
Mar. 21	4.07 p. m.	7.10 p. m.	1.56	6.15 p. m.	6.52 p. m.	.20	.28	.60	.72	.80	.91	1.10	1.30	1.34	1.35				
May 30	6.39 p. m.	7.38 p. m.	1.03	6.39 p. m.	7.10 p. m.	.00	.24	.43	.61	.66	.86	.96	.99	1.01					
June 11	3.27 p. m.	8.50 p. m.	1.01	8.35 p. m.	4.15 p. m.	.04	.06	.15	.26	.34	.46	.61	.68	.72	.75	.78	.81		
July 4	4.00 p. m.	8.50 p. m.	1.45	4.18 p. m.	5.03 p. m.	T.	.11	.43	.62	.75	.81	.88	.91	1.03	1.24				
Wytheville, Va.:																			
May 31	11.02 a. m.	11.27 a. m.	.79	11.02 a. m.	11.17 a. m.	.00	.19	.51	.75	.78	.79								
June 27	5.29 p. m.	11.10 p. m.	1.60	6.35 p. m.	7.10 p. m.	.01	.12	.33	.49	.77	1.07	1.17	1.22	1.25					
Aug. 29	8.28 p. m.	10.00 p. m.	.68	8.25 p. m.	8.37 p. m.	.01	.28	.47	.50	.54									
SOUTH ATLANTIC STATES.																			
Asheville, N. C.:																			
July 5	2.45 p. m.	5.35 p. m.	1.51	2.58 p. m.	3.30 p. m.	.05	.24	.61	.90	1.13	1.26	1.35	1.39						
July 28	3.15 p. m.	4.40 p. m.	1.24	3.20 p. m.	3.50 p. m.	.02	.34	.63	.87	1.09	1.12	1.17	1.19						
Aug. 29	1.05 p. m.	1.25 p. m.	.51	1.05 p. m.	1.20 p. m.	.00	.23	.37	.51										
Charlotte, N. C.:																			
Apr. 12–13	9.15 p. m.	6.50 a. m.	1.23	11.49 p. m.	12.35 a. m.	.09	.22	.27	.27	.29	.35	.46	.51	.55	.74	.74			
June 20	5.35 p. m.	8.15 p. m.	1.13	7.23 p. m.	8.00 p. m.	.13	.16	.48	.75	.78	.80	.82	.95	.99					
June 22	11.38 a. m.	12.50 p. m.	.88	11.38 a. m.	12.15 p. m.	.00	.18	.37	.56	.61	.67	.73	.78	.80	.83				
Hatteras, N. C.:																			
Feb. 7–8	12.01 p. m.	8.20 a. m.	3.41	2.55 a. m.	4.20 a. m.	1.11	.06	.11	.18	.24	.31	.37	.42	.48	.53	.58	.75	1.24	1.40
Mar. 7	9.30 p. m.	11.55 p. m.	.90	11.20 p. m.	11.35 p. m.	.37	.12	.29	.44	.50	.52								
June 11	3.30 a. m.	7.30 a. m.	1.15	4.12 a. m.	4.54 a. m.	.04	.10	.14	.19	.23	.33	.46	.62	.83	.87				
Aug. 14	9.30 p. m.	11.50 p. m.	1.09	9.45 p. m.	10.18 p. m.	.01	.13	.31	.52	.71	.91	1.04							
Sept. 17–18	10.50 p. m.	5.40 a. m.	2.40	11.25 p. m.	12.15 a. m.	.04	.10	.47	.76	1.03	1.20	1.36	1.47	1.52	1.63	1.70			
Oct. 17	12.45 p. m.	4.15 p. m.	.87	3.17 p. m.	3.52 p. m.	.04	.05	.11	.29	.56	.69	.75	.81						
Raleigh, N. C.:																			
Feb. 4	7.38 a. m.	12.30 p. m.	.90	9.40 a. m.	10.10 a. m.	.08	.06	.25	.38	.45	.65	.70							
Mar. 22–23	D. N.	11.15 a. m.	2.49	2.15 a. m.	3.20 a. m.	.40	.08	.14	.20	.27	.52	.81	.87	.88	.92	1.08	1.26	1.44	
May 21	4.11 p. m.	4.45 p. m.	.68	4.14 p. m.	4.35 p. m.	T.	.20	.34	.59	.67	.68								
May 28–29	10.25 p. m.	D. N.	1.28	10.52 p. m.	12.15 a. m.	T.	.12	.20	.26	.32	.55	.58	.61	.65	.66	.67	.79	1.19	1.28
June 22	2.45 p. m.	7.00 p. m.	2.26	3.05 p. m.	4.15 p. m.	.04	.09	.25	.35	.49	.56	.59	.61	.65	.91	1.16	1.56	1.87	
July 27	10.30 p. m.	11.22 p. m.	1.46	10.50 p. m.	11.20 p. m.	T.	.05	.13	.36	.61	1.23	1.45	1.46						
July 28	12.30 a. m.	3.30 a. m.	1.46	2.05 a. m.	3.00 a. m.	.12	.05	.15	.22	.33	.48	.56	.70	.94	1.08	1.19	1.28		
Aug. 15	3.55 a. m.	5.00 a. m.	1.01	4.15 a. m.	4.45 a. m.	.18	.18	.32	.38	.46	.67	.81							
Wilmington, N. C.:																			
Apr. 20	12.35 p. m.	1.55 p. m.	.82	1.01 p. m.	1.53 p. m.	.02	.21	.41	.44	.49	.49	.49	.50	.53	.65	.77	.80		
May 4	3.00 p. m.	8.15 p. m.	1.18	3.08 p. m.	3.45 p. m.	.02	.08	.20	.33	.43	.50	.59	.64	.70	.73	.76			
May 30	11.40 a. m.	1.12 p. m.	.68	11.43 a. m.	12.15 p. m.	T.	.10	.16	.23	.30	.46	.52	.59	.62	.64				

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1903, 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.																				
Wilmington, N.C.—Continued.																				
June 7	3.20 a. m.	9.05 a. m.	3.78	7.15 a. m.	8.05 a. m.	0.91	0.07	0.17	0.34	0.43	0.54	0.68	0.80	1.02	1.20	1.48	.....	.....	.....	.....
				8.05 a. m.	8.45 a. m.	.....	1.75	1.89	2.10	2.19	2.30	2.52	2.70	2.83	2.86	.....	.....	.....	.....	.....
June 25	1.57 p. m.	2.33 p. m.	1.68	2.00 p. m.	2.25 p. m.	T.	.26	.61	.88	1.21	1.28	1.31	.....	.....	.....	.....	.....	.....	.....	.....
July 13	8.10 p. m.	D. N.	.96	9.30 p. m.	10.25 p. m.	.04	.09	.22	.40	.49	.56	.56	.57	.59	.65	.75	0.83	.....	.....	.....
Aug. 13	8.40 a. m.	12.20 p. m.	1.54	10.33 a. m.	10.43 a. m.	.66	.37	.67	.72	.74	.75	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 20	12.05 a. m.	2.30 p. m.	3.77	2.28 a. m.	4.07 a. m.	.14	.11	.30	.49	.50	.59	.71	.93	1.11	1.16	1.16	1.30	1.94	2.26	2.37
Charleston, S. C.:																				
June 18	12.52 p. m.	2.08 p. m.	.83	1.05 p. m.	1.45 p. m.	.04	.20	.37	.51	.56	.59	.64	.67	.73	.77	.....	.....	.....	.....	.....
July 13–14	8.35 p. m.	5.05 a. m.	1.75	12.35 a. m.	1.40 a. m.	.40	.14	.30	.36	.38	.48	.52	.53	.54	.62	.71	.83	1.06	.....	.....
Aug. 9	6.04 p. m.	7.06 p. m.	1.26	6.28 p. m.	6.55 p. m.	T.	.31	.59	.90	1.13	1.22	1.25	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 31	1.01 p. m.	4.47 p. m.	1.88	1.08 p. m.	2.05 p. m.	.01	.18	.37	.64	.74	.83	.89	.91	.94	.97	1.03	1.48	.....	.....	.....
Oct. 17	2.05 p. m.	6.34 p. m.	1.11	4.36 p. m.	5.06 p. m.	.43	.09	.23	.29	.38	.50	.54	.....	.....	.....	.....	.....	.....	.....	.....
Columbia, S. C.:																				
Jan. 2	D. N.	7.30 p. m.	1.32	12.50 p. m.	1.20 p. m.	.27	.05	.17	.42	.66	.74	.92	.96	.....	.....	.....	.....	.....	.....	.....
May 28	6.30 p. m.	10.20 p. m.	1.35	6.45 p. m.	7.25 p. m.	.05	.13	.28	.42	.58	.74	.87	.98	1.03	.....	.....	.....	.....	.....	.....
June 1–2	7.02 p. m.	D. N.	3.12	7.35 p. m.	8.10 p. m.	.05	.09	.21	.34	.53	.76	1.18	1.48	1.53	1.58	1.64	1.68	.....	.....	.....
				11.35 p. m.	11.50 p. m.	1.92	.09	.58	.88	.92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 6	3.50 a. m.	7.24 a. m.	1.95	3.55 a. m.	4.25 a. m.	T.	.12	.45	.72	.87	.92	.96	.99	.....	.....	.....	.....	.....	.....	.....
	8.42 p. m.	10.36 p. m.	1.27	8.52 p. m.	9.20 p. m.	T.	.17	.47	.74	1.01	1.23	1.27	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 2–3	9.18 p. m.	D. N.	2.34	9.20 p. m.	10.15 p. m.	T.	.05	.35	.61	.84	1.03	1.20	1.41	1.51	1.61	1.66	1.74	1.91	.....	.....
Aug. 3	1.54 p. m.	2.46 p. m.	.59	1.58 p. m.	2.13 p. m.	T.	.14	.35	.48	.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 8	2.01 p. m.	4.09 p. m.	.67	3.35 p. m.	3.50 p. m.	.10	.15	.41	.53	.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 31	12.59 p. m.	2.16 p. m.	1.00	1.07 p. m.	1.30 p. m.	T.	.22	.59	.74	.84	.92	.....	.....	.....	.....	.....	.....	.....	.....	.....
Augusta, Ga.:																				
Feb. 16	4.30 p. m.	9.45 p. m.	.59	6.00 p. m.	6.07 p. m.	.02	.37	.46	.48	.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Feb. 28	7.08 a. m.	8.50 a. m.	.61	7.17 a. m.	7.35 a. m.	.03	.15	.28	.43	.49	.51	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mar. 21	7.42 p. m.	9.28 p. m.	1.51	8.05 p. m.	8.35 p. m.	.11	.09	.26	.55	.82	1.07	1.11	1.14	1.18	.....	.....	.....	.....	.....	.....
Apr. 13	11.35 a. m.	12.30 p. m.	1.06	11.55 a. m.	12.20 p. m.	.17	.16	.32	.52	.82	.87	.89	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 25–26	5.35 p. m.	7.50 a. m.	1.04	5.45 p. m.	6.25 p. m.	.04	.06	.28	.42	.43	.45	.48	.59	.70	.73	.76	.79	.....	.....	.....
May 28	5.55 p. m.	6.25 p. m.	.65	5.58 p. m.	6.15 p. m.	T.	.09	.29	.59	.64	.65	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 11	4.40 p. m.	5.50 p. m.	.96	4.47 p. m.	5.00 p. m.	T.	.34	.74	.87	.90	.91	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 2	8.14 p. m.	10.09 p. m.	1.98	8.22 p. m.	9.10 p. m.	T.	.10	.31	.53	.74	1.00	1.34	1.58	1.70	1.85	1.88	.....	.....	.....	.....
Aug. 4	7.03 p. m.	8.25 p. m.	1.31	7.03 p. m.	7.30 p. m.	.00	.17	.53	.77	.98	1.14	1.19	1.23	1.25	.....	.....	.....	.....	.....	.....
Aug. 14	8.45 p. m.	9.50 p. m.	3.08	8.46 p. m.	9.25 p. m.	T.	.19	.59	1.33	1.77	2.20	2.56	2.87	3.01	.....	.....	.....	.....	.....	.....
Sept. 3	4.59 p. m.	6.22 p. m.	1.32	5.00 p. m.	5.30 p. m.	T.	.20	.56	.81	.98	1.17	1.30	1.31	.....	.....	.....	.....	.....	.....	.....
Nov. 2	4.27 p. m.	6.45 p. m.	2.34	5.03 p. m.	6.00 p. m.	.05	.06	.15	.34	.45	.66	1.06	1.38	1.76	2.00	2.19	2.24	.....	.....	.....
Savannah, Ga.:																				
Mar. 29	D. N.	9.20 p. m.	3.34	12.15 p. m.	1.05 p. m.	1.81	.05	.13	.21	.30	.34	.37	.43	.54	.67	.75	.82	.93	.....	.....
June 4	8.54 a. m.	1.35 p. m.	.77	8.57 a. m.	9.15 a. m.	T.	.14	.40	.60	.67	.68	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 8	2.20 p. m.	4.25 p. m.	1.10	2.32 p. m.	2.55 p. m.	.03	.13	.25	.42	.67	.73	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 11	8.28 p. m.	11.20 p. m.	.99	8.28 p. m.	9.00 p. m.	.00	.12	.28	.50	.62	.66	.76	.81	.83	.....	.....	.....	.....	.....	.....
June 18	6.10 p. m.	8.45 p. m.	.69	6.10 p. m.	6.45 p. m.	.00	.15	.35	.41	.44	.48	.60	.64	.67	.....	.....	.....	.....	.....	.....
July 9	D. N.	4.43 p. m.	4.09	10.45 a. m.	11.45 a. m.	1.18	.10	.17	.26	.40	.54	.69	.99	1.30	1.54	1.79	1.91	2.09	2.42	2.63
July 22	2.55 p. m.	4.30 p. m.	.70	3.15 p. m.	3.40 p. m.	T.	.16	.31	.49	.60	.67	.70	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 15	12.27 p. m.	5.45 p. m.	2.08	12.54 p. m.	1.42 p. m.	.02	.37	.52	.75	.76	.77	.77	.77	.77	.87	1.13	1.36	1.48	1.68	1.72	1.73
Aug. 31	8.27 p. m.	10.30 p. m.	.91	8.38 p. m.	9.08 p. m.	.02	.30	.40	.45	.47	.54	.71	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 2	1.02 p. m.	2.00 p. m.	1.95	1.15 p. m.	1.48 p. m.	.08	.15	.53	1.09	1.35	1.59	1.78	1.86	.....	.....	.....	.....	.....	.....	.....
Oct. 16–17	1.16 p. m.	6.20 p. m.	2.06	[a] 2.18 p. m.	[a] 2.48 p. m.	.85	.23	.36	.50	.69	.77	.89	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 4	1.55 p. m.	4.25 p. m.	.81	2.40 p. m.	2.53 p. m.	.04	.20	.43	.54	.56	.58	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jacksonville, Fla.:																				
Apr. 13	5.30 p. m.	8.30 p. m.	1.01	6.21 p. m.	7.15 p. m.	.01	.09	.30	.46	.70	.72	.72	.72	.72	.76	.91	.96	.....	.....	.....
				12.15 a. m.	12.50 a. m.	2.34	.10	.22	.34	.41	.49	.59	.66	.....	.....	.....	.....	.....	.....	.....
				5.30 a. m.	6.20 a. m.	4.17	.06	.15	.34	.55	.67	.76	.86	.96	1.10	.....	.....	.....	.....	.....
May 12–13	12.17 p. m.	10.30 a. m.	8.93	6.20 a. m.	7.10 a. m.	.....	1.29	1.43	1.58	1.85	2.01	2.26	2.50	2.69	2.80	2.97	.....	.....	.....	.....
				7.10 a. m.	8.00 a. m.	.....	3.19	3.43	3.95	3.75	3.83	3.93	3.96	4.10	4.17	4.22	.....	.....	.....	.....
June 6	4.16 p. m.	5.40 p. m.	.85	4.18 p. m.	4.35 p. m.	T.	.17	.53	.75	.77	.79	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 18	3.33 p. m.	4.55 p. m.	1.02	3.43 p. m.	4.12 p. m.	T.	.10	.21	.50	.78	.92	1.01	.....	.....	.....	.....	.....	.....	.....	.....
July 29	1.52 p. m.	5.40 p. m.	.69	3.30 p. m.	3.46 p. m.	.13	.26	.38	.50	.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 12	5.10 p. m.	8.40 p. m.	2.01	5.20 p. m.	6.40 p. m.	.04	.16	.39	.58	.70	.79	.93	1.06	1.20	1.30	1.43	1.58	1.83	.....	.....
Aug. 29	5.54 p. m.	7.52 p. m.	1.38	6.13 p. m.	7.20 p. m.	T.	.09	.18	.28	.39	.49	.64	.82	.95	1.01	1.10	1.20	1.37	.....	.....
Oct. 6	12.32 p. m.	2.24 p. m.	1.44	12.32 p. m.	1.23 p. m.	.00	.21	.23	.34	.45	.57	.75	.96	1.03	1.15	1.26	1.33	.....	.....	.....
Oct. 17	2.15 p. m.	5.00 p. m.	.85	2.56 p. m.	3.14 p. m.	.01	.35	.67	.71	.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
FLORIDA PENINSULA.																				
Jupiter, Fla.:																				
Jan. 20	12.15 a. m.	5.30 p. m.	3.33	1.50 p. m.	2.40 p. m.	2.01	.04	.08	.15	.34	.49	.60	.66	.67	.77	.89	.93	.....	.....	.....
Jan. 26	6.20 a. m.	10.58 a. m.	1.51	8.52 a. m.	9.30 a. m.	.13	.18	.47	.67	.87	1.02	1.11	1.13	1.21	1.26	.....	.....	.....	.....	.....
Mar. 18–19	7.25 p. m.	2.10 p. m.	2.49	12.30 p. m.	1.00 p. m.	1.55	.08	.19	.37	.57	.78	.77	.81	.....	.....	.....	.....	.....	.....	.....
Mar. 24–25	10.55 p. m.	1.05 a. m.	1.04	12.10 a. m.	12.55 a. m.	.14	.08	.18	.31	.38	.45	.58	.69	.83	.90	.91	.....	.....	.....	.....
Mar. 29	12.52 p. m.	1.35 p. m.	.89	12.58 p. m.	1.20 p. m.	.01	.10	.40	.70	.80	.85	.87	.....	.....	.....	.....	.....	.....	.....	.....
May 14	2.29 p. m.	3.25 p. m.	1.05	2.56 p. m.	3.15 p. m.	.01	.21	.58	.86	1.01	1.02	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 21	10.55 a. m.	1.45 p. m.	1.51	12.47 p. m.	1.35 p. m.	.54	.11	.19	.31	.57	.72	.77	.85	.93	.97	.....	.....	.....	.....	.....
June 29	11.41 a. m.	2.30 p. m.	1.05	12.23 p. m.	12.45 p. m.	T.	.22	.42	.68	.86	.96	.97	1.00	.....	.....	.....	.....	.....	.....	.....
July 15	12.56 p. m.	2.20 p. m.	.79	1.00 p. m.	1.25 p. m.	T.	.17	.42	.56	.66	.74	.77	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 2	3.30 p. m.	9.00 p. m.	1.17	7.43 p. m.	8.30 p. m.	.06	.16	.26	.52	.70	.79	.90	.97	1.02	1.06	1.10	.....	.....	.....	.....
Sept. 3	12.07 p. m.	10.45 p. m.	2.40	2.12 p. m.	2.40 p. m.	.45	.26	.63	.79	.97	1.10	1.16	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 11–12	12.20 p. m.	9.50 p. m.	7.42	9.10 a. m.	9.29 a. m.	5.08	.04	.18	.53	.65	.65	.65	.69	.83	.....	.....	.....	.....	.....	.....
Sept. 13	2.15 a. m.	5.30 a. m.	.84	2.19 a. m.	2.50 a. m.	T.	.05	.19	.40	.52	.67	.76	.78	.....	.....	.....	.....	.....	.....	.....
Nov. 4–5	8.23 p. m.	2.20 a. m.	1.07	9.04 p. m.	9.58 p. m.	T.	.18	.35	.46	.47	.48	.48	.48	.50	.55	.77	.88	.....	.....	.....

[a] October 17.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1903, 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.
FLORIDA PENINSULA—cont'd.																				
Key West, Fla.:																				
Mar. 27	2.45 p. m.	4.55 p. m.	1.04	3.02 p. m.	4.00 p. m.	0.02	0.08	0.12	0.16	0.17	0.25	0.42	0.66	0.74	0.79	0.87	0.95	.....	.....	.....
June 15	6.35 p. m.	9.40 p. m.	1.80	6.40 p. m.	7.20 p. m.	.01	.23	.45	.61	.80	1.09	1.38	1.56	1.66	1.70	1.73	.....	.....	.....	.....
July 15	2.40 p. m.	4.15 p. m.	1.02	2.40 p. m.	3.30 p. m.	.00	.12	.13	.21	.36	.40	.45	.60	.77	.92	.99	1.01	.....	.....	.....
Aug. 12	12.50 p. m.	5.00 p. m.	.93	2.13 p. m.	2.28 p. m.	.02	.32	.62	.78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 3	8.40 p. m.	11.05 p. m.	1.22	8.59 p. m.	9.50 p. m.	T.	.19	.40	.56	.74	.83	.89	.99	1.07	1.12	1.18	1.21	.....	.....	.....
Oct. 29–30	10.00 p. m.	5.45 p. m.	2.09	2.27 p. m.	3.28 p. m.	1.04	.10	.13	.16	.20	.43	.50	.53	.54	.56	.60	.88	.....	.....	.....
Tampa, Fla.:																				
Jan. 26	4.35 p. m.	10.20 p. m.	.90	7.40 p. m.	8.23 p. m.	.03	.12	.33	.46	.56	.61	.65	.67	.80	.85	.....	.....	.....	.....	.....
Mar. 23	D. N.	7.30 a. m.	1.05	1.45 a. m.	2.05 a. m.	.05	.10	.33	.55	.61	.64	.67	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 9	2.12 p. m.	5.10 p. m.	.58	3.07 p. m.	3.20 p. m.	.03	.12	.32	.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May 12	5.50 p. m.	7.45 p. m.	.71	6.03 p. m.	6.33 p. m.	T.	.05	.10	.14	.23	.42	.62	.63	.66	.....	.....	.....	.....	.....	.....
June 7	5.50 p. m.	8.15 p. m.	2.02	5.54 p. m.	6.45 p. m.	T.	.21	.51	.59	.64	.67	.83	1.36	1.70	1.79	1.86	1.90	.....	.....	.....
June 8–9	11.15 p. m.	12.40 a. m.	.70	11.33 p. m.	11.55 p. m.	T.	.07	.27	.42	.55	.58	.62	.....	.....	.....	.....	.....	.....	.....	.....
July 10	6.05 p. m.	7.20 p. m.	2.30	6.07 p. m.	7.10 p. m.	T.	.19	.40	.71	.94	1.23	1.49	1.80	1.95	2.06	2.15	2.26	2.30	.....	.....
July 29	5.50 a. m.	8.10 a. m.	1.20	5.58 a. m.	6.53 a. m.	T.	.05	.09	.11	.12	.14	.33	.59	.81	.94	1.01	1.10	.....	.....	.....
Aug. 4	5.00 p. m.	6.10 p. m.	2.39	5.05 p. m.	5.40 p. m.	T.	.11	.43	.64	.85	1.08	1.20	1.28	1.31	.....	.....	.....	.....	.....	.....
Aug. 22	5.03 p. m.	9.30 p. m.	1.17	5.06 p. m.	5.35 p. m.	T.	.16	.32	.48	.66	.81	.94	.98	1.00	.....	.....	.....	.....	.....	.....
Sept. 4	4.55 p. m.	6.30 p. m.	1.59	5.25 p. m.	6.00 p. m.	.10	.08	.26	.50	.67	1.02	1.35	1.45	1.47	.....	.....	.....	.....	.....	.....
Sept. 12–13	9.35 p. m.	8.15 a. m.	2.14	7.02 a. m.	7.45 a. m.	.73	.06	.33	.65	.84	.85	.87	.98	1.23	1.39	1.40	.....	.....	.....	.....
Sept. 18	4.10 p. m.	6.05 p. m.	1.70	4.27 p. m.	4.57 p. m.	.01	.13	.50	.89	1.11	1.36	1.51	1.55	.....	.....	.....	.....	.....	.....	.....
Nov. 6	9.55 a. m.	12.45 p. m.	.88	10.12 a. m.	10.34 a. m.	.02	.11	.26	.67	.81	.83	.....	.....	.....	.....	.....	.....	.....	.....	.....
EASTERN GULF STATES.																				
Atlanta, Ga.:																				
Mar. 20–21	9.22 p. m.	1.50 a. m.	1.66	9.35 p. m.	9.55 p. m.	.10	.06	.29	.41	.53	.55	.....	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 8	D. N.	8.25 a. m.	1.57	6.45 a. m.	7.00 a. m.	.99	.19	.42	.56	.57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May 31	3.48 p. m.	8.07 p. m.	1.60	6.15 p. m.	6.45 p. m.	.17	.16	.36	.58	.73	1.22	1.37	1.40	1.42	.....	.....	.....	.....	.....	.....
June 4	D. N.	5.50 p. m.	2.32	3.25 p. m.	3.50 p. m.	1.47	.05	.15	.29	.55	.70	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 28	1.01 p. m.	1.40 p. m.	.76	1.08 p. m.	1.30 p. m.	T.	.22	.39	.56	.68	.74	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 30	4.33 p. m.	5.00 p. m.	.62	4.34 p. m.	4.47 p. m.	T.	.30	.53	.61	.62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 15	7.23 p. m.	8.15 p. m.	.41	7.23 p. m.	7.36 p. m.	.00	.18	.31	.39	.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 3	11.54 a. m.	6.40 p. m.	1.54	1.07 p. m.	1.35 p. m.	.37	.18	.29	.44	.66	.73	.78	.....	.....	.....	.....	.....	.....	.....	.....
Macon, Ga.:																				
Feb. 28	4.50 a. m.	7.10 a. m.	.83	4.50 a. m.	5.20 a. m.	.00	.32	.40	.49	.53	.57	.66	.68	.....	.....	.....	.....	.....	.....	.....
Apr. 13	8.05 p. m.	10.35 p. m.	.55	10.05 p. m.	10.25 p. m.	.04	.17	.37	.43	.49	.51	.....	.....	.....	.....	.....	.....	.....	.....	.....
May 14–15	8.05 p. m.	5.15 a. m.	1.51	2.15 a. m.	2.35 a. m.	.76	.06	.28	.50	.62	.63	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 6	3.15 p. m.	5.10 p. m.	2.13	3.20 p. m.	4.25 p. m.	T.	.21	.52	.69	.72	1.05	1.26	1.35	1.37	1.42	1.50	1.73	1.83	2.13	.....
Aug. 15	3.25 p. m.	5.35 p. m.	1.59	3.25 p. m.	3.45 p. m.	.00	.20	.33	.60	.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 14–15	3.00 a. m.	7.41 a. m.	2.37	4.25 p. m.	4.50 p. m.	.43	.09	.21	.32	.44	.50	.52	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 2	8.10 a. m.	12.25 p. m.	1.26	10.35 a. m.	11.16 a. m.	.22	.08	.12	.23	.42	.59	.73	.85	.91	.94	.....	.....	.....	.....	.....
Nov. 17	2.18 p. m.	4.15 p. m.	.75	3.20 p. m.	3.32 p. m.	.01	.16	.51	.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pensacola, Fla.:																				
Jan. 28	7.40 a. m.	12.25 p. m.	2.86	7.41 a. m.	9.30 a. m.	T.	.11	.36	.41	.43	.46	.64	1.04	1.13	1.27	1.35	1.64	1.85	2.39	2.58
Feb. 11	2.15 a. m.	6.27 a. m.	1.11	2.35 a. m.	3.15 a. m.	.01	.08	.20	.37	.48	.54	.61	.66	.71	.74	.76	.80	.....	.....	.....
Feb. 28	12.40 a. m.	D. N.	.70	12.41 a. m.	12.55 a. m.	T.	.18	.37	.51	.53	.56	.62	.....	.....	.....	.....	.....	.....	.....	.....
July 9–10	11.31 p. m.	2.30 a. m.	1.13	11.47 p. m.	1.05 a. m.	.06	.15	.37	.61	.72	.75	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 10	9.43 a. m.	2.58 p. m.	2.55	9.46 a. m.	11.00 a. m.	.01	.28	.54	.66	.93	1.17	1.43	1.66	1.80	1.89	1.98	2.16	2.41	.....	.....
Oct. 16	5.15 a. m.	10.52 a. m.	3.82	6.02 a. m.	6.30 a. m.	.09	.30	.66	.84	1.02	1.16	1.20	1.22	.....	.....	.....	.....	.....	.....	.....
				9.16 a. m.	10.02 a. m.	2.12	.12	.23	.38	.48	.53	.76	.88	1.12	1.35	1.37	1.38	1.67	.....	.....
Nov. 2	9.06 p. m.	11.30 p. m.	5.12	9.39 p. m.	10.29 p. m.	.14	.25	.45	.49	.64	1.04	1.41	1.92	2.27	2.46	2.68	.....	.....	.....	.....
				10.29 p. m.	11.20 p. m.	.....	2.89	3.06	3.21	3.43	3.64	3.76	3.94	4.38	4.76	4.91	4.98	.....	.....	.....
*Birmingham, Ala.:																				
Sept. 16	7.45 p. m.	8.55 p. m.	.47	7.50 p. m.	8.07 p. m.	T.	.10	.25	.43	.46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 7	9.40 p. m.	11.55 p. m.	1.34	10.05 p. m.	10.50 p. m.	.03	.18	.37	.66	.96	1.02	1.05	1.13	1.20	1.25	.....	.....	.....	.....	.....
Montgomery, Ala.:																				
Jan. 1–2	7.20 p. m.	7.20 a. m.	1.06	3.40 a. m.	4.10 a. m.	.35	.04	.12	.29	.42	.58	.66	.....	.....	.....	.....	.....	.....	.....	.....
Feb. 7	D. N.	9.15 p. m.	2.77	2.50 p. m.	3.10 p. m.	1.02	.09	.34	.51	.64	.67	.70	.73	.....	.....	.....	.....	.....	.....	.....
Feb. 16	1.10 a. m.	4.15 p. m.	2.00	11.27 a. m.	12.35 p. m.	.61	.09	.14	.20	.27	.36	.40	.45	.49	.51	.58	.70	1.23	.....	.....
Feb. 27–28	8.30 p. m.	D. N.	1.40	12.10 a. m.	12.25 a. m.	.56	.34	.55	.67	.71	.74	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 21	4.28 p. m.	8.45 p. m.	2.94	5.20 p. m.	6.10 p. m.	.14	.19	.34	.43	.48	.58	.63	.70	.88	1.18	1.52	.....	.....	.....	.....
				6.10 p. m.	6.30 p. m.	.....	1.81	1.91	2.08	2.11	2.13	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 31	12.12 p. m.	12.40 p. m.	.65	12.12 p. m.	12.27 p. m.	.00	.12	.42	.62	.64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 19	6.32 p. m.	9.40 p. m.	3.16	6.32 p. m.	7.22 p. m.	.00	.15	.45	.75	1.07	1.36	1.59	1.98	2.12	2.28	2.37	.....	.....	.....	.....
				7.22 p. m.	7.48 p. m.	.....	2.43	2.47	2.60	2.74	2.84	2.90	.....	.....	.....	.....	.....	.....	.....	.....
Meridian, Miss.:																				
Jan. 10–11	8.30 a. m.	5.00 a. m.	2.85	1.50 a. m.	2.20 a. m.	1.62	.07	.16	.25	.35	.45	.53	.55	.....	.....	.....	.....	.....	.....	.....
Feb. 15–16	5.35 p. m.	12.35 p. m.	4.47	9.07 a. m.	9.30 a. m.	2.60	.31	.72	.79	.87	.93	.96	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 13	6.00 a. m.	8.18 a. m.	.86	7.50 a. m.	8.10 a. m.	.03	.12	.34	.58	.83	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 11	11.58 a. m.	2.05 p. m.	1.67	12.35 p. m.	1.50 p. m.	.08	.19	.45	.54	.54	.55	.56	.56	.70	.75	.78	1.19	1.31	.....	.....
July 30	5.53 p. m.	6.48 p. m.	1.51	5.55 p. m.	6.40 p. m.	.01	.16	.31	.55	.75	.92	1.09	1.15	1.36	1.50	.....	.....	.....	.....	.....
Aug. 16	11.40 a. m.	12.10 p. m.	1.14	11.43 a. m.	12.05 p. m.	.02	.15	.53	.82	1.30	1.11	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 19	8.10 p. m.	D. N.	.91	8.20 p. m.	8.35 p. m.	T.	.24	.43	.62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vicksburg, Miss.:																				
Mar. 8	D. N.	5.15 a. m.	1.79	12.53 a. m.	1.25 a. m.	.01	.22	.41	.61	.72	.84	.95	1.01	1.03	.....	.....	.....	.....	.....	.....
June 24	3.08 p. m.	4.50 p. m.	.89	3.14 p. m.	3.32 p. m.	T.	.44	.67	.79	.84	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 24	4.55 p. m.	5.40 p. m.	.84	5.03 p. m.	5.25 p. m.	.02	.16	.43	.56	.68	.79	.82	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 15	2.54 p. m.	3.35 p. m.	.60	3.01 p. m.	3.10 p. m.	.04	.29	.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 16	3.21 p. m.	6.25 p. m.	.85	5.31 p. m.	5.45 p. m.	.15	.25	.44	.62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 31	6.50 p. m.	8.15 p. m.	.51	7.02 p. m.	7.11 p. m.	.02	.27	.38	.44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

*Self-recording rain-gage installed Sept. 1, 1903.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1903, 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—cont'd.																				
New Orleans, La.:																				
Feb. 9–10	10.30 p. m.	10.50 p. m.	2.41	5.20 p. m.	5.50 p. m.	1.13	0.04	0.10	0.16	0.41	0.58	0.69	0.73	0.75						
Feb. 13–14	6.00 p. m.	3.30 a. m.	3.61	6.29 p. m.	8.12 p. m.	T.	.06	.22	.24	.33	.58	.66	.81	1.02	1.11	1.19	1.61	2.04	2.53	
Feb. 27	1.45 p. m.	10.45 p. m.	1.33	7.00 p. m.	7.15 p. m.	.57	.18	.35	.44	.48	.49	.52								
				1.33 p. m.	2.23 p. m.	.24	.11	.28	.37	.38	.39	.46	.78	1.13	1.38	1.55				
				2.23 p. m.	3.13 p. m.		1.68	1.78	2.07	2.14	2.38	2.60	2.92	3.21	3.37	3.45				
Mar. 14	12.45 p. m.	11.00 p. m.	8.33	3.13 p. m.	4.03 p. m.		3.63	3.79	3.99	4.23	4.31	4.38	4.52	4.65	4.85	5.16				
				4.03 p. m.	4.53 p. m.		5.48	5.67	5.96	6.19	6.22	6.35	6.35	6.35	6.40	6.45				
				4.53 p. m.	5.17 p. m.		6.45	6.52	6.66	6.89	6.95									
Apr. 30	7.57 a. m.	11.15 a. m.	.97	9.32 a. m.	10.03 a. m.	.26	.12	.27	.34	.47	.60	.66	.68							
June 22	9.52 a. m.	11.50 a. m.	1.66	10.35 a. m.	11.04 a. m.	.21	.51	.75	.83	1.06	1.32	1.43								
July 4	11.55 a. m.	1.10 p. m.	1.53	12.03 p. m.	12.50 p. m.	T.	.15	.40	.60	.76	1.08	1.17	1.27	1.39	1.45	1.50				
July 25	1.30 p. m.	3.25 p. m.	.99	1.37 p. m.	1.55 p. m.	T.	.26	.56	.81	.90	.91									
Aug. 22	3.20 p. m.	5.55 p. m.	2.89	3.31 p. m.	4.00 p. m.	T.	.23	.54	.84	1.69	1.18	1.22								
				5.11 p. m.	5.40 p. m.	1.42	.20	.49	.78	1.10	1.35	1.41								
Aug. 25	1.16 p. m.	2.40 p. m.	1.03	1.27 p. m.	1.46 p. m.	.01	.40	.78	.89	1.00										
Sept. 11	12.25 p. m.	1.35 p. m.	.54	12.43 p. m.	1.00 p. m.	.01	.23	.39	.47	.51	.52									
Sept. 12	1.06 p. m.	3.05 p. m.	1.28	1.06 p. m.	2.09 p. m.	.00	.10	.15	.36	.47	.55	.68	.80	.91	.98	1.06	1.18	1.26		
Dec. 12	12.15 p. m.	7.00 p. m.	.90	5.05 p. m.	5.35 p. m.	.08	.08	.14	.22	.39	.57	.65								
Dec. 25	8.25 a. m.	11.35 a. m.	1.77	8.45 a. m.	9.20 a. m.	.08	.09	.11	.23	.38	.50	.66	.74							
WEST GULF STATES.																				
Shreveport, La.:																				
Apr. 29	4.10 p. m.	10.00 p. m.	1.38	4.13 p. m.	4.37 p. m.	T.	.15	.37	.68	.75	.82									
July 12	4.00 p. m.	5.50 p. m.	.59	4.04 p. m.	4.30 p. m.	T.	.18	.35	.43	.48	.54	.56								
Aug. 18	D. N.	7.15 a. m.	1.80	4.28 a. m.	5.10 a. m.	.17	.14	.24	.29	.31	.38	.45	.57	.73	.82	.86	.88			
Fort Smith, Ark.:																				
May 19	1.13 a. m.	5.19 a. m.	1.36	1.15 a. m.	2.05 a. m.	.01	.07	.21	.23	.28	.32	.44	.55	.67	.72	.78	.84			
July 31 to Aug. 1	11.17 p. m.	D. N.	1.23	1.03 a. m.	1.42 a. m.	.06	.07	.11	.18	.25	.41	.56	.64	.70	.72	.75	.85	1.00		
Aug. 13	3.26 p. m.	5.10 p. m.	.73	3.30 p. m.	4.00 p. m.	T.	.17	.34	.47	.56	.64	.69	.71							
Aug. 28–29	8.55 p. m.	3.50 a. m.	1.07	2.36 a. m.	2.47 a. m.	.42	.07	.32	.59	.65										
Little Rock, Ark.:																				
Apr. 7	7.00 a. m.	10.00 a. m.	.71	8.00 a. m.	8.15 a. m.	.08	.14	.36	.43	.44										
May 29	6.50 p. m.	11.30 p. m.	1.13	8.12 p. m.	8.38 p. m.	.25	.31	.39	.42	.53	.75	.76	.78	.82						
July 11	1.00 p. m.	3.40 p. m.	2.48	1.00 p. m.	1.45 p. m.	.00	.11	.40	.59	.99	1.37	1.74	2.02	2.23	2.29					
July 12	6.25 p. m.	9.40 p. m.	.83	6.33 p. m.	7.00 p. m.	T.	.11	.27	.47	.54	.62	.68	.72							
July 29	3.54 p. m.	6.50 p. m.	1.12	4.07 p. m.	4.40 p. m.	T.	.18	.33	.37	.55	.82	.98	1.02							
Aug. 12	11.47 a. m.	1.45 p. m.	1.10	11.47 a. m.	12.22 p. m.	.00	.13	.21	.27	.41	.65	.91	.99							
Aug. 15	8.50 p. m.	10.45 p. m.	.80	9.09 p. m.	9.24 p. m.	.01	.23	.49	.67											
Sept. 14	6.24 p. m.	9.30 p. m.	.75	7.07 p. m.	7.35 p. m.	.08	.14	.33	.41	.50	.58	.63	.64							
Corpus Christi, Tex.:																				
Feb. 26	6.18 a. m.	7.40 a. m.	.85	6.22 a. m.	6.55 a. m.	T.	.25	.39	.53	.68	.68	.75	.79	.82						
				8.41 a. m.	9.25 a. m.	.02	.18	.29	.32	.44	.82	1.32	1.68	1.99	2.07	2.09				
Mar. 10	8.05 a. m.	6.00 p. m.	4.66	10.24 a. m.	11.15 a. m.	2.23	.15	.33	.44	.56	.77	1.02	1.17	1.27	1.42	1.52	1.56	1.64		
May 10	11.00 a. m.	1.35 p. m.	2.15	11.50 a. m.	12.45 p. m.	.06	.18	.48	.69	.94	1.01	1.22	1.55	1.76	1.88	1.92	2.02			
				7.45 a. m.	8.25 a. m.	1.61	.05	.10	.24	.35	.48	.57	.66	.82	.95	1.08				
June 12–13	8.23 p. m.	11.30 a. m.	4.49	8.35 a. m.	9.25 a. m.		1.21	1.32	1.53	1.59	1.68	1.80	1.89	1.94	1.99	2.01				
				9.25 a. m.	10.20 a. m.		2.03	2.05	2.07	2.09	2.13	2.23	2.31	2.38	2.41	2.55	2.74			
July 1	3.15 p. m.	8.30 p. m.	2.41	6.39 p. m.	7.45 p. m.	.76	.23	.36	.43	.45	.49	.53	.54	.55	.72	1.15	1.71	1.93		
Aug. 20	7.40 p. m.	8.18 p. m.	.56	7.52 p. m.	8.08 p. m.	T.	.16	.39	.52	.55	.56									
Dec. 4	6.01 a. m.	7.40 a. m.	.55	6.10 a. m.	6.27 a. m.	T.	.06	.17	.42	.50										
Fort Worth, Tex.:																				
June 9–10	7.50 p. m.	2.00 a. m.	.96	8.33 p. m.	8.50 p. m.	.14	.19	.36	.55	.60	.64	.66								
June 20	9.40 p. m.	11.50 p. m.	.74	10.22 p. m.	10.45 p. m.	.03	.07	.26	.40	.56	.61	.65	.68							
June 24	10.00 p. m.	11.35 p. m.	1.38	10.25 p. m.	11.00 p. m.	.01	.21	.45	.63	.94	1.13	1.23	1.29	1.32						
Oct. 4–5	3.30 p. m.	7.50 a. m.	2.80	6.56 p. m.	7.31 p. m.	.02	.06	.10	.18	.33	.46	.61	.68							
Oct. 31	3.40 a. m.	7.45 a. m.	.99	3.55 a. m.	4.25 a. m.	.08	.13	.24	.35	.41	.48	.54	.58	.60						
Galveston, Tex.:																				
Jan. 10	D. N.	7.20 a. m.	1.08	6.10 a. m.	6.48 a. m.	.42	.04	.09	.11	.21	.46	.49	.56	.64						
Feb. 9–10	8.50 p. m.	11.30 a. m.	2.41	9.35 a. m.	9.55 a. m.	1.11	.10	.49	.80	1.08	1.11	1.13								
Mar. 2–3	D. N.	12.40 p. m.	1.70	9.55 a. m.	10.55 a. m.	.12	.05	.22	.72	.95	1.05	1.08	1.14	1.18	1.22	1.27	1.40			
				11.20 a. m.	11.45 a. m.	.02	.05	.15	.26	.35	.54	.56								
Mar. 10	10.20 a. m.	8.30 p. m.	3.98	12.01 p. m.	12.30 p. m.	.59	.08	.16	.23	.44	.61	.73	.78	.79	.84					
				1.00 p. m.	1.30 p. m.	1.49	.25	.56	.95	1.08	1.23	1.30	1.32							
June 26	6.55 a. m.	9.05 a. m.	.99	7.10 a. m.	7.50 a. m.	.05	.26	.43	.51	.66	.70	.72	.81	.89	.90					
June 27	2.50 p. m.	3.45 p. m.	.77	2.56 p. m.	3.15 p. m.	T.	.25	.47	.65	.69	.70	.70	.74							
July 1	12.01 a. m.	3.53 p. m.	6.71	3.55 a. m.	4.55 a. m.	1.87	.12	.32	.48	.58	.67	.81	.98	1.18	1.22	1.32	1.62			
July 25	12.40 p. m.	1.55 p. m.	1.14	12.40 p. m.	1.05 p. m.	.00	.09	.42	.71	.99	1.12	1.13								
July 26	1.30 a. m.	7.40 a. m.	1.93	1.40 a. m.	2.05 a. m.	.04	.10	.12	.32	.63	.72	.74	.74	.81						
July 27	7.15 a. m.	7.50 a. m.	.72	7.17 a. m.	7.45 a. m.	T.	.24	.33	.35	.53	.70	.72								
Aug. 14	3.20 p. m.	4.05 p. m.	.83	3.25 p. m.	3.40 p. m.	T.	.33	.50	.60	.63										
Sept. 16	3.35 p. m.	4.55 p. m.	2.24	3.35 p. m.	4.35 p. m.	.00	.19	.42	.52	.58	.64	.65	.90	1.24	1.67	1.94	2.15	2.24		
Oct. 15	4.25 p. m.	6.30 p. m.	1.23	4.34 p. m.	4.49 p. m.	T.	.52	.86	1.02											
Palestine, Tex.:																				
Mar. 7	6.50 p. m.	8.15 p. m.	1.52	7.17 p. m.	7.55 p. m.	.01	.08	.18	.36	.68	1.01	1.23	1.34	1.36	1.40					
June 21	3.00 a. m.	6.50 a. m.	1.00	3.20 a. m.	4.00 a. m.	.05	.11	.19	.29	.45	.58	.66	.71	.75	.79					
July 4	2.43 p. m.	6.30 p. m.	1.51	2.44 p. m.	3.50 p. m.	T.	.13	.27	.35	.42	.56	.68	.76	.82	1.01	1.19	1.28	1.41		
July 25	4.20 p. m.	8.30 p. m.	.96	6.12 p. m.	6.35 p. m.	T.	.23	.52	.62	.70	.74	.76								
July 30	6.30 a. m.	12.10 p. m.	2.21	7.00 a. m.	8.20 a. m.	.01	.11	.20	.49	.60	.74	.90	.93							

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1903, 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—cont'd.																				
San Antonio, Tex.:																				
Feb. 24–26	*3.30 p. m.	†5.45 a. m.	4.12	†2.35 a. m.	†3.45 a. m.	2.88	0.13	0.26	0.29	0.32	0.38	0.47	0.55	0.60	0.66	0.70	0.94	1.10	.....	.....
May 9	6.00 a. m.	9.10 a. m.	.98	6.10 a. m.	6.45 a. m.	T.	.09	.20	.33	.53	.66	.76	.82	.85	.....	.....	.....	.....	.....	.....
June 25–26	11.25 p. m.	4.00 a. m.	1.12	3.17 a. m.	3.42 a. m.	.02	.33	.64	.83	.99	1.09	1.10	.....	.....	.....	.....	.....	.....	.....	.....
July 1–2	11.20 p. m.	5.50 a. m.	1.43	3.35 a. m.	4.35 a. m.	.04	.12	.32	.52	.61	.64	.68	.74	.78	.82	.84	1.12	.....	.....	.....
July 4–5	11.30 p. m.	8.42 a. m.	2.02	11.34 p. m.	12.25 a. m.	T.	.18	.37	.59	.83	1.07	1.10	1.19	1.25	1.30	1.37	1.43	.....	.....	.....
July 5	6.40 p. m.	9.35 p. m.	.84	8.29 p. m.	8.46 p. m.	.05	.11	.58	.71	.78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 27	11.08 a. m.	12.55 p. m.	.98	12.10 p. m.	12.23 p. m.	.20	.51	.72	.76	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 10	10.32 a. m.	11.15 a. m.	1.57	10.38 a. m.	11.13 a. m.	T.	.27	.50	.76	.98	1.14	1.38	1.56	1.57	.....	.....	.....	.....	.....	.....
Taylor, Tex.:																				
Feb. 9–10	5.05 p. m.	8.50 a. m.	1.15	4.57 a. m.	5.10 a. m.	.17	.11	.45	.54	.56	.57	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mar. 19	9.07 a. m.	D. N.	2.50	9.15 a. m.	11.00 a. m.	.01	.16	.43	.61	.67	.68	.70	.72	.82	.88	.93	1.14	1.64	1.93	.....
July 4	8.14 p. m.	11.55 p. m.	1.32	8.22 p. m.	9.02 p. m.	T.	.13	.32	.61	.82	.94	1.02	1.06	1.15	.....	.....	.....	.....	.....	.....
July 29	4.17 a. m.	4.40 p. m.	6.19	6.20 a. m.	6.55 a. m.	.71	.09	.15	.21	.50	.70	.99	1.31	.....	.....	.....	.....	.....	.....	.....
				7.30 a. m.	8.20 a. m.	2.08	.07	.49	1.00	1.27	1.36	1.50	1.60	1.95	2.40	2.73	.....	.....	.....	.....
				8.20 a. m.	9.00 a. m.	.....	2.98	3.21	3.30	3.37	3.43	3.47	3.56	3.60	.....	.....	.....	.....	.....	.....
Aug. 3	4.15 p. m.	5.45 p. m.	1.22	4.45 p. m.	5.15 p. m.	.11	.08	.18	.33	.53	.81	1.05	1.07	.....	.....	.....	.....	.....	.....	.....
Sept. 10	5.50 p. m.	8.56 p. m.	.54	6.03 p. m.	6.10 p. m.	.10	.25	.32	.34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 31	7.25 a. m.	10.10 a. m.	1.03	7.35 a. m.	8.10 a. m.	T.	.11	.36	.53	.63	.73	.80	.92	.95	.....	.....	.....	.....	.....	.....
OHIO VALLEY AND TENNESSEE.																				
Chattanooga, Tenn.:																				
Apr. 8	2.16 a. m.	5.38 a. m.	1.01	3.14 a. m.	3.55 a. m.	.02	.05	.15	.27	.32	.43	.59	.82	.91	.93	.96	.....	.....	.....	.....
May 29	1.40 p. m.	5.22 p. m.	1.06	2.18 p. m.	2.55 p. m.	.09	.29	.38	.48	.51	.61	.65	.72	.....	.....	.....	.....	.....	.....	.....
May 30	1.55 p. m.	4.45 p. m.	1.88	2.07 p. m.	3.00 p. m.	.01	.06	.13	.27	.37	.60	.90	1.15	1.43	1.53	1.68	1.78	.....	.....	.....
June 27	1.08 p. m.	3.00 p. m.	.59	1.32 p. m.	1.45 p. m.	.01	.23	.45	.53	.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 2–3	9.50 p. m.	1.50 a. m.	1.66	10.27 p. m.	11.35 p. m.	.01	.06	.12	.29	.49	.71	.89	1.02	1.16	1.26	1.34	1.42	.....	.....	.....
Oct. 7	7.20 p. m.	11.05 p. m.	1.40	7.48 p. m.	8.09 p. m.	.03	.26	.44	.54	.76	.81	.....	.....	.....	.....	.....	.....	.....	.....	.....
Knoxville, Tenn.:																				
Feb. 27–28	9.20 a. m.	D. N.	2.50	1.30 a. m.	2.35 a. m.	1.41	.12	.26	.36	.46	.50	.52	.57	.64	.77	.79	.94	1.06	.....	.....
Apr. 7–8	D. N.	6.25 a. m.	1.64	4.20 a. m.	4.55 a. m.	.60	.13	.35	.47	.51	.57	.62	.68	.70	.....	.....	.....	.....	.....	.....
May 29	5.30 p. m.	9.25 p. m.	.83	5.39 p. m.	6.00 p. m.	.01	.11	.14	.30	.51	.54	.56	.58	.....	.....	.....	.....	.....	.....	.....
June 6	D. N.	9.10 a. m.	.96	6.07 a. m.	6.52 a. m.	.03	.10	.23	.42	.45	.57	.65	.69	.72	.78	.....	.....	.....	.....	.....
Aug. 5	D. N.	D. N.	.86	4.05 a. m.	4.34 a. m.	.01	.11	.25	.53	.68	.78	.84	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 17	D. N.	11.15 a. m.	2.20	2.30 a. m.	3.10 a. m.	.03	.12	.23	.34	.46	.62	.73	1.05	1.13	1.17	.....	.....	.....	.....	.....
Memphis, Tenn.:																				
Apr. 12	7.10 a. m.	9.45 a. m.	1.14	7.59 a. m.	8.25 a. m.	.03	.35	.57	.62	.72	.87	.91	.93	.96	.....	.....	.....	.....	.....	.....
May 28	12.08 p. m.	1.05 p. m.	.69	12.09 p. m.	12.31 p. m.	T.	.13	.31	.56	.66	.68	.....	.....	.....	.....	.....	.....	.....	.....	.....
May 29–30	8.05 p. m.	D. N.	1.30	10.05 p. m.	10.35 p. m.	.12	.10	.20	.32	.46	.51	.60	.64	.....	.....	.....	.....	.....	.....	.....
June 25	3.48 p. m.	7.50 p. m.	.95	4.05 p. m.	4.35 p. m.	.10	.16	.40	.47	.49	.50	.60	.....	.....	.....	.....	.....	.....	.....	.....
July 11	12.45 p. m.	4.15 p. m.	.51	1.08 p. m.	1.32 p. m.	T.	.07	.25	.38	.44	.49	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 15	8.50 p. m.	9.45 p. m.	.54	8.57 p. m.	9.05 p. m.	.01	.25	.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 1	8.45 p. m.	10.30 p. m.	1.08	8.50 p. m.	9.25 p. m.	T.	.08	.19	.25	.39	.61	.81	.90	.....	.....	.....	.....	.....	.....	.....
Nashville, Tenn.:																				
Apr. 8	D. N.	4.30 a. m.	1.68	1.05 a. m.	1.45 a. m.	.08	.10	.25	.36	.40	.44	.47	.69	.85	.87	.94	1.01	.....	.....	.....
May 30	6.05 p. m.	9.45 p. m.	1.86	7.10 p. m.	7.35 p. m.	.70	.16	.44	.60	.74	.79	.83	.86	.90	.91	.....	.....	.....	.....	.....
June 5	5.25 a. m.	9.10 a. m.	2.55	6.30 a. m.	7.50 a. m.	.25	.10	.15	.26	.35	.43	.49	.58	.70	.82	1.02	1.58	2.05	.....	.....
June 9–10	11.40 p. m.	12.45 a. m.	1.80	11.45 p. m.	12.35 a. m.	.02	.11	.40	.57	.81	1.03	1.31	1.54	1.59	1.66	1.77	.....	.....	.....	.....
July 11	1.20 p. m.	1.55 p. m.	.50	1.24 p. m.	1.40 p. m.	T.	.21	.35	.42	.46	.49	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 7	3.10 p. m.	4.40 p. m.	.56	4.18 p. m.	4.28 p. m.	T.	.31	.52	.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 1	4.25 a. m.	8.50 a. m.	1.22	8.10 a. m.	8.37 a. m.	.60	.05	.14	.27	.42	.57	.62	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 16	7.58 p. m.	9.25 p. m.	.73	8.17 p. m.	8.35 p. m.	.02	.17	.34	.47	.52	.56	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lexington, Ky.:																				
July 30	4.44 p. m.	6.20 p. m.	.82	4.47 p. m.	5.15 p. m.	T.	.20	.41	.58	.68	.74	.79	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 19	12.17 p. m.	1.00 p. m.	.42	12.37 p. m.	12.45 p. m.	.01	.31	.41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisville, Ky.:																				
May 31	7.12 p. m.	10.30 p. m.	1.52	7.13 p. m.	7.30 p. m.	T.	.60	.89	1.05	1.09	1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 1	12.24 p. m.	3.32 p. m.	1.16	12.50 p. m.	1.15 p. m.	.21	.27	.39	.59	.68	.73	.74	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 4	9.56 p. m.	D. N.	.91	9.56 p. m.	10.16 p. m.	.00	.08	.36	.60	.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 7	1.30 p. m.	8.10 p. m.	.77	3.00 p. m.	3.14 p. m.	.06	.29	.40	.47	.49	.51	.55	.60	.64	.....	.....	.....	.....	.....	.....
Evansville, Ind.:																				
Mar. 7–8	11.10 p. m.	3.18 a. m.	1.65	11.50 p. m.	12.30 a. m.	.06	.15	.19	.34	.57	.74	.94	1.06	1.14	1.16	1.18	1.22	.....	.....	.....
Apr. 12–13	8.50 p. m.	10.42 a. m.	1.06	9.05 p. m.	9.35 p. m.	.02	.32	.34	.34	.44	.68	.75	.78	.81	.....	.....	.....	.....	.....	.....
June 28	5.51 p. m.	7.42 p. m.	.72	6.45 p. m.	7.05 p. m.	.01	.07	.37	.62	.68	.69	.....	.....	.....	.....	.....	.....	.....	.....	.....
July 16	8.11 a. m.	12.46 p. m.	1.63	9.55 a. m.	10.10 a. m.	.25	.41	.61	.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 5	6.48 p. m.	8.46 p. m.	1.09	6.50 p. m.	7.05 p. m.	T.	.40	.83	.93	.98	1.01	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 26	9.27 a. m.	11.48 a. m.	1.06	9.27 a. m.	10.10 a. m.	.00	.06	.14	.17	.37	.47	.53	.69	.88	.94	.97	.....	.....	.....	.....
Oct. 7	10.30 a. m.	5.20 p. m.	.98	12.00 noon	1.00 p. m.	.09	‡.06	‡.12	‡.18	.27	.34	.49	.52	.61	.62	.66	.77	.....	.....	.....
Indianapolis, Ind.:																				
May 25	6.22 a. m.	9.02 a. m.	.95	6.32 a. m.	7.10 a. m.	.09	.15	.36	.52	.58	.62	.65	.70	.....	.....	.....	.....	.....	.....	.....
July 12	1.45 a. m.	5.30 a. m.	1.45	1.45 a. m.	2.25 a. m.	.00	.07	.15	.29	.37	.48	.65	.75	.87	.91	.94	1.02	.....	.....	.....
Aug. 3–4	10.23 p. m.	9.15 a. m.	1.51	5.55 a. m.	6.21 a. m.	.46	.13	.25	.53	.75	.84	.....	.....	.....	.....	.....	.....	.....	.....	.....

*February 24. †February 26. ‡Estimated.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1903, 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.																				
Cincinnati, Ohio:																				
May 27	6.25 p. m.	9.30 p. m.	1.42	6.51 p. m.	7.25 p. m.	0.12	0.08	0.15	0.25	0.43	0.55	0.72	0.98	0.99	....	....	....	....	....	....
June 4–5	8.03 p. m.	D. N.	1.72	2.41 a. m.	3.05 a. m.	1.01	.14	.30	.46	.60	.68	.70	....	....	....	....	....	....	....	....
July 21	9.45 p. m.	11.50 p. m.	1.18	10.01 p. m.	10.35 p. m.	.01	.15	.44	.60	.70	.81	.91	1.01	1.03	....	....	....	....	....	....
Aug. 19	8.15 a. m.	9.45 a. m.	.71	8.23 a. m.	8.55 a. m.	.01	.19	.28	.34	.43	.51	.58	.63	.67	....	....	....	....	....	....
Aug. 26	6.05 p. m.	7.15 p. m.	.82	6.20 p. m.	7.05 p. m.	.01	.09	.16	.22	.34	.38	.42	.48	.66	0.80	....	....	....	....	....
Sept. 10	12.30 a. m.	D. N.	.81	12.59 a. m.	1.04 a. m.	T.	.25	.26	.26	.27	.29	.38	.49	.56	.68	0.72	0.80	....	....	....
Columbus, Ohio:																				
Oct. 7	4.50 p. m.	10.20 p. m.	1.18	5.34 p. m.	5.55 p. m.	.06	.29	.49	.52	.59	.63	.65	....	....	....	....	....	....	....	....
Pittsburg, Pa.:																				
July 4	2.40 p. m.	3.25 p. m.	1.47	2.45 p. m.	3.10 p. m.	T.	.25	.78	1.17	1.36	1.43	1.46	....	....	....	....	....	....	....	....
July 5	4.40 p. m.	6.15 p. m.	1.20	5.17 p. m.	6.00 p. m.	.37	.09	.24	.43	.66	.80	.83	....	....	....	....	....	....	....	....
July 20	2.20 p. m.	3.15 p. m.	.69	2.43 p. m.	2.52 p. m.	.05	.34	.57	.59	.63	....	....	....	....	....	....	....	....	....	....
Parkersburg, W. Va.:																				
Mar. 7–8	7.59 p. m.	7.46 a. m.	1.63	7.59 p. m.	8.30 p. m.	.00	.22	.43	.71	.86	.93	.99	1.01	1.04	....	....	....	....	....	....
July 5	2.31 p. m.	5.58 p. m.	1.78	2.36 p. m.	3.58 p. m.	T.	.04	.09	.19	.31	.33	.61	.74	.75	.78	.84	1.06	1.51	....	....
Aug. 19	3.00 p. m.	4.45 p. m.	2.21	3.00 p. m.	3.35 p. m.	.00	.15	.28	.90	1.37	1.75	1.91	1.98	....	....	....	....	....	....	....
Elkins, W. Va.:																				
May 29	7.17 p. m.	8.15 p. m.	.65	7.19 p. m.	7.38 p. m.	T.	.23	.42	.57	.63	.64	....	....	....	....	....	....	....	....	....
LOWER LAKE REGION.																				
Buffalo, N. Y.:																				
June 20	12.47 p. m.	7.15 p. m.	1.02	12.47 p. m.	1.02 p. m.	.00	.20	.40	.74	.75	....	....	....	....	....	....	....	....	....	....
Syracuse, N. Y.:																				
July 5	4.20 p. m.	7.30 p. m.	1.14	4.40 p. m.	5.20 p. m.	.04	.08	.24	.51	.72	.78	.84	.86	.93	.96	.99	....	....	....	....
Aug. 11	2.20 p. m.	2.48 p. m.	.48	2.31 p. m.	2.39 p. m.	.01	.25	.47	....	....	....	....	....	....	....	....	....	....	....	....
Oct. 8	6.30 a. m.	2.20 p. m.	1.57	7.15 a. m.	7.45 a. m.	.10	.10	.21	.35	.46	.54	.62	....	....	....	....	....	....	....	....
Erie, Pa.:																				
May 26–27	8.30 p. m.	D. N.	2.07	8.32 p. m.	9.05 p. m.	T.	.30	.63	1.28	1.38	1.45	1.51	1.61	1.64	....	....	....	....	....	....
Oct. 7–8	8.45 p. m.	D. N.	1.44	9.05 p. m.	9.40 p. m.	.02	.17	.36	.46	.52	.59	.65	.71	.75	.78	....	....	....	....	....
Cleveland, Ohio:																				
Aug. 29	6.03 p. m.	8.10 p. m.	1.19	6.09 p. m.	6.17 p. m.	T.	.78	1.04	1.06	1.09	1.17	....	....	....	....	....	....	....	....	....
Oct. 7	12.05 p. m.	6.30 p. m.	1.28	12.22 p. m.	12.55 p. m.	.01	.09	.16	.26	.38	.50	.57	.64	.66	.71	....	....	....	....	....
Sandusky, Ohio:																				
May 27	5.50 p. m.	9.10 p. m.	.76	5.50 p. m.	6.15 p. m.	.00	.20	.31	.33	.40	.46	.48	.52	....	....	....	....	....	....	....
July 17–18	9.20 p. m.	8.05 a. m.	2.41	1.25 a. m.	3.20 a. m.	.53	.04	.10	.18	.21	.27	.34	.38	.40	.43	.46	.54	.91	1.21	1.50
Aug. 27	6.45 a. m.	7.45 p. m.	3.67	4.12 p. m.	4.53 p. m.	1.80	.20	.50	.68	.80	.89	.95	1.03	1.12	1.18	1.21	1.35	....	....	....
Oct. 7	4.25 p. m.	9.22 p. m.	1.25	4.45 p. m.	5.10 p. m.	.08	.12	.25	.41	.54	.64	.67	....	....	....	....	....	....	....	....
Toledo, Ohio:																				
June 6	3.20 p. m.	10.00 p. m.	1.20	3.30 p. m.	3.45 p. m.	.12	.38	.54	.62	.65	.66	....	....	....	....	....	....	....	....	....
July 18	8.30 p. m.	D. N.	2.28	12.30 a. m.	1.30 a. m.	.55	.07	.17	.27	.36	.44	.52	.59	.72	.79	.88	1.04	....	....	....
Aug. 28	8.45 a. m.	12.20 p. m.	1.27	10.30 a. m.	11.08 a. m.	.36	.09	.23	.34	.41	.49	.62	.73	.81	.84	....	....	....	....	....
Aug. 28–29	9.35 p. m.	D. N.	1.63	10.00 p. m.	10.50 p. m.	.09	.14	.26	.32	.44	.53	.67	.73	.82	.92	1.06	....	....	....	....
				10.50 p. m.	11.10 p. m.	....	1.14	1.19	1.29	1.40	1.45	1.47	....	....	....	....	....	....	....	....
Detroit, Mich.:																				
Apr. 11–12	9.30 p. m.	2.00 a. m.	1.22	11.25 p. m.	11.40 p. m.	.53	.10	.37	.49	.52	.54	.56	....	....	....	....	....	....	....	....
June 6	4.05 p. m.	6.10 p. m.	2.93	4.25 p. m.	5.35 p. m.	.16	.06	.42	.71	.99	1.25	1.47	1.61	1.69	1.77	2.15	2.35	2.64	....	....
July 17–18	8.50 p. m.	4.15 a. m.	2.69	1.25 a. m.	2.15 a. m.	.52	.05	.10	.15	.20	.29	.42	.61	.81	.93	1.07	....	....	....	....
				2.15 a. m.	3.15 a. m.	....	1.17	1.25	1.32	1.39	1.49	1.55	1.63	1.71	1.78	1.86	2.02	2.13	....	....
UPPER LAKE REGION.																				
Alpena, Mich.:																				
July 28	5.44 p. m.	9.25 p. m.	1.92	6.00 p. m.	7.12 p. m.	.01	.23	.48	.57	.58	.58	.65	.66	.67	.73	.93	1.16	1.53	1.64	....
Oct. 1	11.32 a. m.	1.56 p. m.	1.79	11.32 a. m.	12.25 p. m.	.00	.11	.31	.50	.68	.84	.96	1.01	1.15	1.33	1.47	1.54	....	....	....
Escanaba, Mich.:																				
July 12	12.35 p. m.	1.30 p. m.	1.91	12.35 p. m.	1.10 p. m.	.00	.10	.79	1.42	1.62	1.66	1.77	1.87	1.90	....	....	....	....	....	....
July 28	1.15 a. m.	8.08 a. m.	1.63	3.35 a. m.	4.15 a. m.	.37	.07	.21	.38	.53	.70	.80	.88	.96	1.02	....	....	....	....	....
Sept. 9	1.05 a. m.	1.36 a. m.	.78	1.06 a. m.	1.25 a. m.	T.	.09	.18	.53	.77	....	....	....	....	....	....	....	....	....	....
Grand Haven, Mich.:																				
Apr. 11	3.50 p. m.	8.15 p. m.	1.18	6.20 p. m.	7.04 p. m.	.18	.10	.33	.49	.50	.51	.55	.65	.82	.88	....	....	....	....	....
Grand Rapids, Mich.:																				
Sept. 14	2.15 a. m.	6.30 a. m.	.96	4.55 a. m.	5.20 a. m.	.24	.08	.17	.32	.52	.59	.68	....	....	....	....	....	....	....	....
Chicago, Ill.:																				
July 9	9.10 p. m.	10.25 p. m.	1.09	9.22 p. m.	9.50 p. m.	.04	.10	.27	.62	.70	.84	.91	.94	.99	1.02	1.06	....	....	....	....
Aug. 3–4	10.35 p. m.	1.30 a. m.	.99	10.40 p. m.	11.15 p. m.	.01	.16	.33	.45	.50	.54	.72	.80	.84	....	....	....	....	....	....

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1903, 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 LAKE REGION—cont'd.																				
Milwaukee, Wis.:																				
May 23	10.30 a. m.	11.30 a. m.	0.81	10.45 a. m.	11.05 a. m.	0.01	0.08	0.36	0.66	0.76	0.79									
Sept. 14	5.30 a. m.	9.00 a. m.	1.23	6.37 a. m.	7.10 a. m.	.01	.30	.49	.57	.66	.73	0.78	0.83	0.87	0.91	1.00	1.13			
Oct. 6–7	8.58 p. m.	12.30 a. m.	1.27	11.10 p. m.	11.55 p. m.	.24	.25	.36	.40	.50	.63	.76	.83	.93	.97	.99				
Greenbay, Wis.:																				
Aug. 3	11.30 a. m.	4.00 p. m.	1.02	2.30 p. m.	3.30 p. m.	.10	.23	.39	.45	.46	.46	.46	.47	.56	.69	.89				
Duluth, Minn.:																				
Oct. 6	12.45 p. m.	11.30 p. m.	1.52	6.50 p. m.	7.50 p. m.	.52	.05	.11	.18	.23	.27	.34	.41	.47	.57	.73	.87			
NORTH DAKOTA.																				
Bismarck, N. Dak.:																				
Aug. 23–24	11.14 p. m.	2.40 a. m.	2.30	11.25 p. m.	12.25 a. m.	.07	.07	.18	.30	.40	.48	.56	.77	.90	1.04	1.07	1.25			
UPPER MISSISSIPPI VALLEY.																				
St. Paul, Minn.:																				
July 2	1.15 p. m.	3.35 p. m.	.81	2.03 p. m.	2.50 p. m.	.03	.05	.06	.09	.21	.31	.37	.47	.57	.64	.72				
	9.42 p. m.	11.58 p. m.	1.75	10.15 p. m.	11.58 p. m.	.03	.05	.15	.30	.40	.47	.65	.80	1.01	1.11	1.28	1.38	1.59	1.72	
July 9	8.05 a. m.	9.50 a. m.	.63	8.45 a. m.	9.00 a. m.	.04	.31	.46	.58											
Sept. 11–12	6.20 p. m.	5.22 a. m.	5.00	8.10 p. m.	9.05 p. m.	.02	.15	.22	.33	.43	.52	.73	.81	.90	1.02	1.12	1.23			
Oct. 3	1.52 a. m.	4.10 a. m.	1.99	2.10 a. m.	3.20 a. m.	.09	.45	.54	.85	1.07	1.12	1.15	1.19	1.24	1.32	1.35	1.51	1.83		
La Crosse, Wis.:																				
May 26	6.23 p. m.	11.55 p. m.	1.39	8.27 p. m.	8.50 p. m.	.02	.08	.31	.46	.53	.62	.65	.70							
July 3–4	9.45 p. m.	5.30 a. m.	1.37	11.20 p. m.	11.55 p. m.	.22	.08	.12	.34	.53	.58	.67	.78	.82						
July 9	2.25 p. m.	7.50 p. m.	1.27	3.05 p. m.	3.25 p. m.	.06	.13	.55	.96	1.01										
Aug. 3	7.30 a. m.	10.45 a. m.	1.07	7.37 a. m.	8.02 a. m.	.01	.33	.43	.52	.59	.91									
Sept. 11	7.00 p. m.	7.58 p. m.	.58	7.30 p. m.	7.50 p. m.	.03	.05	.14	.29	.52	.55									
Davenport, Iowa:																				
July 2	12.10 a. m.	12.40 a. m.	.70	12.15 a. m.	12.32 a. m.	.01	.12	.34	.68											
Aug. 5	10.17 a. m.	11.57 a. m.	1.15	10.27 a. m.	10.57 a. m.	T.	.12	.50	.80	.88	.94	1.05	1.10							
Sept. 9	6.00 a. m.	2.20 p. m.	2.24	6.38 a. m.	7.16 a. m.	.14	.25	.40	.62	.84	1.06	1.27	1.52	1.59						
Sept. 14	3.18 p. m.	5.32 p. m.	1.56	3.23 p. m.	4.18 p. m.	T.	.08	.12	.20	.29	.41	.51	.64	.68	.76	1.16	1.37	1.48		
Des Moines, Iowa:																				
May 21–22	11.55 p. m.	D. N.	1.38	1.08 a. m.	2.30 a. m.	.10	.08	.17	.44	.66	.72	.77	.82	.86	.89	.93	.99	1.27		
Aug. 26–27	2.57 p. m.	8.25 a. m.	3.15	3.42 p. m.	3.57 p. m.	.26	.18	.40	.59	.62										
Dubuque, Iowa:																				
July 9	12.40 a. m.	8.10 a. m.	1.75	1.55 a. m.	2.25 a. m.	T.	.14	.30	.43	.54	.77	.84	.86							
Aug. 5	6.45 a. m.	8.45 a. m.	.92	7.08 a. m.	7.18 a. m.	.04	.29	.49	.52	.55	.56									
Oct. 3	4.05 p. m.	4.40 p. m.	.58	4.18 p. m.	4.40 p. m.	.03	.21	.38	.48	.53	.55									
Cairo, Ill.:																				
June 21	9.45 p. m.	11.30 p. m.	.80	9.54 p. m.	10.30 p. m.	T.	.18	.42	.55	.61	.68	.72	.75	.78						
July 11	3.45 p. m.	9.00 p. m.	1.28	4.02 p. m.	5.00 p. m.	.01	.08	.19	.24	.33	.37	.40	.45	.54	.59	.81	.98			
July 15	5.45 a. m.	8.20 a. m.	.86	7.40 a. m.	8.05 a. m.	.20	.15	.20	.35	.43	.62	.64								
Springfield, Ill.:																				
May 24	10.46 a. m.	4.10 p. m.	1.65	2.25 p. m.	2.43 p. m.	1.00	0.12	0.26	0.49	0.53										
Aug. 5	3.13 p. m.	5.20 p. m.	1.29	3.18 p. m.	3.28 p. m.	.05	.14	.39	.44	.47	0.49	0.55	0.63	0.69	0.71	0.74	0.80			
Hannibal, Mo.:																				
Sept. 9–10	6.35 p. m.	4.15 a. m.	2.73	6.42 p. m.	7.02 p. m.	.01	.32	.66	1.08	1.28	1.28	1.30								
St. Louis, Mo.:																				
May 31	8.10 p. m.	10.30 p. m.	1.27	9.03 p. m.	9.35 p. m.	.23	.11	.12	.18	.48	.76	.99	1.01							
June 1	3.28 p. m.	7.35 p. m.	.96	3.34 p. m.	4.00 p. m.	T.	.26	.40	.60	.68	.74	.76								
June 22	9.05 a. m.	10.55 a. m.	.93	9.31 a. m.	10.30 a. m.	.02	.04	.04	.18	.45	.64	.69	.71	.74	.79	.82	.91			
July 29	6.10 p. m.	8.03 p. m.	1.46	6.35 p. m.	7.30 p. m.	.02	.14	.18	.41	.53	.71	1.01	1.11	1.22	1.27	1.33	1.40			
Aug. 13	12.27 p. m.	1.36 p. m.	.78	12.30 p. m.	1.15 p. m.	T.	.03	.04	.07	.09	.18	.34	.50	.66	.75					
Sept. 15	2.40 p. m.	4.55 p. m.	1.06	2.53 p. m.	3.30 p. m.	T.	.15	.37	.50	.59	.76	.89	.96	.99						
MISSOURI VALLEY.																				
Columbia, Mo.:																				
May 25	10.50 a. m.	12.15 p. m.	1.96	11.04 a. m.	12.06 p. m.	.01	.20	.54	.67	.85	1.04	1.27	1.46	1.60	1.65	1.72	1.94			
July 11	6.06 p. m.	7.28 p. m.	.80	6.15 p. m.	6.45 p. m.	T.	.08	.24	.34	.50	.67	.76	.78							
Aug. 26	D. N.	D. N.	.88	1.45 a. m.	2.03 a. m.	.15	.25	.43	.52	.71	.72									
Sept. 15	10.40 a. m.	12.19 p. m.	.65	11.36 a. m.	11.58 a. m.	.05	.25	.44	.51	.55										
Oct. 6–7	10.30 p. m.	D. N.	2.06	10.34 p. m.	11.30 p. m.	.02	.11	.19	.34	.38	.50	.68	.79	.85	.91	.95	1.04			
Kansas City, Mo.:																				
June 21	7.16 a. m.	9.05 a. m.	.84	7.53 a. m.	8.12 a. m.	.02	.16	.48	.74	.80										
July 11	4.30 a. m.	8.05 a. m.	1.19	4.38 a. m.	5.27 a. m.	.04	.11	.13	.26	.32	.39	.42	.47	.62	.74	.82				
July 14	12.05 a. m.	3.35 a. m.	.75	1.20 a. m.	1.32 a. m.	.15	.13	.43	.51	.53	.55									
Aug. 13	1.48 a. m.	8.15 a. m.	2.60	2.35 a. m.	4.35 a. m.	.10	.06	.13	.19	.27	.46	.50	.58	.60	.67	.75	.77	0.84	1.02	1.35
Aug. 15	12.45 a. m.	5.30 a. m.	1.56	1.30 a. m.	2.05 a. m.	.04	.05	.18	.35	.56	.82	1.08	1.15							
Aug. 25	2.20 a. m.	5.15 a. m.	1.10	3.10 a. m.	3.28 a. m.	.05	.16	.51	.62	.68										
Sept. 9	3.25 a. m.	8.50 p. m.	4.98	1.36 p. m.	2.30 p. m.	1.66	.19	.48	.67	.83	.93	1.00	1.25	1.50	1.74	1.82	1.87			
Nov. 10–11	8.50 p. m.	12.30 a. m.	1.14	10.12 p. m.	10.44 p. m.	.34	.13	.19	.27	.33	.47	.55	.61	.64	.67					

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1903, 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.
MISSOURI VALLEY—continued.																				
Springfield, Mo.:																				
May 30	8.19 a. m.	9.26 a. m.	0.84	8.30 a. m.	9.00 a. m.	0.03	0.05	0.13	0.25	0.38	0.53	0.68	0.73	0.76						
Topeka, Kans.:																				
Apr. 18	5.20 p. m.	7.05 p. m.	.61	5.30 p. m.	5.45 p. m.	.01	.06	.26	.52	.56										
May 29	3.28 p. m.	5.30 p. m.	.78	4.05 p. m.	4.31 p. m.	.09	.09	.27	.42	.54	.64	.67								
June 24–25	11.25 p. m.	3.15 p. m.	2.52	12.02 a. m.	12.45 a. m.	.06	.24	.59	.92	1.17	1.38	1.52	1.64	1.74	1.80	1.81				
Aug. 2	3.10 a. m.	10.00 a. m.	4.59	8.06 a. m.	8.50 a. m.	1.80	.13	.29	.46	.63	1.12	1.51	1.67	1.89	2.15	2.45				
				8.50 a. m.	9.10 a. m.		2.78	2.92	3.00	3.06	3.11	3.12								
Aug. 5–6	10.00 p. m.	6.30 a. m.	3.35	10.53 p. m.	11.48 p. m.	.05	.14	.22	.33	.56	.67	.79	.86	.92	1.03	1.30	1.66			
Oct. 6	5.52 p. m.	9.10 p. m.	1.15	6.22 p. m.	6.35 p. m.	.08	.22	.53	.70	.76										
Lincoln, Nebr.:																				
Apr. 28–29	5.30 p. m.	7.10 a. m.	2.16	7.50 p. m.	8.05 p. m.	.21	.18	.44	.55	.58	.60									
May 24–25	10.42 p. m.	D. N.	1.37	10.52 p. m.	11.35 p. m.	T.	.18	.32	.40	.51	.57	.82	.91	.96	1.01	1.03				
July 15	5.30 p. m.	7.52 p. m.	.83	7.11 p. m.	7.25 p. m.	.01	.24	.65	.72	.74	.79	.82								
July 31 to Aug. 1.	11.40 p. m.	7.00 a. m.	2.00	12.00 mdt.	12.20 a. m.	T.	.45	.80	.93	1.04										
Omaha, Nebr.:																				
May 10	1.40 p. m.	8.50 p. m.	1.22	2.04 p. m.	2.50 p. m.	T.	.04	.06	.08	.31	.43	.55	.60	.64	.67					
May 21–22	9.35 p. m.	D. N.	.81	10.05 p. m.	10.35 p. m.	.01	.05	.13	.22	.30	.55	.66	.67							
July 29	1.00 a. m.	6.05 a. m.	.96	3.50 a. m.	4.20 a. m.	.09	.04	.13	.34	.47	.52	.59	.61							
Aug. 24	7.42 p. m.	9.50 p. m.	1.96	8.43 p. m.	9.10 p. m.	.57	.11	.39	.57	.90	1.17	1.27								
Aug. 26	4.25 p. m.	7.15 p. m.	3.49	4.26 p. m.	5.16 p. m.	T.	.27	.48	.48	.59	.73	.99	1.13	1.24	1.36	1.48				
				5.16 p. m.	6.31 p. m.		1.54	1.62	1.64	1.79	1.94	1.99	2.08	2.09	2.10	2.10	2.57	2.97		
Valentine, Nebr.:																				
June 23	5.30 p. m.	6.05 p. m.	.46	5.37 p. m.	5.50 p. m.	T.	.10	.35	.42	.45	.46									
July 16–17	10.00 p. m.	7.45 a. m.	1.65	11.55 p. m.	12.40 a. m.	.30	.08	.15	.22	.28	.34	.45	.71	.85	.90					
Huron, S. Dak.:																				
June 18	6.10 p. m.	7.41 p. m.	.82	6.43 p. m.	6.54 p. m.	.09	.43	.65	.72											
July 26	2.39 a. m.	6.07 a. m.	.94	2.39 a. m.	3.00 a. m.	.00	.13	.31	.56	.69	.74	.77	.80							
Sept. 11–12	10.45 p. m.	8.05 a. m.	1.58	7.19 a. m.	7.35 a. m.	1.02	.16	.33	.51	.54										
MIDDLE SLOPE.																				
Pueblo, Colo.:																				
Aug. 15	1.45 a. m.	4.15 a. m.	1.09	2.18 a. m.	2.30 a. m.	.21	.29	.45	.54											
Dodge, Kans.:																				
Aug. 6	10.28 a. m.	12.07 p. m.	1.28	10.43 a. m.	11.21 a. m.	.06	.16	.43	.60	.61	.62	.83	1.08	1.14	1.17					
Wichita, Kans.:																				
May 20–21	9.45 p. m.	6.30 a. m.	2.22	9.47 p. m.	10.50 p. m.	T.	.18	.33	.45	.68	1.02	1.22	1.28	1.34	1.44	1.57	1.67			
May 22	9.13 p. m.	11.05 p. m.	1.07	10.15 p. m.	10.40 p. m.	.19	.05	.23	.54	.67	.76	.80								
Aug. 1	4.13 a. m.	10.15 a. m.	1.99	4.15 a. m.	4.45 a. m.	.01	.56	.70	.97	1.10	1.22	1.30								
Oct. 30	6.35 a. m.	6.15 p. m.	1.98	8.30 a. m.	9.12 a. m.	.12	.29	.51	.70	.80	.94	1.05	1.13							
Oklahoma, Okla.:																				
May 21	9.48 p. m.	D. N.	1.25	10.37 p. m.	11.10 p. m.	.09	.28	.49	.55	.70	.86	1.08	1.13							
May 23–24	11.40 p. m.	5.40 a. m.	4.06	12.05 a. m.	12.58 a. m.	.05	.07	.13	.21	.49	.74	.88	1.02	1.21	1.41	1.49				
May 28–29	10.08 p. m.	8.30 a. m.	3.27	10.10 p. m.	11.45 p. m.	T.	.31	.55	.75	.90	.96	1.01	1.03	1.09	1.12	1.19	1.25	1.47	1.67	
June 24	4.21 a. m.	7.50 a. m.	.93	4.45 a. m.	5.20 a. m.	.01	.08	.14	.36	.47	.65	.75	.80	.83						
July 4	1.22 a. m.	4.15 a. m.	.90	2.02 a. m.	3.00 a. m.	.03	.06	.12	.16	.22	.26	.26	.27	.30	.48	.63	.75			
SOUTHERN SLOPE.																				
Amarillo, Tex.:																				
Aug. 10–11	11.45 p. m.	2.30 a. m.	1.76	12.30 a. m.	1.14 a. m.	.15	.05	.15	.29	.57	.78	.97	1.15	1.36	1.53					
Oct. 6	2.00 a. m.	3.45 a. m.	1.30	2.27 a. m.	3.14 a. m.	.11	.27	.36	.50	.70	.82	.93	.94	1.02	1.17					
NORTHERN PLATEAU.																				
Pocatello, Idaho:																				
Aug. 21	4.20 p. m.	4.55 p. m.	.49	4.45 p. m.	4.53 p. m.	T.	.35	.49												
SOUTH PAC. COAST REGION.																				
Los Angeles, Cal.:																				
Mar. 24–25	8.45 a. m.	8.44 a. m.	3.35	8.45 p. m.	9.10 p. m.	1.21	.06	.18	.25	.38	.44	.45	.49	.54	.55	.56	.57			
San Diego, Cal.:																				
Feb. 4	6.55 a. m.	12.30 p. m.	.60	8.10 a. m.	8.40 a. m.	.02	.05	.15	.25	.30	.45	.50								
WEST INDIES.																				
Basseterre, W. I.:																				
Oct. 16	10.28 a. m.	5.15 p. m.	1.81	12.45 p. m.	1.45 p. m.	.15	.21	.45	.59	.76	.80	.86	.94	.99	1.07	1.17	1.41	1.55		
Bridgetown, Barbados:																				
Mar. 10	3.54 p. m.	4.40 p. m.	1.15	3.58 p. m.	4.25 p. m.	T.	.26	.64	.90	1.00	1.09	1.13								
June 29–30	6.25 p. m.	4.45 a. m.	4.03	8.26 p. m.	8.55 p. m.	.67	.17	.30	.36	.73	.93	1.08								
				11.10 p. m.	11.30 p. m.	1.98	.11	.34	.73	.82	.88									
July 7	1.26 p. m.	4.20 p. m.	1.45	1.40 p. m.	2.40 p. m.	.06	.12	.31	.44	.44	.53	.53	.53	.59	.79	.89	1.15			
Sept. 15	3.23 p. m.	4.09 p. m.	1.54	3.25 p. m.	3.55 p. m.	T.	.32	.49	.70	1.05	1.27	1.48	1.52							

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1903, 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.																				
Cienfuegos, Cuba:																				
July 25	5.53 p. m.	6.45 p. m.	1.15	5.54 p. m.	6.13 p. m.	T.	0.37	0.63	0.83	1.14	...	...	...	...	...	...	...	...	...	...
Aug. 4	1.31 p. m.	6.10 p. m.	1.00	3.33 p. m.	3.48 p. m.	0.27	.23	.51	.57	.69	0.60	...	...	...	...	...	...	...	...	...
Sept. 3–4	7.14 p. m.	D. N.	1.40	7.20 p. m.	7.50 p. m.	.02	.08	.24	.35	.58	.73	0.81	...	...	...	...	...	...	...	...
Sept. 20	5.07 p. m.	7.30 p. m.	1.15	5.51 p. m.	6.18 p. m.	.24	.24	.38	.49	.62	.69	.75	0.76	...	...	...	...	...	...	...
Oct. 13	1.40 p. m.	2.40 p. m.	.61	1.51 p. m.	2.15 p. m.	T.	.21	.29	.36	.47	.55	.58	.60	...	...	...	...	...	...	...
Havana, Cuba:																				
Jan. 18	9.00 a. m.	12.35 p. m.	1.02	10.25 a. m.	10.38 a. m.	.24	.24	.58	.68	...	...	...	...	...	...	...	...	...	...	...
Feb. 23	D. N.	4.36 p. m.	2.67	12.35 p. m.	1.25 p. m.	.84	.11	.26	.34	.43	.57	.78	1.02	1.23	1.41	1.56	1.63	1.73	...	...
Mar. 16	3.40 p. m.	4.35 p. m.	.80	3.50 p. m.	4.00 p. m.	.02	.39	.58	.59	.61	.66	.74	.77	...	...	...	...	...	...	...
Mar. 21	3.40 p. m.	5.05 p. m.	.71	4.05 p. m.	4.35 p. m.	T.	.05	.21	.39	.55	.63	.67	.70	...	...	...	...	...	...	...
Mar. 28	8.35 p. m.	11.10 p. m.	1.17	9.49 p. m.	10.25 p. m.	.01	.29	.42	.59	.68	.84	.90	1.03	1.06	...	...	...	...	...	...
May 13	1.43 a. m.	5.30 a. m.	1.38	3.05 a. m.	4.05 a. m.	.25	.06	.13	.20	.23	.26	.30	.38	.53	.68	.77	.99	...	...	...
June 16	11.50 a. m.	12.19 p. m.	.61	11.52 a. m.	12.17 p. m.	T.	.07	.12	.25	.49	.60	...	...	...	...	...	...	...	...	...
June 16	12.57 p. m.	2.20 p. m.	1.50	1.05 p. m.	1.55 p. m.	.04	.08	.13	.17	.33	.58	.89	1.12	1.28	1.38	1.45	...	...	...	...
July 11	6.10 p. m.	7.25 p. m.	.79	6.21 p. m.	6.45 p. m.	T.	.30	.52	.65	.72	.77	...	...	...	...	...	...	...	...	...
July 28	3.40 p. m.	6.10 p. m.	.93	4.07 p. m.	4.35 p. m.	T.	.28	.55	.67	.73	.84	.88	...	...	...	...	...	...	...	...
Aug. 23	3.29 p. m.	6.50 p. m.	1.90	4.35 p. m.	5.55 p. m.	T.	.07	.14	.42	.48	.50	.64	.86	1.00	1.01	1.01	1.39	1.86	1.89	...
Sept. 1	7.14 p. m.	7.50 p. m.	.54	7.19 p. m.	7.35 p. m.	T.	.17	.38	.48	.51	.53	...	...	...	...	...	...	...	...	...
Oct. 13	4.25 p. m.	7.10 p. m.	1.01	5.20 p. m.	5.52 p. m.	.03	.15	.29	.40	.51	.69	.86	.90	...	...	...	...	...	...	...
Oct. 21	9.21 a. m.	11.50 a. m.	1.20	10.25 a. m.	10.40 a. m.	.12	.25	.42	.51	.52	.52	.54	.60	.61	.68	.69	.86	1.07	...	...
Nov. 19–20	8.42 p. m.	10.20 a. m.	2.27	10.06 p. m.	10.35 p. m.	.17	.11	.34	.44	.74	.98	1.12	1.16	...	...	...	...	...	...	...
Puerto Principe, Cuba:																				
Jan. 3	6.05 p. m.	7.58 p. m.	1.06	6.08 p. m.	6.35 p. m.	.01	.14	.42	.63	.77	.88	.93	...	...	...	...	...	...	...	...
July 17	3.27 p. m.	5.12 p. m.	.98	3.45 p. m.	4.15 p. m.	.06	.21	.37	.51	.62	.74	.81	.85	...	...	...	...	...	...	...
Aug. 31	5.10 p. m.	6.20 p. m.	1.14	5.15 p. m.	5.40 p. m.	.01	.14	.45	.59	.82	.95	1.01	...	...	...	...	...	...	...	...
Sept. 4	4.20 p. m.	6.30 p. m.	2.21	4.30 p. m.	5.40 p. m.	.03	.26	.43	.52	.58	.64	.66	.73	.97	1.22	1.29	1.75	2.05	2.17	2.18
Oct. 20	2.30 p. m.	6.00 p. m.	1.82	2.32 p. m.	3.42 p. m.	T.	.11	.18	.35	.58	.73	.82	.87	.90	.94	1.01	1.25	1.68	...	...
San Juan, Porto Rico:																				
Mar. 21	10.01 a. m.	11.10 a. m.	.95	10.10 a. m.	11.05 a. m.	T.	.13	.23	.48	.53	.59	.62	.65	.66	.78	.84	.95	...	...	...
Apr. 20	10.47 a. m.	11.35 a. m.	.73	10.50 a. m.	11.10 a. m.	.02	.16	.34	.55	.67	.70	...	...	...	...	...	...	...	...	...
May 20	12.26 p. m.	9.30 p. m.	1.72	4.45 p. m.	5.30 p. m.	.79	.10	.18	.29	.35	.42	.47	.51	.65	...	...	...	...	...	...
June 8	8.33 p. m.	9.20 p. m.	.56	8.33 p. m.	8.55 p. m.	.00	.14	.35	.48	.53	...	...	...	...	...	...	...	...	...	...
July 14	12.01 p. m.	7.20 p. m.	1.19	12.02 p. m.	12.27 p. m.	T.	.16	.38	.50	.58	.70	...	...	...	...	...	...	...	...	...
Aug. 17	10.45 a. m.	6.00 p. m.	2.58	12.56 p. m.	1.20 p. m.	1.07	.14	.32	.63	.70	.78	.80	...	...	...	...	...	...	...	...
Oct. 26	10.45 a. m.	1.00 p. m.	1.39	10.50 a. m.	11.58 a. m.	.02	.21	.29	.37	.46	.49	.57	.66	.71	.72	.72	1.03	1.31	...	...
Nov. 29–30	9.50 p. m.	6.40 a. m.	1.31	1.25 a. m.	1.50 a. m.	.42	.09	.29	.44	.55	.64	.68	.71	...	...	...	...	...	...	...
Dec. 7	7.10 p. m.	11.00 p. m.	1.10	9.45 p. m.	10.15 p. m.	.26	.08	.27	.48	.59	.70	.76	...	...	...	...	...	...	...	...
Dec. 18–19	8.10 p. m.	5.00 a. m.	3.97	10.00 p. m.	10.55 p. m.	.23	.11	.18	.21	.25	.33	.41	.57	.72	.87	.96	1.05	...	...	...
				12.20 a. m.	12.50 a. m.	1.44	.21	.30	.39	.47	.55	.61	.67	...	...	...	...	...	...	...
				3.10 a. m.	4.00 a. m.	2.89	.08	.21	.30	.37	.50	.67	.77	.85	.96	1.01	...	...	...	...
Santiago de Cuba, Cuba:																				
Oct. 4	3.10 p. m.	10.00 p. m.	1.26	3.56 p. m.	4.18 p. m.	.10	.14	.25	.50	.79	.87	...	...	...	...	...	...	...	...	...
Santo Domingo, W. I.:																				
July 10	11.42 a. m.	6.20 p. m.	2.08	11.58 a. m.	12.19 p. m.	T.	.49	.81	1.24	1.51	1.58	1.59	...	...	...	...	...	...	...	...
Aug. 18	11.30 a. m.	10.00 p. m.	2.94	2.00 p. m.	2.38 p. m.	.60	.13	.27	.35	.50	.57	.66	.73	.83	.86	.89	...	...	...	...
Sept. 30	12.35 p. m.	1.00 p. m.	.40	12.36 p. m.	12.41 p. m.	T.	.34	.36	...	...	...	...	...	...	...	...	...	...	...	...
Oct. 19	12.33 p. m.	1.25 p. m.	.77	12.42 p. m.	12.55 p. m.	T.	.13	.43	.63	.68	...	...	...	...	...	...	...	...	...	...

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903.

BRIDGETOWN, BARBADOS, WEST INDIES.

[$\varphi = 13° 4'$ N.; $\lambda = 59° 37'$ 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	29.940	30.040	29.857	80.2	75.9	83.4	72.5	78.0	85	68	70	69	70	80	0.724	0.716	1.12	0.24	2.5	1.3	4.9
February	30.004	30.106	29.973	80.0	76.2	83.6	72.7	78.2	85	69	69	69	69	78	.707	.708	1.19	.41	3.2	.7	5.0
March	29.913	29.993	29.864	80.9	75.8	83.7	71.9	77.8	86	67	69	70	67	81	.702	.720	4.70	1.89	3.5	.7	4.9
April	29.882	29.992	29.840	81.5	77.3	84.6	73.7	79.2	86	72	71	71	70	81	.752	.759	1.88	.38	5.8	2.2	5.7
May	29.914	30.019	29.868	83.5	79.3	86.0	75.5	80.8	87	73	72	72	68	79	.777	.787	1.94	.58	4.1	1.3	4.4
June	29.934	29.996	29.907	83.6	79.4	86.2	76.3	81.2	88	74	72	74	70	82	.797	.824	5.91	4.11	4.7	1.8	5.8
July	29.942	30.021	29.906	82.4	79.1	85.6	75.5	80.6	88	71	73	74	74	84	.816	.832	6.14	1.94	4.7	2.4	5.2
August	29.894	30.003	29.736	82.5	78.5	86.0	75.0	80.5	88	71	74	74	76	86	.838	.838	7.27	1.29	4.8	3.0	6.2
September	29.911	30.010	29.861	84.0	78.3	86.3	74.7	80.5	89	73	73	73	70	85	.816	.821	5.02	1.66	3.9	1.7	5.2
October	29.876	29.979	29.743	82.5	78.5	85.4	75.0	80.2	88	72	73	74	74	85	.816	.825	6.51	1.76	5.9	4.6	5.9
November[a]	29.868	29.945	29.856	83.4	77.7	86.0	74.3	80.2	87	72	72	73	68	85	.779	.803	1.09	.67	1.5	.9	2.9
December																					
Year																					

CURAÇAO, WEST INDIES.

[$\varphi = 12° 6'$ N.; $\lambda = 68° 56'$ W.]

January																					
February																					
March																					
April																					
May																					
June																					
July[b]	29.831	29.928	29.773	81.4	79.8	86.7	77.7	82.2	88	74	73	73	76	81	.818	.821	.19	.12	5.9	2.6	4.6
August	29.807	29.930	29.732	81.8	80.7	86.8	77.0	81.9	91	72	72	74	74	80	.799	.828	1.84	.53	5.8	3.1	5.8
September	29.811	29.927	29.766	82.7	81.3	87.9	78.4	83.2	90	73	73	74	74	78	.815	.837	.38	.17	7.1	3.0	5.5
October	29.767	29.911	29.707	81.9	81.0	86.7	77.2	82.0	91	71	74	74	76	80	.829	.848	3.49	1.70	5.9	3.9	5.6
November[c]	29.768	29.859	29.740	81.7	80.2	86.3	76.4	81.4	87	71	72	73	74	79	.797	.810	.68	.37	5.3	2.8	4.8
December																					
Year																					

HAVANA, CUBA.[d]

[$\varphi = 23° 9'$ N.; $\lambda = 82° 21'$ W.]

January	29.973	30.140	29.754	68.8	.....	78.1	66.6	72.4	83	55	65	....	88	....	.627	.....	2.88	1.56	4.5	.....	5.0
February	29.999	30.225	29.822	70.3	.....	81.0	67.9	74.4	86	60	66	....	88	....	.656	.....	3.36	3.14	3.2	.....	4.6
March	29.957	30.096	29.831	70.6	.....	81.0	67.4	74.2	85	61	66	....	85	....	.637	.....	5.12	1.49	3.5	.....	4.8
April	29.917	30.106	29.750	71.6	.....	80.3	67.3	73.8	87	59	62	....	74	....	.567	.....	.44	.39	2.4	.....	2.8
May	29.891	30.023	29.752	73.9	.....	81.6	68.5	75.0	85	33	66	....	78	....	.650	.....	2.85	1.73	2.9	.....	3.0
June	29.882	30.017	29.777	78.4	.....	86.4	72.6	79.5	91	69	72	....	81	....	.780	.....	6.28	3.76	4.2	.....	5.5
July	29.941	30.024	29.889	78.5	.....	87.5	72.9	80.2	91	66	73	....	83	....	.801	.....	5.58	1.40	3.3	.....	4.3
August	29.917	30.107	29.796	78.5	.....	87.6	73.0	80.3	90	70	73	....	83	....	.806	.....	3.93	1.92	1.9	.....	4.1
September	29.904	30.006	29.817	77.8	.....	86.6	73.0	79.8	91	68	72	....	84	....	.798	.....	3.04	.78	3.3	.....	4.9
October	29.889	30.105	29.680	75.1	.....	82.2	72.3	77.2	89	66	69	....	82	....	.713	.....	4.67	1.35	6.3	.....	5.7
November	29.940	30.052	29.841	70.5	.....	78.2	67.6	72.9	86	56	65	....	84	....	.632	.....	5.85	2.90	5.1	.....	4.7
December	30.012	30.142	29.848	67.1	.....	74.0	64.2	69.1	84	55	60	....	80	....	.584	.....	3.07	1.19	6.1	.....	5.9
Year	29.935	30.225	29.680	73.4	.....	82.0	69.4	75.7	91	55	67	....	82	....	.683	.....	46.57	3.76	3.9	.....	4.6

SAN JUAN, PORTO RICO.

[$\varphi = 18° 29'$ N.; $\lambda = 66° 7'$ W.]

January	29.943	30.053	29.846	75.2	75.7	82.4	71.2	76.8	86	68	69	69	81	81	.706	.715	2.09	.73	3.5	1.6	4.4
February	30.002	30.099	29.972	75.3	75.7	81.6	70.8	76.2	85	69	68	69	78	78	.685	.698	1.44	.42	4.3	3.8	4.4
March	29.903	30.030	29.820	75.4	75.5	81.0	70.2	75.6	84	65	68	68	77	76	.673	.675	4.26	1.38	3.9	3.5	3.8
April	29.846	29.950	29.714	78.5	77.2	83.8	72.3	78.0	90	69	69	69	74	77	.718	.716	3.07	.90	3.5	4.2	4.7
May	29.860	29.950	29.739	80.5	79.0	87.0	74.0	80.5	94	66	71	71	73	78	.757	.768	4.54	1.80	4.7	3.9	5.6
June	29.898	29.981	29.831	82.5	80.3	87.8	75.9	81.8	93	71	74	74	76	81	.831	.834	2.18	.66	3.4	3.0	4.2
July	29.931	30.010	29.799	81.4	80.2	86.3	75.1	80.7	89	72	74	74	78	81	.829	.830	7.13	1.25	4.1	4.6	5.1
August	29.887	29.999	29.817	81.8	80.1	86.6	74.6	80.6	89	71	74	74	77	82	.830	.839	8.41	3.02	3.0	5.2	5.3
September	29.882	29.990	29.783	81.6	79.6	86.3	74.5	80.4	90	72	73	74	76	82	.819	.825	5.13	1.16	4.4	4.2	5.7
October	29.831	29.950	29.725	80.7	78.8	86.6	74.2	80.4	91	68	73	73	77	82	.803	.808	5.87	1.79	4.5	2.9	5.0
November	29.804	29.918	29.670	77.8	77.9	83.8	72.4	78.1	87	70	71	71	79	81	.754	.767	6.41	1.55	4.2	3.8	4.8
December	29.863	29.985	29.792	75.6	76.3	81.9	71.0	76.4	85	68	69	70	81	81	.711	.732	9.48	4.50	4.1	3.8	4.4
Year	29.888	30.099	29.670	78.9	78.0	84.6	73.0	78.8	94	65	71	71	77	80	.760	.767	60.01	4.50	4.1	3.7	4.8

[a] Record for first 15 days. [b] For 25 days. [c] For 20 days. [d] 8 a. m. observation.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1903.

BRIDGETOWN, BARBADOS, WEST INDIES.

[H = 30 ft.; h_t = 57 ft.; h_r = 49 ft.; h_a = 65 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	9.1	E.	26	E.	0	0	15	47	0	0	0	0	0	0	11	13	7	17	11	0	0	0	0	0	0	0	0
February	9.9	E.	25	E.	0	0	9	45	2	0	0	0	0	0	9	13	6	14	8	0	0	0	0	0	0	0	0
March	7.6	E.	24	E.	0	3	20	35	3	0	0	0	0	1	13	8	10	10	8	0	0	0	0	0	0	0	0
April	7.8	E.	24	E.	0	1	4	38	17	0	0	0	0	0	9	10	11	13	7	0	0	0	0	0	0	0	0
May	9.1	E.	22	E.	0	0	0	40	22	0	0	0	0	0	15	10	6	11	8	0	0	0	0	0	0	1	0
June	9.4	E.	25	SE.	0	0	2	40	18	0	0	0	0	0	10	7	13	16	12	0	0	0	0	0	0	2	0
July	8.6	E.	25	E.	0	0	16	41	4	1	0	0	0	0	9	13	9	20	15	0	0	0	0	0	0	2	0
August	7.0	E.	28	SE.	0	0	15	31	11	2	1	0	1	1	9	4	18	24	20	0	0	0	0	0	0	9	0
September	6.2	E.	26	S.	0	1	14	28	15	0	0	1	1	0	10	9	11	12	10	0	0	0	0	0	0	8	0
October	7.0	E.	22	E.	0	0	6	27	24	5	0	0	0	0	9	9	13	24	16	0	0	0	0	0	0	5	0
November[b]	6.5	E.	14	SE.	0	0	2	23	4	0	1	0	0	0	10	4	1	4	3	0	0	0	0	0	0	0	0
December																											
Year																											

CURAÇAO, WEST INDIES.

[H = 75 ft.; h_t = 39 ft.; h_r = 32 ft.; h_a = 46 ft.]

January																											
February																											
March																											
April																											
May																											
June																											
July	14.3	E.	28	E.	0	0	1	44	5	0	0	0	0	0	10	13	2	4	1	0	0	0	0	0	0	0	0
August	10.2	E.	23	S.	0	0	2	45	13	2	0	0	0	0	6	14	11	11	8	0	0	0	0	1	0	4	0
September	11.3	E.	26	E.	0	0	2	43	15	0	0	0	0	0	5	21	4	5	3	0	0	0	0	0	0	2	0
October	9.0	E.	24	SE.	0	0	3	46	12	2	0	0	0	0	9	11	11	12	8	0	0	0	0	2	0	6	0
November	9.2	E.	28	NE.	0	0	1	35	4	0	0	0	0	0	8	8	4	9	5	0	0	0	0	0	0	0	0
December																											
Year																											

HAVANA, CUBA.

[H = 57 ft.; h_t = 87 ft.; h_r = 79 ft.; h_a = 105 ft.]

January	11.8	E.	34	NW.	0	1	3	18	2	4	1	1	0	1	9	18	4	14	11	0	0	0	0	0	0	1	0
February	12.9	E.	38	E.	0	1	3	17	5	1	0	0	1	0	13	8	7	5	4	0	0	0	0	0	0	0	0
March	11.5	E.	44	N.	2	0	2	22	5	1	1	0	0	0	11	16	4	15	11	0	0	0	0	0	0	5	0
April	11.4	E.	41	NE.	1	4	2	15	1	2	1	2	3	0	19	11	0	3	2	0	0	0	0	0	0	0	0
May	12.7	E.	37	NE.	0	0	0	24	2	0	3	1	1	0	24	4	3	5	4	0	0	0	0	0	0	1	0
June	8.7	E.	37	NE.	0	0	0	13	12	4	1	0	0	0	5	21	4	12	10	0	0	0	0	1	0	13	0
July	8.6	E.	48	E.	2	0	1	26	4	0	0	0	0	0	14	15	2	18	13	0	0	0	0	1	0	22	0
August	10.1	E.	40	NE.	1	0	2	28	1	0	0	0	0	0	13	16	2	13	8	0	0	0	0	1	0	18	0
September	7.9	E.	48	E.	1	2	0	17	6	2	1	1	1	0	7	20	3	16	10	0	0	0	0	2	0	14	0
October	12.0	E.	38	NE.	0	3	2	21	2	0	0	1	2	0	6	16	9	10	8	0	0	0	0	0	0	2	0
November	11.6	E.	52	E.	2	3	5	12	5	1	0	1	3	0	11	14	5	10	9	0	0	0	0	0	0	1	0
December	12.8	NE.	38	E.	0	11	5	9	2	1	1	0	2	0	7	13	11	16	11	0	0	0	0	0	0	0	0
Year	11.0	E.	52	E.	9	25	25	222	47	16	9	7	13	1	139	172	54	137	101	0	0	0	0	5	0	77	0

SAN JUAN, PORTO RICO.

[H=82 ft.; h_t=48 ft.; h_r=40 ft.; h_a=90 ft.]

January	10.9	E.	29	E.	0	0	1	28	22	10	1	0	0	0	11	19	1	14	8	0	0	0	0	0	0	0	0
February	13.0	E.	36	E.	0	0	1	27	21	5	2	0	0	0	10	17	1	13	11	0	0	0	0	0	0	0	0
March	11.2	E.	36	E.	0	2	9	26	13	3	6	0	3	0	15	16	0	18	13	0	0	0	0	0	0	0	0
April	9.6	SE.	29	E.	0	5	11	16	12	11	4	0	1	0	7	18	5	11	9	0	0	0	0	0	0	6	0
May	9.3	SE.	33	SE.	0	0	4	17	18	17	5	1	0	0	8	17	6	12	10	0	0	0	0	9	0	4	0
June	10.9	E.	36	E.	0	0	2	29	22	6	1	0	0	0	15	10	5	11	6	0	0	0	0	8	0	10	0
July	11.5	E.	35	E.	0	0	1	46	9	6	0	0	0	0	9	15	7	20	16	0	0	0	0	0	0	8	0
August	12.2	E.	46	SE.	3	0	4	38	14	3	1	2	0	0	8	15	8	22	17	0	0	0	0	0	0	10	0
September	8.2	SE.	30	SE.	0	1	4	14	28	11	1	1	0	0	6	12	12	19	13	0	0	0	0	1	0	13	0
October	8.2	SE.	38	W.	0	0	1	11	29	11	8	2	0	0	9	16	6	18	14	0	0	0	0	2	0	9	0
November	8.1	E.	28	E.	0	2	7	8	16	14	5	3	3	0	10	13	7	19	15	0	0	0	0	0	0	3	0
December	9.5	E.	32	E.	0	3	10	8	28	5	4	3	1	0	12	15	4	20	14	0	0	0	0	0	0	2	0
Year	10.2	E.	46	SE.	3	13	55	268	234	102	38	12	8	0	120	183	62	197	146	0	0	0	0	20	0	65	0

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

[b] Record for first 15 days.